OCRI-01

77 compounds
x 15 samples
1155 records ✓
1155 in EDD ✓

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / II / III (circle one) See attached Tier 3 checks

SITE: Olin Chemical Project #: 6107100016-12 SDG #: OCRI-01 320-24173-1

LAB #: TAL-Westfield

8 Soils + 2 waters (TB/EB)

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES NO NA	
Data completeness ☑ ☐ ☐ All data summaries, QC forms and raw data available from hard copy or electronic data package ☐ ☐ ☐ Data summaries match EDD	Contact lab if missing data. Lab to respond with 24 hours.
Holding Times and Preservation ☑ ☐ ☐ Hold times met (14 days with preservation) ☑ ☐ ☐ Preserved (waters HCL, soils methanol)	Hold times met ✓
Instrument Performance Check (Tune) ☑ ☐ ☐ Tune available for each 12-hour period samples were analyzed ☑ ☐ ☐ Appropriate number of significant figures reported (at least 2) ☑ ☐ ☐ Mass/Charge list (m/z) criteria met	Tier 3 check performed Compared / Verified values on Form I with RAW DATA
Initial Calibration ☑ ☐ ☐ %RSD less than or equal to 30% ☐ ☑ ☐ RRF greater than or equal to 0.05	Two Instruments used: HP #1 GC/MS → Soil Samples Agilent #2 GC/MS → only used for EBK-001
Continuing Calibration ☐ ☑ ☐ %D less than or equal to 25% ☑ ☐ ☐ RRF greater than or equal to 0.05.	See Attached sheet's for Actions except 1,4-Dioxane see attached
Blank Contamination ☑ ☐ ☐ Method blank contamination ☑ ☐ ☐ Trip blank contamination ☑ ☐ ☐ Equipment/Rinseate blank contamination	Evaluate all blanks for contamination. Highest contaminant level used for action level. → only Tetrahydrofuran 6.6 ug/kg no hits in samples no Qualification → See attached Notes. → Only Chloroform @ 0.7 ppb in Aqueous blank in associated samples no Action.

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REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes No NA TIER I / II / III (circle one)

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	Recovery OK
Matrix Spikes and Laboratory Control Samples ☐ ☐ ☐ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☐ ☐ ☐ MS/MSD RPD criteria met (water and soil <30%) ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	See attached
Field Duplicates ☐ ☐ ☑ RPD criteria (water <30%, soils <50%) met	Not in SDG OCRI-01
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: [signature]

Date: 3/11/10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

VOC's

VOLATILE/SEMIVOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

SITE: Olin Wilmington Project #: 610710016-12 SDG #: OCRI-01 360-24173-1

LAB #: TestAmerica - Westfield

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Holding Times and Preservation				
☑	☐	☐	Check the raw data including instrument run and extraction logs to verify reported sample extraction and analysis dates.	
☑	☐	☐	Check the raw data including extraction and instrument run logs to verify reported sample extraction and analysis dates.	
Instrument Performance Check (Tune)				
☑	☐	☐	Compare the reported tuning results on each GC/MS Tuning and Mass Calibration Form with each raw data mass listing and mass spectrum submitted.	Since the spectra are obtained from chromatographic peaks that should be free from coelution problems, background subtraction actions resulting in spectral distortions for the sole purpose of meeting the contract or method specifications are contrary to quality assurance objectives and are, therefore, unacceptable.
☑	☐	☐	Verify that the laboratory has not made any transcription or calculation errors.	
☑	☐	☐	If possible, verify that spectra were generated using appropriate background subtraction techniques.	Pg 855 ✓
Initial Calibration				
☑	☐	☐	Verify that the same instrument parameters were used for sample and calibration analyses, and that the instrument parameters which were utilized met method requirements.	
☑	☐	☐	Check and recalculate the average RRF and RRF for at least one volatile and semivolatile target compound associated with each internal standard.	Verify that the recalculated values agree within 10% of the laboratory reported values.
☑	☐	☐	Check and recalculate the %RSD for at least one volatile and semivolatile target compound associated with each internal standard.	See attached excel sheet

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes	No	N/A	TIER III	
☐	☐	☑	Review Standard Preparation Logs (if provided in the data package) to ensure that primary and secondary initial calibration standard concentrations are accurate and traceable to NIST standards.	→ Standard Prep logs not Provided
☐	☐	☑	Check and recalculate the initial calibration standard concentration for one volatile and one semivolatile target compound (if standards preparation documentation was provided in the data package).	Verify that the recalculated values agree within 10% of the laboratory reported values. → standard logs not provided
Continuing Calibration				
☑	☐	☐	Verify that the same instrument parameters were used for sample and calibration analyses, and that the instrument parameters which were utilized met method requirements.	
☑	☐	☐	Check and recalculate the RRF for at least one volatile and semivolatile target compound associated with each internal standard.	See attached
☑	☐	☐	Check and recalculate the %D for at least one volatile and semivolatile target compound associated with each internal standard.	Verify that the recalculated values agree within 10% of the laboratory reported values.
☐	☐	☑	Review Standard Preparation Logs (if provided in the data package) to ensure that primary and secondary continuing calibration standard concentrations are accurate and traceable to NIST standards.	} logs not provided
☐	☐	☑	Check and recalculate the continuing calibration standard concentration for one volatile and one semivolatile target compound (if standards preparation documentation was provided in the data package).	
Blanks				
☑	☐	☐	Verify from the raw data that the extraction and/or analysis dates and times, sample IDs, file IDs, etc. are accurately reported on the tabulated result forms.	
☑	☐	☐	Verify from the raw data, the Blank Summary form, and Form Is that a VOA instrument blank was analyzed in the same purging/sparging vessel (i.e, same position in the autosampler) as the sample that exceeded the instrument	

VOLATILE/SEMIVOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

Yes	No	N/A		
			calibration range.	
☐	☐	☑	Verify from the raw GPC data that a GPC instrument blank was analyzed after the GPC calibration and prior to sample analysis.	
☐	☐	☑	Verify from the raw Silica Gel data that a Silica Gel Column reagent blank was analyzed prior to sample analysis.	
☑	☐	☐	Check 10% of the raw data for each blank to verify that internal standard areas and retention time data, have been correctly transcribed to tabulated forms and that surrogate compound recovery data have been correctly calculated and transcribed to tabulated forms.	Review the blank chromatograms, quantitation reports, and mass spectra to ensure that no false positives or false negatives have been reported.
☑	☐	☐	Review the raw data (chromatograms, mass spectra and quantitation reports) to confirm the presence of target and non-target compounds in the blanks and to evaluate the presence of additional contaminants.	
Surrogates				
☑	☐	☐	Check raw data (e.g., chromatograms and quantitation reports) to verify that surrogate recoveries were reported accurately on the Surrogate Recovery Forms.	
☑	☐	☐	Ten percent of the surrogate compound recovery data should be checked for calculation and/or transcription errors. If errors are detected in this ten percent, then an additional ten percent of the data should be checked. If errors are found I the additional 10%, then all surrogate compound recovery calculations and transcriptions in the data package should be checked.	See attached Sample Quant Reports for Calculation checks.
Internal Standards				
☑	☐	☐	Check raw data (e.g., chromatograms and quantitation reports) to verify that the internal standard retention times and areas are accurately reported on the tabulated forms.	
Field Duplicates				
☐	☐	☑	Check and recalculate the analytical concentration for at least one positive detect and one sample quantitation limit (for a diluted sample or soil sample) for each fraction, in every field duplicate sample.	Not Reported in this SDG

VOLATILE/SEMIVOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

MDL Study	
☑ ☐ ☐ Check and recalculate the %RSD and % recoveries for at least three compounds per MDL study.	Verify that the recalculated values agree within 10% of the laboratory reported values.
☐ ☐ ☑ Check the standards preparation logs to verify that the stock standard used to prepare the LFB was from a source independent from the initial and continuing calibration standards.	Not Provided
☑ ☐ ☐ Check and recalculate % recovery for at least one compound per LFB fraction.	Verify that the recalculated values agree within 10% of the laboratory reported values.
PE Samples/Accuracy Check	
☐ ☐ ☑ Check and recalculate the percent recovery for at least one compound per LCS fraction.	Verify that the recalculated values agree within 10% of the laboratory reported values.
☐ ☐ ☑ Determine what percentage of analytes were below or above PES acceptance criteria.	Not Reported in this SDG
☐ ☐ ☑ Check and recalculate the analytical concentrations for at least one compound per PES fraction.	Verify that the recalculated values agree within 10% of the laboratory reported values.
Target Compound Identification	
☑ ☐ ☐ Check that the RRT of a reported compound is within+/- 0.06 RRT units of the standard RRT.	
☑ ☐ ☐ Compare all sample compound spectra to the laboratory standard spectra and verify that the mass spectral identification criteria are met.	
☑ ☐ ☐ Check the sample chromatogram to verify that all major peaks of interest are identified as either target compounds, TICs, surrogate compounds, or the internal standards.	
☑ ☐ ☐ The validator should be aware of situations when sample carryover is a possibility, and should use professional judgment to determine if instrument cross-contamination has affected any compound identification.	

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

Compound Quantitation and Reported Quant Limits	
☑ ☐ ☐ Recalculate, from the raw data, the concentrations for at least one positive detect and one sample quantitation limit (for a diluted sample or a soil sample) for each fraction, in every field sample to verify that laboratory reported sample results were accurately calculated according to the method.	→ See attached
☑ ☐ ☐ Verify that the concentrations for positive detects and sample quantitation limits have been adjusted to reflect sample dilutions, concentrations, cleanup methods and dry weight factors that are not accounted for in the method.	Done ✓
☑ ☐ ☐ Verify that the correct internal standard, quantitation ion and standard RRF were used to quantitate sample results for at least one positive detect in each fraction in every field sample.	Done ✓
Tentatively Identified Compounds	
☑ ☐ ☐ Verify that the laboratory has generated a library search for all required peaks in the sample and blank chromatograms.	→ Mecl_2 in MB 360-47992/3-A but not in associated samples
☑ ☐ ☐ Verify that a target compound was not missed by the target compound search procedure and erroneously reported as a TIC in the proper analytical fraction.	
☑ ☐ ☐ Verify that all TICs are reported with estimated (J) concentrations by the laboratory. Verify that TIC concentrations were calculated correctly, assuming a RRF of 1.0 and using the closest eluting IS that is free of interferences.	
☑ ☐ ☐ Verify that the blanks do not contain any TIC peaks.	
☑ ☐ ☐ Examine all TIC mass spectra in every sample and blank.	Common lab contaminants: CO2, siloxanes, diethyl ether, hexane,certain freons, and phthalates.
☑ ☐ ☐ Verify that TICs were reported as unknowns if the TIC spectra presented do not meet criteria set forth in Section XIV B.4.	Solvent preservatives: cyclohexene, cyclohexanone, cyclohexenone, cyclohexanol, cyclohexenol, chlorocyclohexene, and chlorocyclohexanol.
☑ ☐ ☐ Review blank and sample TIC spectra to ensure that common laboratory artifacts/contaminants are not reported as TICs.	Aldol condensation reaction products.

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

SVOC Cleanup

Gel Permeation Chromatography (GPC)

☐	☐	☐	Verify that the GPC system was calibrated initially in accordance with the method requirements and that peak shape and resolution criteria were met.
☐	☐	☐	Confirm from the raw data that the GPC calibration check was performed at the method required frequency.
☐	☐	☐	Verify that a GPC calibration check solution was analyzed in accordance with the method and that the correct target and surrogate compounds, interferents and concentrations were used.
☐	☐	☐	Verify that surrogate compound recoveries and internal standard area counts and/or retention times in the GPC calibration check meet method QC acceptance.
☐	☐	☐	Review the raw GPC calibration check data to verify that peaks are symmetrical and resolution meets method QC acceptance criteria for target and surrogate compounds and interferents in the GPC calibration check solution.
☐	☐	☐	Check the raw GPC calibration check data to verify that retention times for any compounds or interferents in the GPC calibration solution did not vary more than +/-5% between calibrations.
☐	☐	☐	Verify that a GPC instrument blank was analyzed after each GPC calibration and calibration check and prior to sample analysis.
☐	☐	☑	Verify that there are no target compounds present at greater than or equal to the quantitation limit in the GPC instrument blank.
☐	☐	☐	Verify that surrogate compound recoveries and internal standard area counts and/or retention times (if added) in the GPC instrument blank meet method QC acceptance criteria.
☐	☐	☐	Compare the raw data to the reported results, if available, and verify that no calculation and/or transcription errors have occurred. If the result forms are not available, then the validator must review the cleanup logs to confirm that method required cleanups were performed.

N/A

TC

3/11/10

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

Silica Gel Cleanup

☐	☐	☐	Verify that a Silica Gel Check solution was prepared and analyzed in accordance with the method and that the correct target and surrogate compounds, interferents, and concentrations were used.	TC 3/11/10 N/A
☐	☐	☐	Verify that surrogate compound recoveries and internal standard area counts and/or retention times in the Silica Gel Check solution meet method QC acceptance criteria..	
☐	☐	☐	Verify that a Silica Gel column reagent blank was prepared with each cleanup batch and was analyzed after the Silica Gel Check solution but prior to field samples.	
☐	☐	☐	Verify that there are no target compounds present at greater than or equal to the quantitation limit in the Silica Gel column reagent blank.	
☐	☐	☐	Verify that surrogate compound recoveries and internal standard area counts and/or retention times (if added) in the Silica Gel column reagent blank meet method QC acceptance criteria.	
☐	☐	☐	Compare the raw data to the reported results, if available, and verify that no calculation and/or transcription errors have occurred. If the result forms are not available, then the validator must review the cleanup logs to confirm that method required cleanups were performed.	

System Performance

☐	☐	☑ N/A	Evaluate all PES and other relevant QC data to determine if any analytical trends exist over the sample analysis period.	PES samples will be evaluated in another SDG where the data is reported TC 3/11/10
☐	☐	☑	The validator should ascertain from the PES and other relevant QC data if there is a high or low quantitative bias for a particular compound or group of compounds.	
☐	☐	☐	The validator should ascertain from the PES and other relevant QC data if there is a potential for false negative and/or false positives to be reported.	
☑ OK	☐	☐ N/A TC	The validator should ascertain from the MS/MSD and surrogate spike compound analyses if the sample matrix effects impact compound recovery, thus	

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

				indicating a method bias outside the control of the laboratory.	
OK	☑	☐	☐	Evaluate sample and QC sample reconstructed ion chromatograms analyzed on all columns to determine if the column chromatography, peak shape,, resolution, and baseline drift has either deteriorated or improved over the sample analysis period.	
OK	☑	☐	☐	The validator should ascertain from the raw data if unacceptable chromatography may contribute to a high or a low quantitative bias for a particular compound or group of compounds.	
OK	☑	☐	☐	The validator should also ascertain from the raw data if unacceptable chromatography may result in a potential for false negative and/or false positive identification.	
OK	☑	☐	☐	The validator should determine if chromatography prolems are a result of the sample matrix or are unique to the instrument.	
OK	☑	☐	☐	The validator should determine if significant retention time shifts have occurred between initial and continuing calibration.	
OK	☑	☐	☐	Compare the daily standard calibration area counts to ascertain if the instrument generated consistent detector responses over the sample analysis period.	
OK	☑	☐	☐	Review the area counts of the internal standards and surrogate compounds for each sample to ascertain if there is a change in detector response.	
	☐	☐	☑	The validator should evaluate the MS/MSD RPDs in conjunction with field duplicate RPDs to identify any analytical trends, ascertain if sample matrices were homogenous or heterogeneous, and determine if sampling error may have contributed to field imprecision.	MS/MSD Not Reported in this SDG
OK	☑	☐	☐	Review all daily LFBs, low level calibrated standards, and PES data to evaluate sensitivity for each instrument to verify that no instrument has lost its ability to to accurately quantitate and identify compounds at the quantitation limit over the sample analysis period, which could possibly result in false negatives and low biased results.	

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

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TIER III

OK	☑	☐	☐ Check the area counts of the individual sample, QC sample, calibration and blank internal standards to monitor instrument sensitivity changes.	
OK	☑	☐	☐ Review the sample chromatograms for abrupt, discrete shifts in the chromatographic baseline which may indicate a change in the instrument's sensitivity or the zero setting.	
	☑	☐	☐ The validator may determine that instrument sensitivity is adequate but sample matrix effects may preclude obtaining the quantitation limits required by the project DQOs using the analytical method employed.	
	☑	☐	☐ Review all blank and sample results to evaluate the possibility of sample contamination introduced via either cross contamination from a previously run sample or from general lab contamination.	carry over not observed TC
	☑	☐	☐ Compare blank analysis on two different instruments to determine if the contamination is instrument related or the interferents are present in the blank from sample processing activities.	
	☑	☐	☐ Assess whether problematic blank results are reproducible when replicate aliquots are analyzed or are sporadic interferences.	

Validator's Signature: _____

Date: 3-11-10

Reference:

U.S. Environmental Protection Agency (USEPA), 1996. "Test Methods for Evaluating Solid Waste"; Laboratory Manual Physical/Chemical Methods; Office of Solid Waste and Emergency Response; Washington, DC; SW-846; November 1986; Revision 4 -December 1996.

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-405-0.0/1.0-XXX

Lab Sample ID: 360-24173-1
Client Matrix: Solid

% Moisture: 5.8

Date Sampled: 08/18/2009 0830
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0801
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44497.D
Initial Weight/Volume: 5.68 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.93	2.3
1,1,1-Trichloroethane		ND		0.93	2.3
1,1,2,2-Tetrachloroethane		ND		0.93	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.93	12
1,1,2-Trichloroethane		ND		0.93	2.3
1,1-Dichloroethane		ND		0.93	2.3
1,1-Dichloroethene		ND		0.93	2.3
1,1-Dichloropropene		ND		0.93	2.3
1,2,3-Trichlorobenzene		ND		0.93	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.93	2.3
1,2,4-Trimethylbenzene		ND		0.93	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.93	2.3
1,2-Dichlorobenzene		ND		0.93	2.3
1,2-Dichloroethane		ND		0.93	2.3
Acetone		ND	J	17	230
1,2-Dichloropropane		ND		0.93	2.3
1,3,5-Trimethylbenzene		ND		0.93	2.3
1,3-Dichlorobenzene		ND		0.93	2.3
1,3-Dichloropropane		ND		0.93	2.3
1,4-Dichlorobenzene		ND		0.93	2.3
1,4-Dioxane		ND	J	31	230
2,2-Dichloropropane		ND		0.93	2.3
2,4,4-Trimethyl-1-pentene		ND		0.93	4.7
2,4,4-Trimethyl-2-pentene		ND		0.93	4.7
2-Chlorotoluene		ND		0.93	2.3
2-Hexanone		ND		4.8	23
4-Chlorotoluene		ND		0.93	2.3
Benzene		ND		0.93	2.3
Bromobenzene		ND		0.93	2.3
Chlorobromomethane		ND		0.93	2.3
Dichlorobromomethane		ND	J	0.93	2.3
Bromoform		ND		0.93	2.3
Bromomethane		ND		0.93	4.7
n-Butylbenzene		ND		0.93	2.3
Carbon disulfide		ND		0.93	2.3
Carbon tetrachloride		ND		0.93	2.3
Chlorobenzene		ND		0.93	2.3
Chloroethane		ND		0.93	4.7
Chloroform		ND		0.93	2.3
Chloromethane		ND		0.93	4.7
cis-1,2-Dichloroethene		ND		0.93	2.3
cis-1,3-Dichloropropene		ND		0.93	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.93	2.3

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-405-0.0/1.0-XXX

Lab Sample ID: 360-24173-1
Client Matrix: Solid

% Moisture: 5.8

Date Sampled: 08/18/2009 0830
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0801
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44497.D
Initial Weight/Volume: 5.68 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.93	2.3
Dichlorodifluoromethane		ND J	*	0.93	4.7
Ethyl ether		ND		0.93	2.3
Isopropyl ether		ND		0.93	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.93	2.3
Hexachlorobutadiene		ND		0.93	2.3
Isopropylbenzene		ND		0.93	2.3
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.3	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.93	2.3
Methylcyclohexane		ND		0.93	2.3
Methylene Chloride		~~4.9~~ ND	~~dB~~	4.5	9.3
m-Xylene & p-Xylene		ND		0.93	4.7
Naphthalene		ND		0.93	23
N-Propylbenzene		ND		0.93	2.3
o-Xylene		ND		0.93	2.3
4-Isopropyltoluene		ND		0.93	2.3
sec-Butylbenzene		ND		0.93	2.3
Styrene		ND		0.93	2.3
Tert-amyl methyl ether		ND		0.93	2.3
tert-Butylbenzene		ND		0.93	2.3
Tetrachloroethene		ND		0.93	2.3
Tetrahydrofuran		ND		5.1	23
Toluene		ND		0.93	2.3
trans-1,2-Dichloroethene		ND		0.93	2.3
trans-1,3-Dichloropropene		ND		0.93	2.3
Trichloroethene		ND		0.93	2.3
Trichlorofluoromethane		ND		0.93	4.7
Vinyl chloride		ND		0.93	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	96		70 - 130

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-405-0.0/1.0-XXX

Lab Sample ID: 360-24173-1
Client Matrix: Solid

% Moisture: 5.8

Date Sampled: 08/18/2009 0830
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44497.D
Dilution:	1.0			Initial Weight/Volume:	5.68 g
Date Analyzed:	08/26/2009 0801			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
~~Unknown~~		~~10.39~~	~~1.3~~	~~J~~

TC

TC
3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-405-14/15-XXX

Lab Sample ID: 360-24173-2
Client Matrix: Solid

% Moisture: 8.7

Date Sampled: 08/18/2009 0910
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/28/2009 1938
Date Prepared: 08/28/2009 1511

Analysis Batch: 360-48343
Prep Batch: 360-48340

Instrument ID: HP #1 GC/MS
Lab File ID: V44559.D
Initial Weight/Volume: 12.77 g
Final Weight/Volume: 10 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		43	110
1,1,1-Trichloroethane		ND		43	110
1,1,2,2-Tetrachloroethane		ND		43	110
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		43	540
1,1,2-Trichloroethane		ND		43	110
1,1-Dichloroethane		ND		43	110
1,1-Dichloroethene		ND		43	110
1,1-Dichloropropene		ND		43	110
1,2,3-Trichlorobenzene		ND		43	110
1,2,3-Trichloropropane		ND		63	110
1,2,4-Trichlorobenzene		ND		43	110
1,2,4-Trimethylbenzene		ND		43	110
1,2-Dibromo-3-Chloropropane		ND		77	1100
Ethylene Dibromide		ND		43	110
1,2-Dichlorobenzene		ND		43	110
1,2-Dichloroethane		ND		43	110
Acetone		ND	J	770	11000
1,2-Dichloropropane		ND		43	110
1,3,5-Trimethylbenzene		ND		43	110
1,3-Dichlorobenzene		ND		43	110
1,3-Dichloropropane		ND		43	110
1,4-Dichlorobenzene		ND		43	110
1,4-Dioxane		ND	J	1400	11000
2,2-Dichloropropane		ND		43	110
2,4,4-Trimethyl-1-pentene		2300	J	43	210
2,4,4-Trimethyl-2-pentene		620		43	210
2-Chlorotoluene		ND		43	110
2-Hexanone		ND		220	1100
4-Chlorotoluene		ND		43	110
Benzene		ND		43	110
Bromobenzene		ND		43	110
Chlorobromomethane		ND		43	110
Dichlorobromomethane		ND		43	110
Bromoform		ND		43	110
Bromomethane		ND		43	210
n-Butylbenzene		ND		43	110
Carbon disulfide		ND		43	110
Carbon tetrachloride		ND		43	110
Chlorobenzene		ND		43	110
Chloroethane		ND		43	210
Chloroform		ND		43	110
Chloromethane		ND		43	210
cis-1,2-Dichloroethene		ND		43	110
cis-1,3-Dichloropropene		ND		43	110
Cyclohexane		ND		110	1100
Chlorodibromomethane		ND		43	110

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-405-14/15-XXX

Lab Sample ID: 360-24173-2
Client Matrix: Solid

% Moisture: 8.7

Date Sampled: 08/18/2009 0910
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/28/2009 1938
Date Prepared: 08/28/2009 1511

Analysis Batch: 360-48343
Prep Batch: 360-48340

Instrument ID: HP #1 GC/MS
Lab File ID: V44559.D
Initial Weight/Volume: 12.77 g
Final Weight/Volume: 10 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		43	110
Dichlorodifluoromethane		ND J	*	43	210
Ethyl ether		ND		43	110
Isopropyl ether		ND		43	110
Tert-butyl ethyl ether		ND		110	110
Ethylbenzene		ND		43	110
Hexachlorobutadiene		ND		43	110
Isopropylbenzene		ND		43	110
Methyl acetate		ND		700	2100
2-Butanone (MEK)		ND		290	1100
4-Methyl-2-pentanone (MIBK)		ND		220	1100
Methyl tert-butyl ether		ND		43	110
Methylcyclohexane		ND		43	110
Methylene Chloride		ND		210	430
m-Xylene & p-Xylene		ND		43	210
Naphthalene		ND		43	1100
N-Propylbenzene		ND		43	110
o-Xylene		ND		43	110
4-Isopropyltoluene		ND		43	110
sec-Butylbenzene		ND		43	110
Styrene		ND		43	110
Tert-amyl methyl ether		ND		43	110
tert-Butylbenzene		ND		43	110
Tetrachloroethene		ND		43	110
Tetrahydrofuran		ND		240	1100
Toluene		ND		43	110
trans-1,2-Dichloroethene		ND		43	110
trans-1,3-Dichloropropene		ND		43	110
Trichloroethene		ND		43	110
Trichlorofluoromethane		ND		43	210
Vinyl chloride		ND		43	110

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	106		70 - 130
Dibromofluoromethane	107		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-405-14/15-XXX

Lab Sample ID: 360-24173-2
Client Matrix: Solid

% Moisture: 8.7

Date Sampled: 08/18/2009 0910
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/28/2009 1938
Date Prepared: 08/28/2009 1511

Analysis Batch: 360-48343
Prep Batch: 360-48340

Instrument ID: HP #1 GC/MS
Lab File ID: V44559.D
Initial Weight/Volume: 12.77 g
Final Weight/Volume: 10 g

Tentatively Identified Compounds

Number TIC's Found: 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	6.82	100	T J

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-405-8.0/9.0-XXX

Lab Sample ID: 360-24173-3
Client Matrix: Solid

% Moisture: 7.3

Date Sampled: 08/18/2009 0845
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 100
Date Analyzed: 08/25/2009 1820
Date Prepared: 08/20/2009 1455

Analysis Batch: 360-48140
Prep Batch: 360-48139

Instrument ID: HP #1 GC/MS
Lab File ID: V44463.D
Initial Weight/Volume: 11.82 g
Final Weight/Volume: 10 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		4600	11000
1,1,1-Trichloroethane		ND		4600	11000
1,1,2,2-Tetrachloroethane		ND		4600	11000
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4600	57000
1,1,2-Trichloroethane		ND		4600	11000
1,1-Dichloroethane		ND		4600	11000
1,1-Dichloroethene		ND		4600	11000
1,1-Dichloropropene		ND		4600	11000
1,2,3-Trichlorobenzene		ND		4600	11000
1,2,3-Trichloropropane		ND		6700	11000
1,2,4-Trichlorobenzene		ND		4600	11000
1,2,4-Trimethylbenzene		ND		4600	11000
1,2-Dibromo-3-Chloropropane		ND		8200	110000
Ethylene Dibromide		ND		4600	11000
1,2-Dichlorobenzene		ND		4600	11000
1,2-Dichloroethane		ND		4600	11000
Acetone		ND J	*	82000	1100000
1,2-Dichloropropane		ND		4600	11000
1,3,5-Trimethylbenzene		ND		4600	11000
1,3-Dichlorobenzene		ND		4600	11000
1,3-Dichloropropane		ND		4600	11000
1,4-Dichlorobenzene		ND		4600	11000
1,4-Dioxane		ND J		150000	1100000
2,2-Dichloropropane		ND		4600	11000
2,4,4-Trimethyl-1-pentene		1200000 J		4600	23000
2,4,4-Trimethyl-2-pentene		310000		4600	23000
2-Chlorotoluene		ND		4600	11000
2-Hexanone		ND		23000	110000
4-Chlorotoluene		ND		4600	11000
Benzene		ND		4600	11000
Bromobenzene		ND		4600	11000
Chlorobromomethane		ND		4600	11000
Dichlorobromomethane		ND		4600	11000
Bromoform		ND		4600	11000
Bromomethane		ND		4600	23000
n-Butylbenzene		ND		4600	11000
Carbon disulfide		ND		4600	11000
Carbon tetrachloride		ND		4600	11000
Chlorobenzene		ND		4600	11000
Chloroethane		ND		4600	23000
Chloroform		ND		4600	11000
Chloromethane		ND		4600	23000
cis-1,2-Dichloroethene		ND		4600	11000
cis-1,3-Dichloropropene		ND		4600	11000
Cyclohexane		ND		12000	110000
Chlorodibromomethane		ND		4600	11000

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: **OC-SB-405-8.0/9.0-XXX**

Lab Sample ID: 360-24173-3
Client Matrix: Solid % Moisture: 7.3

Date Sampled: 08/18/2009 0845
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48140		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48139		Lab File ID:	V44463.D
Dilution:	100			Initial Weight/Volume:	11.82 g
Date Analyzed:	08/25/2009 1820			Final Weight/Volume:	10 g
Date Prepared:	08/20/2009 1455				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		4600	11000
Dichlorodifluoromethane		ND J		4600	23000
Ethyl ether		ND		4600	11000
Isopropyl ether		ND		4600	11000
Tert-butyl ethyl ether		ND		11000	11000
Ethylbenzene		ND		4600	11000
Hexachlorobutadiene		ND		4600	11000
Isopropylbenzene		ND		4600	11000
Methyl acetate		ND		74000	230000
2-Butanone (MEK)		ND		31000	110000
4-Methyl-2-pentanone (MIBK)		ND		24000	110000
Methyl tert-butyl ether		ND		4600	11000
Methylcyclohexane		ND		4600	11000
Methylene Chloride		ND		22000	46000
m-Xylene & p-Xylene		ND		4600	23000
Naphthalene		ND		4600	110000
N-Propylbenzene		ND		4600	11000
o-Xylene		ND		4600	11000
4-Isopropyltoluene		ND		4600	11000
sec-Butylbenzene		ND		4600	11000
Styrene		ND		4600	11000
Tert-amyl methyl ether		ND		4600	11000
tert-Butylbenzene		ND		4600	11000
Tetrachloroethene		ND		4600	11000
Tetrahydrofuran		ND		25000	110000
Toluene		ND		4600	11000
trans-1,2-Dichloroethene		ND		4600	11000
trans-1,3-Dichloropropene		ND		4600	11000
Trichloroethene		ND		4600	11000
Trichlorofluoromethane		ND		4600	23000
Vinyl chloride		ND		4600	11000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-405-8.0/9.0-XXX

Lab Sample ID: 360-24173-3
Client Matrix: Solid

% Moisture: 7.3

Date Sampled: 08/18/2009 0845
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48140		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48139		Lab File ID:	V44463.D
Dilution:	100			Initial Weight/Volume:	11.82 g
Date Analyzed:	08/25/2009 1820			Final Weight/Volume:	10 g
Date Prepared:	08/20/2009 1455				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-416-0.0/1.0-XXX

Lab Sample ID: 360-24173-4
Client Matrix: Solid

% Moisture: 3.2

Date Sampled: 08/18/2009 1035
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0825
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44498.D
Initial Weight/Volume: 5.09 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND J	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND J		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

3/18/10 TC

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-416-0.0/1.0-XXX

Lab Sample ID: 360-24173-4
Client Matrix: Solid

% Moisture: 3.2

Date Sampled: 08/18/2009 1035
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0825
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44498.D
Initial Weight/Volume: 5.09 g
Final Weight/Volume: 5 g

Analyte (DryWt Corrected: Y)	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND J	*	1.0	5.1
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		17	51
2-Butanone (MEK)	ND		6.8	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	~~7.0~~ ND	~~J B~~	4.9	10
m-Xylene & p-Xylene	ND		1.0	5.1
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.6	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.1
Vinyl chloride	ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-416-0.0/1.0-XXX

Lab Sample ID: 360-24173-4
Client Matrix: Solid

% Moisture: 3.2

Date Sampled: 08/18/2009 1035
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0825
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44498.D
Initial Weight/Volume: 5.09 g
Final Weight/Volume: 5 g

Tentatively Identified Compounds

Number TIC's Found: 5

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	7.96	12	T J
	Unknown	13.38	84	T J
	Unknown	13.50	7.7	T J
	Unknown	13.65	55	T J
	Unknown	13.78	33	T J

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-416-13/14-XXX

Lab Sample ID: 360-24173-5
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 08/18/2009 1105
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/01/2009 0557
Date Prepared: 08/31/2009 1650

Analysis Batch: 360-48407
Prep Batch: 360-48405

Instrument ID: HP #1 GC/MS
Lab File ID: V44633.D
Initial Weight/Volume: 6.05 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.89	2.2
1,1,1-Trichloroethane		ND		0.89	2.2
1,1,2,2-Tetrachloroethane		ND		0.89	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.89	11
1,1,2-Trichloroethane		ND		0.89	2.2
1,1-Dichloroethane		ND		0.89	2.2
1,1-Dichloroethene		ND		0.89	2.2
1,1-Dichloropropene		ND		0.89	2.2
1,2,3-Trichlorobenzene		ND		0.89	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.89	2.2
1,2,4-Trimethylbenzene		ND		0.89	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.89	2.2
1,2-Dichlorobenzene		ND		0.89	2.2
1,2-Dichloroethane		ND		0.89	2.2
Acetone		ND	J	16	220
1,2-Dichloropropane		ND		0.89	2.2
1,3,5-Trimethylbenzene		ND		0.89	2.2
1,3-Dichlorobenzene		ND		0.89	2.2
1,3-Dichloropropane		ND		0.89	2.2
1,4-Dichlorobenzene		ND		0.89	2.2
1,4-Dioxane		ND	J	29	220
2,2-Dichloropropane		ND		0.89	2.2
2,4,4-Trimethyl-1-pentene		37	J	0.89	4.4
2,4,4-Trimethyl-2-pentene		10		0.89	4.4
2-Chlorotoluene		ND		0.89	2.2
2-Hexanone		ND		4.6	22
4-Chlorotoluene		ND		0.89	2.2
Benzene		ND		0.89	2.2
Bromobenzene		ND		0.89	2.2
Chlorobromomethane		ND		0.89	2.2
Dichlorobromomethane		ND		0.89	2.2
Bromoform		ND		0.89	2.2
Bromomethane		ND		0.89	4.4
n-Butylbenzene		ND		0.89	2.2
Carbon disulfide		4.4		0.89	2.2
Carbon tetrachloride		ND		0.89	2.2
Chlorobenzene		ND		0.89	2.2
Chloroethane		ND		0.89	4.4
Chloroform		ND		0.89	2.2
Chloromethane		ND		0.89	4.4
cis-1,2-Dichloroethene		ND		0.89	2.2
cis-1,3-Dichloropropene		ND		0.89	2.2
Cyclohexane		ND		2.3	22
Chlorodibromomethane		ND		0.89	2.2

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-416-13/14-XXX

Lab Sample ID: 360-24173-5
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 08/18/2009 1105
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/01/2009 0557
Date Prepared: 08/31/2009 1650

Analysis Batch: 360-48407
Prep Batch: 360-48405

Instrument ID: HP #1 GC/MS
Lab File ID: V44633.D
Initial Weight/Volume: 6.05 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.89	2.2
Dichlorodifluoromethane		ND J	*	0.89	4.4
Ethyl ether		ND		0.89	2.2
Isopropyl ether		ND		0.89	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.89	2.2
Hexachlorobutadiene		ND		0.89	2.2
Isopropylbenzene		ND		0.89	2.2
Methyl acetate		ND		14	44
2-Butanone (MEK)		ND		6.0	22
4-Methyl-2-pentanone (MIBK)		ND		4.6	22
Methyl tert-butyl ether		ND		0.89	2.2
Methylcyclohexane		ND		0.89	2.2
Methylene Chloride		ND		4.3	8.9
m-Xylene & p-Xylene		ND		0.89	4.4
Naphthalene		ND		0.89	22
N-Propylbenzene		ND		0.89	2.2
o-Xylene		ND		0.89	2.2
4-Isopropyltoluene		ND		0.89	2.2
sec-Butylbenzene		ND		0.89	2.2
Styrene		ND		0.89	2.2
Tert-amyl methyl ether		ND		0.89	2.2
tert-Butylbenzene		ND		0.89	2.2
Tetrachloroethene		ND		0.89	2.2
Tetrahydrofuran		ND		4.9	22
Toluene		ND		0.89	2.2
trans-1,2-Dichloroethene		ND		0.89	2.2
trans-1,3-Dichloropropene		ND		0.89	2.2
Trichloroethene		ND		0.89	2.2
Trichlorofluoromethane		ND		0.89	4.4
Vinyl chloride		ND		0.89	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-416-13/14-XXX

Lab Sample ID: 360-24173-5
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 08/18/2009 1105
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/01/2009 0557
Date Prepared: 08/31/2009 1650

Analysis Batch: 360-48407
Prep Batch: 360-48405

Instrument ID: HP #1 GC/MS
Lab File ID: V44633.D
Initial Weight/Volume: 6.05 g
Final Weight/Volume: 5 g

Tentatively Identified Compounds

Number TIC's Found: 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
~~Unknown~~		~~5.82~~	~~18~~	~~T J~~
590-50-1	2-Pentanone, 4,4-dimethyl-	7.94	11	T J N
	Unknown	8.66	4.6	T J

TC

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-416-8.0/9.0-XXX

Lab Sample ID: 360-24173-6
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 08/18/2009 1045
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/20/2009 1924
Date Prepared: 08/20/2009 1458

Analysis Batch: 360-47995
Prep Batch: 360-47992

Instrument ID: HP #1 GC/MS
Lab File ID: V44376.D
Initial Weight/Volume: 12.66 g
Final Weight/Volume: 10 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		42	110
1,1,1-Trichloroethane		ND		42	110
1,1,2,2-Tetrachloroethane		ND	J	42	110
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		42	530
1,1,2-Trichloroethane		ND		42	110
1,1-Dichloroethane		ND		42	110
1,1-Dichloroethene		ND		42	110
1,1-Dichloropropene		ND		42	110
1,2,3-Trichlorobenzene		ND		42	110
1,2,3-Trichloropropane		ND		62	110
1,2,4-Trichlorobenzene		ND		42	110
1,2,4-Trimethylbenzene		ND		42	110
1,2-Dibromo-3-Chloropropane		ND		76	1100
Ethylene Dibromide		ND		42	110
1,2-Dichlorobenzene		ND		42	110
1,2-Dichloroethane		ND		42	110
Acetone		ND	J *	760	11000
1,2-Dichloropropane		ND		42	110
1,3,5-Trimethylbenzene		ND		42	110
1,3-Dichlorobenzene		ND		42	110
1,3-Dichloropropane		ND		42	110
1,4-Dichlorobenzene		ND		42	110
1,4-Dioxane		ND	J	1400	11000
2,2-Dichloropropane		ND		42	110
2-Chlorotoluene		ND		42	110
2-Hexanone		ND		220	1100
4-Chlorotoluene		ND		42	110
Benzene		ND		42	110
Bromobenzene		ND	J	42	110
Chlorobromomethane		ND		42	110
Dichlorobromomethane		ND		42	110
Bromoform		ND		42	110
Bromomethane		ND		42	210
n-Butylbenzene		ND		42	110
Carbon disulfide		ND		42	110
Carbon tetrachloride		ND		42	110
Chlorobenzene		ND		42	110
Chloroethane		ND	J *	42	210
Chloroform		ND		42	110
Chloromethane		ND		42	210
cis-1,2-Dichloroethene		ND		42	110
cis-1,3-Dichloropropene		ND		42	110
Cyclohexane		ND		110	1100
Chlorodibromomethane		ND	J	42	110
Dibromomethane		ND		42	110
Dichlorodifluoromethane		ND	J *	42	210

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-416-8.0/9.0-XXX

Lab Sample ID: 360-24173-6
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 08/18/2009 1045
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/20/2009 1924
Date Prepared: 08/20/2009 1458

Analysis Batch: 360-47995
Prep Batch: 360-47992

Instrument ID: HP #1 GC/MS
Lab File ID: V44376.D
Initial Weight/Volume: 12.66 g
Final Weight/Volume: 10 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Ethyl ether		ND		42	110
Isopropyl ether		ND		42	110
Tert-butyl ethyl ether		ND		110	110
Ethylbenzene		ND		42	110
Hexachlorobutadiene		ND		42	110
Isopropylbenzene		ND		42	110
Methyl acetate		ND		690	2100
2-Butanone (MEK)		ND		280	1100
4-Methyl-2-pentanone (MIBK)		ND		220	1100
Methyl tert-butyl ether		ND		42	110
Methylcyclohexane		ND		42	110
Methylene Chloride		ND		200	420
m-Xylene & p-Xylene		ND		42	210
Naphthalene		ND		42	1100
N-Propylbenzene		ND		42	110
o-Xylene		ND		42	110
4-Isopropyltoluene		ND		42	110
sec-Butylbenzene		ND		42	110
Styrene		ND		42	110
Tert-amyl methyl ether		ND		42	110
tert-Butylbenzene		ND		42	110
Tetrachloroethene		ND		42	110
Tetrahydrofuran		ND		230	1100
Toluene		ND		42	110
trans-1,2-Dichloroethene		ND		42	110
trans-1,3-Dichloropropene		ND		42	110
Trichloroethene		ND		42	110
Trichlorofluoromethane		ND		42	210
Vinyl chloride		ND		42	110

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		70 - 130
Dibromofluoromethane	120		70 - 130
Toluene-d8 (Surr)	121		70 - 130

TC
3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-416-8.0/9.0-XXX

Lab Sample ID: 360-24173-6
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 08/18/2009 1045
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-47995	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-47992	Lab File ID: V44376.D
Dilution:	1.0		Initial Weight/Volume: 12.66 g
Date Analyzed:	08/20/2009 1924		Final Weight/Volume: 10 g
Date Prepared:	08/20/2009 1458		

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	6.55	270	T J
565-77-5	2-Pentene, 2,3,4-trimethyl-	6.84	650	T J N

3/16/10 TC

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-416-8.0/9.0-XXX

Lab Sample ID: 360-24173-6
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 08/18/2009 1045
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 25
Date Analyzed: 08/25/2009 1844
Date Prepared: 08/20/2009 1455

Analysis Batch: 360-48140
Prep Batch: 360-48139

Instrument ID: HP #1 GC/MS
Lab File ID: V44464.D
Initial Weight/Volume: 12.66 g
Final Weight/Volume: 10 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,4-Trimethyl-1-pentene		140000	J	1100	5300
2,4,4-Trimethyl-2-pentene		36000		1100	5300

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TC
3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-416-8.0/9.0-XXX

Lab Sample ID: 360-24173-6
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 08/18/2009 1045
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48140		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48139		Lab File ID:	V44464.D
Dilution:	25			Initial Weight/Volume:	12.66 g
Date Analyzed:	08/25/2009 1844			Final Weight/Volume:	10 g
Date Prepared:	08/20/2009 1455				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	6.83	7300	T J

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-TBK-001

Lab Sample ID: 360-24173-7TB
Client Matrix: Solid

Date Sampled: 08/18/2009 1500
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0849
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44499.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-TBK-001

Lab Sample ID: 360-24173-7TB
Client Matrix: Solid

Date Sampled: 08/18/2009 1500
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44499.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	08/26/2009 0849			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		6.6	J	5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC
3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-TBK-001

Lab Sample ID: 360-24173-7TB
Client Matrix: Solid

Date Sampled: 08/18/2009 1500
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44499.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	08/26/2009 0849			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-EBK-001
Lab Sample ID: 360-24173-8
Client Matrix: Water

Date Sampled: 08/18/2009 0830
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 08/26/2009 1934
Date Prepared: 08/26/2009 1934

Analysis Batch: 360-48228

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06429.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND	*	0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND	*	0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	0.70	J	0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

TC
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Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-EBK-001
Lab Sample ID: 360-24173-8
Client Matrix: Water

Date Sampled: 08/18/2009 0830
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 08/26/2009 1934
Date Prepared: 08/26/2009 1934

Analysis Batch: 360-48228

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06429.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND		0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	88		70 - 130
Dibromofluoromethane	118		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: **OC-EBK-001**

Lab Sample ID: 360-24173-8
Client Matrix: Water

Date Sampled: 08/18/2009 0830
Date Received: 08/18/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48228		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06429.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	08/26/2009 1934			Final Weight/Volume:	5 mL
Date Prepared:	08/26/2009 1934				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	11.73	5.1	T J

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: **OC-SB-412-0.0/1.0-XXX**

Lab Sample ID: 360-24173-9
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 08/18/2009 1245
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0913
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44500.D
Initial Weight/Volume: 4.80 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

TC
3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-412-0.0/1.0-XXX

Lab Sample ID: 360-24173-9
Client Matrix: Solid

% Moisture: 3.3

Date Sampled: 08/18/2009 1245
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44500.D
Dilution:	1.0			Initial Weight/Volume:	4.80 g
Date Analyzed:	08/26/2009 0913			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		18	54
2-Butanone (MEK)		ND		7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-412-0.0/1.0-XXX

Lab Sample ID: 360-24173-9
Client Matrix: Solid

% Moisture: 3.3

Date Sampled: 08/18/2009 1245
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44500.D
Dilution:	1.0			Initial Weight/Volume:	4.80 g
Date Analyzed:	08/26/2009 0913			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

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Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-412-6.0/7.0-XXX

Lab Sample ID: 360-24173-11
Client Matrix: Solid

% Moisture: 13.5

Date Sampled: 08/18/2009 1255
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0249
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44484.D
Initial Weight/Volume: 5.62 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.8	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND J	*	18	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND J		34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: **OC-SB-412-6.0/7.0-XXX**

Lab Sample ID: 360-24173-11
Client Matrix: Solid

% Moisture: 13.5

Date Sampled: 08/18/2009 1255
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0249
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44484.D
Initial Weight/Volume: 5.62 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.1
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	51
2-Butanone (MEK)		ND		6.9	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-412-6.0/7.0-XXX

Lab Sample ID: 360-24173-11
Client Matrix: Solid

% Moisture: 13.5

Date Sampled: 08/18/2009 1255
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44484.D
Dilution:	1.0			Initial Weight/Volume:	5.62 g
Date Analyzed:	08/26/2009 0249			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.69	2.5	T J

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-420-0.0/1.0-XXX

Lab Sample ID: 360-24173-12
Client Matrix: Solid

% Moisture: 3.7

Date Sampled: 08/18/2009 1555
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/20/2009 2101
Date Prepared: 08/20/2009 1458

Analysis Batch: 360-47995
Prep Batch: 360-47992

Instrument ID: HP #1 GC/MS
Lab File ID: V44380.D
Initial Weight/Volume: 9.05 g
Final Weight/Volume: 10 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		57	140
1,1,1-Trichloroethane		ND		57	140
1,1,2,2-Tetrachloroethane		ND J		57	140
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		57	720
1,1,2-Trichloroethane		ND		57	140
1,1-Dichloroethane		ND		57	140
1,1-Dichloroethene		ND		57	140
1,1-Dichloropropene		ND		57	140
1,2,3-Trichlorobenzene		ND		57	140
1,2,3-Trichloropropane		ND		85	140
1,2,4-Trichlorobenzene		ND		57	140
1,2,4-Trimethylbenzene		ND		57	140
1,2-Dibromo-3-Chloropropane		ND		100	1400
Ethylene Dibromide		ND		57	140
1,2-Dichlorobenzene		73	J	57	140
1,2-Dichloroethane		ND		57	140
Acetone		ND J	*	1000	14000
1,2-Dichloropropane		ND		57	140
1,3,5-Trimethylbenzene		ND		57	140
1,3-Dichlorobenzene		ND		57	140
1,3-Dichloropropane		ND		57	140
1,4-Dichlorobenzene		ND		57	140
1,4-Dioxane		ND J		1900	14000
2,2-Dichloropropane		ND		57	140
2,4,4-Trimethyl-1-pentene		2100		57	290
2,4,4-Trimethyl-2-pentene		540		57	290
2-Chlorotoluene		ND		57	140
2-Hexanone		ND		290	1400
4-Chlorotoluene		ND		57	140
Benzene		ND		57	140
Bromobenzene		ND J		57	140
Chlorobromomethane		ND		57	140
Dichlorobromomethane		ND		57	140
Bromoform		ND		57	140
Bromomethane		ND		57	290
n-Butylbenzene		ND		57	140
Carbon disulfide		ND		57	140
Carbon tetrachloride		ND		57	140
Chlorobenzene		ND		57	140
Chloroethane		ND J	*	57	290
Chloroform		ND		57	140
Chloromethane		ND		57	290
cis-1,2-Dichloroethene		ND		57	140
cis-1,3-Dichloropropene		ND		57	140
Cyclohexane		ND		150	1400
Chlorodibromomethane		ND J		57	140

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-420-0.0/1.0-XXX

Lab Sample ID: 360-24173-12
Client Matrix: Solid

% Moisture: 3.7

Date Sampled: 08/18/2009 1555
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/20/2009 2101
Date Prepared: 08/20/2009 1458

Analysis Batch: 360-47995
Prep Batch: 360-47992

Instrument ID: HP #1 GC/MS
Lab File ID: V44380.D
Initial Weight/Volume: 9.05 g
Final Weight/Volume: 10 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		57	140
Dichlorodifluoromethane		ND J	*	57	290
Ethyl ether		ND		57	140
Isopropyl ether		ND		57	140
Tert-butyl ethyl ether		ND		140	140
Ethylbenzene		ND		57	140
Hexachlorobutadiene		ND		57	140
Isopropylbenzene		ND		57	140
Methyl acetate		ND		930	2900
2-Butanone (MEK)		ND		390	1400
4-Methyl-2-pentanone (MIBK)		ND		300	1400
Methyl tert-butyl ether		ND		57	140
Methylcyclohexane		ND		57	140
Methylene Chloride		ND		280	570
m-Xylene & p-Xylene		ND		57	290
Naphthalene		160	J	57	1400
N-Propylbenzene		ND		57	140
o-Xylene		ND		57	140
4-Isopropyltoluene		ND		57	140
sec-Butylbenzene		ND		57	140
Styrene		310		57	140
Tert-amyl methyl ether		ND		57	140
tert-Butylbenzene		ND		57	140
Tetrachloroethene		ND		57	140
Tetrahydrofuran		ND		320	1400
Toluene		ND		57	140
trans-1,2-Dichloroethene		ND		57	140
trans-1,3-Dichloropropene		ND		57	140
Trichloroethene		ND		57	140
Trichlorofluoromethane		ND		57	290
Vinyl chloride		ND		57	140

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	118		70 - 130
Toluene-d8 (Surr)	109		70 - 130

TC
3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: **OC-SB-420-0.0/1.0-XXX**

Lab Sample ID: 360-24173-12
Client Matrix: Solid % Moisture: 3.7

Date Sampled: 08/18/2009 1555
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-47995		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-47992		Lab File ID:	V44380.D
Dilution:	1.0			Initial Weight/Volume:	9.05 g
Date Analyzed:	08/20/2009 2101			Final Weight/Volume:	10 g
Date Prepared:	08/20/2009 1458				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
1000139-90-4	1-Butoxy-2-ethylhexane	11.44	1100	T J N

TC 3/18/10

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-420-12/14-XXX

Lab Sample ID: 360-24173-13
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 08/18/2009 1625
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/28/2009 2025
Date Prepared: 08/28/2009 1511

Analysis Batch: 360-48343
Prep Batch: 360-48340

Instrument ID: HP #1 GC/MS
Lab File ID: V44561.D
Initial Weight/Volume: 13.37 g
Final Weight/Volume: 10 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		40	100
1,1,1-Trichloroethane		ND		40	100
1,1,2,2-Tetrachloroethane		ND		40	100
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		40	500
1,1,2-Trichloroethane		ND		40	100
1,1-Dichloroethane		ND		40	100
1,1-Dichloroethene		ND		40	100
1,1-Dichloropropene		ND		40	100
1,2,3-Trichlorobenzene		ND		40	100
1,2,3-Trichloropropane		ND		59	100
1,2,4-Trichlorobenzene		ND		40	100
1,2,4-Trimethylbenzene		ND		40	100
1,2-Dibromo-3-Chloropropane		ND		72	1000
Ethylene Dibromide		ND		40	100
1,2-Dichlorobenzene		ND		40	100
1,2-Dichloroethane		ND		40	100
Acetone		ND J	*	720	10000
1,2-Dichloropropane		ND		40	100
1,3,5-Trimethylbenzene		ND		40	100
1,3-Dichlorobenzene		ND		40	100
1,3-Dichloropropane		ND		40	100
1,4-Dichlorobenzene		ND		40	100
1,4-Dioxane		ND J		1300	10000
2,2-Dichloropropane		ND		40	100
2,4,4-Trimethyl-1-pentene		ND		40	200
2,4,4-Trimethyl-2-pentene		44	J	40	200
2-Chlorotoluene		ND		40	100
2-Hexanone		ND		210	1000
4-Chlorotoluene		ND		40	100
Benzene		ND		40	100
Bromobenzene		ND		40	100
Chlorobromomethane		ND		40	100
Dichlorobromomethane		ND		40	100
Bromoform		ND		40	100
Bromomethane		ND		40	200
n-Butylbenzene		ND		40	100
Carbon disulfide		520		40	100
Carbon tetrachloride		ND		40	100
Chlorobenzene		ND		40	100
Chloroethane		ND		40	200
Chloroform		ND		40	100
Chloromethane		ND		40	200
cis-1,2-Dichloroethene		ND		40	100
cis-1,3-Dichloropropene		ND		40	100
Cyclohexane		ND		100	1000
Chlorodibromomethane		ND		40	100

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-420-12/14-XXX

Lab Sample ID: 360-24173-13
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 08/18/2009 1625
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/28/2009 2025
Date Prepared: 08/28/2009 1511

Analysis Batch: 360-48343
Prep Batch: 360-48340

Instrument ID: HP #1 GC/MS
Lab File ID: V44561.D
Initial Weight/Volume: 13.37 g
Final Weight/Volume: 10 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		40	100
Dichlorodifluoromethane		ND J	*	40	200
Ethyl ether		ND		40	100
Isopropyl ether		ND		40	100
Tert-butyl ethyl ether		ND		100	100
Ethylbenzene		ND		40	100
Hexachlorobutadiene		ND		40	100
Isopropylbenzene		ND		40	100
Methyl acetate		ND		650	2000
2-Butanone (MEK)		ND		270	1000
4-Methyl-2-pentanone (MIBK)		ND		210	1000
Methyl tert-butyl ether		ND		40	100
Methylcyclohexane		ND		40	100
Methylene Chloride		ND		190	400
m-Xylene & p-Xylene		ND		40	200
Naphthalene		ND		40	1000
N-Propylbenzene		ND		40	100
o-Xylene		ND		40	100
4-Isopropyltoluene		ND		40	100
sec-Butylbenzene		ND		40	100
Styrene		ND		40	100
Tert-amyl methyl ether		ND		40	100
tert-Butylbenzene		ND		40	100
Tetrachloroethene		ND		40	100
Tetrahydrofuran		ND		220	1000
Toluene		ND		40	100
trans-1,2-Dichloroethene		ND		40	100
trans-1,3-Dichloropropene		ND		40	100
Trichloroethene		ND		40	100
Trichlorofluoromethane		ND		40	200
Vinyl chloride		ND		40	100

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-420-12/14-XXX

Lab Sample ID: 360-24173-13
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 08/18/2009 1625
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/28/2009 2025
Date Prepared: 08/28/2009 1511

Analysis Batch: 360-48343
Prep Batch: 360-48340

Instrument ID: HP #1 GC/MS
Lab File ID: V44561.D
Initial Weight/Volume: 13.37 g
Final Weight/Volume: 10 g

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-420-6.5/8.5-XXX

Lab Sample ID: 360-24173-14
Client Matrix: Solid

% Moisture: 7.7

Date Sampled: 08/18/2009 1610
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 25
Date Analyzed: 08/25/2009 1908
Date Prepared: 08/20/2009 1455

Analysis Batch: 360-48140
Prep Batch: 360-48139

Instrument ID: HP #1 GC/MS
Lab File ID: V44465.D
Initial Weight/Volume: 12.16 g
Final Weight/Volume: 10 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1100	2800
1,1,1-Trichloroethane		ND		1100	2800
1,1,2,2-Tetrachloroethane		ND		1100	2800
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1100	14000
1,1,2-Trichloroethane		ND		1100	2800
1,1-Dichloroethane		ND		1100	2800
1,1-Dichloroethene		ND		1100	2800
1,1-Dichloropropene		ND		1100	2800
1,2,3-Trichlorobenzene		ND		1100	2800
1,2,3-Trichloropropane		ND		1600	2800
1,2,4-Trichlorobenzene		ND		1100	2800
1,2,4-Trimethylbenzene		ND		1100	2800
1,2-Dibromo-3-Chloropropane		ND		2000	28000
Ethylene Dibromide		ND		1100	2800
1,2-Dichlorobenzene		ND		1100	2800
1,2-Dichloroethane		ND		1100	2800
Acetone		ND J		20000	280000
1,2-Dichloropropane		ND		1100	2800
1,3,5-Trimethylbenzene		ND		1100	2800
1,3-Dichlorobenzene		ND		1100	2800
1,3-Dichloropropane		ND		1100	2800
1,4-Dichlorobenzene		ND		1100	2800
1,4-Dioxane		ND J		37000	280000
2,2-Dichloropropane		ND		1100	2800
2,4,4-Trimethyl-1-pentene		240000 J		1100	5600
2,4,4-Trimethyl-2-pentene		75000		1100	5600
2-Chlorotoluene		ND		1100	2800
2-Hexanone		ND		5700	28000
4-Chlorotoluene		ND		1100	2800
Benzene		ND		1100	2800
Bromobenzene		ND		1100	2800
Chlorobromomethane		ND		1100	2800
Dichlorobromomethane		ND		1100	2800
Bromoform		ND		1100	2800
Bromomethane		ND		1100	5600
n-Butylbenzene		ND		1100	2800
Carbon disulfide		ND		1100	2800
Carbon tetrachloride		ND		1100	2800
Chlorobenzene		ND		1100	2800
Chloroethane		ND		1100	5600
Chloroform		ND		1100	2800
Chloromethane		ND		1100	5600
cis-1,2-Dichloroethene		ND		1100	2800
cis-1,3-Dichloropropene		ND		1100	2800
Cyclohexane		ND		2900	28000
Chlorodibromomethane		ND		1100	2800

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-420-6.5/8.5-XXX

Lab Sample ID: 360-24173-14
Client Matrix: Solid

% Moisture: 7.7

Date Sampled: 08/18/2009 1610
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 25
Date Analyzed: 08/25/2009 1908
Date Prepared: 08/20/2009 1455

Analysis Batch: 360-48140
Prep Batch: 360-48139

Instrument ID: HP #1 GC/MS
Lab File ID: V44465.D
Initial Weight/Volume: 12.16 g
Final Weight/Volume: 10 g

Analyte (DryWt Corrected: Y)	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane	ND		1100	2800
Dichlorodifluoromethane	ND J		1100	5600
Ethyl ether	ND		1100	2800
Isopropyl ether	ND		1100	2800
Tert-butyl ethyl ether	ND		2800	2800
Ethylbenzene	ND		1100	2800
Hexachlorobutadiene	ND		1100	2800
Isopropylbenzene	ND		1100	2800
Methyl acetate	ND		18000	56000
2-Butanone (MEK)	ND		7500	28000
4-Methyl-2-pentanone (MIBK)	ND		5700	28000
Methyl tert-butyl ether	ND		1100	2800
Methylcyclohexane	ND		1100	2800
Methylene Chloride	ND		5400	11000
m-Xylene & p-Xylene	ND		1100	5600
Naphthalene	ND		1100	28000
N-Propylbenzene	ND		1100	2800
o-Xylene	ND		1100	2800
4-Isopropyltoluene	ND		1100	2800
sec-Butylbenzene	ND		1100	2800
Styrene	ND		1100	2800
Tert-amyl methyl ether	ND		1100	2800
tert-Butylbenzene	ND		1100	2800
Tetrachloroethene	ND		1100	2800
Tetrahydrofuran	ND		6100	28000
Toluene	ND		1100	2800
trans-1,2-Dichloroethene	ND		1100	2800
trans-1,3-Dichloropropene	ND		1100	2800
Trichloroethene	ND		1100	2800
Trichlorofluoromethane	ND		1100	5600
Vinyl chloride	ND		1100	2800

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-420-6.5/8.5-XXX

Lab Sample ID: 360-24173-14
Client Matrix: Solid

% Moisture: 7.7

Date Sampled: 08/18/2009 1610
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48140		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48139		Lab File ID:	V44465.D
Dilution:	25			Initial Weight/Volume:	12.16 g
Date Analyzed:	08/25/2009 1908			Final Weight/Volume:	10 g
Date Prepared:	08/20/2009 1455				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
66-25-1	Hexanal	5.43	200000	T J N

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-423-0.0/1.0-XXX

Lab Sample ID: 360-24173-15
Client Matrix: Solid

% Moisture: 4.9

Date Sampled: 08/18/2009 1420
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0937
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44501.D
Initial Weight/Volume: 5.08 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND J	*	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND J		34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: **OC-SB-423-0.0/1.0-XXX**

Lab Sample ID: 360-24173-15
Client Matrix: Solid

% Moisture: 4.9

Date Sampled: 08/18/2009 1420
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0937
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44501.D
Initial Weight/Volume: 5.08 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	52
2-Butanone (MEK)		ND		7.0	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-423-0.0/1.0-XXX

Lab Sample ID: 360-24173-15
Client Matrix: Solid

% Moisture: 4.9

Date Sampled: 08/18/2009 1420
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44501.D
Dilution:	1.0			Initial Weight/Volume:	5.08 g
Date Analyzed:	08/26/2009 0937			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 4

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	13.38	54	T J
	Unknown	13.50	4.5	T J
	Unknown	13.65	40	T J
	Unknown	13.78	23	T J

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-423-5.0/6.0-XXX

Lab Sample ID: 360-24173-17
Client Matrix: Solid

% Moisture: 6.6

Date Sampled: 08/18/2009 1430
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0313
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44485.D
Initial Weight/Volume: 5.83 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.92	2.3
1,1,1-Trichloroethane		ND		0.92	2.3
1,1,2,2-Tetrachloroethane		ND		0.92	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.92	11
1,1,2-Trichloroethane		ND		0.92	2.3
1,1-Dichloroethane		ND		0.92	2.3
1,1-Dichloroethene		ND		0.92	2.3
1,1-Dichloropropene		ND		0.92	2.3
1,2,3-Trichlorobenzene		ND		0.92	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.92	2.3
1,2,4-Trimethylbenzene		ND		0.92	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.92	2.3
1,2-Dichlorobenzene		ND		0.92	2.3
1,2-Dichloroethane		ND		0.92	2.3
Acetone		ND J	*	16	230
1,2-Dichloropropane		ND		0.92	2.3
1,3,5-Trimethylbenzene		ND		0.92	2.3
1,3-Dichlorobenzene		ND		0.92	2.3
1,3-Dichloropropane		ND		0.92	2.3
1,4-Dichlorobenzene		ND		0.92	2.3
1,4-Dioxane		ND J		30	230
2,2-Dichloropropane		ND		0.92	2.3
2,4,4-Trimethyl-1-pentene		ND		0.92	4.6
2,4,4-Trimethyl-2-pentene		ND		0.92	4.6
2-Chlorotoluene		ND		0.92	2.3
2-Hexanone		ND		4.7	23
4-Chlorotoluene		ND		0.92	2.3
Benzene		ND		0.92	2.3
Bromobenzene		ND		0.92	2.3
Chlorobromomethane		ND		0.92	2.3
Dichlorobromomethane		ND		0.92	2.3
Bromoform		ND		0.92	2.3
Bromomethane		ND		0.92	4.6
n-Butylbenzene		ND		0.92	2.3
Carbon disulfide		2.3	J	0.92	2.3
Carbon tetrachloride		ND		0.92	2.3
Chlorobenzene		ND		0.92	2.3
Chloroethane		ND		0.92	4.6
Chloroform		ND		0.92	2.3
Chloromethane		ND		0.92	4.6
cis-1,2-Dichloroethene		ND		0.92	2.3
cis-1,3-Dichloropropene		ND		0.92	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.92	2.3

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-423-5.0/6.0-XXX

Lab Sample ID: 360-24173-17
Client Matrix: Solid

% Moisture: 6.6

Date Sampled: 08/18/2009 1430
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0313
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44485.D
Initial Weight/Volume: 5.83 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.92	2.3
Dichlorodifluoromethane		ND	J *	0.92	4.6
Ethyl ether		ND		0.92	2.3
Isopropyl ether		ND		0.92	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.92	2.3
Hexachlorobutadiene		ND		0.92	2.3
Isopropylbenzene		ND		0.92	2.3
Methyl acetate		ND		15	46
2-Butanone (MEK)		ND		6.2	23
4-Methyl-2-pentanone (MIBK)		ND		4.7	23
Methyl tert-butyl ether		ND		0.92	2.3
Methylcyclohexane		ND		0.92	2.3
Methylene Chloride		ND		4.4	9.2
m-Xylene & p-Xylene		ND		0.92	4.6
Naphthalene		ND		0.92	23
N-Propylbenzene		ND		0.92	2.3
o-Xylene		ND		0.92	2.3
4-Isopropyltoluene		ND		0.92	2.3
sec-Butylbenzene		ND		0.92	2.3
Styrene		ND		0.92	2.3
Tert-amyl methyl ether		ND		0.92	2.3
tert-Butylbenzene		ND		0.92	2.3
Tetrachloroethene		ND		0.92	2.3
Tetrahydrofuran		ND		5.0	23
Toluene		ND		0.92	2.3
trans-1,2-Dichloroethene		ND		0.92	2.3
trans-1,3-Dichloropropene		ND		0.92	2.3
Trichloroethene		ND		0.92	2.3
Trichlorofluoromethane		ND		0.92	4.6
Vinyl chloride		ND		0.92	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Olin Corporation

Job Number: 360-24173-1
Sdg Number: OCRI-01

Client Sample ID: OC-SB-423-5.0/6.0-XXX

Lab Sample ID: 360-24173-17
Client Matrix: Solid

% Moisture: 6.6

Date Sampled: 08/18/2009 1430
Date Received: 08/19/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0313
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44485.D
Initial Weight/Volume: 5.83 g
Final Weight/Volume: 5 g

Tentatively Identified Compounds

Number TIC's Found: 5

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	13.37	260	T J
	Unknown	13.50	20	T J
	Unknown	13.65	200	T J
	Unknown	13.77	120	T J
	Unknown	15.71	7.1	T J

Sample Cal check

Report Date: 26-Aug-2009 10:04:59 Chrom Revision: 1.0.2009.729

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44497.D
Lims ID: 360-24173-C-1-A
Client ID: OC-SB-405-0.0/1.0-XXX
Inject. Date: 26-Aug-2009 08:01:30
Dil. Factor: 1.0000
Sample Type: Client Sample
Sample ID: 360-24173-C-1-A
Misc. Info.: 360-0000960-022
Operator: CR
Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000
ALS Bottle#: 44
Lims Batch ID: 48159
Lims Sample ID: 22
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m
Last Update: 26-Aug-2009 10:03:40
Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc
Date: 26-Aug-2009 10:04:59

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.639				1
2 Chloromethane	50		1.820				1
3 Vinyl chloride	62		1.918				1
4 Bromomethane	94		2.275				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.874				1
8 1,1-Dichloroethene	96		3.065				1
10 Carbon disulfide	76		3.081				7
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.143				1
14 Methylene Chloride	84	3.635	3.634	0.001	26969	1.05	
15 Acetone	43		3.691				7
16 trans-1,2-Dichloroethene	61		3.784				1
17 Methyl acetate	43		3.809				1
19 Methyl tert-butyl ether	73		3.892				1
21 Isopropyl ether	45		4.238				1
22 1,1-Dichloroethane	63		4.347				1
24 Tert-butyl ethyl ether	59		4.559				1
26 cis-1,2-Dichloroethene	61		4.817				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.988				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
32 Carbon tetrachloride	117		5.169				1
33 Tetrahydrofuran	42		5.189				
$ 35 Dibromofluoromethane	113	5.211	5.215	-0.004	113214	20.0	
36 1,1,1-Trichloroethane	97		5.231				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
40 Benzene	78	5.547	5.551	-0.004	3594	0.1402	
41 Tert-amyl methyl ether	73		5.644				1

Tier 3 Sample Check

$\frac{1.05\,ug}{L} \times \frac{5000\,mL \times 5\,mL}{5.68\,g \times .942\%\,solid} = 4.906\,ug/kg\ dry$

TC 3/9/10

09/17/2009

OC-SB-405-14/15-XXX

Tier 3 Cal Check

Report Date: 31-Aug-2009 08:45:55 Chrom Revision: 1.0.2009.827

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090828-1.b\V44559.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 42 1,2-Dichloroethane-d4 ISTD	102	5.660	5.662	-0.002	20155	20.0	
43 1,2-Dichloroethane	62		5.719				479
* 44 Fluorobenzene	96	5.887	5.889	-0.002	419172	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.908	5.910	-0.002	51461	10.7	
47 Methylcyclohexane	83		6.013				1
48 Trichloroethene	95		6.019				1
49 2,4,4-Trimethyl-2-pentene	112	6.048	6.050	-0.002	12185	2.89	
50 Dibromomethane	93		6.365				1
51 1,2-Dichloropropane	63		6.447				1
52 Dichlorobromomethane	83		6.494				1
54 1,4-Dioxane	88		6.654				1
57 cis-1,3-Dichloropropene	75		6.990				
$ 58 Toluene-d8 (Surr)	98	7.133	7.135	-0.002	342548	18.3	
59 Toluene	92		7.176				1
60 Tetrachloroethene	164		7.471				1
61 4-Methyl-2-pentanone (MIBK)	43		7.471				1
62 trans-1,3-Dichloropropene	75		7.497				1
64 1,1,2-Trichloroethane	83		7.621				1
65 Chlorodibromomethane	129		7.755				1
66 1,3-Dichloropropane	76		7.832				1
67 Ethylene Dibromide	107		7.946				1
69 2-Hexanone	43		8.111				1
* 70 Chlorobenzene-d5	117	8.332	8.334	-0.002	246502	20.0	
71 Chlorobenzene	112		8.344				1
72 Ethylbenzene	91		8.360				1
73 1,1,1,2-Tetrachloroethane	131		8.391				1
74 m-Xylene & p-Xylene	91		8.473				1
75 o-Xylene	91		8.804				1
76 Styrene	104		8.845				1
77 Bromoform	173		8.871				1
78 Isopropylbenzene	105		9.047				1
$ 80 4-Bromofluorobenzene	95	9.267	9.269	-0.002	132075	21.2	
81 Bromobenzene	77		9.352				1
82 N-Propylbenzene	91		9.367				1
83 1,1,2,2-Tetrachloroethane	83		9.419				1
84 2-Chlorotoluene	91		9.491				79
85 1,3,5-Trimethylbenzene	105		9.512				1
86 1,2,3-Trichloropropane	110		9.533				1
88 4-Chlorotoluene	91		9.621				1
89 tert-Butylbenzene	119		9.765				1
90 1,2,4-Trimethylbenzene	105		9.822				1
91 sec-Butylbenzene	105		9.905				1
92 4-Isopropyltoluene	119		10.018				1
93 1,3-Dichlorobenzene	146		10.086				479
* 94 1,4-Dichlorobenzene-d4	152	10.146	10.142	0.004	145677	20.0	
95 1,4-Dichlorobenzene	146		10.158				479
96 n-Butylbenzene	91		10.360				1
97 1,2-Dichlorobenzene	146		10.515				1
98 1,2-Dibromo-3-Chloropropane	157		11.295				1
100 Hexachlorobutadiene	225		12.044				1
101 1,2,4-Trichlorobenzene	180		12.096				7
102 Naphthalene	128	12.564	12.561	0.003	1173	0.1128	

$0.28 = \frac{51461\ (20)}{419172\ (X)} = 8.769$ concentration from Linear Reg OK ✓

$\frac{10.7\text{ug/L} \times 25\text{mL} \times 10\text{mL}}{1\text{mL} \times 12.77\text{g} \times .913} = 2294\text{ug/kg dry}$ TC

Toluene Detection Limit

$\frac{0.5\text{ug/L} \times 25\text{mL} \times 10\text{mL}}{0.1\text{mL} \times 12.77\text{g} \times .913} = 107\text{ug/kg}$ TC

Chlorobenzene Surrogate calc.

$.5061 = \frac{132075\ (20)}{246502\ (X)} = 21.17$ ✓ TC

09/17/2009

OC-SB-405-8.0/9.0-XXX

Tier 3 Check

Report Date: 26-Aug-2009 08:49:29 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-1.b\V44463.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 42 1,2-Dichloroethane-d4 ISTD	102	5.665	5.670	-0.005	17666	20.0	
43 1,2-Dichloroethane	62		5.727				1
* 44 Fluorobenzene	96	5.892	5.898	-0.006	384547	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.918	5.918	0.000	227025	53.4	
47 Methylcyclohexane	83	5.918	6.022	-0.104	1165	0.1057	
48 Trichloroethene	95		6.032				1
49 2,4,4-Trimethyl-2-pentene	112	6.053	6.058	-0.005	50391	13.5	
50 Dibromomethane	93		6.373				1
51 1,2-Dichloropropane	63		6.456				1
52 Dichlorobromomethane	83		6.497				1
54 1,4-Dioxane	88		6.673				1
57 cis-1,3-Dichloropropene	75		6.998				1
$ 58 Toluene-d8 (Surr)	98	7.143	7.143	0.000	341544	19.9	
59 Toluene	92		7.184				1
60 Tetrachloroethene	164		7.479				1
61 4-Methyl-2-pentanone (MIBK)	43		7.479				1
62 trans-1,3-Dichloropropene	75		7.505				1
64 1,1,2-Trichloroethane	83		7.629				1
65 Chlorodibromomethane	129		7.763				1
66 1,3-Dichloropropane	76		7.841				1
67 Ethylene Dibromide	107		7.954				1
69 2-Hexanone	43		8.120				1
* 70 Chlorobenzene-d5	117	8.337	8.342	-0.005	258637	20.0	
71 Chlorobenzene	112		8.352				1
72 Ethylbenzene	91		8.368				1
73 1,1,1,2-Tetrachloroethane	131		8.399				1
74 m-Xylene & p-Xylene	91		8.476				1
75 o-Xylene	91		8.812				1
76 Styrene	104		8.854				7
77 Bromoform	173		8.874				1
78 Isopropylbenzene	105		9.050				1
$ 80 4-Bromofluorobenzene	95	9.272	9.272	0.000	134950	20.6	
81 Bromobenzene	77		9.360				1
82 N-Propylbenzene	91		9.370				1
83 1,1,2,2-Tetrachloroethane	83		9.422				1
84 2-Chlorotoluene	91		9.500				79
85 1,3,5-Trimethylbenzene	105		9.520				1
86 1,2,3-Trichloropropane	110		9.541				1
88 4-Chlorotoluene	91		9.629				1
89 tert-Butylbenzene	119		9.774				1
90 1,2,4-Trimethylbenzene	105		9.825				1
91 sec-Butylbenzene	105		9.913				1
92 4-Isopropyltoluene	119		10.022				1
93 1,3-Dichlorobenzene	146		10.094				479
* 94 1,4-Dichlorobenzene-d4	152	10.151	10.151	0.000	148305	20.0	
95 1,4-Dichlorobenzene	146		10.161				479
96 n-Butylbenzene	91		10.368				1
97 1,2-Dichlorobenzene	146		10.523				1
98 1,2-Dibromo-3-Chloropropane	157		11.303				1
100 Hexachlorobutadiene	225		12.058				1
101 1,2,4-Trichlorobenzene	180		12.104				7
102 Naphthalene	128		12.569				1

2,4,4-TMP Calc

$$\frac{53.4\,ug/L \times 25\,mL \times 10\,mls}{0.1\,mls \times 11.83\,g \times .927} \times 100 = 1276710.\ ug/kg$$

DF

TC 3/10/10

$$\frac{.5\,ug/L \times 25\,mL \times 10}{0.1\,mls \times 11.83\,g \times .927} \times 100 = 12000\,ug/kg$$

TC

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44498.D		
Lims ID:	360-24173-C-4-A	Client ID:	QC-SB-416-0.0/1.0-XXX
Inject. Date:	26-Aug-2009 08:25:30	Dil. Factor:	1.0000
Sample Type:	Client Sample		
Sample ID:	360-24173-C-4-A		
Misc. Info.:	360-0000960-023		
Operator:	CR	Instrument ID:	HP #1 GC/MS
Vol. Injected:	1.0000	ALS Bottle#:	45
Lims Batch ID:	48159	Lims Sample ID:	23
Detector:	MS SCAN		
Method:	\\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m		
Last Update:	26-Aug-2009 10:03:40	Calib Date:	24-Aug-2009 20:37:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D		
Limit Group:	VMS - 8260 VOA Calibration		
Integrator:	RTE		
Process Host:	WESVOAJESS		
Reviewed By:	rouleauc	Date:	26-Aug-2009 10:06:35

Tier 3 check

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.639				1
2 Chloromethane	50		1.820				1
3 Vinyl chloride	62		1.918				1
4 Bromomethane	94		2.275				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.874				1
8 1,1-Dichloroethene	96		3.065				1
10 Carbon disulfide	76		3.081				1
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.143				1
14 Methylene Chloride	84	3.643	3.634	0.009	29681	1.38	
15 Acetone	43		3.691				7
16 trans-1,2-Dichloroethene	61		3.784				1
17 Methyl acetate	43		3.809				1
19 Methyl tert-butyl ether	73		3.892				1
21 Isopropyl ether	45		4.238				1
22 1,1-Dichloroethane	63		4.347				1
24 Tert-butyl ethyl ether	59		4.559				1
26 cis-1,2-Dichloroethene	61		4.817				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.988				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
32 Carbon tetrachloride	117		5.169				1
33 Tetrahydrofuran	42		5.189				
$ 35 Dibromofluoromethane	113	5.219	5.215	0.004	110930	19.2	
36 1,1,1-Trichloroethane	97		5.231				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
40 Benzene	78		5.551				7
41 Tert-amyl methyl ether	73		5.644				1

Detection Limit

$\frac{0.5\ ug/L \times 25\ mL's}{5.09\ g \times .968} = 2.536\ ug/kg$ OK

$\frac{1.38\ ug/L \times 25\ mL's}{5.09 \times .968} = 7.10\ ug/kg\ dry$ (TC)

$\frac{0.2595}{0.5061} = \frac{110930\ (20)}{444555\ (X)} = 19.2316$ (TC)

Tier 3 check OC-SB-416-13/14-XXX

Report Date: 01-Sep-2009 10:27:38 Chrom Revision: 1.0.2009.827

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090831-2.b\V44633.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
41 Tert-amyl methyl ether	73		5.625				1
* 42 1,2-Dichloroethane-d4 ISTD	102	5.649	5.650	-0.001	19132	20.0	
43 1,2-Dichloroethane	62		5.707				479
* 44 Fluorobenzene	96	5.877	5.878	-0.001	426353	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.898	5.898	0.000	40833	8.25	
47 Methylcyclohexane	83		6.002				1
48 Trichloroethene	95		6.012				1
49 2,4,4-Trimethyl-2-pentene	112	6.037	6.038	-0.001	9770	2.25	
50 Dibromomethane	93		6.358				1
51 1,2-Dichloropropane	63		6.436				1
52 Dichlorobromomethane	83		6.482				1
54 1,4-Dioxane	88		6.653				1
57 cis-1,3-Dichloropropene	75		6.978				1
$ 58 Toluene-d8 (Surr)	98	7.122	7.128	-0.006	353037	18.6	
59 Toluene	92		7.165				47
60 Tetrachloroethene	164		7.459				1
61 4-Methyl-2-pentanone (MIBK)	43		7.459				1
62 trans-1,3-Dichloropropene	75		7.485				1
64 1,1,2-Trichloroethane	83		7.609				1
65 Chlorodibromomethane	129		7.749				1
66 1,3-Dichloropropane	76		7.826				1
67 Ethylene Dibromide	107		7.940				1
69 2-Hexanone	43		8.100				1
* 70 Chlorobenzene-d5	117	8.321	8.322	-0.001	244861	20.0	
71 Chlorobenzene	112		8.338				1
72 Ethylbenzene	91		8.353				1
73 1,1,1,2-Tetrachloroethane	131		8.384				1
74 m-Xylene & p-Xylene	91		8.462				1
75 o-Xylene	91		8.798				1
76 Styrene	104	8.833	8.839	-0.006	2911	0.1890	
77 Bromoform	173		8.860				1
78 Isopropylbenzene	105		9.035				1
$ 80 4-Bromofluorobenzene	95	9.257	9.258	-0.001	126534	20.4	
81 Bromobenzene	77		9.345				1
82 N-Propylbenzene	91		9.356				1
83 1,1,2,2-Tetrachloroethane	83		9.407				1
84 2-Chlorotoluene	91		9.485				1
85 1,3,5-Trimethylbenzene	105		9.506				1
86 1,2,3-Trichloropropane	110		9.526				1
88 4-Chlorotoluene	91		9.614				1
89 tert-Butylbenzene	119		9.759				1
90 1,2,4-Trimethylbenzene	105		9.816				1
91 sec-Butylbenzene	105		9.898				1
92 4-Isopropyltoluene	119		10.007				1
93 1,3-Dichlorobenzene	146		10.079				479
* 94 1,4-Dichlorobenzene-d4	152	10.135	10.136	-0.001	135852	20.0	
95 1,4-Dichlorobenzene	146		10.152				479
96 n-Butylbenzene	91		10.353				1
97 1,2-Dichlorobenzene	146		10.508				1
98 1,2-Dibromo-3-Chloropropane	157		11.283				1
100 Hexachlorobutadiene	225		12.038				1
101 1,2,4-Trichlorobenzene	180		12.084				1

$\frac{8.25 \text{ ug/L} \times 25 \text{ mL}}{6.05 \text{ g} \times .931} = 36.6 \text{ ug/kg dry}$ ✓

TC 3/11/10

Surrogate check ✓

$0.5061 = \frac{126534(20)}{244861(X)}$ = 20.42 ug/kg

TC 3/11/10

Detection Limit check

$\frac{0.5 \text{ ug/L} \times 25 \text{ mL}}{6.05 \text{ g} \times .931} = 2.2$ TC ✓

09/17/2009

OC-SB-416-8.0/9.0-XXX

Report Date: 21-Aug-2009 09:33:11 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090820-1.b\V44376.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
40 Benzene	78		5.564				79
41 Tert-amyl methyl ether	73		5.657				1
* 42 1,2-Dichloroethane-d4 ISTD	102	5.677	5.678	-0.001	33723	20.0	
43 1,2-Dichloroethane	62		5.735				79
* 44 Fluorobenzene	96	5.905	5.911	-0.006	666922	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.936	5.926	0.010	5912101	588.3	
47 Methylcyclohexane	83		6.029				
48 Trichloroethene	95		6.040				1
49 2,4,4-Trimethyl-2-pentene	112	6.070	6.066	0.004	1969672	310.0	
50 Dibromomethane	93		6.386				1
51 1,2-Dichloropropane	63		6.469				
52 Dichlorobromomethane	83		6.510				
54 1,4-Dioxane	88		6.681				1
57 cis-1,3-Dichloropropene	75		7.011				1
$ 58 Toluene-d8 (Surr)	98	7.150	7.156	-0.006	660715	24.3	
59 Toluene	92		7.197				1
60 Tetrachloroethene	164		7.487				1
61 4-Methyl-2-pentanone (MIBK)	43		7.487				
62 trans-1,3-Dichloropropene	75		7.513				1
64 1,1,2-Trichloroethane	83		7.637				1
65 Chlorodibromomethane	129		7.776				1
66 1,3-Dichloropropane	76		7.848				1
67 Ethylene Dibromide	107		7.962				1
69 2-Hexanone	43		8.128				
* 70 Chlorobenzene-d5	117	8.344	8.350	-0.006	497174	20.0	
71 Chlorobenzene	112		8.365				479
72 Ethylbenzene	91		8.376				1
73 1,1,1,2-Tetrachloroethane	131		8.407				1
74 m-Xylene & p-Xylene	91		8.489				1
75 o-Xylene	91		8.820				1
76 Styrene	104		8.861				479
77 Bromoform	173		8.882				1
78 Isopropylbenzene	105		9.058				1
$ 80 4-Bromofluorobenzene	95	9.279	9.280	-0.001	236294	18.0	
81 Bromobenzene	77		9.368				1
82 N-Propylbenzene	91		9.378				1
83 1,1,2,2-Tetrachloroethane	83		9.430				
84 2-Chlorotoluene	91		9.507				1
85 1,3,5-Trimethylbenzene	105		9.528				1
86 1,2,3-Trichloropropane	110		9.549				
88 4-Chlorotoluene	91		9.637				
89 tert-Butylbenzene	119		9.781				1
90 1,2,4-Trimethylbenzene	105		9.833				1
91 sec-Butylbenzene	105		9.921				1
92 4-Isopropyltoluene	119	10.024	10.029	-0.005	4938	0.1010	
93 1,3-Dichlorobenzene	146		10.102				
* 94 1,4-Dichlorobenzene-d4	152	10.153	10.159	-0.006	239386	20.0	
95 1,4-Dichlorobenzene	146		10.169				
96 n-Butylbenzene	91		10.376				1
97 1,2-Dichlorobenzene	146		10.531				1
98 1,2-Dibromo-3-Chloropropane	157		11.311				1
100 Hexachlorobutadiene	225		12.065				1

Surrogate check

(Tc) ~~0.8925~~ = 0.8164 $\frac{660715\ (20)}{666922\ (X)}$ = ~~X 22.2~~ 24.26

OC-SB-416-8.0/9.0-XXX

Report Date: 26-Aug-2009 08:51:23 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-1.b\V44464.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 42 1,2-Dichloroethane-d4 ISTD	102	5.664	5.670	-0.006	18990	20.0	
43 1,2-Dichloroethane	62		5.727				1
* 44 Fluorobenzene	96	5.891	5.898	-0.007	402231	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.917	5.918	-0.001	123276	27.5	
47 Methylcyclohexane	83		6.022				479
48 Trichloroethene	95		6.032				1
49 2,4,4-Trimethyl-2-pentene	112	6.051	6.058	-0.007	27161	6.89	
50 Dibromomethane	93		6.373				1
51 1,2-Dichloropropane	63		6.456				1
52 Dichlorobromomethane	83		6.497				1
54 1,4-Dioxane	88		6.673				1
57 cis-1,3-Dichloropropene	75		6.998				1
$ 58 Toluene-d8 (Surr)	98	7.142	7.143	-0.001	351542	19.6	
59 Toluene	92		7.184				1
60 Tetrachloroethene	164		7.479				1
61 4-Methyl-2-pentanone (MIBK)	43		7.479				1
62 trans-1,3-Dichloropropene	75		7.505				DF 1
64 1,1,2-Trichloroethane	83		7.629				1
65 Chlorodibromomethane	129		7.763				1
66 1,3-Dichloropropane	76		7.841				1
67 Ethylene Dibromide	107		7.954				1
69 2-Hexanone	43		8.120				1
* 70 Chlorobenzene-d5	117	8.336	8.342	-0.006	260383	20.0	
71 Chlorobenzene	112		8.352				1
72 Ethylbenzene	91		8.368				1
73 1,1,1,2-Tetrachloroethane	131		8.399				1
74 m-Xylene & p-Xylene	91		8.476				1
75 o-Xylene	91		8.812				1
76 Styrene	104		8.854				1
77 Bromoform	173		8.874				1
78 Isopropylbenzene	105		9.050				1
$ 80 4-Bromofluorobenzene	95	9.271	9.272	-0.001	136107	20.7	
81 Bromobenzene	77		9.360				1
82 N-Propylbenzene	91		9.370				1
83 1,1,2,2-Tetrachloroethane	83		9.422				1
84 2-Chlorotoluene	91		9.500				1
85 1,3,5-Trimethylbenzene	105		9.520				1
86 1,2,3-Trichloropropane	110		9.541				1
88 4-Chlorotoluene	91		9.629				1
89 tert-Butylbenzene	119		9.774				1
90 1,2,4-Trimethylbenzene	105		9.825				1
91 sec-Butylbenzene	105		9.913				1
92 4-Isopropyltoluene	119		10.022				1
93 1,3-Dichlorobenzene	146		10.094				479
* 94 1,4-Dichlorobenzene-d4	152	10.150	10.151	-0.001	146820	20.0	
95 1,4-Dichlorobenzene	146		10.161				479
96 n-Butylbenzene	91		10.368				1
97 1,2-Dichlorobenzene	146		10.523				1
98 1,2-Dibromo-3-Chloropropane	157		11.303				1
100 Hexachlorobutadiene	225		12.058				1
101 1,2,4-Trichlorobenzene	180		12.104				1
102 Naphthalene	128		12.569				1

$$\frac{27.5 \times 25\text{mL} \times 10\text{mL}}{12.66\text{g} \times .1\text{mL} \times .936} \times 25 = 145045.\ \text{ug/kg}$$

OK

09/17/2009

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44499.D
Lims ID: 360-24173-C-7-A
Client ID: OC-TBK-001
Inject. Date: 26-Aug-2009 08:49:30
Dil. Factor: 1.0000
Sample Type: Client Sample
Sample ID: 360-24173-C-7-A
Misc. Info.: 360-0000960-024
Operator: CR
Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000
ALS Bottle#: 46
Lims Batch ID: 48159
Lims Sample ID: 24
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m
Last Update: 26-Aug-2009 10:08:02
Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc
Date: 26-Aug-2009 10:08:02

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.639				1
2 Chloromethane	50		1.820				1
3 Vinyl chloride	62		1.918				1
4 Bromomethane	94		2.275				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.874				1
8 1,1-Dichloroethene	96		3.065				1
10 Carbon disulfide	76		3.081				1
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.143				1
14 Methylene Chloride	84	3.638	3.634	0.004	19640	0.1389	
15 Acetone	43		3.691				7
16 trans-1,2-Dichloroethene	61		3.784				1
17 Methyl acetate	43		3.809				1
19 Methyl tert-butyl ether	73		3.892				1
21 Isopropyl ether	45		4.238				1
22 1,1-Dichloroethane	63		4.347				1
24 Tert-butyl ethyl ether	59		4.559				1
26 cis-1,2-Dichloroethene	61		4.817				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.988				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
32 Carbon tetrachloride	117		5.169				1
33 Tetrahydrofuran	42	5.199	5.189	0.010	5180	1.33	
$ 35 Dibromofluoromethane	113	5.215	5.215	0.000	110175	21.0	
36 1,1,1-Trichloroethane	97		5.231				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
40 Benzene	78		5.551				7
41 Tert-amyl methyl ether	73		5.644				1

Trip Blank
OC-TBK-001

Detection Limit = 2.5 ✓

$\frac{.5 \times 25 \text{ml/s}}{5.0_g} = 2.5$

$\frac{1.33_{ug/L} \times 25 \text{ml/s}}{5.0_g \times 1.0} = 6.65_{ug/kg}$

TestAmerica Laboratories
Target Compound Quantitation Report

Tier 3 check

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44500.D
Lims ID: 360-24173-C-9-A
Client ID: OC-SB-412-0.0/1.0-XXX
Inject. Date: 26-Aug-2009 09:13:30
Dil. Factor: 1.0000
Sample Type: Client Sample
Sample ID: 360-24173-C-9-A
Misc. Info.: 360-0000960-025
Operator: CR
Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000
ALS Bottle#: 47
Lims Batch ID: 48159
Lims Sample ID: 25
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m
Last Update: 26-Aug-2009 10:08:02
Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc
Date: 26-Aug-2009 10:08:47

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.639				1
2 Chloromethane	50		1.820				1
3 Vinyl chloride	62		1.918				1
4 Bromomethane	94		2.275				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.874				1
8 1,1-Dichloroethene	96		3.065				1
10 Carbon disulfide	76		3.081				1
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.143				1
14 Methylene Chloride	84		3.634				7
15 Acetone	43		3.691				7
16 trans-1,2-Dichloroethene	61		3.784				1
17 Methyl acetate	43		3.809				1
19 Methyl tert-butyl ether	73		3.892				1
21 Isopropyl ether	45		4.238				1
22 1,1-Dichloroethane	63		4.347				1
24 Tert-butyl ethyl ether	59		4.559				1
26 cis-1,2-Dichloroethene	61		4.817				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.988				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
32 Carbon tetrachloride	117		5.169				1
33 Tetrahydrofuran	42		5.189				
$ 35 Dibromofluoromethane	113	5.216	5.215	0.001	106161	20.7	
36 1,1,1-Trichloroethane	97		5.231				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
40 Benzene	78		5.551				1
41 Tert-amyl methyl ether	73		5.644				1

No hits Reported

Detection Limit check

$\frac{.5\,mg/L \times 25\,ml_s}{4.8_g \times .967} = 2.69$ ✓

$.295 = \frac{106161\,(20)}{394071\,(X)} = 18.23$ ✓

Report Date: 26-Aug-2009 09:41:51 Chrom Revision: 1.0.2009.729

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44484.D
Lims ID: 360-24173-C-11-A
Client ID: OC-SB-412-6.0/7.0-XXX
Inject. Date: 26-Aug-2009 02:49:30
Dil. Factor: 1.0000
Sample Type: Client Sample
Sample ID: 360-24173-C-11-A
Misc. Info.: 360-0000960-009
Operator: CR
Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000
ALS Bottle#: 31
Lims Batch ID: 48159
Lims Sample ID: 9
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m
Last Update: 26-Aug-2009 09:38:14
Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc
Date: 26-Aug-2009 09:41:51

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.639				1
2 Chloromethane	50		1.820				1
3 Vinyl chloride	62		1.918				1
4 Bromomethane	94		2.275				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.874				1
8 1,1-Dichloroethene	96		3.065				1
10 Carbon disulfide	76		3.081				1
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.143				1
14 Methylene Chloride	84	3.639	3.634	0.005	21418	0.3788	
15 Acetone	43		3.691				7
16 trans-1,2-Dichloroethene	61		3.784				1
17 Methyl acetate	43		3.809				1
19 Methyl tert-butyl ether	73		3.892				1
21 Isopropyl ether	45		4.238				1
22 1,1-Dichloroethane	63		4.347				1
24 Tert-butyl ethyl ether	59		4.559				1
26 cis-1,2-Dichloroethene	61		4.817				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.988				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
32 Carbon tetrachloride	117		5.169				1
33 Tetrahydrofuran	42		5.189				
$ 35 Dibromofluoromethane	113	5.215	5.215	0.000	109623	20.5	
36 1,1,1-Trichloroethane	97		5.231				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
40 Benzene	78		5.551				479
41 Tert-amyl methyl ether	73		5.644				1

Tier 3

DL check

$\frac{.5 \times 25\text{mls}}{5.62 \times .865} = 2.57$

$\frac{0.2595 = X \quad 109623\ (20)}{411790\ (X)} = 20.51$ (TE)

09/17/2009

OC-SB-CJ20-0.0/1.0-XX

Report Date: 21-Aug-2009 09:48:17 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090820-1.b\V44380.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
41 Tert-amyl methyl ether	73		5.657				1
* 42 1,2-Dichloroethane-d4 ISTD	102	5.674	5.678	-0.004	33659	20.0	
43 1,2-Dichloroethane	62		5.735				479
* 44 Fluorobenzene	96	5.902	5.911	-0.009	689464	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.927	5.926	0.001	76087	7.32	
47 Methylcyclohexane	83		6.029				1
48 Trichloroethene	95		6.040				1
49 2,4,4-Trimethyl-2-pentene	112	6.067	6.066	0.001	12421	1.89	
50 Dibromomethane	93		6.386				1
51 1,2-Dichloropropane	63		6.469				1
52 Dichlorobromomethane	83		6.510				1
54 1,4-Dioxane	88		6.681				1
57 cis-1,3-Dichloropropene	75		7.011				1
$ 58 Toluene-d8 (Surr)	98	7.147	7.156	-0.009	615254	21.9	
59 Toluene	92	7.188	7.197	-0.009	2250	0.1033	
60 Tetrachloroethene	164		7.487				1
61 4-Methyl-2-pentanone (MIBK)	43		7.487				1
62 trans-1,3-Dichloropropene	75		7.513				1
64 1,1,2-Trichloroethane	83		7.637				1
65 Chlorodibromomethane	129		7.776				1
66 1,3-Dichloropropane	76		7.848				1
67 Ethylene Dibromide	107		7.962				1
69 2-Hexanone	43		8.128				1
* 70 Chlorobenzene-d5	117	8.346	8.350	-0.004	461005	20.0	
71 Chlorobenzene	112		8.365				479
72 Ethylbenzene	91		8.376				1
73 1,1,1,2-Tetrachloroethane	131		8.407				1
74 m-Xylene & p-Xylene	91		8.489				47
75 o-Xylene	91		8.820				1
76 Styrene	104	8.858	8.861	-0.003	30371	1.10	
77 Bromoform	173		8.882				1
78 Isopropylbenzene	105		9.058				1
$ 80 4-Bromofluorobenzene	95	9.276	9.280	-0.004	229780	18.9	
81 Bromobenzene	77		9.368				1
82 N-Propylbenzene	91		9.378				1
83 1,1,2,2-Tetrachloroethane	83		9.430				1
84 2-Chlorotoluene	91		9.507				79
85 1,3,5-Trimethylbenzene	105		9.528				1
86 1,2,3-Trichloropropane	110		9.549				1
88 4-Chlorotoluene	91		9.637				1
89 tert-Butylbenzene	119		9.781				1
90 1,2,4-Trimethylbenzene	105		9.833				1
91 sec-Butylbenzene	105		9.921				1
92 4-Isopropyltoluene	119		10.029				1
93 1,3-Dichlorobenzene	146		10.102				
* 94 1,4-Dichlorobenzene-d4	152	10.155	10.159	-0.004	235414	20.0	
95 1,4-Dichlorobenzene	146		10.169				
96 n-Butylbenzene	91		10.376				1
97 1,2-Dichlorobenzene	146	10.527	10.531	-0.004	4680	0.2535	
98 1,2-Dibromo-3-Chloropropane	157		11.311				1
100 Hexachlorobutadiene	225		12.065				1
101 1,2,4-Trichlorobenzene	180	12.113	12.112	0.001	2045	0.1553	

$$\frac{7.32\ \mu g/L \times 25\ mL_s \times 10\ mL_s}{.10\ mL \times 9.05_g \times .963} = 2099\ \mu g/kg$$

$$.5061 = \frac{229780\ (20)}{461005\ (X)} = 19,697$$

Tier 3 check OC-SB-420-12/14-XXX

Report Date: 31-Aug-2009 08:52:52 Chrom Revision: 1.0.2009.827

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090828-1.b\V44561.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 42 1,2-Dichloroethane-d4 ISTD	102	5.654	5.662	-0.008	19474	20.0	
43 1,2-Dichloroethane	62		5.719				1
* 44 Fluorobenzene	96	5.887	5.889	-0.002	430605	20.0	
45 2,4,4-Trimethyl-1-pentene	55		5.910				
47 Methylcyclohexane	83		6.013				1
48 Trichloroethene	95		6.019				1
49 2,4,4-Trimethyl-2-pentene	112	6.047	6.050	-0.003	1455	0.2195	
50 Dibromomethane	93		6.365				1
51 1,2-Dichloropropane	63		6.447				1
52 Dichlorobromomethane	83		6.494				1
54 1,4-Dioxane	88		6.654				1
57 cis-1,3-Dichloropropene	75		6.990				1
$ 58 Toluene-d8 (Surr)	98	7.132	7.135	-0.003	359850	18.7	
59 Toluene	92		7.176				1
60 Tetrachloroethene	164		7.471				1
61 4-Methyl-2-pentanone (MIBK)	43		7.471				1
62 trans-1,3-Dichloropropene	75		7.497				1
64 1,1,2-Trichloroethane	83		7.621				1
65 Chlorodibromomethane	129		7.755				1
66 1,3-Dichloropropane	76		7.832				1
67 Ethylene Dibromide	107		7.946				1
69 2-Hexanone	43		8.111				1
* 70 Chlorobenzene-d5	117	8.331	8.334	-0.003	257832	20.0	
71 Chlorobenzene	112		8.344				1
72 Ethylbenzene	91		8.360				1
73 1,1,1,2-Tetrachloroethane	131		8.391				1
74 m-Xylene & p-Xylene	91		8.473				1
75 o-Xylene	91		8.804				1
76 Styrene	104		8.845				1
77 Bromoform	173		8.871				1
78 Isopropylbenzene	105		9.047				1
$ 80 4-Bromofluorobenzene	95	9.266	9.269	-0.003	132431	20.3	
81 Bromobenzene	77		9.352				1
82 N-Propylbenzene	91		9.367				1
83 1,1,2,2-Tetrachloroethane	83		9.419				1
84 2-Chlorotoluene	91		9.491				7
85 1,3,5-Trimethylbenzene	105		9.512				1
86 1,2,3-Trichloropropane	110		9.533				1
88 4-Chlorotoluene	91		9.621				1
89 tert-Butylbenzene	119		9.765				1
90 1,2,4-Trimethylbenzene	105		9.822				1
91 sec-Butylbenzene	105		9.905				1
92 4-Isopropyltoluene	119		10.018				1
93 1,3-Dichlorobenzene	146		10.086				479
* 94 1,4-Dichlorobenzene-d4	152	10.140	10.142	-0.002	144196	20.0	
95 1,4-Dichlorobenzene	146		10.158				479
96 n-Butylbenzene	91		10.360				1
97 1,2-Dichlorobenzene	146		10.515				1
98 1,2-Dibromo-3-Chloropropane	157		11.295				1
100 Hexachlorobutadiene	225		12.044				1
101 1,2,4-Trichlorobenzene	180		12.096				1
102 Naphthalene	128		12.561				1

$\frac{.2195 \times 25\text{mls} \times 10\text{mls}}{13.37\text{g} \times .10\text{mls} \times .932} = 44.037\ \text{ug/kg}$ dry

$.8925 = \frac{359850\,(20)}{430605\,(X)} = 20.0$ OK

Detection Limit check

$\frac{.5\text{ug/L} \times 25\text{mls} \times 10\text{mls}}{.10\text{mL} \times 13.37\text{g} \times .932} = 100\ \text{ug/L}$

Tier 3 = OC-SB-420-6.5/8.5-XXX

Report Date: 26-Aug-2009 08:52:50 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-1.b\V44465.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 42 1,2-Dichloroethane-d4 ISTD	102	5.670	5.670	0.000	16748	20.0	
43 1,2-Dichloroethane	62		5.727				1
* 44 Fluorobenzene	96	5.892	5.898	-0.006	373680	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.918	5.918	0.000	180386	43.5	
47 Methylcyclohexane	83		6.022				1
48 Trichloroethene	95		6.032				1
49 2,4,4-Trimethyl-2-pentene	112	6.052	6.058	-0.006	49098	13.5	
50 Dibromomethane	93		6.373				1
51 1,2-Dichloropropane	63		6.456				1
52 Dichlorobromomethane	83		6.497				1
54 1,4-Dioxane	88		6.673				1
57 cis-1,3-Dichloropropene	75		6.998				1
$ 58 Toluene-d8 (Surr)	98	7.143	7.143	0.000	327321	19.6	
59 Toluene	92		7.184				1
60 Tetrachloroethene	164		7.479				1
61 4-Methyl-2-pentanone (MIBK)	43		7.479				1
62 trans-1,3-Dichloropropene	75		7.505				1
64 1,1,2-Trichloroethane	83		7.629				1
65 Chlorodibromomethane	129		7.763				1
66 1,3-Dichloropropane	76		7.841				1
67 Ethylene Dibromide	107		7.954				1
69 2-Hexanone	43		8.120				1
* 70 Chlorobenzene-d5	117	8.336	8.342	-0.006	247666	20.0	
71 Chlorobenzene	112		8.352				1
72 Ethylbenzene	91		8.368				1
73 1,1,1,2-Tetrachloroethane	131		8.399				1
74 m-Xylene & p-Xylene	91		8.476				1
75 o-Xylene	91		8.812				1
76 Styrene	104		8.854				7
77 Bromoform	173		8.874				1
78 Isopropylbenzene	105		9.050				1
$ 80 4-Bromofluorobenzene	95	9.272	9.272	0.000	129506	20.7	
81 Bromobenzene	77		9.360				1
82 N-Propylbenzene	91		9.370				1
83 1,1,2,2-Tetrachloroethane	83		9.422				1
84 2-Chlorotoluene	91		9.500				79
85 1,3,5-Trimethylbenzene	105		9.520				1
86 1,2,3-Trichloropropane	110		9.541				1
88 4-Chlorotoluene	91		9.629				1
89 tert-Butylbenzene	119		9.774				1
90 1,2,4-Trimethylbenzene	105		9.825				1
91 sec-Butylbenzene	105		9.913				1
92 4-Isopropyltoluene	119		10.022				1
93 1,3-Dichlorobenzene	146		10.094				479
* 94 1,4-Dichlorobenzene-d4	152	10.145	10.151	-0.006	145308	20.0	
95 1,4-Dichlorobenzene	146		10.161				479
96 n-Butylbenzene	91		10.368				1
97 1,2-Dichlorobenzene	146		10.523				1
98 1,2-Dibromo-3-Chloropropane	157		11.303				1
100 Hexachlorobutadiene	225		12.058				1
101 1,2,4-Trichlorobenzene	180		12.104				79
102 Naphthalene	128		12.569				79

$0.1905 = \frac{49098 \times 20}{373080\,(X)} = 13.79$ ok

$\frac{13.5\,ug/L \times 25\,mL \times 10\,mL}{0.1\,mL \times 12.16\,g \times .923} = 3007 \times 25\,(DF) = 75175.8\,ug/kg$ ok

(TC) ~~DL~~ RL check

$\frac{.5\,ug/L \times 25\,mL \times 10\,mL}{.1\,mL \times 12.16\,g \times .923} \times 25 = 2784$ 2800.

OC-SB-420-6.5/8.5-XXX

Report Date: 26-Aug-2009 08:52:50 Chrom Revision: 1.0.2009.729

TestAmerica Laboratories
Tentatively Identified Quantitation Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090825-1.b\V44465.D		
Lims ID:	360-24173-A-14-D	Client ID:	OC-SB-420-6.5/8.5-XXX
Inject. Date:	25-Aug-2009 19:08:30	Dil. Factor:	25.0000
Sample Type:	Client Sample		
Sample ID:	360-24173-A-14-D		
Misc. Info.:	360-0000958-011		
Operator:	CR	Instrument ID:	HP #1 GC/MS
Vol. Injected:	1.0000	ALS Bottle#:	12
Lims Batch ID:	48140	Lims Sample ID:	11
Detector:	MS SCAN		
Method:	\\wessvr06\chromdata\HPGCMS1.i\20090825-1.b\WES1SOIL.m		
Last Update:	26-Aug-2009 08:36:05	Calib Date:	24-Aug-2009 20:37:30
Tic RT Window:	0.000 -0.000	Response:	area
Quant By:	Nearest ISTD	Quant LOD:	10.00000
MS Library:	\\wessvr06\chromdata\DATABASE\NIST98.L		
Min. Match:	50		
Process Host:	WESVOAJESS		
Reviewed By:	rouleauc	Date:	26-Aug-2009 08:52:49

Tentative Identified Compound Results

RT	Response	Amount ug/L	Quant Cpnd	Qual	Lib Entry	Flags
66-25-1	Hexanal					
5.432	364077	35.3	42	53	110561	

Quantitation Compounds

Compound	RT	Response	Amount ug/L
* 42 1,2-Dichloroethane-d4 IST	5.665	206027	20.0

QC Flag Legend

Processing Flags

TIC calc.

$$1 = \frac{\cancel{110561}\ 364877\ (20)}{206027\ (X)} = \cancel{10.732}\ 35.34\ \text{ug/L}$$

$$\frac{\cancel{10.732}\ 35.34 \times 25\text{mls} \times 10\text{mls}}{0.1\text{mL} \times 12.16\text{g} \times .923} =$$

7871 ug/kg

~~2390.48 ug/kg~~ dry × 25 = 196793.

TC

OK ✓

09/17/2009

Report Date: 26-Aug-2009 10:09:48 Chrom Revision: 1.0.2009.729 Tier 3 check

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44501.D
Lims ID: 360-24173-C-15-A Client ID: OC-SB-423-0.0/1.0-XXX
Inject. Date: 26-Aug-2009 09:37:30 Dil. Factor: 1.0000
Sample Type: Client Sample
Sample ID: 360-24173-C-15-A
Misc. Info.: 360-0000960-026
Operator: CR Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000 ALS Bottle#: 48
Lims Batch ID: 48159 Lims Sample ID: 26
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m
Last Update: 26-Aug-2009 10:08:02 Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc Date: 26-Aug-2009 10:09:48

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.639				1
2 Chloromethane	50		1.820				1
3 Vinyl chloride	62		1.918				1
4 Bromomethane	94		2.275				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.874				1
8 1,1-Dichloroethene	96		3.065				1
10 Carbon disulfide	76		3.081				79
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.143				1
14 Methylene Chloride	84		3.634				7
15 Acetone	43		3.691				7
16 trans-1,2-Dichloroethene	61		3.784				1
17 Methyl acetate	43		3.809				1
19 Methyl tert-butyl ether	73		3.892				1
21 Isopropyl ether	45		4.238				1
22 1,1-Dichloroethane	63		4.347				1
24 Tert-butyl ethyl ether	59		4.559				1
26 cis-1,2-Dichloroethene	61		4.817				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.988				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
32 Carbon tetrachloride	117		5.169				1
33 Tetrahydrofuran	42		5.189				
$ 35 Dibromofluoromethane	113	5.215	5.215	0.000	108765	20.7	
36 1,1,1-Trichloroethane	97		5.231				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
40 Benzene	78		5.551				1
41 Tert-amyl methyl ether	73		5.644				1

RL check

$\frac{.5\,mg/L \times 25\,mls}{5.08_g \times .951} = 2.6\,mg/kg$ dry ✓

TC

$0.2595 = \frac{108765\,(20)}{404507\,(X)} = 20.72$ ✓ OK

TC

Surrogate check

Tier 3 checks

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44485.D
Lims ID: 360-24173-C-17-A
Client ID: OC-SB-423-5.0/6.0-XXX
Inject. Date: 26-Aug-2009 03:13:30
Dil. Factor: 1.0000
Sample Type: Client Sample
Sample ID: 360-24173-C-17-A
Misc. Info.: 360-0000960-010
Operator: CR
Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000
ALS Bottle#: 32
Lims Batch ID: 48159
Lims Sample ID: 10
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m
Last Update: 26-Aug-2009 09:38:14
Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc
Date: 26-Aug-2009 09:44:20

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.639				1
2 Chloromethane	50		1.820				79
3 Vinyl chloride	62		1.918				1
4 Bromomethane	94		2.275				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.874				1
8 1,1-Dichloroethene	96		3.065				1
10 Carbon disulfide	76	3.089	3.081	0.008	11671	0.4966	
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.143				1
14 Methylene Chloride	84	3.637	3.634	0.003	20326	0.2884	
15 Acetone	43		3.691				7
16 trans-1,2-Dichloroethene	61		3.784				1
17 Methyl acetate	43		3.809				1
19 Methyl tert-butyl ether	73		3.892				1
21 Isopropyl ether	45		4.238				1
22 1,1-Dichloroethane	63		4.347				1
24 Tert-butyl ethyl ether	59		4.559				1
26 cis-1,2-Dichloroethene	61		4.817				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.988				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
32 Carbon tetrachloride	117		5.169				1
33 Tetrahydrofuran	42		5.189				79
$ 35 Dibromofluoromethane	113	5.213	5.215	-0.002	108893	20.9	
36 1,1,1-Trichloroethane	97		5.231				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
40 Benzene	78		5.551				7
41 Tert-amyl methyl ether	73		5.644				1

$\frac{.4966 \times 25 mls}{5.83g \times .934} = 2.3 mg/kg$ ✓

ok (TC)

$0.2618 = \frac{108893\ (20.0)}{401048\ (X)} = 20.742$

ok ✓

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Client Sample ID: Lab Sample ID: MB 360-48150/3-A

Matrix: Solid Lab File ID: V44483.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 08/26/2009 02:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48159 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 5.06

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	4.99	5.06	T J

No TIC's in samples that match 4.99min RT

TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Lab Sample ID: CCVIS 360-48140/2 Calibration Date: 08/25/2009 15:05

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44455.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4983		25.4	20.0	27.1	30.0
Chloromethane	Lin		0.6542	0.1000	22.4	20.0	12.1	30.0
Vinyl chloride	Lin		0.5023		23.1	20.0	15.6	20.0
Bromomethane	Lin		0.3296		23.0	20.0	14.9	30.0
Chloroethane	Lin		0.2781		23.6	20.0	17.8	30.0
Trichlorofluoromethane	Lin		0.5326		24.1	20.0	20.7	30.0
Ethyl ether	Ave	0.1998	0.1791		17.9	20.0	-10.4	30.0
1,1-Dichloroethene	Lin		0.3633		22.9	20.0	14.7	20.0
Carbon disulfide	Ave	1.172	1.195		20.4	20.0	2.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2403		23.8	20.0	19.1	30.0
Acrolein	Lin1		0.5256		1040	1000	4.4	30.0
Methylene Chloride	Lin		0.3988		23.9	20.0	19.7	30.0
Acetone	Qua		0.0396		145	200	-27.7	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5139		19.5	20.0	-2.7	30.0
Methyl acetate	Lin		0.0983		138	200	-31.0*	30.0
Methyl tert-butyl ether	Lin		0.5319		19.4	20.0	-2.9	30.0
2-Methyl-2-propanol	Lin1		0.2167		170	200	-15.0	30.0
Isopropyl ether	Ave	1.438	1.327		18.4	20.0	-7.8	30.0
1,1-Dichloroethane	Lin		0.5702	0.1000	20.8	20.0	3.9	30.0
Acrylonitrile	Lin2		0.0466		18.1	20.0	-9.4	30.0
Tert-butyl ethyl ether	Lin		0.8487		20.1	20.0	0.3	30.0
Vinyl acetate	Lin1		0.3544		228	200	13.8	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4328		18.9	20.0	-5.5	30.0
2,2-Dichloropropane	Qua		0.4440		21.6	20.0	7.9	30.0
Cyclohexane	Ave	0.6383	0.6985		21.9	20.0	9.4	30.0
Chlorobromomethane	Ave	0.1791	0.1615		18.0	20.0	-9.8	30.0
Chloroform	Lin		0.5046		19.6	20.0	-2.2	20.0
Carbon tetrachloride	Ave	0.3593	0.4008		22.3	20.0	11.5	30.0
Tetrahydrofuran	Lin1		0.0450		185	200	-7.4	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4925		20.0	20.0	-0.2	30.0
2-Butanone (MEK)	Ave	0.0653	0.0592		181	200	-9.4	30.0
1,1-Dichloropropene	Ave	0.3849	0.4002		20.8	20.0	4.0	30.0
Benzene	Ave	1.175	1.120		19.1	20.0	-4.7	30.0
Tert-amyl methyl ether	Lin		0.6087		19.6	20.0	-1.9	30.0
1,2-Dichloroethane	Ave	0.2398	0.2239		18.7	20.0	-6.7	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2805		25.1	20.0	25.5	30.0
Methylcyclohexane	Ave	0.5730	0.6423		22.4	20.0	12.1	30.0
Trichloroethene	Ave	0.2943	0.2895		19.7	20.0	-1.6	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.2309		23.9	20.0	19.5	30.0
Dibromomethane	Ave	0.1115	0.1051		18.9	20.0	-5.7	30.0

TC 3/4/10

O = Qualify J/UJ in Samples

OC-SB-405-8.0/9.0-XXT 09/17/2009

OC-SB-416-8.0/9.0-XXT

OC-SB-420-6.5/8.5-XXT

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Lab Sample ID: CCVIS 360-47995/2 Calibration Date: 08/20/2009 16:11

Instrument ID: HP #1 GC/MS Calib Start Date: 05/21/2009 16:10

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 05/21/2009 18:59

Lab File ID: V44368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin		0.4201		21.6	20.0	7.9	30.0
Chloromethane	Lin1		0.5823	0.1000	16.4	20.0	-17.8	30.0
Vinyl chloride	Lin		0.4277		16.9	20.0	-15.5	20.0
Bromomethane	Lin1		0.2940		20.7	20.0	3.7	30.0
Chloroethane	Lin		0.2441		19.2	20.0	-3.9	30.0
Trichlorofluoromethane	Lin1		0.4489		20.6	20.0	3.2	30.0
Ethyl ether	Ave	0.2231	0.1823		16.3	20.0	-18.3	30.0
1,1-Dichloroethene	Ave	0.3477	0.3071		17.7	20.0	-11.7	20.0
Carbon disulfide	Ave	1.261	1.035		16.4	20.0	-17.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1997	0.1940		19.4	20.0	-2.9	30.0
Acrolein	Lin2		0.4841		827	1000	-17.3	30.0
Methylene Chloride	Lin		0.3446		20.1	20.0	0.6	30.0
Acetone	Lin		0.0431		133	200	-33.5*	30.0
trans-1,2-Dichloroethene	Ave	0.5822	0.4670		16.0	20.0	-19.8	30.0
Methyl acetate	Lin1		0.0956		163	200	-18.6	30.0
Methyl tert-butyl ether	Ave	0.6467	0.5055		15.6	20.0	-21.8	30.0
2-Methyl-2-propanol	Lin		0.2896		153	200	-23.3	30.0
Isopropyl ether	Ave	1.657	1.272		15.4	20.0	-23.2	30.0
1,1-Dichloroethane	Ave	0.6735	0.5416	0.1000	16.1	20.0	-19.6	30.0
Acrylonitrile	Lin1		0.0454		16.4	20.0	-18.0	30.0
Tert-butyl ethyl ether	Ave	1.032	0.7939		15.4	20.0	-23.1	30.0
Vinyl acetate	Ave	0.4620	0.3760		163	200	-18.6	30.0
cis-1,2-Dichloroethene	Ave	0.5100	0.4211		16.5	20.0	-17.4	30.0
2,2-Dichloropropane	Lin		0.3863		19.7	20.0	-1.5	30.0
Chlorobromomethane	Ave	0.1470	0.1548		21.1	20.0	5.3	30.0
Cyclohexane	Ave	0.7473	0.5866		15.7	20.0	-21.5	30.0
Chloroform	Ave	0.5518	0.5116		18.5	20.0	-7.3	20.0
Carbon tetrachloride	Ave	0.3449	0.3353		19.4	20.0	-2.8	30.0
Tetrahydrofuran	Lin1		0.0478		163	200	-18.7	30.0
1,1,1-Trichloroethane	Ave	0.4815	0.4407		18.3	20.0	-8.5	30.0
2-Butanone (MEK)	Lin2		0.0624		154	200	-22.8	30.0
1,1-Dichloropropene	Ave	0.4173	0.3870		18.5	20.0	-7.3	30.0
Benzene	Ave	1.211	1.129		18.6	20.0	-6.8	30.0
Tert-amyl methyl ether	Ave	0.6984	0.5595		16.0	20.0	-19.9	30.0
1,2-Dichloroethane	Ave	0.2567	0.2333		18.2	20.0	-9.1	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3014	0.2286		15.2	20.0	-24.2	30.0
Methylcyclohexane	Ave	0.5986	0.5351		17.9	20.0	-10.6	30.0
Trichloroethene	Ave	0.2862	0.2962		20.7	20.0	3.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1905	0.1898		19.9	20.0	-0.4	30.0
Dibromomethane	Ave	0.1074	0.1084		20.2	20.0	0.9	30.0

UJ associated

Quals added to EDD ✓

OC-SB-416-8.0/9.0-XX1

OC-SB-~~416~~-8.0/10-XXX 09/17/2009

TC 420

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Lab Sample ID: CCVIS 360-47995/2 Calibration Date: 08/20/2009 16:11

Instrument ID: HP #1 GC/MS Calib Start Date: 05/21/2009 16:10

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 05/21/2009 18:59

Lab File ID: V44368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Qua		0.2112		17.3	20.0	-13.4	20.0
Dichlorobromomethane	Ave	0.2791	0.2895		20.7	20.0	3.7	30.0
Methyl methacrylate	Ave	0.0674	0.0633		18.8	20.0	-6.1	30.0
1,4-Dioxane	Ave	0.0232	0.0204		176	200	-11.9	30.0
2-Chloroethyl vinyl ether	Lin		0.0197		135	200	-32.4*	30.0
cis-1,3-Dichloropropene	Ave	0.2979	0.3173		21.3	20.0	6.5	30.0
Toluene	Ave	0.6316	0.6742		21.3	20.0	6.7	20.0
4-Methyl-2-pentanone (MIBK)	Qua		0.1275		152	200	-23.8	30.0
Tetrachloroethene	Ave	0.1705	0.2104		24.7	20.0	23.4	30.0
trans-1,3-Dichloropropene	Ave	0.2066	0.2225		21.5	20.0	7.7	30.0
1,1,2-Trichloroethane	Ave	0.1085	0.1076		19.8	20.0	-0.8	30.0
Chlorodibromomethane	Ave	0.1284	0.1613		25.1	20.0	25.6	30.0
1,3-Dichloropropane	Ave	0.2169	0.2167		20.0	20.0	0.1	30.0
Ethylene Dibromide	Ave	0.1108	0.1268		22.9	20.0	14.4	30.0
2-Hexanone	Ave	0.0985	0.0769		156	200	-22.0	30.0
Chlorobenzene	Ave	1.072	0.9720	0.3000	18.1	20.0	-9.4	30.0
Ethylbenzene	Ave	2.148	1.752		16.3	20.0	-18.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3731	0.3267		17.5	20.0	-12.4	30.0
m-Xylene & p-Xylene	Ave	1.613	1.333		33.0	40.0	-17.4	30.0
o-Xylene	Ave	1.843	1.467		15.9	20.0	-20.4	30.0
Styrene	Ave	1.200	1.053		17.5	20.0	-12.3	30.0
Bromoform	Ave	0.2828	0.2798	0.1000	19.8	20.0	-1.1	20.0
Isopropylbenzene	Ave	2.351	1.961		16.7	20.0	-16.6	30.0
Bromobenzene	Ave	0.8518	0.6099		14.3	20.0	-28.4	30.0
N-Propylbenzene	Ave	2.746	2.136		15.6	20.0	-22.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6279	0.4573	0.3000	14.6	20.0	-27.2	30.0
2-Chlorotoluene	Ave	1.822	1.390		15.3	20.0	-23.7	30.0
1,3,5-Trimethylbenzene	Ave	1.870	1.544		16.5	20.0	-17.4	30.0
1,2,3-Trichloropropane	Ave	0.0690	0.0519		15.0	20.0	-24.8	30.0
~~trans-1,4-Dichloro-2-butene~~	Ave	0.0804	0.0567		14.1	20.0	-29.5	30.0
4-Chlorotoluene	Ave	1.541	1.182		15.3	20.0	-23.3	30.0
tert-Butylbenzene	Ave	1.484	1.358		18.3	20.0	-8.5	30.0
1,2,4-Trimethylbenzene	Ave	1.901	1.520		16.0	20.0	-20.0	30.0
sec-Butylbenzene	Ave	2.595	2.122		16.4	20.0	-18.2	30.0
4-Isopropyltoluene	Ave	1.968	1.699		17.3	20.0	-13.7	30.0
1,3-Dichlorobenzene	Ave	0.8754	0.7244		16.6	20.0	-17.2	30.0
1,4-Dichlorobenzene	Ave	1.741	1.551		17.8	20.0	-10.9	30.0
n-Butylbenzene	Ave	4.253	3.537		16.6	20.0	-16.8	30.0
1,2-Dichlorobenzene	Ave	1.569	1.381		17.6	20.0	-11.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0835	0.0762		18.3	20.0	-8.7	30.0
Hexachlorobutadiene	Ave	0.5755	0.5205		18.1	20.0	-9.6	30.0

* UJ associated

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Lab Sample ID: CCVIS 360-48343/2 Calibration Date: 08/28/2009 16:11

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44552.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4161		21.2	20.0	5.8	30.0
Chloromethane	Lin		0.5692	0.1000	19.3	20.0	-3.7	30.0
Vinyl chloride	Lin		0.4534		20.7	20.0	3.3	20.0
Bromomethane	Lin		0.2696		18.3	20.0	-8.4	30.0
Chloroethane	Lin		0.2386		19.8	20.0	-1.1	30.0
Trichlorofluoromethane	Lin		0.4536		20.4	20.0	1.8	30.0
Ethyl ether	Ave	0.1998	0.1729		17.3	20.0	-13.5	30.0
1,1-Dichloroethene	Lin		0.3210		20.1	20.0	0.4	20.0
Carbon disulfide	Ave	1.172	1.075		18.3	20.0	-8.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2076		20.4	20.0	1.8	30.0
Acrolein	Lin1		0.4752		943	1000	-5.7	30.0
Methylene Chloride	Lin		0.3329		19.5	20.0	-2.6	30.0
Acetone	Qua		0.0404		149	200	-25.7	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.4771		18.1	20.0	-9.6	30.0
Methyl acetate	Lin		0.0958		134	200	-33.0*	30.0
Methyl tert-butyl ether	Lin		0.5016		18.2	20.0	-8.9	30.0
2-Methyl-2-propanol	Lin1		0.1914		150	200	-25.2	30.0
Isopropyl ether	Ave	1.438	1.291		17.9	20.0	-10.3	30.0
1,1-Dichloroethane	Lin		0.5445	0.1000	19.8	20.0	-1.1	30.0
Acrylonitrile	Lin2		0.0442		17.2	20.0	-14.0	30.0
Tert-butyl ethyl ether	Lin		0.8225		19.4	20.0	-3.1	30.0
Vinyl acetate	Lin1		0.3332		214	200	7.1	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4140		18.1	20.0	-9.6	30.0
2,2-Dichloropropane	Qua		0.3941		18.9	20.0	-5.5	30.0
Cyclohexane	Ave	0.6383	0.6638		20.8	20.0	4.0	30.0
Chlorobromomethane	Ave	0.1791	0.1492		16.7	20.0	-16.7	30.0
Chloroform	Lin		0.4811		18.6	20.0	-6.9	20.0
Carbon tetrachloride	Ave	0.3593	0.3465		19.3	20.0	-3.6	30.0
Tetrahydrofuran	Lin1		0.0433		178	200	-10.9	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4495		18.2	20.0	-8.9	30.0
2-Butanone (MEK)	Ave	0.0653	0.0590		180	200	-9.8	30.0
1,1-Dichloropropene	Ave	0.3849	0.3737		19.4	20.0	-2.9	30.0
Benzene	Ave	1.175	1.045		17.8	20.0	-11.1	30.0
Tert-amyl methyl ether	Lin		0.5909		19.0	20.0	-5.0	30.0
1,2-Dichloroethane	Ave	0.2398	0.2064		17.2	20.0	-13.9	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2548		22.8	20.0	13.8	30.0
Methylcyclohexane	Ave	0.5730	0.6012		21.0	20.0	4.9	30.0
Trichloroethene	Ave	0.2943	0.2657		18.1	20.0	-9.7	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.2048		21.2	20.0	5.8	30.0
Dibromomethane	Ave	0.1115	0.0941		16.9	20.0	-15.6	30.0

O = J/UJ Qualify in

Quals add to EDD ✓

TC 3/4/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Lab Sample ID: CCVIS 360-48407/2 Calibration Date: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44626.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.1778		8.82	20.0	-55.9*	30.0
Chloromethane	Lin		0.5834	0.1000	19.8	20.0	-1.1	30.0
Vinyl chloride	Lin		0.4346		19.7	20.0	-1.5	20.0
Bromomethane	Lin		0.2743		18.7	20.0	-6.6	30.0
Chloroethane	Lin		0.2402		19.9	20.0	-0.3	30.0
Trichlorofluoromethane	Lin		0.3846		17.0	20.0	-14.8	30.0
Ethyl ether	Ave	0.1998	0.1791		17.9	20.0	-10.4	30.0
1,1-Dichloroethene	Lin		0.3132		19.6	20.0	-2.2	20.0
Carbon disulfide	Ave	1.172	1.105		18.8	20.0	-5.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.1808		17.5	20.0	-12.4	30.0
Acrolein	Lin1		0.5376		1070	1000	6.8	30.0
Methylene Chloride	Lin		0.3597		21.3	20.0	6.5	30.0
Acetone	Qua		0.0387		140	200	-29.9	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5127		19.4	20.0	-2.9	30.0
Methyl acetate	Lin		0.1131		161	200	-19.4	30.0
Methyl tert-butyl ether	Lin		0.5337		19.5	20.0	-2.6	30.0
2-Methyl-2-propanol	Lin1		0.2427		191	200	-4.6	30.0
Isopropyl ether	Ave	1.438	1.400		19.5	20.0	-2.7	30.0
1,1-Dichloroethane	Lin		0.5967	0.1000	21.8	20.0	8.9	30.0
Acrylonitrile	Lin2		0.0492		19.1	20.0	-4.3	30.0
Tert-butyl ethyl ether	Lin		0.8692		20.6	20.0	2.9	30.0
Vinyl acetate	Lin1		0.3622		233	200	16.3	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4565		19.9	20.0	-0.4	30.0
2,2-Dichloropropane	Qua		0.3573		17.0	20.0	-15.2	30.0
Cyclohexane	Ave	0.6383	0.5715		17.9	20.0	-10.5	30.0
Chlorobromomethane	Ave	0.1791	0.1564		17.5	20.0	-12.7	30.0
Chloroform	Lin		0.5242		20.4	20.0	1.8	20.0
Carbon tetrachloride	Ave	0.3593	0.3383		18.8	20.0	-5.8	30.0
Tetrahydrofuran	Lin1		0.0485		200	200	0.1	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4574		18.5	20.0	-7.3	30.0
2-Butanone (MEK)	Ave	0.0653	0.0568		174	200	-13.1	30.0
1,1-Dichloropropene	Ave	0.3849	0.3919		20.4	20.0	1.8	30.0
Benzene	Ave	1.175	1.151		19.6	20.0	-2.0	30.0
Tert-amyl methyl ether	Lin		0.6290		20.3	20.0	1.5	30.0
1,2-Dichloroethane	Ave	0.2398	0.2236		18.6	20.0	-6.8	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2355		21.0	20.0	5.0	30.0
Methylcyclohexane	Ave	0.5730	0.5104		17.8	20.0	-10.9	30.0
Trichloroethene	Ave	0.2943	0.2901		19.7	20.0	-1.4	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1817		18.8	20.0	-6.2	30.0
Dibromomethane	Ave	0.1115	0.1020		18.3	20.0	-8.6	30.0

O = Qualify estimated J/UJ in OC-SB-416-13/14-xxx

TC 3/5/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Lin1		0.3185		80.5	100	-19.5	30.0	
Chloromethane	Lin		0.6163	0.1000	105	100	5.0	30.0	
Vinyl chloride	Lin		0.4966		114	100	14.2	30.0	
Bromomethane	Lin		0.3408		119	100	19.2	30.0	
Chloroethane	Lin		0.2747		116	100	16.2	30.0	
Trichlorofluoromethane	Lin		0.5399		123	100	22.5	30.0	
Ethyl ether	Ave	0.1998	0.1939		97.1	100	-2.9	30.0	
1,1-Dichloroethene	Lin		0.3745		118	100	18.5	30.0	
Carbon disulfide	Ave	1.172	1.267		108	100	8.1	30.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2479		123	100	23.1	30.0	
Acrolein	Lin1		0.5439		5400	5000	8.1	30.0	
Methylene Chloride	Lin		0.4442		135	100	35.2*	30.0	*
Acetone	Qua		0.0317		539	1000	-46.1*	30.0	**
trans-1,2-Dichloroethene	Ave	0.5280	0.5291		100	100	0.2	30.0	
Methyl acetate	Lin		0.1085		771	1000	-22.9	30.0	
Methyl tert-butyl ether	Lin		0.5479		100	100	0.2	30.0	
2-Methyl-2-propanol	Lin1		0.2589		1020	1000	1.8	30.0	
Isopropyl ether	Ave	1.438	1.368		95.1	100	-4.9	30.0	
1,1-Dichloroethane	Lin		0.6061	0.1000	111	100	10.8	30.0	
Acrylonitrile	Lin2		0.0506		98.6	100	-1.4	30.0	
Tert-butyl ethyl ether	Lin		0.8849		105	100	4.9	30.0	
Vinyl acetate	Lin1		0.3114		1000	1000	0.1	30.0	
cis-1,2-Dichloroethene	Ave	0.4581	0.4686		102	100	2.3	30.0	
2,2-Dichloropropane	Qua		0.4611		113	100	12.6	30.0	
Chlorobromomethane	Ave	0.1791	0.1703		95.1	100	-4.9	30.0	
Cyclohexane	Ave	0.6383	0.6885		108	100	7.9	30.0	
Chloroform	Lin		0.5459		106	100	6.2	30.0	
Carbon tetrachloride	Ave	0.3593	0.4289		119	100	19.3	30.0	
Tetrahydrofuran	Lin1		0.0493		1020	1000	1.7	30.0	
1,1,1-Trichloroethane	Ave	0.4934	0.5271		107	100	6.8	30.0	
2-Butanone (MEK)	Ave	0.0653	0.0531		813	1000	-18.7	30.0	
1,1-Dichloropropene	Ave	0.3849	0.4270		111	100	10.9	30.0	
Benzene	Ave	1.175	1.190		101	100	1.3	30.0	
Tert-amyl methyl ether	Lin		0.6404		103	100	3.5	30.0	
1,2-Dichloroethane	Ave	0.2398	0.2374		99.0	100	-1.0	30.0	
2,4,4-Trimethyl-1-pentene	Lin1		0.3042		136	100	36.3*	30.0	*
Methylcyclohexane	Ave	0.5730	0.6256		109	100	9.2	30.0	
Trichloroethene	Ave	0.2943	0.3095		105	100	5.2	30.0	
2,4,4-Trimethyl-2-pentene	Lin1		0.2507		130	100	29.7	30.0	
Dibromomethane	Ave	0.1115	0.1095		98.2	100	-1.8	30.0	

* = J Qual defects only

** = UJ/J

09/17/2009

3/24/10 F

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2172		120	100	20.1	30.0
Dichlorobromomethane	Ave	0.2830	0.2959		105	100	4.6	30.0
Methyl methacrylate	Ave	0.0593	0.0596		100	100	0.4	30.0
1,4-Dioxane	Ave	0.0211	0.0238		1130	1000	12.9	30.0
2-Chloroethyl vinyl ether	Lin1		0.0457		1040	1000	4.0	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.3015		102	100	1.7	30.0
Toluene	Ave	0.6775	0.7042		104	100	3.9	30.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1246		924	1000	-7.6	30.0
Tetrachloroethene	Ave	0.2090	0.2387		114	100	14.2	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.2257		106	100	6.3	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.1083		99.4	100	-0.6	30.0
Chlorodibromomethane	Ave	0.1624	0.1640		101	100	1.0	30.0
1,3-Dichloropropane	Ave	0.2134	0.2176		102	100	2.0	30.0
Ethylene Dibromide	Ave	0.1323	0.1370		104	100	3.6	30.0
2-Hexanone	Ave	0.0865	0.0728		842	1000	-15.8	30.0
Chlorobenzene	Ave	1.083	1.142	0.3000	106	100	5.5	30.0
Ethylbenzene	Lin		2.057		112	100	12.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3851		101	100	1.0	30.0
m-Xylene & p-Xylene	Lin1		1.586		227	200	13.4	30.0
o-Xylene	Ave	1.735	1.765		102	100	1.7	30.0
Styrene	Ave	1.258	1.318		105	100	4.8	30.0
Bromoform	Ave	0.2952	0.3166	0.1000	107	100	7.3	30.0
Isopropylbenzene	Ave	2.247	2.440		109	100	8.6	30.0
Bromobenzene	Ave	0.7726	0.7757		100	100	0.4	30.0
N-Propylbenzene	Ave	2.529	2.794		110	100	10.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5123	0.3000	99.3	100	-0.7	30.0
2-Chlorotoluene	Ave	1.717	1.772		103	100	3.2	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.983		106	100	5.5	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0707		103	100	3.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0702		96.7	100	-3.3	30.0
4-Chlorotoluene	Ave	1.492	1.571		105	100	5.3	30.0
tert-Butylbenzene	Ave	1.551	1.727		111	100	11.3	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.952		100	100	0.0	30.0
sec-Butylbenzene	Ave	2.541	2.791		110	100	9.9	30.0
4-Isopropyltoluene	Ave	2.050	2.298		112	100	12.1	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9764		99.5	100	-0.5	30.0
1,4-Dichlorobenzene	Ave	1.821	1.930		106	100	6.0	30.0
n-Butylbenzene	Ave	3.711	4.335		117	100	16.8	30.0
1,2-Dichlorobenzene	Ave	1.574	1.619		103	100	2.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0817		99.0	100	-1.0	30.0
Hexachlorobutadiene	Ave	0.5157	0.5799		112	100	12.4	30.0

3/24/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.146		107	100	6.6	30.0
Naphthalene	Ave	1.428	1.359		95.2	100	-4.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.8481		105	100	5.0	30.0
Dibromofluoromethane	Ave	0.2595	0.2484		95.7	100	-4.3	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.9048		101	100	1.4	30.0
4-Bromofluorobenzene	Ave	0.5061	0.4900		96.8	100	-3.2	30.0

3/24/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Lab Sample ID: ICV 360-44692/9 Calibration Date: 05/21/2009 19:24

Instrument ID: HP #1 GC/MS Calib Start Date: 05/21/2009 16:10

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 05/21/2009 18:59

Lab File ID: V43430.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin		0.2350		54.9	100	-45.1*	30.0
Chloromethane	Lin1		0.7483	0.1000	106	100	6.5	30.0
Vinyl chloride	Lin		0.5094		103	100	2.9	30.0
Bromomethane	Lin1		0.3264		115	100	15.5	30.0
Chloroethane	Lin		0.2771		111	100	11.4	30.0
Trichlorofluoromethane	Lin1		0.4549		105	100	4.7	30.0
Ethyl ether	Ave	0.2231	0.1878		84.2	100	-15.8	30.0
1,1-Dichloroethene	Ave	0.3477	0.3237		93.1	100	-6.9	30.0
Carbon disulfide	Ave	1.261	1.234		97.9	100	-2.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1997	0.1788		89.5	100	-10.5	30.0
Acrolein	Lin2		0.5984		5150	5000	2.9	30.0
Methylene Chloride	Lin		0.3551		104	100	4.3	30.0
Acetone	Lin		0.0451		710	1000	-29.0	30.0
trans-1,2-Dichloroethene	Ave	0.5822	0.5445		93.5	100	-6.5	30.0
Methyl acetate	Lin1		0.1266		1090	1000	8.7	30.0
Methyl tert-butyl ether	Ave	0.6467	0.5580		86.3	100	-13.7	30.0
2-Methyl-2-propanol	Lin		0.3513		957	1000	-4.3	30.0
Isopropyl ether	Ave	1.657	1.524		92.0	100	-8.0	30.0
1,1-Dichloroethane	Ave	0.6735	0.6486	0.1000	96.3	100	-3.7	30.0
Acrylonitrile	Lin1		0.0540		97.9	100	-2.1	30.0
Tert-butyl ethyl ether	Ave	1.032	0.9243		89.6	100	-10.4	30.0
Vinyl acetate	Ave	0.4620	0.3867		837	1000	-16.3	30.0
cis-1,2-Dichloroethene	Ave	0.5100	0.4858		95.3	100	-4.7	30.0
2,2-Dichloropropane	Lin		0.4359		113	100	13.0	30.0
Cyclohexane	Ave	0.7473	0.6862		91.8	100	-8.2	30.0
Chlorobromomethane	Ave	0.1470	0.1388		94.4	100	-5.6	30.0
Chloroform	Ave	0.5518	0.5108		92.6	100	-7.4	30.0
Carbon tetrachloride	Ave	0.3449	0.3439		99.7	100	-0.3	30.0
Tetrahydrofuran	Lin1		0.0574		996	1000	-0.4	30.0
1,1,1-Trichloroethane	Ave	0.4815	0.4621		96.0	100	-4.0	30.0
2-Butanone (MEK)	Lin2		0.0650		808	1000	-19.2	30.0
1,1-Dichloropropene	Ave	0.4173	0.4030		96.6	100	-3.4	30.0
Benzene	Ave	1.211	1.143		94.3	100	-5.7	30.0
Tert-amyl methyl ether	Ave	0.6984	0.6333		90.7	100	-9.3	30.0
1,2-Dichloroethane	Ave	0.2567	0.2336		91.0	100	-9.0	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3014	0.2883		95.7	100	-4.3	30.0
Methylcyclohexane	Ave	0.5986	0.5641		94.2	100	-5.8	30.0
Trichloroethene	Ave	0.2862	0.2723		95.2	100	-4.8	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1905	0.1869		98.1	100	-1.9	30.0
Dibromomethane	Ave	0.1074	0.0958		89.2	100	-10.8	30.0

VJ Compound in all compounds Quantitated using 5/21/09 line

TC 3/24/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Lab Sample ID: ICV 360-44692/9 Calibration Date: 05/21/2009 19:24

Instrument ID: HP #1 GC/MS Calib Start Date: 05/21/2009 16:10

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 05/21/2009 18:59

Lab File ID: V43430.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Qua		0.2265		93.5	100	-6.5	30.0
Dichlorobromomethane	Ave	0.2791	0.2772		99.3	100	-0.7	30.0
Methyl methacrylate	Ave	0.0674	0.0562		83.5	100	-16.5	30.0
1,4-Dioxane	Ave	0.0232	0.0230		991	1000	-0.9	30.0
2-Chloroethyl vinyl ether	Lin		0.0320		1020	1000	1.7	30.0
cis-1,3-Dichloropropene	Ave	0.2979	0.2808		94.3	100	-5.7	30.0
Toluene	Ave	0.6316	0.6107		96.7	100	-3.3	30.0
4-Methyl-2-pentanone (MIBK)	Qua		0.1422		855	1000	-14.5	30.0
Tetrachloroethene	Ave	0.1705	0.1671		98.0	100	-2.0	30.0
trans-1,3-Dichloropropene	Ave	0.2066	0.1893		91.6	100	-8.4	30.0
1,1,2-Trichloroethane	Ave	0.1085	0.0933		86.0	100	-14.0	30.0
Chlorodibromomethane	Ave	0.1284	0.1182		92.0	100	-8.0	30.0
1,3-Dichloropropane	Ave	0.2169	0.1945		89.7	100	-10.3	30.0
Ethylene Dibromide	Ave	0.1108	0.1013		91.4	100	-8.6	30.0
2-Hexanone	Ave	0.0985	0.0729		740	1000	-26.0	30.0
Chlorobenzene	Ave	1.072	1.041	0.3000	97.1	100	-2.9	30.0
Ethylbenzene	Ave	2.148	2.079		96.8	100	-3.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3731	0.3666		98.3	100	-1.7	30.0
m-Xylene & p-Xylene	Ave	1.613	1.582		196	200	-1.9	30.0
o-Xylene	Ave	1.843	1.827		99.2	100	-0.8	30.0
Styrene	Ave	1.200	1.194		99.5	100	-0.5	30.0
Bromoform	Ave	0.2828	0.2433	0.1000	86.0	100	-14.0	30.0
Isopropylbenzene	Ave	2.351	2.401		102	100	2.1	30.0
Bromobenzene	Ave	0.8518	0.8084		94.9	100	-5.1	30.0
N-Propylbenzene	Ave	2.746	2.760		101	100	0.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6279	0.5393	0.3000	85.9	100	-14.1	30.0
2-Chlorotoluene	Ave	1.822	1.788		98.1	100	-1.9	30.0
1,3,5-Trimethylbenzene	Ave	1.870	1.929		103	100	3.2	30.0
1,2,3-Trichloropropane	Ave	0.0690	0.0673		97.5	100	-2.5	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0804	0.0613		76.3	100	-23.7	30.0
4-Chlorotoluene	Ave	1.541	1.519		98.6	100	-1.4	30.0
tert-Butylbenzene	Ave	1.484	1.611		109	100	8.5	30.0
1,2,4-Trimethylbenzene	Ave	1.901	1.899		99.9	100	0.1	30.0
sec-Butylbenzene	Ave	2.595	2.699		104	100	4.0	30.0
4-Isopropyltoluene	Ave	1.968	2.133		108	100	8.4	30.0
1,3-Dichlorobenzene	Ave	0.8754	0.8688		99.2	100	-0.8	30.0
1,4-Dichlorobenzene	Ave	1.741	1.684		96.8	100	-3.2	30.0
n-Butylbenzene	Ave	4.253	4.314		101	100	1.4	30.0
1,2-Dichlorobenzene	Ave	1.569	1.488		94.9	100	-5.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0835	0.0740		88.5	100	-11.5	30.0
Hexachlorobutadiene	Ave	0.5755	0.5748		99.9	100	-0.1	30.0

TC 3/24/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24173-1

SDG No.: OCRI-01

Lab Sample ID: ICV 360-44692/9 Calibration Date: 05/21/2009 19:24

Instrument ID: HP #1 GC/MS Calib Start Date: 05/21/2009 16:10

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 05/21/2009 18:59

Lab File ID: V43430.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.119	1.107		98.9	100	-1.1	30.0
Naphthalene	Ave	1.449	1.379		95.2	100	-4.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8327	0.8512		102	100	2.2	30.0
Dibromofluoromethane	Ave	0.2351	0.2305		98.0	100	-2.0	30.0
Toluene-d8 (Surr)	Ave	0.8164	0.8178		100	100	0.2	30.0
4-Bromofluorobenzene	Ave	0.5269	0.5099		96.8	100	-3.2	30.0

TC 3/24/10

Olin OU1 Soil VOC's 8260B

Tier 3 Calculation Checks

Detections in SDG 360-24173-1
include 2,4,4-trimethyl-1-pentene
2,4,4-trimethyl-2-pentene
CS_2, Styrene, Naphthalene

Initial Calibration

HP#1 GC/MS Analyzed 5/21/2009

5 ppb = Level 3

2,4,4-Trimethyl-1-pentene

5ppb std. $RF = \frac{(65102)(20)}{770817(5)} = 0.3378$ ✓

Bromoform

5ppb std. $RF = \frac{13371(20)}{\cancel{403271}\ 215785(5)} = \cancel{0.1326}$ (Tc) 0.24785 ✓

Styrene

5ppb std. $RF = \frac{122980(20)}{403271(5)} = 1.219$ ✓

1,4-Dioxane

~~Acrolein~~ (Tc)

50ppb std $RF = \frac{2398(20)}{34802(50)} = 0.0275$ ✓

CS_2

10ppb std $RF = \frac{547340(20)}{845846(10)} = 1.294$ ✓

*Note:

RRF for 1,4 Dioxane were < 0.05, however %RSD was < 30% for initial calibrations 5/21/09 & 8/24/09. Pro Judgement was used to UJ all Results for 1,4-Dioxane in SDG OCRI-01 There were no detections in these samples for 1,4-Dioxane

Olin OU1 Soil VOC's 8260B Job# G107100016-12

Tier 3 calculation checks

SDG: OCRI-01 360-24173

Initial Cal 8/24/09 HP#1 GC/MS

2,4,4-trimethyl-1-pentene

1ppb std $RF = \frac{6249\ (20)}{387435\ (1)} = 0.3225$ ✓

10ppb std $RF = \frac{58328\ (20)}{429786\ (10)} = 0.2714$ ✓

80ppb std $RF = \frac{420211\ (24)}{513051\ (80)} = 0.20476$ ✓

Linear Regression-1 used, $\bar{X}$ RRF = 0.2711

2,4,4-Trimethyl-2-pentene

1ppb std $RF = \frac{4259\ (20)}{387435\ (1)} = 0.2198$ ✓

10ppb std $RF = \frac{46780\ (20)}{429786\ (10)} = 0.2176$ ✓

80ppb std $RF = \frac{376798\ (20)}{513051\ (80)} = 0.1836$ ✓

Linear-1 used; $\bar{X}$ RRF = 0.2045

Styrene

1ppb std $RF = \frac{16762\ (20)}{254434\ (1)} = 1.3175$ ✓

10ppb std $RF = \frac{183307\ (20)}{283027\ (10)} = 1.2953$ ✓

80ppb std $RF = \frac{1652951\ (20)}{342534\ (80)} = 1.2004$ ✓

$\bar{X}$ RRF = 1.2581 ✓

Average Verified (TC)

SDG#	OCRI-01									
Initial Calibration %RSD Tier 3 Calculation Checks										
I-Cal Date:	5/21/2009									
	RRF of Line Standard									
Compound Name	**Level 1**	**Level 2**	**Level 3**	**Level 4**	**Level 5**	**Level 6**	**Level 7**	**% RSD**	**STDEV**	**Average**
2,4,4-Trimethyl-1-pentene	0.3291	0.345	0.3378	0.3077	0.3089	0.2682	0.2129	15.459	0.047	0.301
Bromoform	0.2746	0.2864	0.2479	0.2545	0.3036	0.3065	0.306	8.700	0.025	0.283
Styrene	1.0562	1.2323	1.2198	1.2259	1.2687	1.2363	1.1625	5.914	0.071	1.200
1,4-Dioxane	0.0247	0.0244	0.0276	0.0261	0.0225	0.0177	0.0195	15.320	0.004	0.023
I-Cal Date:	8/24/2009									
	RRF of Line Standard									
Compound Name	**Level 1**	**Level 2**	**Level 3**	**Level 4**	**Level 5**	**Level 6**	**Level 7**	**% RSD**	**STDEV**	**Average**
2,4,4-Trimethyl-1-pentene	0.338	0.3226	0.2847	0.2714	0.2498	0.2264	0.2048	17.920	0.049	0.271
Bromoform	0.2548	0.2755	0.279	0.2953	0.2716	0.333	0.3571	12.447	0.037	0.295
Styrene	1.239	1.3176	1.3037	1.2953	1.2081	1.2369	1.2064	3.698	0.047	1.258
1,4-Dioxane	xxx	xxx	0.0208	0.025	0.0179	0.0224	0.0193	13.092	0.003	0.021

SDG = 360-24173-1 OCRI-01

Tier 3 checks

Continuing Calibrations checks

8/28/09 @ 16:11

244-1-TMP $\frac{125649\ (20)}{493046\ (20)} = 0.2548$ $\frac{22.8\ ng/L}{20}$ calculated amount

14%D

13.8 on Form

Bromoform $\frac{39006\ (20)}{\text{TC } 289261\ (20)} = \frac{\text{TC } 0.1371}{153471}$

$\frac{0.258}{\text{(I-Cal) } 0.2952}$ %D = -12.4 ok ✓

styrene $\frac{342719\ (20)}{289261\ (20)} = \frac{1.184\ (C.C)}{1.258\ (I.C.)} = -5.8$ ok ✓

1-4 Dioxane $\frac{4255\ (20)}{23790\ (200)} = \frac{0.0179\ (C.C)}{0.0211\ (I.C)} = -15.2$ ok ✓

9/01/09 03:09

244-1-TMP $\frac{118622\ (20)}{503038\ (20)} = \frac{0.235\ (C.C)}{\text{Linear Regression } (I.C)} \rightarrow \frac{\text{Conc from Linear Reg. } 21\ ng/L}{20\ (\text{Target})} = 5.0$ ✓

Bromoform $\frac{42056\ (20)}{152860\ (20)} = \frac{0.27512\ (C.C)}{0.2952\ (I.C)} = -0.068$ or -6.8%D ✓

styrene $\frac{370869\ (20)}{293455\ (20)} = \frac{1.2638\ C.C}{1.258\ I.C}$ %D = .40% ✓

Olin OU1 Soil Validation

VOC SDG 360-24173-1 OCRI-01

Tier 3 checks

Continuing Calibration checks

9/01/09 03:09 continued

1,4-Dioxane $\frac{4756\ (20)}{2202\ (200)} = \frac{0.0216\ (C.C)}{0.0211\ (I.C)} = \% = 2.4\%$ ✓ 2.6% on Form OK ✓

SDG= 360-24173-1 OCRI-01

Tier 3

Continuing Cal Checks Continued

Continuing Cal from 8/25/09 15:05

Bromoform

$$\frac{44119\ (20)}{153267\ (20)} = \frac{0.287\ \text{I.C}}{0.295\ \text{I.C}} = -0.024 \quad 2.4\%$$ ✓

Styrene

$$\frac{381952\ (20)}{299938\ (20)} = \frac{1.273}{1.258} = 1.2\%D$$ ✓

1,4-Dioxane

$$\frac{4392\ (20)}{20990\ (200)} = \frac{0.0209}{0.0211} = -0.83\%D$$ ✓

Cont Cal 8/25/09 23:59

244-1-TMP

$$\frac{110723\ (20)}{463095\ (20)} = 0.2391$$ LR used to calculate

$$\frac{21.3\ \text{ug/L}}{20} = 6.5\%D$$

Bromoform

$$\frac{43911\ (20)}{154153\ (20)} = \frac{0.2848}{0.2952} = \%D = -3.5$$ ✓

Styrene

$$\frac{373009\ (20)}{295057\ (20)} = \frac{1.264}{1.258} = \%D = 0.49$$ ✓

1,4-Dioxane

$$\frac{4861\ (20)}{20950\ (200)} = \frac{0.0232}{0.0211} = \%D = 0.0996$$ 9.96 %D ✓

Olin OU1 Soil Program

Tier 3 Validation checks SDG 360-24173-1 OCRI-01

Tige Cunningham

3/4/10

Continuing Calibrations

5/21/09 Initial Cal RF

analyte	IS
244-1-TMP = 0.301	FB
Bromoform = 0.282	DCB
Styrene = 1.20	CBZ
14 Dioxane = 0.0232	12DCE

8/20/09 @ 16:11

244-1-TMP

$$0.301 = \frac{204225(20)}{(893498)x} = \frac{15.182}{20} - 1 = 24.06\%D$$ ✓

ICal 0.301 = RF = 0.2285 = %D = 0.2406

Bromoform

$$\frac{78710(20)}{281322(20)} = 0.2797$$ RF of CC; RF of I-Cal 0.2828; %D = 1.09 ✓

Styrene

$$\frac{654112(20)}{621117(20)} = \frac{1.053 \text{ C.C.}}{1.200 \text{ I.C.}} = \%D = 12.2$$ ✓

1,4-Dioxane

$$\frac{8682(20)}{42472(200)} = \frac{0.0204 \text{ C.C}}{0.0232 \text{ I.C.}} = \%D = 11.89$$ ✓

8/25/09 15:05

244-1-TMP $\frac{127708(20)}{455463(20)} = \frac{0.2805 \text{ C.C}}{0.2715 \text{ I.C.}}$ RF; %D = 3.3

LR used $\frac{25.5 \text{ ug/L}}{20 \text{ ug/L}} = 255$ %D ✓

OCRI-01 SDG 360-24173-1

Validation Notes: Tige Cunningham

2/25/2010

LCS

LCS 360-47992/1-A

Acetone @ 40%

Chloroethane @ 66%

Dichlorodifluoromethane @ 64%

LCSD

Acetone @ 52%

Associated Samples

OC-SB-416-8.0/9.0-xxx

OC-SB-420-0.0/1.0-xxx

LCS 360-48139/1-A

Acetone @ 61%

LCSD

Acetone @ 51%

OC-SB-405-8.0/9.0-xxx

OC-SB-416-8.0/9.0-xxx

OC-SB-420-6.5/8.5-xxx

LCS 360-48150/1-A

Acetone @ 68%

Dichlorodifluoromethane @ 66%

LCSD

Acetone @ 67%

@ 62%

OC-SB-412-6.0/7.0-xxx

OC-SB-423-5.0/6.0-xxx

OC-SB-405-0.0/1.0-xxx

OC-SB-416-0.0/1.0-xxx

OC-SB-412-0.0/1.0-xxx

OC-SB-423-0.0/1.0-xxx

LCS 360 48228/3

only EB associated, therefore not evaluated

LCS 360-48340/1-A

Acetone @ 69% ; 64% (LCSD)

Dichlorodifluoromethane 66% ; 65% (LCSD)

OC-SB-405-14/15-xxx

OC-SB-420-12/14-xxx

LCS 360-48405

Acetone @ 62%

Dichlorodifluoromethane @ 47% ; 49% (LCSD)

OC-SB-416-13/14xxx

OCRI -01 SDG 360-24173-1

Validation Notes: Tige Cunningham
2/25/2010

Method Blanks

360-48150/3-A

$MeCl_2$ @ 9.22 ug/kg Action of 92 ug/kg

Action

(U) Qualified $MeCl_2$ in
OC-SB-416-0.0/1.0-~~XXX~~
@ 7 JB, Elevated to
10 U

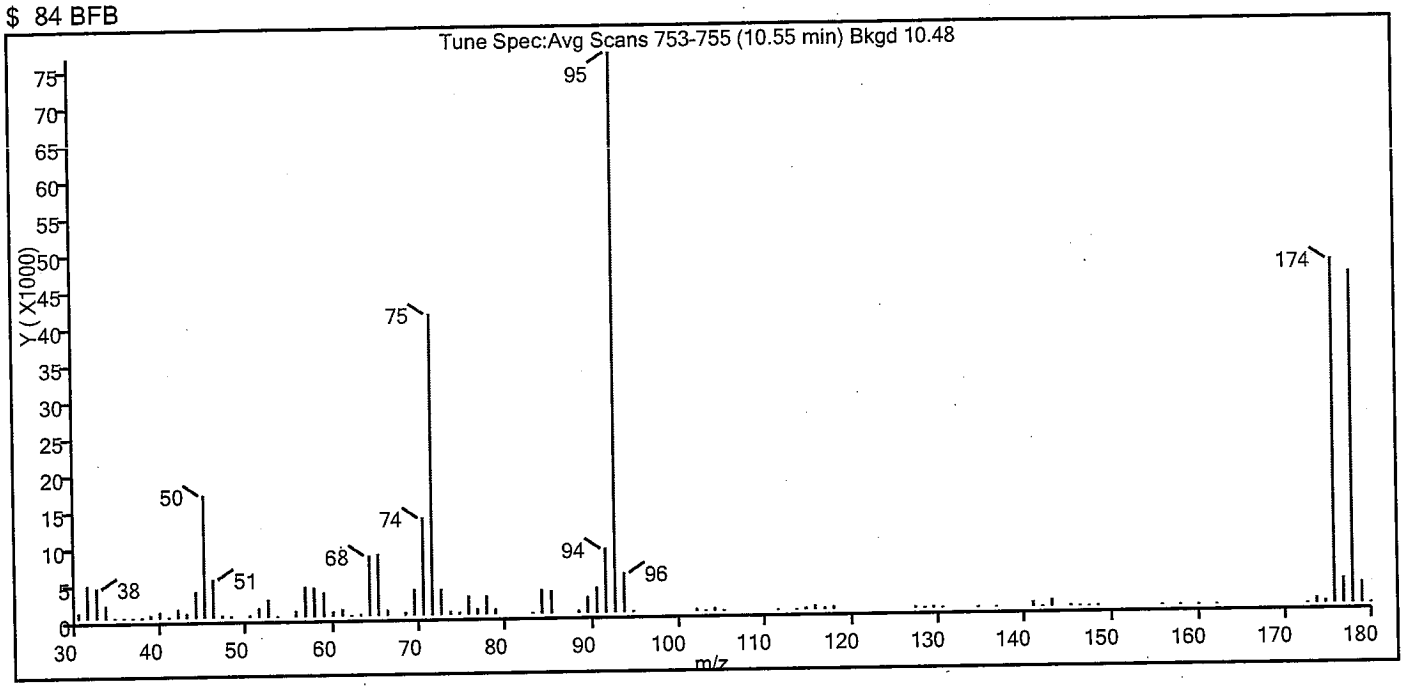
Chrom Revision: 1.0.2009.729

MS Tune Report

Data File: \\wessvr06\chromdata\AGILGCMS2.i\20090824-1.b\V06326.D
Inj Date: 24-Aug-2009 11:51:30
Lims Batch ID: 48065
Client ID:
Sample Info: cub
Sample Amount: 1.00

Limit Group: VMS - 8260 VOA Calibration
Lims Sample ID: 1
Instrument: Agilent#2 GC/MS
Operator: CT

$ 84 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.83
75	30.00 - 60.00% of mass 95	53.70
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.53 (0.87)
174	Greater than 50.00% of mass 95	61.51
175	5.00 - 9.00% of mass 174	4.51 (7.34)
176	95.00 - 101.00% of mass 174	59.34 (96.46)
177	5.00 - 9.00% of mass 176	3.81 (6.43)

Tier 3 check matched Form V
OK TC
3/5/10

Report Date: 27-Aug-2009 08:10:39

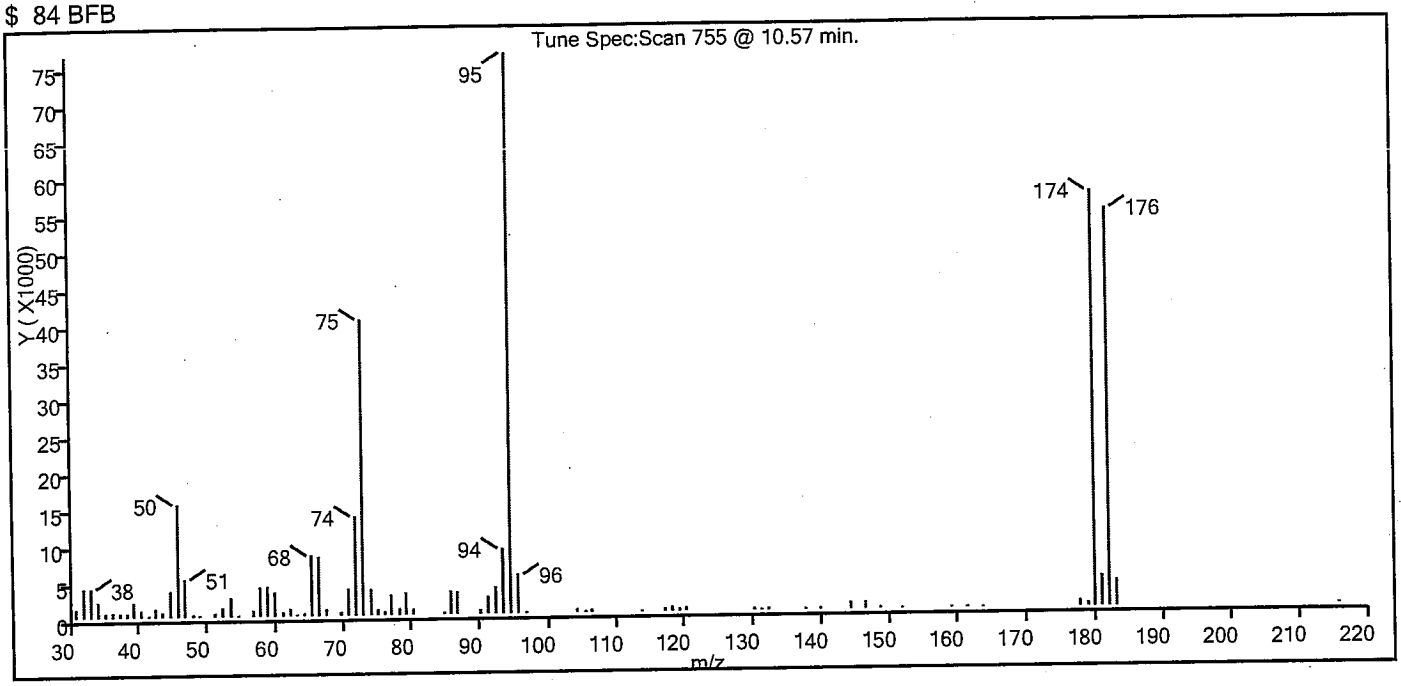
Chrom Revision: 1.0.2009.729

MS Tune Report

Data File: \\wessvr06\chromdata\AGILGCMS2.i\20090826-3.b\V06421.D
Inj Date: 26-Aug-2009 16:46:30
Lims Batch ID: 48228
Client ID:
Sample Info: bfb
Sample Amount: 1.00

Limit Group: VMS - 8260 VOA Calibration
Lims Sample ID: 1
Instrument: Agilent#2 GC/MS
Operator: CT

$ 84 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.02
75	30.00 - 60.00% of mass 95	52.75
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.67 (0.90)
174	Greater than 50.00% of mass 95	74.25
175	5.00 - 9.00% of mass 174	5.44 (7.33)
176	95.00 - 101.00% of mass 174	71.08 (95.73)
177	5.00 - 9.00% of mass 176	4.72 (6.64)

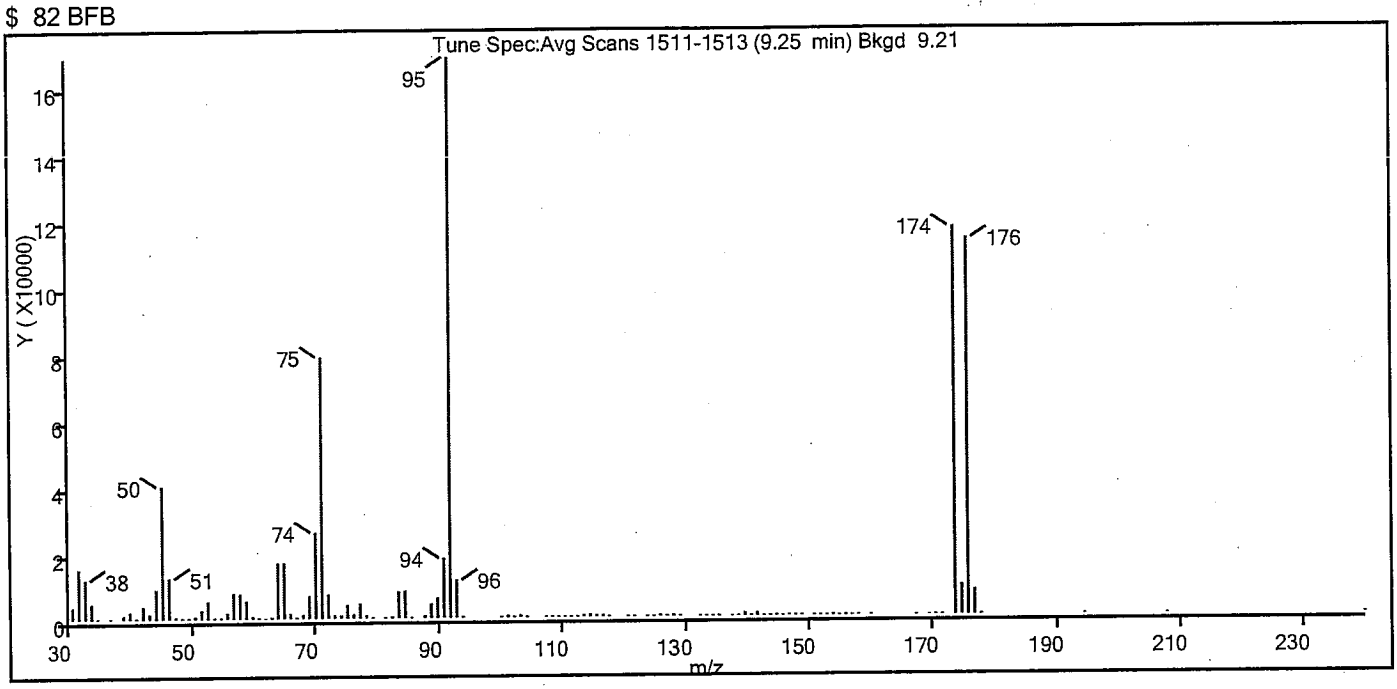
Tier 3 check
matches Form V ✓
TC 3/5/10

MS Tune Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090521-1.b\V43421.D
Inj Date: 21-May-2009 15:45:30
Lims Batch ID: 44692
Client ID:
Sample Info: BFB
Sample Amount: 1.00

Limit Group: VMS - 8260 VOA Calibration
Lims Sample ID: 1
Instrument: HP #1 GC/MS
Operator: CR

$ 82 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.62
75	30.00 - 60.00% of mass 95	46.62
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	69.25
175	5.00 - 9.00% of mass 174	5.30 (7.65)
176	95.00 - 101.00% of mass 174	67.17 (96.99)
177	5.00 - 9.00% of mass 176	4.50 (6.70)

✓ Matches form V

TC 3/5/10

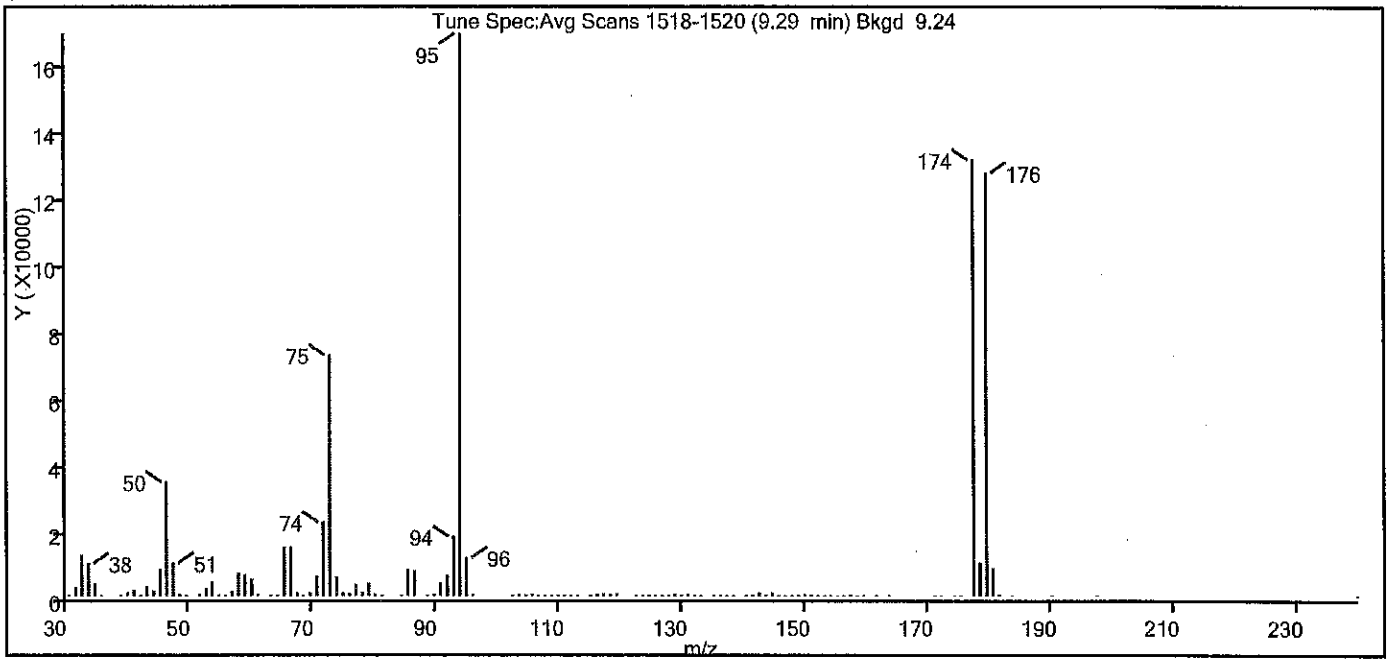
Report Date: 21-Aug-2009 08:21:07

Chrom Revision: 1.0.2009.729

MS Tune Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090820-1.b\V44367.D		
Inj Date:	20-Aug-2009 15:46:30	Limit Group:	VMS - 8260 VOA Calibration
Lims Batch ID:	47995	Lims Sample ID:	1
Client ID:		Instrument:	HP #1 GC/MS
Sample Info:	BFB		
Sample Amount:	1.00	Operator:	CR

$ 79 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.26
75	30.00 - 60.00% of mass 95	42.83
96	5.00 - 9.00% of mass 95	6.78
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.54
175	5.00 - 9.00% of mass 174	5.90 (7.60)
176	95.00 - 101.00% of mass 174	75.25 (97.04)
177	5.00 - 9.00% of mass 176	4.92 (6.54)

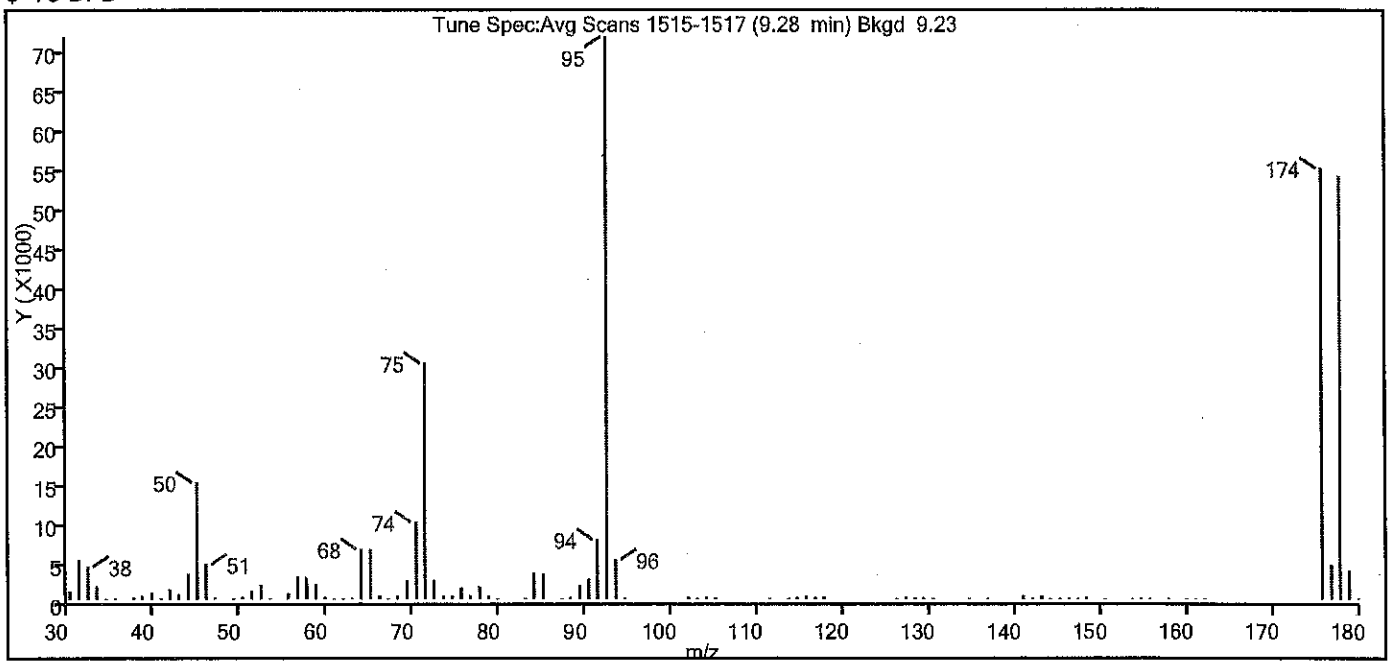
Values match Form II ✓

TC 3/5/10

MS Tune Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44418.D
Inj Date: 24-Aug-2009 17:23:30 Limit Group: VMS - 8260 VOA Calibration
Lims Batch ID: 48090 Lims Sample ID: 1
Client ID: Instrument: HP #1 GC/MS
Sample Info: BFB
Sample Amount: 1.00 Operator: CR

$ 79 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.74
75	30.00 - 60.00% of mass 95	42.01
96	5.00 - 9.00% of mass 95	6.97
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	76.67
175	5.00 - 9.00% of mass 174	6.00 (7.83)
176	95.00 - 101.00% of mass 174	75.22 (98.10)
177	5.00 - 9.00% of mass 176	4.99 (6.63)

Values match Form V ✓

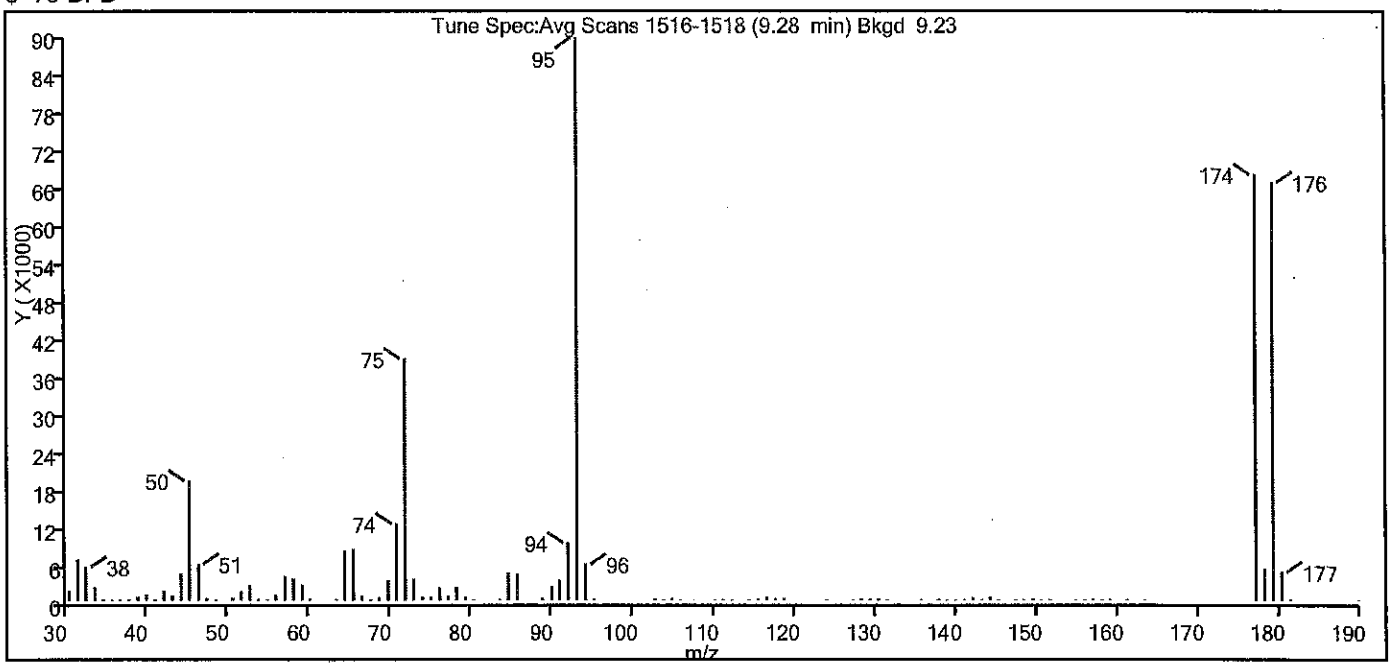
3/5/10 JC

Report Date: 26-Aug-2009 08:17:28 Chrom Revision: 1.0.2009.729

MS Tune Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090825-1.b\V44454.D		
Inj Date:	25-Aug-2009 14:41:30	Limit Group:	VMS - 8260 VOA Calibration
Lims Batch ID:	48140	Lims Sample ID:	1
Client ID:		Instrument:	HP #1 GC/MS
Sample Info:	BFB		
Sample Amount:	1.00	Operator:	CR

$ 79 BFB



m/z	Ion Abundance Criteria	% Relative Abundance	
95	Base Peak, 100% relative abundance	100.00	
50	15.00 - 40.00% of mass 95	21.26	✓
75	30.00 - 60.00% of mass 95	42.98	✓
96	5.00 - 9.00% of mass 95	6.38	
173	Less than 2.00% of mass 174	0.00 (0.00)	
174	Greater than 50.00% of mass 95	75.75	
175	5.00 - 9.00% of mass 174	5.60 (7.40)	
176	95.00 - 101.00% of mass 174	74.35 (98.15)	✓
177	5.00 - 9.00% of mass 176	5.00 (6.73)	✓

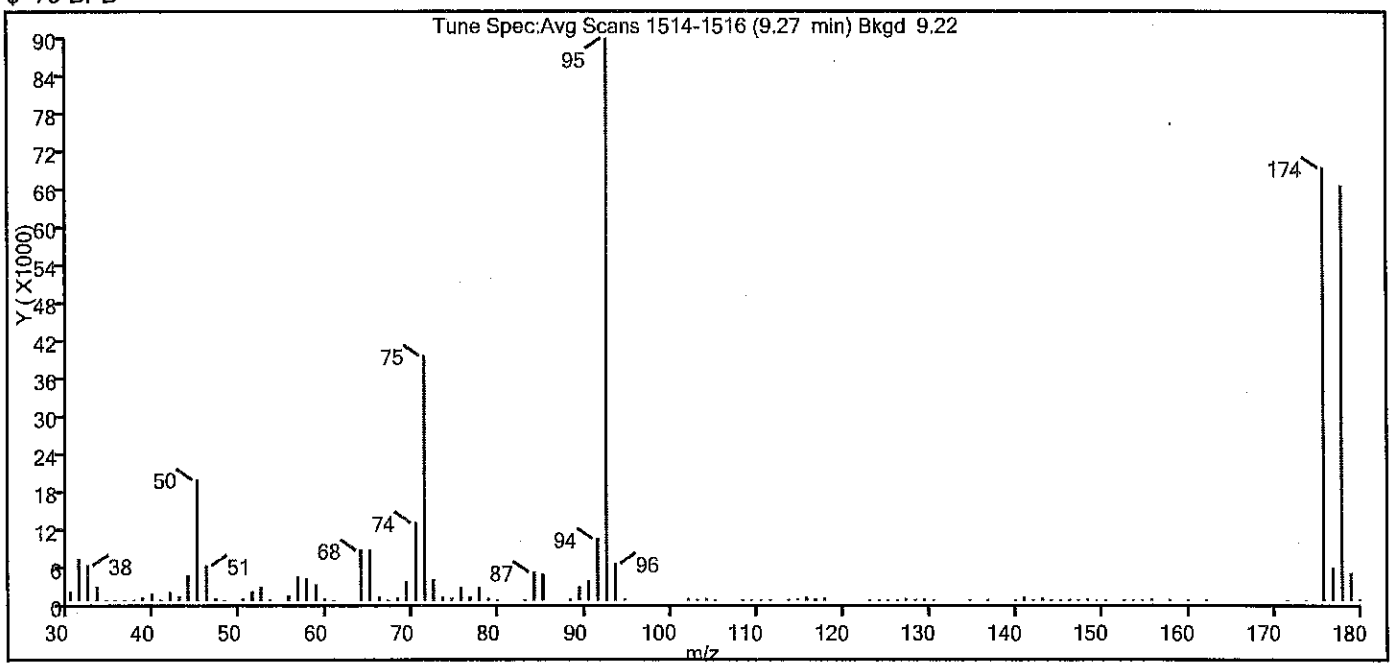
Matches Form V

TC 3/5/10

MS Tune Report

Data File: \\wessvr06\chromdata\HPGCMS1.I\20090825-2.b\V44476.D
Inj Date: 25-Aug-2009 23:35:30 Limit Group: VMS - 8260 VOA Calibration
Lims Batch ID: 48159 Lims Sample ID: 1
Client ID: Instrument: HP #1 GC/MS
Sample Info: BFB
Sample Amount: 1.00 Operator: CR

$ 79 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.54
75	30.00 - 60.00% of mass 95	43.57
96	5.00 - 9.00% of mass 95	6.58
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.02
175	5.00 - 9.00% of mass 174	5.83 (7.56)
176	95.00 - 101.00% of mass 174	73.81 (95.83)
177	5.00 - 9.00% of mass 176	4.88 (6.62)

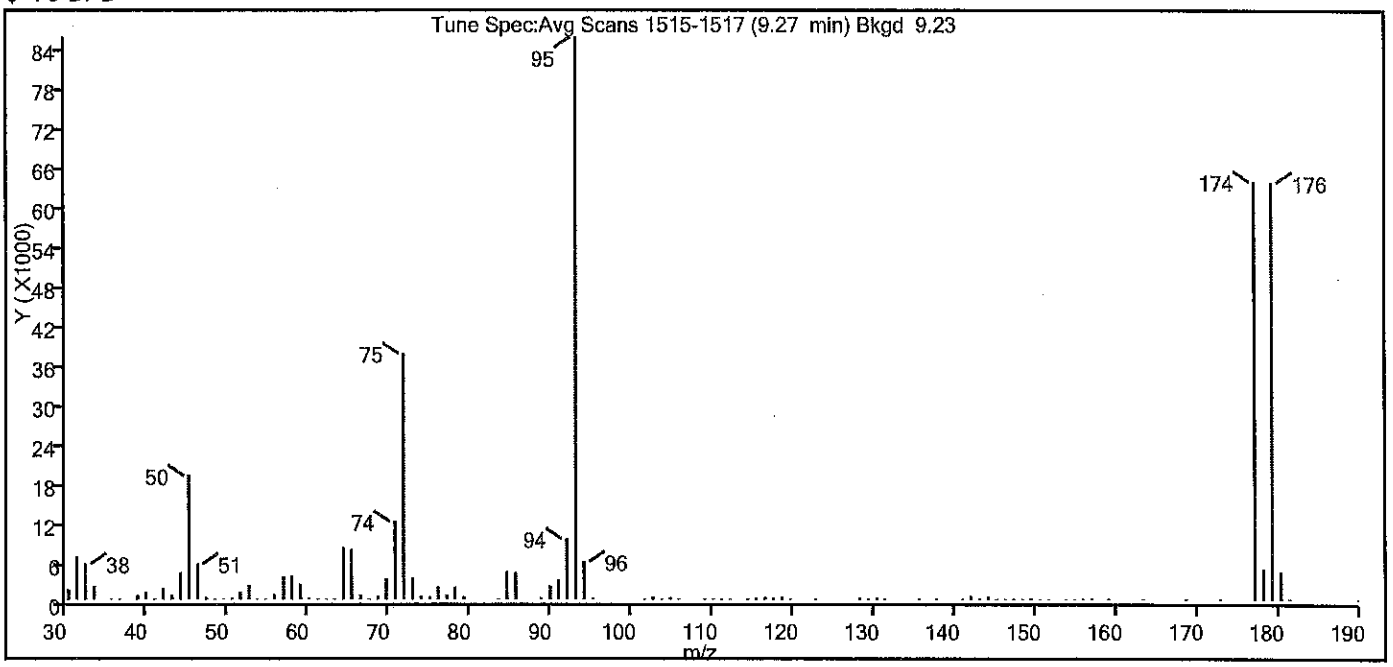
TC 3/5/10

matches Form V

MS Tune Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090828-1.b\V44551.D		
Inj Date:	28-Aug-2009 15:47:30	Limit Group:	VMS - 8260 VOA Calibration
Lims Batch ID:	48343	Lims Sample ID:	1
Client ID:		Instrument:	HP #1 GC/MS
Sample Info:	BFB		
Sample Amount:	1.00	Operator:	CR

$ 79 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.97
75	30.00 - 60.00% of mass 95	43.74
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	74.38
175	5.00 - 9.00% of mass 174	5.48 (7.36)
176	95.00 - 101.00% of mass 174	74.21 (99.77)
177	5.00 - 9.00% of mass 176	4.95 (6.67)

Tier 3 check

Matches Values on Form V ✓

TC 3/5/10

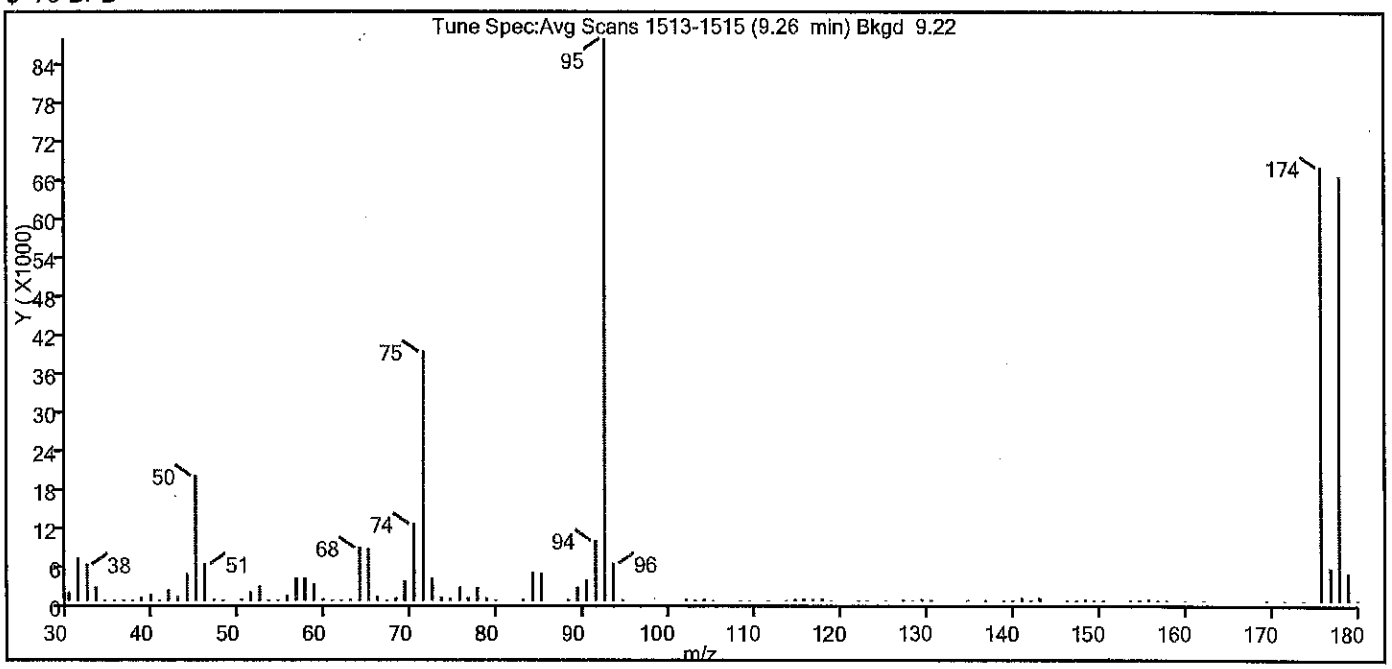
Report Date: 01-Sep-2009 10:05:17

Chrom Revision: 1.0.2009.827

MS Tune Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090831-2.b\V44625.D		
Inj Date:	01-Sep-2009 02:45:30	Limit Group:	VMS - 8260 VOA Calibration
Lims Batch ID:	48407	Lims Sample ID:	1
Client ID:		Instrument:	HP #1 GC/MS
Sample Info:	BFB		
Sample Amount:	1.00	Operator:	CR

$ 79 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.28
75	30.00 - 60.00% of mass 95	44.38
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.31
175	5.00 - 9.00% of mass 174	5.84 (7.55)
176	95.00 - 101.00% of mass 174	75.65 (97.86)
177	5.00 - 9.00% of mass 176	5.01 (6.62)

TC 3/5/10

Values Match Format

8260 MDL soil

MDL STUDY

ANALYST: Catherine Rouleau DATE: 4/3/09-4/7/09
ANALYSIS: 8260 LL SOIL METHOD: 8260 LL SOIL

I have read and understood the method and SOP for this analysis. Analyst [signature]

I have reviewed the above Analysts ability to perform this analysis and am satisfied with the Analyst's ability to perform this analysis.

Supervisor: [signature] 4/23/09
QA Officers Name: Chris Reynolds [signature] 5/26/09
(print) (sign) (date)

All raw data necessary to reconstruct and validate these analyses have been retained at the facility, and that the associated information is well organized and available for review by authorized assessors.

Compound	ug/L Spike Conc.	MDL1(V42784.D)	MDL2(V42785.D)	MDL3(V42786.D)	MDL4(V42787.D)	MDL5(V42805.D)	MDL6(V42806.D)	MDL7(V42807.D)	AVE.	Standard Deviation	ug/L Kg - Pct factor Calculated MDL	LIMS MDL* ①	Report Level
FLUOROBENZENE	20	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.000	0.000	0.000		
Dichlorodifluoromethane	1	0.93	0.91	0.87	0.97	0.82	0.87	0.81	0.883	0.058	0.911		
Chloromethane SPCC	1	1.20	1.14	1.13	1.25	1.17	1.12	1.17	1.169	0.045	0.711		
Vinyl Chloride CCC	1	1.12	1.12	0.96	1.17	1.06	1.22	1.25	1.129	0.098	1.516		
Bromomethane	1	1.06	1.10	1.05	0.99	1.12	1.07	1.10	1.070	0.043	0.679		
Chloroethane	1	1.22	1.11	1.13	1.19	1.19	1.28	1.08	1.171	0.069	1.087		
Trichlorofluoromethane	1	0.86	0.81	0.82	0.84	0.78	0.78	0.83	0.817	0.030	0.469		
Diethyl ether	1	0.94	1.06	0.99	1.00	1.09	1.05	0.99	1.017	0.052	0.810		
Ethanol	50	27.45	19.77	10.60	24.92	7.80	20.41	23.91	19.266	7.401	116.306		
1,1-Dichloroethene CCC	1	1.00	0.97	0.90	0.94	0.99	1.00	0.99	0.970	0.037	0.588		
Freon 113	1	0.89	0.94	0.83	0.93	0.75	0.75	0.77	0.837	0.083	1.311		
Carbon disulfide	1	1.03	0.99	0.97	1.07	1.02	1.00	0.99	1.010	0.033	0.521		
Acrolein	50	53.18	53.05	48.23	49.84	50.44	52.95	52.68	51.481	1.970	30.961		
Isopropyl Alcohol	50	66.13	71.27	71.25	72.50	87.15	82.58	90.39	77.324	9.263	145.878		
Methylene Chloride	1	2.19	2.02	2.22	2.25	2.08	2.18	2.22	2.166	0.094	1.321		
Acetone	10	8.72	9.39	7.52	9.21	10.70	8.98	9.27	9.113	0.943	14.824		
t-1,2-Dichloroethene	1	1.07	1.03	1.01	1.04	1.05	1.09	1.06	1.050	0.026	0.416		
Methyl Acetate	10	9.49	12.03	9.58	11.60	11.77	11.30	10.75	10.931	1.035	16.268		
n-Hexane	1	0.85	0.94	0.89	0.94	0.73	0.75	0.77	0.839	0.089	1.401		
Methyl-t-butylether	1	0.90	1.00	0.95	1.03	0.99	0.99	0.96	0.974	0.042	0.660		
tert-Butanol	10	7.15	10.48	8.75	11.13	11.28	11.46	11.97	10.317	1.739	27.324		
Isopropyl ether	1	0.96	0.98	0.96	0.99	1.00	0.96	0.98	0.974	0.018	0.285		
Acrylonitrile	1	1.19	1.15	1.02	1.28	0.76	0.92	1.09	1.069	0.176	2.763		
1,1-Dichloroethane SPC	1	1.06	1.08	0.98	1.05	1.01	1.00	1.05	1.033	0.036	0.572		
Vinyl Acetate	10	9.11	10.30	9.51	9.74	8.78	9.26	8.98	9.383	0.516	8.116		
Ethyl-t-butylether (ETBE)	1	0.93	0.94	0.92	0.99	0.95	0.93	0.97	0.947	0.025	0.393		
c-1,2-Dichloroethene	1	1.01	1.06	0.97	1.06	1.00	1.05	1.05	1.029	0.035	0.555		
2,2-Dichloropropane	1	1.04	0.98	0.98	1.05	0.92	0.98	1.10	1.007	0.060	0.937		
Cyclohexane	1	3.64	3.44	3.51	3.65	3.22	3.39	3.22	3.439	0.177	2.794		
Bromochloromethane	1	1.00	1.03	0.90	1.02	0.95	0.98	0.93	0.973	0.048	0.758		
Chloroform CCC	1	0.88	0.97	0.89	0.97	0.95	0.86	0.94	0.923	0.045	0.713		
Ethyl Acetate	10	9.43	10.90	9.84	10.27	10.19	9.65	9.50	9.969	0.522	8.204		
Tetrahydrofuran	10	10.20	11.13	10.77	11.27	11.04	11.24	11.12	10.967	0.376	5.911		
Carbon Tetrachloride	1	0.85	0.83	0.83	0.94	0.80	0.89	0.92	0.868	0.052	0.816		
DIBROFLUMETHANE	20	19.89	19.77	19.71	19.80	20.22	19.91	20.22	19.931	0.209	3.278		
sec-Butyl Alcohol	50	44.51	50.58	49.52	49.62	48.49	47.07	45.18	47.853	2.334	36.674		
1,1,1-Trichloroethane	1	0.98	0.99	0.94	1.03	0.99	1.01	0.99	0.990	0.028	0.435		
2-Butanone	10	8.15	9.35	7.61	9.18	8.88	8.80	8.43	8.629	0.609	9.566		
1,1-Dichloropropene	1	0.87	0.93	0.84	0.86	0.91	0.88	0.86	0.879	0.031	0.492		
n-Heptane	1	0.85	0.78	0.87	0.89	0.58	0.63	0.65	0.760	0.128	2.010		
Benzene	1	0.99	1.06	0.99	1.01	0.97	1.04	1.03	1.013	0.032	0.503		
t-amyl methylether (TAME	1	0.94	0.97	0.90	1.03	0.94	0.94	0.93	0.950	0.041	0.642		

Adjust RL's

HL	LL
1250	25
1250	25
1250	25

① refer to attached MDW sheet (see)

MDL STUDY

1,2-DICHLOROETHANE	20	18.10	19.04	18.97	18.19	19.08	18.70	18.89	18.710	0.406	6.378		
1,2-Dichloroethane	1	0.90	0.99	0.92	1.00	0.94	0.95	0.92	0.946	0.037	0.587		
2,4,4-Trimethyl-1-pentene	1	1.11	1.21	1.06	1.16	0.99	0.94	1.00	1.067	0.098	1.539		
Isopropyl Acetate	10	8.85	9.83	9.27	10.13	9.42	9.46	9.36	9.474	0.409	6.429		
Methylcyclohexane	1	0.84	0.83	0.80	0.85	0.69	0.74	0.78	0.790	0.058	0.916		
Trichloroethene	1	0.92	0.93	0.94	0.93	0.92	0.94	0.95	0.933	0.011	0.175		
2,4,4-Trimethyl-2-pentene	1	1.23	1.20	1.22	1.23	1.04	1.10	1.10	1.160	0.078	1.227		
Dibromomethane	1	0.96	1.04	1.00	1.06	1.00	0.97	0.95	0.997	0.041	0.646		
1,2-Dichloropropane CC	1	0.98	1.01	0.97	1.02	0.94	1.01	1.04	0.996	0.034	0.536		
tert-butyl Acetate	10	8.98	9.54	8.99	9.80	8.87	8.94	8.68	9.114	0.401	6.298		
Bromodichloromethane	1	0.89	0.92	0.88	0.94	0.93	0.95	0.94	0.921	0.027	0.420		
Methyl Methacrylate	1	0.93	1.02	0.93	1.08	0.92	1.03	0.89	0.971	0.071	1.116		
1,4-Dioxane	50	54.88	56.42	42.05	50.54	47.89	53.92	53.39	51.299	4.967	78.058		
n-Propyl Acetate	10	15.70	18.05	17.08	17.62	16.17	16.78	16.01	16.773	0.870	13.669		
2-Chlorovinylether ether	10	9.29	10.69	9.35	10.09	4.82	4.79	4.96	7.713	2.713	42.639		
c-1,3-Dichloropropene	1	0.92	0.93	0.91	0.92	0.87	0.87	0.89	0.901	0.025	0.389		
TOLUENE-D8	20	19.58	19.90	19.85	19.64	19.88	19.88	19.71	19.774	0.128	2.029		
Toluene CCC	1	0.95	1.01	0.95	1.00	0.95	0.97	0.98	0.978	0.025	0.393		
4-Methyl-2-Pentanone	10	9.05	9.80	9.53	10.15	9.20	9.56	9.12	9.487	0.398	6.262		
t-1,3-Dichloropropene	1	0.90	0.99	0.89	0.96	0.88	0.91	0.91	0.920	0.040	0.629		
sec-Butyl Acetate	10	8.79	9.77	9.23	9.97	9.24	9.35	9.06	9.344	0.405	6.367		
Tetrachloroethene	1	0.93	0.98	0.96	1.02	0.97	0.93	0.93	0.960	0.034	0.529		
Isobutyl Acetate	10	8.86	9.79	9.35	10.32	9.36	9.59	9.01	9.469	0.492	7.724		
1,1,2-Trichloroethane	1	0.91	1.02	0.92	0.98	0.99	0.95	0.91	0.954	0.044	0.684		
Chlorodibromomethane	1	0.83	0.88	0.83	0.93	0.88	0.89	0.84	0.869	0.037	0.584		
1,3-Dichloropropane	1	0.90	1.06	0.98	0.99	0.98	0.94	0.93	0.969	0.052	0.814		
Ethylenedibromide	1	0.92	1.07	0.94	1.03	0.95	0.94	0.90	0.964	0.062	0.972		
n-Butyl Acetate	10	9.08	10.55	9.65	10.13	9.35	9.47	9.26	9.641	0.523	8.214		
2-Hexanone	10	8.15	9.23	8.71	8.96	8.54	8.63	8.00	8.603	0.429	6.746		
CHLOROBENZENE-D5	20	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.000	0.000	0.000		
Chlorobenzene SPCC	1	0.93	0.99	0.93	0.95	0.91	0.89	0.93	0.933	0.031	0.495		
Ethylbenzene CCC	1	1.03	1.04	0.99	1.06	0.99	0.99	1.02	1.017	0.028	0.442		
1,1,1,2-Tetrachloroethane	1	0.90	0.91	0.88	0.96	0.94	0.94	0.92	0.921	0.027	0.430		
m,p-Xylenes	2	2.07	2.08	1.91	2.04	1.91	1.92	1.95	1.983	0.077	1.216		
o-Xylene	1	0.92	0.95	0.93	0.96	0.90	0.91	0.91	0.926	0.022	0.350		
Styrene	1	0.90	0.97	0.87	0.94	0.87	0.90	0.90	0.907	0.036	0.572		
Isopropylbenzene	1	0.98	1.01	0.92	1.01	0.98	0.96	0.96	0.974	0.032	0.496		
4-BROMOFLUOROBENZ	20	19.69	19.57	19.71	20.24	20.04	20.22	20.20	19.953	0.288	4.524		
Bromobenzene	1	0.92	0.92	0.88	0.99	0.92	0.98	0.92	0.933	0.039	0.607		
n-Propylbenzene	1	0.91	0.95	0.89	0.97	0.88	0.95	0.89	0.920	0.036	0.567		
2-Chlorotoluene	1	0.96	0.96	0.90	0.95	0.91	0.95	0.96	0.941	0.025	0.400		
1,3,5-Trimethylbenzene	1	0.93	0.89	0.85	0.94	0.88	0.87	0.92	0.897	0.034	0.527		
1,2,3-Trichloropropane	1	0.94	1.04	0.92	1.06	0.99	1.07	1.02	1.006	0.058	0.916		
trans-1,4-Dichloro-2-buter	1	0.86	0.93	1.04	0.98	1.04	0.84	0.97	0.951	0.080	1.252		
4-Chlorotoluene	1	0.98	0.96	0.93	0.98	0.90	0.94	0.92	0.944	0.030	0.479		
t-Butylbenzene	1	1.06	1.01	0.98	1.06	0.97	1.00	1.05	1.019	0.038	0.598		
1,2,4-Trimethylbenzene	1	0.93	0.93	0.90	0.94	0.89	0.89	0.92	0.914	0.021	0.326		
s-Butylbenzene	1	0.92	0.90	0.88	0.92	0.87	0.90	0.90	0.899	0.019	0.293		
4-Isopropyltoluene	1	0.89	0.89	0.85	0.90	0.83	0.87	0.86	0.870	0.026	0.395		
1,3-Dichlorobenzene	1	1.02	0.99	0.94	1.03	0.93	0.92	0.98	0.973	0.044	0.689		
1,4-DICHLOROBENZENE	20	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.000	0.000	0.000		
Bromoform SPCC	1	0.88	0.97	0.85	0.99	0.90	0.85	0.82	0.894	0.064	1.006		
1,1,2,2-Tetrachloroethane	1	1.05	0.99	1.04	1.02	1.00	1.06	0.97	1.019	0.033	0.525		
1,4-Dichlorobenzene	1	0.96	1.04	0.94	1.00	0.96	0.92	0.89	0.959	0.050	0.783		
n-Butylbenzene	1	0.87	0.88	0.87	0.87	0.77	0.79	0.78	0.833	0.050	0.784		
1,2-Dichlorobenzene	1	0.93	1.04	0.94	1.00	0.88	0.88	0.93	0.943	0.059	0.928		
1,2-Dibromo-3-chloroprop	1	2.12	2.18	1.96	2.15	1.79	1.86	1.94	2.000	0.152	2.385		
1,3,5-Trichlorobenzene	1	0.94	0.97	0.88	0.95	0.86	0.87	0.88	0.907	0.045	0.701		
Hexachlorobutadiene	1	0.87	0.90	0.93	0.99	0.84	0.88	0.92	0.904	0.049	0.764		
1,2,4-Trichlorobenzene	1	1.00	1.00	0.96	0.95	0.87	0.85	0.87	0.927	0.063	0.997		
Naphthalene	1	0.97	1.02	0.96	1.02	0.89	0.92	0.89	0.953	0.055	0.869		
1,2,3-Trichlorobenzene	1	0.98	1.02	0.95	0.94	0.86	0.93	0.95	0.947	0.049	0.768		

checked TC 3/11/10

HL 1250

LL 25

* Minimum 0.2ug/L

Olin OU1 8260 Tier 3 validation 3/11/2010

8260 Low Level MDL calculation check

Compound	MDL 1	MDL 2	MDL 3	MDL 4	MDL 5	MDL 6	MDL 7	average	STDEV
Vinyl Chloride	1.12	1.12	0.96	1.17	1.06	1.22	1.25	1.128571	0.0983918
TCE	0.92	0.93	0.94	0.93	0.92	0.94	0.95	0.932857	0.011127
2,4,4-TMP-2	1.23	1.2	1.22	1.23	1.04	1.1	1.1	1.16	0.0781025

TC

3/11/10

OC RI-02

9 samples in EDD
x 77 compounds

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693 ✓ compounds in EDD
693 ✓

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / II / (III) (circle one) → See Attached Tier 3 check list

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360-24194-1 OCRI-02

LAB #: _____

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES NO NA	
Data completeness ☐ ☐ ☐ All data summaries, QC forms and raw data available from hard copy or electronic data package ☐ ☐ ☐ Data summaries match EDD	Contact lab if missing data. Lab to respond with 24 hours.
Holding Times and Preservation ☑ ☐ ☐ Hold times met (14 days with preservation) ☑ ☐ ☐ Preserved (waters HCL, soils methanol)	Low Level in Vials w/ DI H_2O ✓
Instrument Performance Check (Tune) ☑ ☐ ☐ Tune available for each 12-hour period samples were analyzed ☑ ☐ ☐ Appropriate number of significant figures reported (at least 2) ☑ ☐ ☐ Mass/Charge list (m/z) criteria met	
Initial Calibration ☑ ☐ ☐ %RSD less than or equal to 30% ☐ ☑ ☐ RRF greater than or equal to 0.05 *	1,4-Dioxane Qualified UJ in all samples due to low response (RRF) < 0.05, Professional Judgment used. I-Cals 5/21 & 8/24
Continuing Calibration ☐ ☑ ☐ %D less than or equal to 25% ☑ ☐ ☐ RRF greater than or equal to 0.05. *	→ See attached Form VII
Blank Contamination ☑ ☐ ☐ Method blank contamination ☐ ☑ ☐ Trip blank contamination ☐ ☑ ☐ Equipment/Rinseate blank contamination	Evaluate all blanks for contamination. Highest contaminant level used for action level. → $MeCl_2$ in MB 360-47992 @ 1700 ng/kg No hits in associated samples. No Quals → No Detections in OC-TBK-002 → No Detections in OC-TBK-002

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes	No	N/A	TIER I / II / (III) (circle one)	
			Surrogate Recoveries	
☑	☐	☐	Surrogates percent recovery criteria met (water and soil: 70%-130%)	All w/in limits
			Matrix Spikes and Laboratory Control Samples	
☐	☐	☑	MS/MSD percent recovery criteria met (water and soil: 70%-130%)	Not Reported in this SDG
☐	☐	☑	MS/MSD RPD criteria met (water and soil <30%)	
☐	☑	☐	LCS percent recovery criteria (water and soil: 70%-130%)	See attached Form III : Form IV
			Field Duplicates	
☐	☐	☑	RPD criteria (water <30%, soils <50%) met	Not collected
			Internal Standard	
☑	☐	☐	Area counts within -50 to +100 percent of calib. std.	
☑	☐	☐	Retention Time within 30 seconds of calib. std.	
			Target Compounds	
☑	☐	☐	Reviewed narrative for anomalies	
			Tentatively Identified Compounds (TICs)	
☑	☐	☐	TCL compounds reported as TICs	

Validator's Signature: Liz Lee

Date: 3/23/10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

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REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360-24194-1 OCRI-02
LAB #: TAL-Westfield

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Holding Times and Preservation				
☑	☐	☐	Check the raw data including instrument run and extraction logs to verify reported sample extraction and analysis dates.	
☑	☐	☐	Check the raw data including extraction and instrument run logs to verify reported sample extraction and analysis dates.	
Instrument Performance Check (Tune)				
☑	☐	☐	Compare the reported tuning results on each GC/MS Tuning and Mass Calibration Form with each raw data mass listing and mass spectrum submitted.	Since the spectra are obtained from chromatographic peaks that should be free from coelution problems, background subtraction actions resulting in spectral distortions for the sole purpose of meeting the contract or method specifications are contrary to quality assurance objectives and are, therefore, unacceptable.
☑	☐	☐	Verify that the laboratory has not made any transcription or calculation errors.	
☑	☐	☐	If possible, verify that spectra were generated using appropriate background subtraction techniques.	
Initial Calibration				
☑	☐	☐	Verify that the same instrument parameters were used for sample and calibration analyses, and that the instrument parameters which were utilized met method requirements.	
☑	☐	☐	Check and recalculate the average RRF and RRF for at least one volatile and semivolatile target compound associated with each internal standard.	Verify that the recalculated values agree within 10% of the laboratory reported values. See OC-RI-01 for calculation checks
☑	☐	☐	Check and recalculate the %RSD for at least one volatile and semivolatile target compound associated with each internal standard.	

VOLATILE/SEMIVOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes	No	N/A	TIER III	OCRI-02
TC ☑	☐	☑	Review Standard Preparation Logs (if provided in the data package) to ensure that primary and secondary initial calibration standard concentrations are accurate and traceable to NIST standards.	→ Not provided by Lab Verify that the recalculated values agree within 10% of the laboratory reported values.
TC ☑	☐	☑	Check and recalculate the initial calibration standard concentration for one volatile and one semivolatile target compound (if standards preparation documentation was provided in the data package).	See OCRI-01 → Not provided by Lab
Continuing Calibration				
☑	☐	☐	Verify that the same instrument parameters were used for sample and calibration analyses, and that the instrument parameters which were utilized met method requirements.	
☑	☐	☐	Check and recalculate the RRF for at least one volatile and semivolatile target compound associated with each internal standard.	
☑	☐	☐	Check and recalculate the %D for at least one volatile and semivolatile target compound associated with each internal standard.	Verify that the recalculated values agree within 10% of the laboratory reported values.
☐	☐	☑	Review Standard Preparation Logs (if provided in the data package) to ensure that primary and secondary continuing calibration standard concentrations are accurate and traceable to NIST standards.	Not Provided
☐	☐	☑	Check and recalculate the continuing calibration standard concentration for one volatile and one semivolatile target compound (if standards preparation documentation was provided in the data package).	
Blanks				
☑	☐	☐	Verify from the raw data that the extraction and/or analysis dates and times, sample IDs, file IDs, etc. are accurately reported on the tabulated result forms.	
☑	☐	☐	Verify from the raw data, the Blank Summary form, and Form Is that a VOA instrument blank was analyzed in the same purging/sparging vessel (i.e, same position in the autosampler) as the sample that exceeded the instrument	

VOLATILE/SEMIVOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes	No	N/A	TIER III	
			calibration range.	
☐	☐	☑	Verify from the raw GPC data that a GPC instrument blank was analyzed after the GPC calibration and prior to sample analysis.	
☐	☐	☑	Verify from the raw Silica Gel data that a Silica Gel Column reagent blank was analyzed prior to sample analysis.	
☑	☐	☐	Check 10% of the raw data for each blank to verify that internal standard areas and retention time data, have been correctly transcribed to tabulated forms and that surrogate compound recovery data have been correctly calculated and transcribed to tabulated forms.	Review the blank chromatograms, quantitation reports, and mass spectra to ensure that no false positives or false negatives have been reported.
☑	☐	☐	Review the raw data (chromatograms, mass spectra and quantitation reports) to confirm the presence of target and non-target compounds in the blanks and to evaluate the presence of additional contaminants.	
Surrogates				
☑	☐	☐	Check raw data (e.g., chromatograms and quantitation reports) to verify that surrogate recoveries were reported accurately on the Surrogate Recovery Forms.	
☑	☐	☐	Ten percent of the surrogate compound recovery data should be checked for calculation and/or transcription errors. If errors are detected in this ten percent, then an additional ten percent of the data should be checked. If errors are found I the additional 10%, then all surrogate compound recovery calculations and transcriptions in the data package should be checked.	
Internal Standards				
☑	☐	☐	Check raw data (e.g., chromatograms and quantitation reports) to verify that the internal standard retention times and areas are accurately reported on the tabulated forms.	
Field Duplicates				
☐	☐	☑	Check and recalculate the analytical concentration for at least one positive detect and one sample quantitation limit (for a diluted sample or soil sample) for each fraction, in every field duplicate sample.	Not Reported in this SDG

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes	No	N/A	TIER III	
			MDL Study	
☑	☐	☐	Check and recalculate the %RSD and % recoveries for at least three compounds per MDL study.	Verify that the recalculated values agree within 10% of the laboratory reported values.
☐	☐	☐	Check the standards preparation logs to verify that the stock standard used to prepare the LFB was from a source independent from the initial and continuing calibration standards.	
☑	☐	☐	Check and recalculate % recovery for at least one compound per LFB fraction.	Verify that the recalculated values agree within 10% of the laboratory reported values.
			PE Samples/Accuracy Check	
☑	☐	☐	Check and recalculate the percent recovery for at least one compound per LCS fraction.	Verify that the recalculated values agree within 10% of the laboratory reported values.
☑	☐	☐	Determine what percentage of analytes were below or above PES acceptance criteria.	
☑	☐	☐	Check and recalculate the analytical concentrations for at least one compound per PES fraction.	Verify that the recalculated values agree within 10% of the laboratory reported values.
			Target Compound Identification	
☑	☐	☐	Check that the RRT of a reported compound is within+/- 0.06 RRT units of the standard RRT.	
☑	☐	☐	Compare all sample compound spectra to the laboratory standard spectra and verify that the mass spectral identification criteria are met.	
☑	☐	☐	Check the sample chromatogram to verify that all major peaks of interest are identified as either target compounds, TICs, surrogate compounds, or the internal standards.	
☑	☐	☐	The validator should be aware of situations when sample carryover is a possibility, and should use professional judgment to determine if instrument cross-contamination has affected any compound identification.	

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REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes	No	N/A	TIER III	
Compound Quantitation and Reported Quant Limits				
☑	☐	☐	Recalculate, from the raw data, the concentrations for at least one positive detect and one sample quantitation limit (for a diluted sample or a soil sample) for each fraction, in every field sample to verify that laboratory reported sample results were accurately calculated according to the method.	
☑	☐	☐	Verify that the concentrations for positive detects and sample quantitation limits have been adjusted to reflect sample dilutions, concentrations, cleanup methods and dry weight factors that are not accounted for in the method.	
☑	☐	☐	Verify that the correct internal standard, quantitation ion and standard RRF were used to quantitate sample results for at least one positive detect in each fraction in every field sample.	
Tentatively Identified Compounds				
☑	☐	☐	Verify that the laboratory has generated a library search for all required peaks in the sample and blank chromatograms.	
☑	☐	☐	Verify that a target compound was not missed by the target compound search procedure and erroneously reported as a TIC in the proper analytical fraction.	
☑	☐	☐	Verify that all TICs are reported with estimated (J) concentrations by the laboratory. Verify that TIC concentrations were calculated correctly, assuming a RRF of 1.0 and using the closest eluting IS that is free of interferences.	
☑	☐	☐	Verify that the blanks do not contain any TIC peaks.	
☑	☐	☐	Examine all TIC mass spectra in every sample and blank.	Common lab contaminants: CO2, siloxanes, diethyl ether, hexane,certain freons, and phthalates.
☑	☐	☐	Verify that TICs were reported as unknowns if the TIC spectra presented do not meet criteria set forth in Section XIV B.4.	Solvent preservatives: cyclohexene, cyclohexanone, cyclohexenone, cyclohexanol, cyclohexenol, chlorocyclohexene, and chlorocyclohexanol.
☑	☐	☐	Review blank and sample TIC spectra to ensure that common laboratory artifacts/contaminants are not reported as TICs.	Aldol condensation reaction products.

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REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

N/A

TIER III

SVOC Cleanup

Gel Permeation Chromatography (GPC)

☐	☐	☑	Verify that the GPC system was calibrated initially in accordance with the method requirements and that peak shape and resolution criteria were met.
☐	☐	☑	Confirm from the raw data that the GPC calibration check was performed at the method required frequency.
☐	☐	☑	Verify that a GPC calibration check solution was analyzed in accordance with the method and that the correct target and surrogate compounds, interferents and concentrations were used.
☐	☐	☑	Verify that surrogate compound recoveries and internal standard area counts and/or retention times in the GPC calibration check meet method QC acceptance.
☐	☐	☑	Review the raw GPC calibration check data to verify that peaks are symmetrical and resolution meets method QC acceptance criteria for target and surrogate compounds and interferents in the GPC calibration check solution.
☐	☐	☑	Check the raw GPC calibration check data to verify that retention times for any compounds or interferents in the GPC calibration solution did not vary more than +/-5% between calibrations.
☐	☐	☑	Verify that a GPC instrument blank was analyzed after each GPC calibration and calibration check and prior to sample analysis.
☐	☐	☑	Verify that there are no target compounds present at greater than or equal to the quantitation limit in the GPC instrument blank.
☐	☐	☑	Verify that surrogate compound recoveries and internal standard area counts and/or retention times (if added) in the GPC instrument blank meet method QC acceptance criteria.
☐	☐	☑	Compare the raw data to the reported results, if available, and verify that no calculation and/or transcription errors have occurred. If the result forms are not available, then the validator must review the cleanup logs to confirm that method required cleanups were performed.

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

N/A

TIER III

Silica Gel Cleanup				
☐	☐	☑	Verify that a Silica Gel Check solution was prepared and analyzed in accordance with the method and that the correct target and surrogate compounds, interferents, and concentrations were used.	
☐	☐	☑	Verify that surrogate compound recoveries and internal standard area counts and/or retention times in the Silica Gel Check solution meet method QC acceptance criteria..	
☐	☐	☑	Verify that a Silica Gel column reagent blank was prepared with each cleanup batch and was analyzed after the Silica Gel Check solution but prior to field samples.	
☐	☐	☑	Verify that there are no target compounds present at greater than or equal to the quantitation limit in the Silica Gel column reagent blank.	
☐	☐	☑	Verify that surrogate compound recoveries and internal standard area counts and/or retention times (if added) in the Silica Gel column reagent blank meet method QC acceptance criteria.	
☐	☐	☑	Compare the raw data to the reported results, if available, and verify that no calculation and/or transcription errors have occurred. If the result forms are not available, then the validator must review the cleanup logs to confirm that method required cleanups were performed.	
System Performance				
☑	☐	☐	Evaluate all PES and other relevant QC data to determine if any analytical trends exist over the sample analysis period.	
☑	☐	☐	The validator should ascertain from the PES and other relevant QC data if there is a high or low quantitative bias for a particular compound or group of compounds.	
☑	☐	☐	The validator should ascertain from the PES and other relevant QC data if there is a potential for false negative and/or false positives to be reported.	
☐	☐	☑	The validator should ascertain from the MS/MSD and surrogate spike compound analyses if the sample matrix effects impact compound recovery, thus	

			indicating a method bias outside the control of the laboratory.	
☑	☐	☐	Evaluate sample and QC sample reconstructed ion chromatograms analyzed on all columns to determine if the column chromatography, peak shape,, resolution, and baseline drift has either deteriorated or improved over the sample analysis period.	
☑	☐	☐	The validator should ascertain from the raw data if unacceptable chromatography may contribute to a high or a low quantitative bias for a particular compound or group of compounds.	
☑	☐	☐	The validator should also ascertain from the raw data if unacceptable chromatography may result in a potential for false negative and/or false positive identification.	
☑	☐	☐	The validator should determine if chromatography prolems are a result of the sample matrix or are unique to the instrument.	
☑	☐	☐	The validator should determine if significant retention time shifts have occurred between initial and continuing calibration.	
☑	☐	☐	Compare the daily standard calibration area counts to ascertain if the instrument generated consistent detector responses over the sample analysis period.	
☑	☐	☐	Review the area counts of the internal standards and surrogate compounds for each sample to ascertain if there is a change in detector response.	
☐	☐	☑	The validator should evaluate the MS/MSD RPDs in conjunction with field duplicate RPDs to identify any analytical trends, ascertain if sample matrices were homogenous or heterogeneous, and determine if sampling error may have contributed to field imprecision.	
☑	☐	☐	Review all daily LFBs, low level calibrated standards, and PES data to evaluate sensitivity for each instrument to verify that no instrument has lost its ability to to accurately quantitate and identify compounds at the quantitation limit over the sample analysis period, which could possibly result in false negatives and low biased results.	

VOLATILE/SEMIVOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

☑	☐	☐	Check the area counts of the individual sample, QC sample, calibration and blank internal standards to monitor instrument sensitivity changes.	
☑	☐	☐	Review the sample chromatograms for abrupt, discrete shifts in the chromatographic baseline which may indicate a change in the instrument's sensitivity or the zero setting.	
☑	☐	☐	The validator may determine that instrument sensitivity is adequate but sample matrix effects may preclude obtaining the quantitation limits required by the project DQOs using the analytical method employed.	
☑	☐	☐	Review all blank and sample results to evaluate the possibility of sample contamination introduced via either cross contamination from a previously run sample or from general lab contamination.	
☑	☐	☐	Compare blank analysis on two different instruments to determine if the contamination is instrument related or the interferents are present in the blank from sample processing activities.	
☑	☐	☐	Assess whether problematic blank results are reproducible when replicate aliquots are analyzed or are sporadic interferences.	

Validator's Signature: Tiger Lune

Date: 3/23/10

Reference:

U.S. Environmental Protection Agency (USEPA), 1996. "Test Methods for Evaluating Solid Waste"; Laboratory Manual Physical/Chemical Methods; Office of Solid Waste and Emergency Response; Washington, DC; SW-846; November 1986; Revision 4 -December 1996.

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-421-0.0/1.0-XXX**

Lab Sample ID: 360-24194-1
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 08/19/2009 0740
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-47995		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-47992		Lab File ID:	V44384.D
Dilution:	1.0			Initial Weight/Volume:	8.97 g
Date Analyzed:	08/20/2009 2236			Final Weight/Volume:	10 g
Date Prepared:	08/20/2009 1458				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		58	150
1,1,1-Trichloroethane		ND		58	150
1,1,2,2-Tetrachloroethane		ND	J	58	150
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	J (TC)	58	730
1,1,2-Trichloroethane		ND		58	150
1,1-Dichloroethane		ND		58	150
1,1-Dichloroethene		ND		58	150
1,1-Dichloropropene		ND		58	150
1,2,3-Trichlorobenzene		ND		58	150
1,2,3-Trichloropropane		ND		86	150
1,2,4-Trichlorobenzene		ND		58	150
1,2,4-Trimethylbenzene		ND		58	150
1,2-Dibromo-3-Chloropropane		ND		110	1500
Ethylene Dibromide		ND		58	150
1,2-Dichlorobenzene		ND		58	150
1,2-Dichloroethane		ND		58	150
Acetone		ND	J *	1000	15000
1,2-Dichloropropane		ND		58	150
1,3,5-Trimethylbenzene		ND		58	150
1,3-Dichlorobenzene		ND		58	150
1,3-Dichloropropane		ND		58	150
1,4-Dichlorobenzene		ND		58	150
1,4-Dioxane		ND	J	1900	15000
2,2-Dichloropropane		ND		58	150
2,4,4-Trimethyl-1-pentene		1200		58	290
2,4,4-Trimethyl-2-pentene		610		58	290
2-Chlorotoluene		ND		58	150
2-Hexanone		ND		300	1500
4-Chlorotoluene		ND		58	150
Benzene		ND		58	150
Bromobenzene		ND	J	58	150
Chlorobromomethane		ND		58	150
Dichlorobromomethane		ND		58	150
Bromoform		ND		58	150
Bromomethane		ND		58	290
n-Butylbenzene		ND		58	150
Carbon disulfide		ND		58	150
Carbon tetrachloride		ND		58	150
Chlorobenzene		ND		58	150
Chloroethane		ND	J *	58	290
Chloroform		ND		58	150
Chloromethane		ND		58	290
cis-1,2-Dichloroethene		ND		58	150
cis-1,3-Dichloropropene		ND		58	150
Cyclohexane		ND		150	1500
Chlorodibromomethane		ND	J	58	150

TC

3/24/10

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-421-0.0/1.0-XXX**

Lab Sample ID: 360-24194-1
Client Matrix: Solid % Moisture: 4.7

Date Sampled: 08/19/2009 0740
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-47995		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-47992		Lab File ID:	V44384.D
Dilution:	1.0			Initial Weight/Volume:	8.97 g
Date Analyzed:	08/20/2009 2236			Final Weight/Volume:	10 g
Date Prepared:	08/20/2009 1458				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		58	150
Dichlorodifluoromethane		ND J	*	58	290
Ethyl ether		ND		58	150
Isopropyl ether		ND		58	150
Tert-butyl ethyl ether		ND		150	150
Ethylbenzene		ND		58	150
Hexachlorobutadiene		ND		58	150
Isopropylbenzene		ND		58	150
Methyl acetate		ND		950	2900
2-Butanone (MEK)		ND		390	1500
4-Methyl-2-pentanone (MIBK)		ND		300	1500
Methyl tert-butyl ether		ND		58	150
Methylcyclohexane		ND		58	150
Methylene Chloride		ND		280	580
m-Xylene & p-Xylene		ND		58	290
Naphthalene		ND		58	1500
N-Propylbenzene		ND		58	150
o-Xylene		ND		58	150
4-Isopropyltoluene		ND		58	150
sec-Butylbenzene		ND		58	150
Styrene		ND		58	150
Tert-amyl methyl ether		ND		58	150
tert-Butylbenzene		ND		58	150
Tetrachloroethene		ND		58	150
Tetrahydrofuran		ND		320	1500
Toluene		ND		58	150
trans-1,2-Dichloroethene		ND		58	150
trans-1,3-Dichloropropene		ND		58	150
Trichloroethene		ND		58	150
Trichlorofluoromethane		ND		58	290
Vinyl chloride		ND		58	150

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	113		70 - 130
Toluene-d8 (Surr)	108		70 - 130

TR

3/24/10

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-421-0.0/1.0-XXX**

Lab Sample ID: 360-24194-1
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 08/19/2009 0740
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-47995		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-47992		Lab File ID:	V44384.D
Dilution:	1.0			Initial Weight/Volume:	8.97 g
Date Analyzed:	08/20/2009 2236			Final Weight/Volume:	10 g
Date Prepared:	08/20/2009 1458				

Tentatively Identified Compounds **Number TIC's Found:** 5

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	13.27	540	T J
	Unknown	13.38	12000	T J
	Unknown	13.51	990	T J
	Unknown	13.66	9400	T J
	Unknown	13.78	4600	T J

TC 3/24/10

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-421-10.5/12.5-XXX**

Lab Sample ID: 360-24194-2
Client Matrix: Solid % Moisture: 9.1

Date Sampled: 08/19/2009 0805
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44538.D
Dilution:	1.0			Initial Weight/Volume:	10.43 g
Date Analyzed:	08/27/2009 2214			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		53	130
1,1,1-Trichloroethane		ND		53	130
1,1,2,2-Tetrachloroethane		ND		53	130
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		53	660
1,1,2-Trichloroethane		ND		53	130
1,1-Dichloroethane		ND		53	130
1,1-Dichloroethene		ND		53	130
1,1-Dichloropropene		ND		53	130
1,2,3-Trichlorobenzene		ND		53	130
1,2,3-Trichloropropane		ND		78	130
1,2,4-Trichlorobenzene		ND		53	130
1,2,4-Trimethylbenzene		ND		53	130
1,2-Dibromo-3-Chloropropane		ND		95	1300
Ethylene Dibromide		ND		53	130
1,2-Dichlorobenzene		ND		53	130
1,2-Dichloroethane		ND		53	130
Acetone		ND J	*	950	13000
1,2-Dichloropropane		ND		53	130
1,3,5-Trimethylbenzene		ND		53	130
1,3-Dichlorobenzene		ND		53	130
1,3-Dichloropropane		ND		53	130
1,4-Dichlorobenzene		ND		53	130
1,4-Dioxane		ND J		1700	13000
2,2-Dichloropropane		ND		53	130
2,4,4-Trimethyl-1-pentene		3900 J	*	53	260
2,4,4-Trimethyl-2-pentene		1700		53	260
2-Chlorotoluene		ND		53	130
2-Hexanone		ND		270	1300
4-Chlorotoluene		ND		53	130
Benzene		ND		53	130
Bromobenzene		ND		53	130
Chlorobromomethane		ND		53	130
Dichlorobromomethane		ND		53	130
Bromoform		ND		53	130
Bromomethane		ND		53	260
n-Butylbenzene		ND		53	130
Carbon disulfide		ND		53	130
Carbon tetrachloride		ND		53	130
Chlorobenzene		ND		53	130
Chloroethane		ND		53	260
Chloroform		ND		53	130
Chloromethane		ND		53	260
cis-1,2-Dichloroethene		ND		53	130
cis-1,3-Dichloropropene		ND		53	130
Cyclohexane		ND		140	1300
Chlorodibromomethane		ND		53	130

TC 3/24/10

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-421-10.5/12.5-XXX**

Lab Sample ID: 360-24194-2
Client Matrix: Solid

% Moisture: 9.1

Date Sampled: 08/19/2009 0805
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44538.D
Dilution:	1.0			Initial Weight/Volume:	10.43 g
Date Analyzed:	08/27/2009 2214			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		53	130
Dichlorodifluoromethane		ND		53	260
Ethyl ether		ND		53	130
Isopropyl ether		ND		53	130
Tert-butyl ethyl ether		ND		130	130
Ethylbenzene		3300		53	130
Hexachlorobutadiene		ND		53	130
Isopropylbenzene		ND		53	130
Methyl acetate		ND J		860	2600
2-Butanone (MEK)		ND		360	1300
4-Methyl-2-pentanone (MIBK)		ND		270	1300
Methyl tert-butyl ether		ND		53	130
Methylcyclohexane		ND		53	130
Methylene Chloride		ND J	*	260	530
m-Xylene & p-Xylene		ND		53	260
Naphthalene		120	J	53	1300
N-Propylbenzene		ND		53	130
o-Xylene		ND		53	130
4-Isopropyltoluene		ND		53	130
sec-Butylbenzene		ND		53	130
Styrene		ND		53	130
Tert-amyl methyl ether		ND		53	130
tert-Butylbenzene		ND		53	130
Tetrachloroethene		ND		53	130
Tetrahydrofuran		ND		290	1300
Toluene		ND		53	130
trans-1,2-Dichloroethene		ND		53	130
trans-1,3-Dichloropropene		ND		53	130
Trichloroethene		ND		53	130
Trichlorofluoromethane		ND		53	260
Vinyl chloride		ND		53	130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TC 3/24/10

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-421-10.5/12.5-XXX**

Lab Sample ID: 360-24194-2
Client Matrix: Solid % Moisture: 9.1

Date Sampled: 08/19/2009 0805
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44538.D
Dilution:	1.0			Initial Weight/Volume:	10.43 g
Date Analyzed:	08/27/2009 2214			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Tentatively Identified Compounds **Number TIC's Found:** 6

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	5.42	5000	T J
80-62-6	Methyl methacrylate	6.53	550	
	Unknown	11.42	1000	T J
	Unknown	12.33	480	T J
827-54-3	Naphthalene, 2-ethenyl-	16.12	3500	T J N
101-84-8	Diphenyl ether	16.43	9600	T J N

TC 3/24/10

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-421-8.0/10.0-XXX**

Lab Sample ID: 360-24194-3
Client Matrix: Solid
% Moisture: 7.4

Date Sampled: 08/19/2009 0745
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44486.D
Dilution:	1.0			Initial Weight/Volume:	5.81 g
Date Analyzed:	08/26/2009 0337			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.93	2.3
1,1,1-Trichloroethane		ND		0.93	2.3
1,1,2,2-Tetrachloroethane		ND		0.93	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.93	12
1,1,2-Trichloroethane		ND		0.93	2.3
1,1-Dichloroethane		ND		0.93	2.3
1,1-Dichloroethene		ND		0.93	2.3
1,1-Dichloropropene		ND		0.93	2.3
1,2,3-Trichlorobenzene		ND		0.93	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.93	2.3
1,2,4-Trimethylbenzene		ND		0.93	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.93	2.3
1,2-Dichlorobenzene		ND		0.93	2.3
1,2-Dichloroethane		ND		0.93	2.3
Acetone		ND	J *	17	230
1,2-Dichloropropane		ND		0.93	2.3
1,3,5-Trimethylbenzene		ND		0.93	2.3
1,3-Dichlorobenzene		ND		0.93	2.3
1,3-Dichloropropane		ND		0.93	2.3
1,4-Dichlorobenzene		ND		0.93	2.3
1,4-Dioxane		ND	J	31	230
2,2-Dichloropropane		ND		0.93	2.3
2,4,4-Trimethyl-1-pentene		ND		0.93	4.6
2,4,4-Trimethyl-2-pentene		ND		0.93	4.6
2-Chlorotoluene		ND		0.93	2.3
2-Hexanone		ND		4.8	23
4-Chlorotoluene		ND		0.93	2.3
Benzene		ND		0.93	2.3
Bromobenzene		ND		0.93	2.3
Chlorobromomethane		ND		0.93	2.3
Dichlorobromomethane		ND		0.93	2.3
Bromoform		ND		0.93	2.3
Bromomethane		ND		0.93	4.6
n-Butylbenzene		ND		0.93	2.3
Carbon disulfide		ND		0.93	2.3
Carbon tetrachloride		ND		0.93	2.3
Chlorobenzene		ND		0.93	2.3
Chloroethane		ND		0.93	4.6
Chloroform		ND		0.93	2.3
Chloromethane		ND		0.93	4.6
cis-1,2-Dichloroethene		ND		0.93	2.3
cis-1,3-Dichloropropene		ND		0.93	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.93	2.3

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-421-8.0/10.0-XXX**

Lab Sample ID: 360-24194-3
Client Matrix: Solid

% Moisture: 7.4

Date Sampled: 08/19/2009 0745
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44486.D
Dilution:	1.0			Initial Weight/Volume:	5.81 g
Date Analyzed:	08/26/2009 0337			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.93	2.3
Dichlorodifluoromethane		ND J	*	0.93	4.6
Ethyl ether		ND		0.93	2.3
Isopropyl ether		ND		0.93	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.93	2.3
Hexachlorobutadiene		ND		0.93	2.3
Isopropylbenzene		ND		0.93	2.3
Methyl acetate		ND J		15	46
2-Butanone (MEK)		ND		6.3	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.93	2.3
Methylcyclohexane		ND		0.93	2.3
Methylene Chloride		ND		4.5	9.3
m-Xylene & p-Xylene		ND		0.93	4.6
Naphthalene		ND		0.93	23
N-Propylbenzene		ND		0.93	2.3
o-Xylene		ND		0.93	2.3
4-Isopropyltoluene		ND		0.93	2.3
sec-Butylbenzene		ND		0.93	2.3
Styrene		ND		0.93	2.3
Tert-amyl methyl ether		ND		0.93	2.3
tert-Butylbenzene		ND		0.93	2.3
Tetrachloroethene		ND		0.93	2.3
Tetrahydrofuran		ND		5.1	23
Toluene		ND		0.93	2.3
trans-1,2-Dichloroethene		ND		0.93	2.3
trans-1,3-Dichloropropene		ND		0.93	2.3
Trichloroethene		ND		0.93	2.3
Trichlorofluoromethane		ND		0.93	4.6
Vinyl chloride		ND		0.93	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	94		70 - 130

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-421-8.0/10.0-XXX**

Lab Sample ID: 360-24194-3
Client Matrix: Solid

% Moisture: 7.4

Date Sampled: 08/19/2009 0745
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44486.D
Dilution:	1.0			Initial Weight/Volume:	5.81 g
Date Analyzed:	08/26/2009 0337			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 7

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	13.18	4.2	T J
	Unknown	13.27	13	T J
	Unknown	13.38	420	T J
	Unknown	13.50	30	T J
	Unknown	13.65	300	T J
	Unknown	13.77	180	T J
	Unknown	13.92	11	T J

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: OC-SB-424-0.0/1.0-XXX

Lab Sample ID: 360-24194-4
Client Matrix: Solid

% Moisture: 3.1

Date Sampled: 08/19/2009 1135
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44518.D
Dilution:	1.0			Initial Weight/Volume:	4.52 g
Date Analyzed:	08/26/2009 2312			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.9
1,1,1-Trichloroethane		ND		1.1	2.9
1,1,2,2-Tetrachloroethane		ND		1.1	2.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.9
1,1-Dichloroethane		ND		1.1	2.9
1,1-Dichloroethene		ND		1.1	2.9
1,1-Dichloropropene		ND		1.1	2.9
1,2,3-Trichlorobenzene		ND		1.1	2.9
1,2,3-Trichloropropane		ND		1.7	2.9
1,2,4-Trichlorobenzene		ND		1.1	2.9
1,2,4-Trimethylbenzene		ND		1.1	2.9
1,2-Dibromo-3-Chloropropane		ND		2.1	29
Ethylene Dibromide		ND		1.1	2.9
1,2-Dichlorobenzene		ND		1.1	2.9
1,2-Dichloroethane		ND		1.1	2.9
Acetone		ND J	*	20	290
1,2-Dichloropropane		ND		1.1	2.9
1,3,5-Trimethylbenzene		ND		1.1	2.9
1,3-Dichlorobenzene		ND		1.1	2.9
1,3-Dichloropropane		ND		1.1	2.9
1,4-Dichlorobenzene		ND		1.1	2.9
1,4-Dioxane		ND J		38	290
2,2-Dichloropropane		ND		1.1	2.9
2,4,4-Trimethyl-1-pentene		ND J	*	1.1	5.7
2,4,4-Trimethyl-2-pentene		ND		1.1	5.7
2-Chlorotoluene		ND		1.1	2.9
2-Hexanone		ND		5.9	29
4-Chlorotoluene		ND		1.1	2.9
Benzene		ND		1.1	2.9
Bromobenzene		ND		1.1	2.9
Chlorobromomethane		ND		1.1	2.9
Dichlorobromomethane		ND		1.1	2.9
Bromoform		ND		1.1	2.9
Bromomethane		ND		1.1	5.7
n-Butylbenzene		ND		1.1	2.9
Carbon disulfide		ND		1.1	2.9
Carbon tetrachloride		ND		1.1	2.9
Chlorobenzene		ND		1.1	2.9
Chloroethane		ND		1.1	5.7
Chloroform		ND		1.1	2.9
Chloromethane		ND		1.1	5.7
cis-1,2-Dichloroethene		ND		1.1	2.9
cis-1,3-Dichloropropene		ND		1.1	2.9
Cyclohexane		ND		2.9	29
Chlorodibromomethane		ND		1.1	2.9

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-424-0.0/1.0-XXX**

Lab Sample ID: 360-24194-4
Client Matrix: Solid % Moisture: 3.1

Date Sampled: 08/19/2009 1135
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44518.D
Dilution:	1.0			Initial Weight/Volume:	4.52 g
Date Analyzed:	08/26/2009 2312			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.9
Dichlorodifluoromethane		ND		1.1	5.7
Ethyl ether		ND		1.1	2.9
Isopropyl ether		ND		1.1	2.9
Tert-butyl ethyl ether		ND		2.9	2.9
Ethylbenzene		ND		1.1	2.9
Hexachlorobutadiene		ND		1.1	2.9
Isopropylbenzene		ND		1.1	2.9
Methyl acetate		ND	J	19	57
2-Butanone (MEK)		ND		7.7	29
4-Methyl-2-pentanone (MIBK)		ND		5.9	29
Methyl tert-butyl ether		ND		1.1	2.9
Methylcyclohexane		ND		1.1	2.9
Methylene Chloride		ND		5.5	11
m-Xylene & p-Xylene		ND		1.1	5.7
Naphthalene		ND		1.1	29
N-Propylbenzene		ND		1.1	2.9
o-Xylene		ND		1.1	2.9
4-Isopropyltoluene		ND		1.1	2.9
sec-Butylbenzene		ND		1.1	2.9
Styrene		ND		1.1	2.9
Tert-amyl methyl ether		ND		1.1	2.9
tert-Butylbenzene		ND		1.1	2.9
Tetrachloroethene		ND		1.1	2.9
Tetrahydrofuran		ND		6.3	29
Toluene		ND		1.1	2.9
trans-1,2-Dichloroethene		ND		1.1	2.9
trans-1,3-Dichloropropene		ND		1.1	2.9
Trichloroethene		ND		1.1	2.9
Trichlorofluoromethane		ND		1.1	5.7
Vinyl chloride		ND		1.1	2.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	96		70 - 130

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-424-0.0/1.0-XXX**

Lab Sample ID: 360-24194-4
Client Matrix: Solid % Moisture: 3.1

Date Sampled: 08/19/2009 1135
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44518.D
Dilution:	1.0			Initial Weight/Volume:	4.52 g
Date Analyzed:	08/26/2009 2312			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.69	2.3	T J

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-424-7.0/9.0-XXX**

Lab Sample ID: 360-24194-6
Client Matrix: Solid % Moisture: 6.0

Date Sampled: 08/19/2009 1215
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44487.D
Dilution:	1.0			Initial Weight/Volume:	6.10 g
Date Analyzed:	08/26/2009 0401			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.87	2.2
1,1,1-Trichloroethane		ND		0.87	2.2
1,1,2,2-Tetrachloroethane		ND		0.87	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.87	11
1,1,2-Trichloroethane		ND		0.87	2.2
1,1-Dichloroethane		ND		0.87	2.2
1,1-Dichloroethene		ND		0.87	2.2
1,1-Dichloropropene		ND		0.87	2.2
1,2,3-Trichlorobenzene		ND		0.87	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.87	2.2
1,2,4-Trimethylbenzene		ND		0.87	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.87	2.2
1,2-Dichlorobenzene		ND		0.87	2.2
1,2-Dichloroethane		ND		0.87	2.2
Acetone		ND	J	16	220
1,2-Dichloropropane		ND		0.87	2.2
1,3,5-Trimethylbenzene		ND		0.87	2.2
1,3-Dichlorobenzene		ND		0.87	2.2
1,3-Dichloropropane		ND		0.87	2.2
1,4-Dichlorobenzene		ND		0.87	2.2
1,4-Dioxane		ND	J	29	220
2,2-Dichloropropane		ND		0.87	2.2
2,4,4-Trimethyl-1-pentene		ND		0.87	4.4
2,4,4-Trimethyl-2-pentene		ND		0.87	4.4
2-Chlorotoluene		ND		0.87	2.2
2-Hexanone		ND		4.5	22
4-Chlorotoluene		ND		0.87	2.2
Benzene		ND		0.87	2.2
Bromobenzene		ND		0.87	2.2
Chlorobromomethane		ND		0.87	2.2
Dichlorobromomethane		ND		0.87	2.2
Bromoform		ND		0.87	2.2
Bromomethane		ND		0.87	4.4
n-Butylbenzene		ND		0.87	2.2
Carbon disulfide		ND		0.87	2.2
Carbon tetrachloride		ND		0.87	2.2
Chlorobenzene		ND		0.87	2.2
Chloroethane		ND		0.87	4.4
Chloroform		ND		0.87	2.2
Chloromethane		ND		0.87	4.4
cis-1,2-Dichloroethene		ND		0.87	2.2
cis-1,3-Dichloropropene		ND		0.87	2.2
Cyclohexane		ND		2.2	22
Chlorodibromomethane		ND		0.87	2.2

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: OC-SB-424-7.0/9.0-XXX

Lab Sample ID: 360-24194-6
Client Matrix: Solid

% Moisture: 6.0

Date Sampled: 08/19/2009 1215
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44487.D
Dilution:	1.0			Initial Weight/Volume:	6.10 g
Date Analyzed:	08/26/2009 0401			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.87	2.2
Dichlorodifluoromethane		ND J	*	0.87	4.4
Ethyl ether		ND		0.87	2.2
Isopropyl ether		ND		0.87	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.87	2.2
Hexachlorobutadiene		ND		0.87	2.2
Isopropylbenzene		ND		0.87	2.2
Methyl acetate		ND J		14	44
2-Butanone (MEK)		ND		5.9	22
4-Methyl-2-pentanone (MIBK)		ND		4.5	22
Methyl tert-butyl ether		ND		0.87	2.2
Methylcyclohexane		ND		0.87	2.2
Methylene Chloride		ND		4.2	8.7
m-Xylene & p-Xylene		ND		0.87	4.4
Naphthalene		ND		0.87	22
N-Propylbenzene		ND		0.87	2.2
o-Xylene		ND		0.87	2.2
4-Isopropyltoluene		ND		0.87	2.2
sec-Butylbenzene		ND		0.87	2.2
Styrene		ND		0.87	2.2
Tert-amyl methyl ether		ND		0.87	2.2
tert-Butylbenzene		ND		0.87	2.2
Tetrachloroethene		ND		0.87	2.2
Tetrahydrofuran		ND		4.8	22
Toluene		ND		0.87	2.2
trans-1,2-Dichloroethene		ND		0.87	2.2
trans-1,3-Dichloropropene		ND		0.87	2.2
Trichloroethene		ND		0.87	2.2
Trichlorofluoromethane		ND		0.87	4.4
Vinyl chloride		ND		0.87	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	92		70 - 130

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-424-7.0/9.0-XXX**

Lab Sample ID: 360-24194-6
Client Matrix: Solid % Moisture: 6.0

Date Sampled: 08/19/2009 1215
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44487.D
Dilution:	1.0			Initial Weight/Volume:	6.10 g
Date Analyzed:	08/26/2009 0401			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	13.37	20	T J
	Unknown	13.65	15	T J
	Unknown	13.77	9.1	T J

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: OC-SB-425-0.0/1.0-XXX

Lab Sample ID: 360-24194-7
Client Matrix: Solid

% Moisture: 2.9

Date Sampled: 08/19/2009 0955
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-47995		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-47992		Lab File ID:	V44388.D
Dilution:	1.0			Initial Weight/Volume:	9.62 g
Date Analyzed:	08/21/2009 0011			Final Weight/Volume:	10 g
Date Prepared:	08/20/2009 1458				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		54	130
1,1,1-Trichloroethane		ND		54	130
1,1,2,2-Tetrachloroethane		ND J		54	130
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		54	670
1,1,2-Trichloroethane		ND		54	130
1,1-Dichloroethane		ND		54	130
1,1-Dichloroethene		ND		54	130
1,1-Dichloropropene		ND		54	130
1,2,3-Trichlorobenzene		ND		54	130
1,2,3-Trichloropropane		ND		79	130
1,2,4-Trichlorobenzene		ND		54	130
1,2,4-Trimethylbenzene		ND		54	130
1,2-Dibromo-3-Chloropropane		ND		96	1300
Ethylene Dibromide		ND		54	130
1,2-Dichlorobenzene		ND		54	130
1,2-Dichloroethane		ND		54	130
Acetone		ND J	*	960	13000
1,2-Dichloropropane		ND		54	130
1,3,5-Trimethylbenzene		ND		54	130
1,3-Dichlorobenzene		ND		54	130
1,3-Dichloropropane		ND		54	130
1,4-Dichlorobenzene		ND		54	130
1,4-Dioxane		ND J		1800	13000
2,2-Dichloropropane		ND		54	130
2,4,4-Trimethyl-1-pentene		1100		54	270
2,4,4-Trimethyl-2-pentene		440		54	270
2-Chlorotoluene		ND		54	130
2-Hexanone		ND		280	1300
4-Chlorotoluene		ND		54	130
Benzene		ND		54	130
Bromobenzene		ND J		54	130
Chlorobromomethane		ND		54	130
Dichlorobromomethane		ND		54	130
Bromoform		ND		54	130
Bromomethane		ND		54	270
n-Butylbenzene		ND		54	130
Carbon disulfide		ND		54	130
Carbon tetrachloride		ND		54	130
Chlorobenzene		ND		54	130
Chloroethane		ND J	*	54	270
Chloroform		ND		54	130
Chloromethane		ND		54	270
cis-1,2-Dichloroethene		ND		54	130
cis-1,3-Dichloropropene		ND		54	130
Cyclohexane		ND		140	1300
Chlorodibromomethane		ND J		54	130

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-425-0.0/1.0-XXX**

Lab Sample ID: 360-24194-7
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 08/19/2009 0955
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-47995		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-47992		Lab File ID:	V44388.D
Dilution:	1.0			Initial Weight/Volume:	9.62 g
Date Analyzed:	08/21/2009 0011			Final Weight/Volume:	10 g
Date Prepared:	08/20/2009 1458				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		54	130
Dichlorodifluoromethane		ND J	*	54	270
Ethyl ether		ND		54	130
Isopropyl ether		ND		54	130
Tert-butyl ethyl ether		ND		130	130
Ethylbenzene		ND		54	130
Hexachlorobutadiene		ND		54	130
Isopropylbenzene		ND		54	130
Methyl acetate		ND		870	2700
2-Butanone (MEK)		ND		360	1300
4-Methyl-2-pentanone (MIBK)		ND		280	1300
Methyl tert-butyl ether		ND		54	130
Methylcyclohexane		ND		54	130
Methylene Chloride		ND		260	540
m-Xylene & p-Xylene		ND		54	270
Naphthalene		ND		54	1300
N-Propylbenzene		ND		54	130
o-Xylene		ND		54	130
4-Isopropyltoluene		ND		54	130
sec-Butylbenzene		ND		54	130
Styrene		ND		54	130
Tert-amyl methyl ether		ND		54	130
tert-Butylbenzene		ND		54	130
Tetrachloroethene		ND		54	130
Tetrahydrofuran		ND		290	1300
Toluene		ND		54	130
trans-1,2-Dichloroethene		ND		54	130
trans-1,3-Dichloropropene		ND		54	130
Trichloroethene		ND		54	130
Trichlorofluoromethane		ND		54	270
Vinyl chloride		ND		54	130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		70 - 130
Dibromofluoromethane	112		70 - 130
Toluene-d8 (Surr)	112		70 - 130

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-425-0.0/1.0-XXX**

Lab Sample ID: 360-24194-7
Client Matrix: Solid % Moisture: 2.9

Date Sampled: 08/19/2009 0955
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-47995		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-47992		Lab File ID:	V44388.D
Dilution:	1.0			Initial Weight/Volume:	9.62 g
Date Analyzed:	08/21/2009 0011			Final Weight/Volume:	10 g
Date Prepared:	08/20/2009 1458				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-425-6.0/8.0-XXX**

Lab Sample ID: 360-24194-9
Client Matrix: Solid % Moisture: 8.4

Date Sampled: 08/19/2009 1005
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44488.D
Dilution:	1.0			Initial Weight/Volume:	5.03 g
Date Analyzed:	08/26/2009 0425			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		2.0	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J *	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-425-6.0/8.0-XXX**

Lab Sample ID: 360-24194-9
Client Matrix: Solid % Moisture: 8.4

Date Sampled: 08/19/2009 1005
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44488.D
Dilution:	1.0			Initial Weight/Volume:	5.03 g
Date Analyzed:	08/26/2009 0425			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND J		18	54
2-Butanone (MEK)		ND		7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.3	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	96		70 - 130

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-SB-425-6.0/8.0-XXX**

Lab Sample ID: 360-24194-9
Client Matrix: Solid % Moisture: 8.4

Date Sampled: 08/19/2009 1005
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44488.D
Dilution:	1.0			Initial Weight/Volume:	5.03 g
Date Analyzed:	08/26/2009 0425			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 6

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	12.83	22	T J
	Unknown	13.38	320	T J
	Unknown	13.50	24	T J
	Unknown	13.65	230	T J
	Unknown	13.77	150	T J
	Unknown	13.91	9.5	T J

3/24/10 TC

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-TBK-002**

Lab Sample ID: 360-24194-10
Client Matrix: Solid

Date Sampled: 08/19/2009 1400
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44519.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	08/26/2009 2338			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND	*	1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-TBK-002**

Lab Sample ID: 360-24194-10
Client Matrix: Solid

Date Sampled: 08/19/2009 1400
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44519.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	08/26/2009 2338			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND		1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	107		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-TBK-002**

Lab Sample ID: 360-24194-10
Client Matrix: Solid

Date Sampled: 08/19/2009 1400
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44519.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	08/26/2009 2338			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-EBK-002**

Lab Sample ID: 360-24194-12
Client Matrix: Water

Date Sampled: 08/19/2009 0930
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 08/26/2009 2058
Date Prepared: 08/26/2009 2058

Analysis Batch: 360-48228

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06433.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND	*	0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND	*	0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	ND		0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-EBK-002**

Lab Sample ID: 360-24194-12
Client Matrix: Water

Date Sampled: 08/19/2009 0930
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48228		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06433.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	08/26/2009 2058			Final Weight/Volume:	5 mL
Date Prepared:	08/26/2009 2058				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND		0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	87		70 - 130
Dibromofluoromethane	122		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Olin Corporation

Job Number: 360-24194-1
Sdg Number: OCRI-02

Client Sample ID: **OC-EBK-002**

Lab Sample ID: 360-24194-12
Client Matrix: Water

Date Sampled: 08/19/2009 0930
Date Received: 08/19/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48228		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06433.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	08/26/2009 2058			Final Weight/Volume:	5 mL
Date Prepared:	08/26/2009 2058				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Tier 3 calculation checks

SDG OCRI-02 360-24194-1

Initial Calibration

Initial Calibration's used in SDG OCRI-02 (360-24194-1) were used in OCRI-01. See Validation documentation in OCRI-01 for Calculation checks.

Note: RRF for 1,4-Dioxane were < 0.05, however %RSD was < 30% for initial calibrations analyzed on 5/21/09 & 8/24/09. Pro Judgement was used to UJ all results for 1,4-Dioxane in samples reported in SDG OCRI-02. There were no detections in samples in SDG OCRI-02.

Continuing Calibrations

- Date: 8-20-2009 @ 1611 See OCRI-01 (360-24194-1) for calculation checks for Tier 3.
- Date: 8-25-2009 @ 2359 " "
- Date 8-26-2009 @ 1703 see attached cal check on Quant sheet
- Date 8-24-2009 @ 1726 see attached cal check on Quant sheet

Sample checks

see Quant reports attached

OC-SB-421-0.0/1.0-XXX
OC-SB-421-10.5/12.5-XXX
OC-SB-421-8.0/10.0-XXX
OC-SB-424-0.0/1.0-XXX → Surrogate calc check done
OC-SB-424-7.0/9.0-XXX → Surrogate check
OC-SB-425-0.0/1.0-XXX
OC-SB-425-6.0/8.0-XXX → Surrogate check

Tier 3 Calculation Checks

LCS

Checked & recalculated one compound per LCS

- LCS 360-47992
- LCS 360-48150
- LCS 360-48229
- LCS 360-48289

LCS 360-47992

Report Date: 21-Aug-2009 08:39:48 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090820-1.b\V44369.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
31 Ethyl acetate	43	5.181	5.177	0.004	1260873	180.4	
32 Carbon tetrachloride	117	5.181	5.182	-0.001	283561	19.3	
33 Tetrahydrofuran	42	5.201	5.203	-0.002	440406	177.6	
34 sec-Butyl Alcohol	45	5.212	5.213	-0.001	609215	887.3	
$ 35 Dibromofluoromethane	113	5.227	5.223	0.004	215444	21.5	
36 1,1,1-Trichloroethane	97	5.248	5.249	-0.001	373581	18.2	
37 2-Butanone (MEK)	43	5.341	5.342	-0.001	521004	151.5	
38 1,1-Dichloropropene	75	5.351	5.352	-0.001	325506	18.3	
39 n-Heptane	43	5.522	5.523	-0.001	504281	18.1	
40 Benzene	78	5.563	5.564	-0.001	951349	18.5	
41 Tert-amyl methyl ether	73	5.656	5.657	-0.001	493166	16.6	
* 42 1,2-Dichloroethane-d4 ISTD	102	5.682	5.678	0.004	41290	20.0	
43 1,2-Dichloroethane	62	5.739	5.735	0.004	200284	18.3	
* 44 Fluorobenzene	96	5.909	5.911	-0.002	850807	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.925	5.926	-0.001	204762	16.0	
46 Isopropyl acetate	43	5.935	5.936	-0.001	2653630	185.0	
47 Methylcyclohexane	83	6.028	6.029	-0.001	472092	18.5	
48 Trichloroethene	95	6.039	6.040	-0.001	248389	20.4	
49 2,4,4-Trimethyl-2-pentene	112	6.070	6.066	0.004	168811	20.8	
50 Dibromomethane	93	6.385	6.386	-0.001	92330	20.2	
51 1,2-Dichloropropane	63	6.468	6.469	-0.001	182901	17.7	
52 Dichlorobromomethane	83	6.509	6.510	-0.001	242698	20.4	
53 Methyl methacrylate	69	6.633	6.634	-0.001	56479	19.7	
54 1,4-Dioxane	88	6.669	6.681	-0.012	7799	162.8	
55 n-Propyl acetate	43	6.742	6.743	-0.001	1536473	196.2	
56 2-Chloroethyl vinyl ether	63	6.959	6.960	-0.001	210133	163.0	
57 cis-1,3-Dichloropropene	75	7.010	7.011	-0.001	257081	20.3	
$ 58 Toluene-d8 (Surr)	98	7.155	7.156	-0.001	794451	22.9	
59 Toluene	92	7.196	7.197	-0.001	554658	20.6	
60 Tetrachloroethene	164	7.486	7.487	-0.001	175004	24.1	
61 4-Methyl-2-pentanone (MIBK)	43	7.486	7.487	-0.001	1131855	159.5	
62 trans-1,3-Dichloropropene	75	7.512	7.513	-0.001	185045	21.1	
63 Isobutyl acetate	43	7.574	7.569	0.005	3502053	178.1	
64 1,1,2-Trichloroethane	83	7.636	7.637	-0.001	89534	19.4	
65 Chlorodibromomethane	129	7.775	7.776	-0.001	130631	23.9	
66 1,3-Dichloropropane	76	7.847	7.848	-0.001	177902	19.3	
67 Ethylene Dibromide	107	7.961	7.962	-0.001	108031	22.9	
68 n-Butyl acetate	43	8.044	8.045	-0.001	1889008	185.3	
69 2-Hexanone	43	8.126	8.128	-0.002	663226	158.2	
* 70 Chlorobenzene-d5	117	8.349	8.350	-0.001	588854	20.0	
71 Chlorobenzene	112	8.359	8.365	-0.006	569509	18.0	
72 Ethylbenzene	91	8.375	8.376	-0.001	1021734	16.2	
73 1,1,1,2-Tetrachloroethane	131	8.406	8.407	-0.001	192553	17.5	
74 m-Xylene & p-Xylene	91	8.488	8.489	-0.001	1566433	33.0	
75 o-Xylene	91	8.819	8.820	-0.001	865559	16.0	
76 Styrene	104	8.860	8.861	-0.001	626028	17.7	
77 Bromoform	173	8.886	8.882	0.004	77059	19.1	
78 Isopropylbenzene	105	9.057	9.058	-0.001	1146667	16.6	
$ 80 4-Bromofluorobenzene	95	9.279	9.280	-0.001	283477	18.3	
81 Bromobenzene	77	9.367	9.368	-0.001	368143	14.7	
82 N-Propylbenzene	91	9.377	9.378	-0.001	1275174	15.8	
83 1,1,2,2-Tetrachloroethane	83	9.429	9.430	-0.001	126861	14.2	

LCS check

0.6316

~~.6775~~ = 554658 (22)

850807 (X)

~~19.24~~

20.64 ug/L

TC 3/24/10

LCS 360-48150

Report Date: 26-Aug-2009 09:31:35 Chrom Revision: 1.0.2009.729
Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44478.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
32 Carbon tetrachloride	117	5.170	5.169	0.001	161657	20.0	
33 Tetrahydrofuran	42	5.191	5.189	0.002	228588	209.3	
34 sec-Butyl Alcohol	45	5.206	5.200	0.006	303218	981.8	
$ 35 Dibromofluoromethane	113	5.211	5.215	-0.004	112953	19.3	
36 1,1,1-Trichloroethane	97	5.232	5.231	0.001	206554	18.6	
37 2-Butanone (MEK)	43	5.330	5.329	0.001	259667	176.3	
38 1,1-Dichloropropene	75	5.335	5.334	0.001	169697	19.6	
39 n-Heptane	43	5.511	5.510	0.001	239923	19.7	
40 Benzene	78	5.552	5.551	0.001	504313	19.0	
41 Tert-amyl methyl ether	73	5.645	5.644	0.001	286987	20.6	
* 42 1,2-Dichloroethane-d4 ISTD	102	5.666	5.665	0.001	20560	20.0	
43 1,2-Dichloroethane	62	5.723	5.722	0.001	106068	19.6	
* 44 Fluorobenzene	96	5.894	5.892	0.002	450876	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.919	5.918	0.001	116287	23.0	
46 Isopropyl acetate	43	5.925	5.923	0.002	1293755	201.5	
47 Methylcyclohexane	83	6.018	6.016	0.002	241663	18.7	
48 Trichloroethene	95	6.028	6.026	0.002	129854	19.6	
49 2,4,4-Trimethyl-2-pentene	112	6.059	6.052	0.007	92738	21.3	
50 Dibromomethane	93	6.369	6.368	0.001	47843	19.0	
51 1,2-Dichloropropane	63	6.452	6.455	-0.003	93773	22.9	
52 Dichlorobromomethane	83	6.498	6.497	0.001	126048	19.8	
53 Methyl methacrylate	69	6.622	6.621	0.001	27234	20.4	
54 1,4-Dioxane	88	6.669	6.667	0.002	4354	201.0	
55 n-Propyl acetate	43	6.731	6.729	0.002	696837	215.0	
56 2-Chloroethyl vinyl ether	63	6.948	6.946	0.002	200234	202.2	
57 cis-1,3-Dichloropropene	75	6.994	6.993	0.001	124948	18.7	
$ 58 Toluene-d8 (Surr)	98	7.139	7.143	-0.004	392735	19.5	
59 Toluene	92	7.180	7.179	0.001	292170	19.1 .6775	
60 Tetrachloroethene	164	7.475	7.473	0.002	91989	19.5 6316	
61 4-Methyl-2-pentanone (MIBK)	43	7.475	7.473	0.002	592709	195.7	
62 trans-1,3-Dichloropropene	75	7.501	7.499	0.002	89467	18.7 (TC)	
63 Isobutyl acetate	43	7.558	7.561	-0.003	1793734	214.0	
64 1,1,2-Trichloroethane	83	7.625	7.623	0.002	45679	18.6	
65 Chlorodibromomethane	129	7.759	7.763	-0.004	68392	18.7	
66 1,3-Dichloropropane	76	7.837	7.835	0.002	87361	18.2	
67 Ethylene Dibromide	107	7.950	7.954	-0.004	55936	18.8	
68 n-Butyl acetate	43	8.033	8.032	0.001	901314	202.6	
69 2-Hexanone	43	8.116	8.114	0.002	328789	168.7	
* 70 Chlorobenzene-d5	117	8.338	8.337	0.002	287968	20.0	
71 Chlorobenzene	112	8.348	8.352	-0.004	313035	20.1	
72 Ethylbenzene	91	8.364	8.368	-0.004	561046	21.2	
73 1,1,1,2-Tetrachloroethane	131	8.395	8.399	-0.003	111978	20.4	
74 m-Xylene & p-Xylene	91	8.477	8.476	0.001	868050	43.1	
75 o-Xylene	91	8.808	8.807	0.001	497753	19.9	
76 Styrene	104	8.850	8.848	0.002	362524	20.0	
77 Bromoform	173	8.875	8.874	0.001	43401	19.5	
78 Isopropylbenzene	105	9.046	9.050	-0.004	668324	20.7	
$ 80 4-Bromofluorobenzene	95	9.273	9.272	0.001	143215	19.7	
81 Bromobenzene	77	9.356	9.360	-0.004	220964	19.9	
82 N-Propylbenzene	91	9.366	9.370	-0.004	756815	20.8	
83 1,1,2,2-Tetrachloroethane	83	9.423	9.422	0.001	76337	19.7	
84 2-Chlorotoluene	91	9.496	9.499	-0.003	498805	20.2	

Toluene

292170 (20)
450876 (X)

~~20.5~~ (TC)

19.12

96% Rec

LCS 360-48229

Report Date: 27-Aug-2009 08:28:30 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\V44504.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
32 Carbon tetrachloride	117	5.179	5.179	0.000	171538	21.3	
33 Tetrahydrofuran	42	5.200	5.200	0.000	225764	208.1	
34 sec-Butyl Alcohol	45	5.210	5.210	0.000	294642	960.6	
$ 35 Dibromofluoromethane	113	5.220	5.221	-0.001	112535	19.4	
36 1,1,1-Trichloroethane	97	5.246	5.246	0.000	226217	20.5	
37 2-Butanone (MEK)	43	5.339	5.339	0.000	253585	173.3	
38 1,1-Dichloropropene	75	5.344	5.345	-0.001	178721	20.7	
39 n-Heptane	43	5.520	5.520	0.000	279374	23.1	
40 Benzene	78	5.561	5.562	-0.001	502554	19.1	
41 Tert-amyl methyl ether	73	5.654	5.655	-0.001	289120	20.9	
* 42 1,2-Dichloroethane-d4 ISTD	102	5.675	5.675	0.000	21631	20.0	
43 1,2-Dichloroethane	62	5.732	5.732	0.000	104066	19.4	
* 44 Fluorobenzene	96	5.902	5.903	-0.001	447786	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.928	5.929	-0.001	132560	26.5	
46 Isopropyl acetate	43	5.933	5.934	-0.001	1307199	205.0	
47 Methylcyclohexane	83	6.026	6.027	-0.001	277811	21.7	
48 Trichloroethene	95	6.037	6.037	0.000	130318	19.8	
49 2,4,4-Trimethyl-2-pentene	112	6.068	6.068	0.000	103127	23.8	
50 Dibromomethane	93	6.383	6.383	0.000	47140	18.9	
51 1,2-Dichloropropane	63	6.466	6.466	0.000	96420	23.8	
52 Dichlorobromomethane	83	6.507	6.507	0.000	123899	19.6	
53 Methyl methacrylate	69	6.631	6.631	0.000	27440	20.7	
54 1,4-Dioxane	88	6.678	6.668	0.010	4703	206.4	
55 n-Propyl acetate	43	6.740	6.740	0.000	671805	208.7	
56 2-Chloroethyl vinyl ether	63	6.957	6.957	0.000	194507	197.9	
57 cis-1,3-Dichloropropene	75	7.003	7.009	-0.006	123538	18.6	
$ 58 Toluene-d8 (Surr)	98	7.153	7.153	0.000	391210	19.6	
59 Toluene	92	7.189	7.190	-0.001	293229	19.3	
60 Tetrachloroethene	164	7.484	7.484	0.000	93218	19.9	
61 4-Methyl-2-pentanone (MIBK)	43	7.484	7.484	0.000	592063	196.9	
62 trans-1,3-Dichloropropene	75	7.510	7.510	0.000	87796	18.5	
63 Isobutyl acetate	43	7.567	7.567	-0.001	1814932	218.1	
64 1,1,2-Trichloroethane	83	7.634	7.634	0.000	44064	18.1	
65 Chlorodibromomethane	129	7.768	7.774	-0.006	65889	18.1	
66 1,3-Dichloropropane	76	7.846	7.846	0.000	87859	18.4	
67 Ethylene Dibromide	107	7.959	7.960	-0.001	53449	18.0	
68 n-Butyl acetate	43	8.042	8.042	0.000	890768	201.6	
69 2-Hexanone	43	8.125	8.125	0.000	321430	166.0	
* 70 Chlorobenzene-d5	117	8.347	8.347	0.000	272552	20.0	
71 Chlorobenzene	112	8.357	8.363	-0.006	306462	20.8	
72 Ethylbenzene	91	8.373	8.373	0.000	564474	22.6	
73 1,1,1,2-Tetrachloroethane	131	8.404	8.409	-0.005	111503	21.5	
74 m-Xylene & p-Xylene	91	8.486	8.487	-0.001	870809	45.7	
75 o-Xylene	91	8.817	8.817	0.000	498731	21.1	
76 Styrene	104	8.858	8.859	-0.001	352684	20.6	
77 Bromoform	173	8.884	8.885	-0.001	41053	19.3	
78 Isopropylbenzene	105	9.055	9.060	-0.005	690310	22.5	
$ 80 4-Bromofluorobenzene	95	9.282	9.283	-0.001	139674	20.3	
81 Bromobenzene	77	9.365	9.370	-0.005	220266	20.9	
82 N-Propylbenzene	91	9.375	9.376	-0.001	777547	22.6	
83 1,1,2,2-Tetrachloroethane	83	9.432	9.432	0.000	76134	20.5	
84 2-Chlorotoluene	91	9.504	9.505	-0.001	496944	21.2	

T3 check

Toluene

0.6775 = 293229(20) / 447786 (X)

19.331 ug/L

3/24/10 TC

LCS 3604828 9

Report Date: 28-Aug-2009 08:54:01 Chrom Revision: 1.0.2009.827

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\V44527.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
32 Carbon tetrachloride	117	5.165	5.168	-0.003	172313	20.5	
33 Tetrahydrofuran	42	5.186	5.189	-0.003	207277	182.3	
34 sec-Butyl Alcohol	45	5.201	5.199	0.002	287666	897.2	
$ 35 Dibromofluoromethane	113	5.212	5.210	0.002	119932	19.7	
36 1,1,1-Trichloroethane	97	5.232	5.236	-0.004	228361	19.8	
37 2-Butanone (MEK)	43	5.330	5.329	0.001	238840	156.2	
38 1,1-Dichloropropene	75	5.336	5.334	0.002	181547	20.2	
39 n-Heptane	43	5.506	5.509	-0.003	300871	23.8	
40 Benzene	78	5.547	5.551	-0.004	498057	18.1	
41 Tert-amyl methyl ether	73	5.646	5.644	0.002	273433	18.8	
* 42 1,2-Dichloroethane-d4 ISTD	102	5.666	5.670	-0.004	21258	20.0	
43 1,2-Dichloroethane	62	5.723	5.726	-0.003	99414	17.7	
* 44 Fluorobenzene	96	5.894	5.897	-0.003	468086	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.914	5.918	-0.004	139812	26.8	
46 Isopropyl acetate	43	5.920	5.923	-0.003	1269847	190.5	
47 Methylcyclohexane	83	6.018	6.021	-0.003	307403	22.9	
48 Trichloroethene	95	6.023	6.026	-0.003	129381	18.8	
49 2,4,4-Trimethyl-2-pentene	112	6.054	6.057	-0.003	113065	25.0	
50 Dibromomethane	93	6.369	6.372	-0.003	44146	16.9	
51 1,2-Dichloropropane	63	6.452	6.455	-0.003	91013	21.2	
52 Dichlorobromomethane	83	6.493	6.497	-0.003	117365	17.7	
53 Methyl methacrylate	69	6.622	6.621	0.001	24352	17.5	
54 1,4-Dioxane	88	6.664	6.672	-0.008	3723	166.3	M
55 n-Propyl acetate	43	6.731	6.734	-0.003	640883	190.5	
56 2-Chloroethyl vinyl ether	63	6.943	6.946	-0.003	183895	179.1	
57 cis-1,3-Dichloropropene	75	6.995	6.998	-0.004	116466	16.8	
$ 58 Toluene-d8 (Surr)	98	7.139	7.142	-0.003	405269	19.4	
59 Toluene	92	7.181	7.184	-0.003	283039	17.8	
60 Tetrachloroethene	164	7.475	7.473	0.002	93249	19.1	
61 4-Methyl-2-pentanone (MIBK)	43	7.475	7.478	-0.003	542044	170.8	
62 trans-1,3-Dichloropropene	75	7.501	7.504	-0.003	81556	16.4	
63 Isobutyl acetate	43	7.558	7.561	-0.003	1748304	200.9	
64 1,1,2-Trichloroethane	83	7.625	7.628	-0.003	40817	16.0	
65 Chlorodibromomethane	129	7.759	7.763	-0.004	62553	16.5	
66 1,3-Dichloropropane	76	7.837	7.840	-0.003	79310	15.9	
67 Ethylene Dibromide	107	7.951	7.954	-0.003	49084	15.9	
68 n-Butyl acetate	43	8.033	8.031	0.002	844140	182.9	
69 2-Hexanone	43	8.116	8.114	0.002	287578	142.1	
* 70 Chlorobenzene-d5	117	8.338	8.336	0.002	288080	20.0	
71 Chlorobenzene	112	8.348	8.352	-0.004	296930	19.0	
72 Ethylbenzene	91	8.364	8.367	-0.003	558207	21.1	
73 1,1,1,2-Tetrachloroethane	131	8.395	8.398	-0.003	108799	19.8	
74 m-Xylene & p-Xylene	91	8.478	8.476	0.002	858566	42.6	
75 o-Xylene	91	8.808	8.812	-0.004	497891	19.9	
76 Styrene	104	8.850	8.853	-0.003	337634	18.6	
77 Bromoform	173	8.870	8.874	-0.004	39454	17.2	
78 Isopropylbenzene	105	9.046	9.049	-0.003	696585	21.5	
$ 80 4-Bromofluorobenzene	95	9.268	9.272	-0.004	146480	20.1	
81 Bromobenzene	77	9.356	9.360	-0.004	214003	19.2	
82 N-Propylbenzene	91	9.367	9.370	-0.003	777347	21.3	
83 1,1,2,2-Tetrachloroethane	83	9.423	9.422	0.001	68800	17.2	
84 2-Chlorotoluene	91	9.496	9.499	-0.003	495200	20.0	

Toluene

0.6705 = 283039 (20)
468086 (X)

17.85 / 20 =

89%

GC/MS VOA Worksheet

Batch Number: 360-47992
Method: 5035
Analyst: Rouleau, Catherine M

Date Open: Aug 20 2009 2:58PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample
LCS~360-47992/1		5035, 8260B		10 g	10 g
LCSD~360-47992/2		5035, 8260B		10 g	10 g
MB~360-47992/3		5035, 8260B		10 g	10 g
360-24173-A-1	OC-SB-405-0.0/1.0-XXX		T	10.11 g	10 g
360-24173-A-3	OC-SB-405-8.0/9.0-XXX		T	11.82 g	10 g
360-24173-A-4	OC-SB-416-0.0/1.0-XXX		T	9.17 g	10 g
360-24173-A-6	OC-SB-416-8.0/9.0-XXX		T	12.66 g	10 g
360-24173-A-7	OC-TBK-001		T	10.00 g	10 g
360-24173-A-9	OC-SB-412-0.0/1.0-XXX		T	9.01 g	10 g
360-24173-A-11	OC-SB-412-6.0/7.0-XXX		T	10.55 g	10 g
360-24173-A-12	OC-SB-420-0.0/1.0-XXX		T	9.05 g	10 g
360-24173-A-14	OC-SB-420-6.5/8.5-XXX		T	12.16 g	10 g
360-24173-A-15	OC-SB-423-0.0/1.0-XXX		T	9.96 g	10 g
360-24173-A-17	OC-SB-423-5.0/6.0-XXX		T	10.90 g	10 g
360-24194-A-1	OC-SB-421-0.0/1.0-XXX	5035, 8260B	T	8.97 g	10 g
360-24194-A-3	OC-SB-421-8.0/10.0-XXX		T	11.00 g	10 g
360-24194-A-4	OC-SB-424-0.0/1.0-XXX		T	8.87 g	10 g
360-24194-A-6	OC-SB-424-7.0/9.0-XXX		T	10.89 g	10 g
360-24194-A-7	OC-SB-425-0.0/1.0-XXX	5035, 8260B	T	9.62 g	10 g
360-24194-A-9	OC-SB-425-6.0/8.0-XXX		T	9.12 g	10 g
360-24194-A-10	OC-TBK-002		T	10.00 g	10 g

3/23/10 TC

Sample = OCSB-421-0.0/1.0-XXX

Report Date: 21-Aug-2009 09:58:14 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090820-1.b\V44384.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 42 1,2-Dichloroethane-d4 ISTD	102	5.666	5.678	-0.012	28409	20.0	
43 1,2-Dichloroethane	62		5.735				1
* 44 Fluorobenzene	96	5.899	5.911	-0.012	630857	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.919	5.926	-0.007	39945	4.20	
47 Methylcyclohexane	83		6.029				1
48 Trichloroethene	95		6.040				1
49 2,4,4-Trimethyl-2-pentene	112	6.059	6.066	-0.007	12570	2.09	
50 Dibromomethane	93		6.386				1
51 1,2-Dichloropropane	63		6.469				1
52 Dichlorobromomethane	83		6.510				1
54 1,4-Dioxane	88		6.681				1
57 cis-1,3-Dichloropropene	75		7.011				1
$ 58 Toluene-d8 (Surr)	98	7.144	7.156	-0.012	555929	21.6	
59 Toluene	92		7.197				1
60 Tetrachloroethene	164		7.487				1
61 4-Methyl-2-pentanone (MIBK)	43		7.487				1
62 trans-1,3-Dichloropropene	75		7.513				1
64 1,1,2-Trichloroethane	83		7.637				1
65 Chlorodibromomethane	129		7.776				1
66 1,3-Dichloropropane	76		7.848				1
67 Ethylene Dibromide	107		7.962				1
69 2-Hexanone	43		8.128				1
* 70 Chlorobenzene-d5	117	8.338	8.350	-0.012	401738	20.0	
71 Chlorobenzene	112		8.365				1
72 Ethylbenzene	91		8.376				1
73 1,1,1,2-Tetrachloroethane	131		8.407				1
74 m-Xylene & p-Xylene	91		8.489				7
75 o-Xylene	91		8.820				1
76 Styrene	104		8.861				479
77 Bromoform	173		8.882				1
78 Isopropylbenzene	105		9.058				1
$ 80 4-Bromofluorobenzene	95	9.273	9.280	-0.007	204594	19.3	
81 Bromobenzene	77		9.368				1
82 N-Propylbenzene	91		9.378				1
83 1,1,2,2-Tetrachloroethane	83		9.430				1
84 2-Chlorotoluene	91		9.507				7
85 1,3,5-Trimethylbenzene	105		9.528				1
86 1,2,3-Trichloropropane	110		9.549				1
88 4-Chlorotoluene	91		9.637				1
89 tert-Butylbenzene	119		9.781				1
90 1,2,4-Trimethylbenzene	105		9.833				1
91 sec-Butylbenzene	105		9.921				1
92 4-Isopropyltoluene	119		10.029				1
93 1,3-Dichlorobenzene	146		10.102				479
* 94 1,4-Dichlorobenzene-d4	152	10.152	10.159	-0.007	206810	20.0	
95 1,4-Dichlorobenzene	146		10.169				479
96 n-Butylbenzene	91		10.376				1
97 1,2-Dichlorobenzene	146		10.531				1
98 1,2-Dibromo-3-Chloropropane	157		11.311				1
100 Hexachlorobutadiene	225		12.065				1
101 1,2,4-Trichlorobenzene	180		12.112				1
102 Naphthalene	128		12.582				7

~~Area of 5ug/L std = 31647~~ ~~Linear Regression used~~ (TC)

2.09 x 29.2 = 61.1 ug/kg ✓ok

$\frac{4.20 \text{ ug/L} \times 25 \text{ mL} \times 10 \text{ mL}}{0.1 \text{ mL} \times 8.97 \text{ g} \times .953} = 1.228 \text{ ug/kg}$

1200 ug/kg

TC ✓

3/23/10

.3014 = 39945(20) / 630852(X) = 4.20

$\frac{0.5 \text{ ug/L} \times 25 \text{ mL} \times 10 \text{ mL}}{0.1 \text{ mL} \times 8.97 \text{ g} \times .958} = 145 \text{ ug/kg}$

150 ✓

TC

3/23/10

Detection Limit check

OC-SB-421-10.5/12.5-XXX

Report Date: 28-Aug-2009 09:14:28 Chrom Revision: 1.0.2009.827

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\V44538.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 42 1,2-Dichloroethane-d4 ISTD	102	5.659	5.670	-0.011	21220	20.0	
43 1,2-Dichloroethane	62		5.726				1
* 44 Fluorobenzene	96	5.887	5.897	-0.010	445430	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.907	5.918	-0.011	74766	14.8	
47 Methylcyclohexane	83		6.021				1
48 Trichloroethene	95		6.026				1
49 2,4,4-Trimethyl-2-pentene	112	6.047	6.057	-0.010	28473	6.52	
50 Dibromomethane	93		6.372				1
51 1,2-Dichloropropane	63		6.455				1
52 Dichlorobromomethane	83		6.497				1
54 1,4-Dioxane	88		6.672				1
57 cis-1,3-Dichloropropene	75		6.998				1
$ 58 Toluene-d8 (Surr)	98	7.137	7.142	-0.005	388291	19.5	
59 Toluene	92		7.184				1
60 Tetrachloroethene	164		7.473				1
61 4-Methyl-2-pentanone (MIBK)	43		7.478				1
62 trans-1,3-Dichloropropene	75		7.504				1
64 1,1,2-Trichloroethane	83		7.628				1
65 Chlorodibromomethane	129		7.763				1
66 1,3-Dichloropropane	76		7.840				1
67 Ethylene Dibromide	107		7.954				1
69 2-Hexanone	43		8.114				1
* 70 Chlorobenzene-d5	117	8.331	8.336	-0.005	284238	20.0	
71 Chlorobenzene	112		8.352				1
72 Ethylbenzene	91	8.362	8.367	-0.005	339881	12.6	
73 1,1,1,2-Tetrachloroethane	131		8.398				1
74 m-Xylene & p-Xylene	91		8.476				1
75 o-Xylene	91		8.812				1
76 Styrene	104		8.853				7
77 Bromoform	173		8.874				1
78 Isopropylbenzene	105		9.049				1
$ 80 4-Bromofluorobenzene	95	9.266	9.272	-0.006	141337	19.7	
81 Bromobenzene	77		9.360				1
82 N-Propylbenzene	91		9.370				1
83 1,1,2,2-Tetrachloroethane	83		9.422				1
84 2-Chlorotoluene	91		9.499				1
85 1,3,5-Trimethylbenzene	105		9.520				1
86 1,2,3-Trichloropropane	110		9.540				1
88 4-Chlorotoluene	91		9.628				1
89 tert-Butylbenzene	119		9.773				1
90 1,2,4-Trimethylbenzene	105		9.825				1
91 sec-Butylbenzene	105		9.912				1
92 4-Isopropyltoluene	119		10.021				1
93 1,3-Dichlorobenzene	146		10.088				479
* 94 1,4-Dichlorobenzene-d4	152	10.140	10.150	-0.010	152101	20.0	
95 1,4-Dichlorobenzene	146		10.161				479
96 n-Butylbenzene	91		10.367				1
97 1,2-Dichlorobenzene	146		10.517				1
98 1,2-Dibromo-3-Chloropropane	157		11.297				1
100 Hexachlorobutadiene	225		12.052				1
101 1,2,4-Trichlorobenzene	180		12.098				1
102 Naphthalene	128	12.558	12.569	-0.011	4946	0.4556	

RL check

$\frac{.5\,ug/L \times 25mls \times 10mls}{0.1mls \times 10.43g \times .909} = 131.8\,ug/kg$ OK ✓

$1.4276 = \frac{4946 \times 20}{152101\,(X)} = .4555\,ug/L$

$\frac{.455 \times 25mL \times 10mls}{0.1mls \times 10.43g \times .909} = 1119.9$ 120ug/kg OK

OC-SB-421-8.0/10.0-XXX

Report Date: 26-Aug-2009 09:51:37 Chrom Revision: 1.0.2009.729

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44486.D		
Lims ID:	360-24194-C-3-A	Client ID:	OC-SB-421-8.0/10.0-XXX
Inject. Date:	26-Aug-2009 03:37:30	Dil. Factor:	1.0000
Sample Type:	Client Sample		
Sample ID:	360-24194-C-3-A		
Misc. Info.:	360-0000960-011		
Operator:	CR	Instrument ID:	HP #1 GC/MS
Vol. Injected:	1.0000	ALS Bottle#:	33
Lims Batch ID:	48159	Lims Sample ID:	11
Detector:	MS SCAN		

Method:	\\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m		
Last Update:	26-Aug-2009 09:38:14	Calib Date:	24-Aug-2009 20:37:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D		
Limit Group:	VMS - 8260 VOA Calibration		
Integrator:	RTE		
Process Host:	WESVOAJESS		

Reviewed By: rouleauc Date: 26-Aug-2009 09:51:37

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.639				1
2 Chloromethane	50		1.820				1
3 Vinyl chloride	62		1.918				1
4 Bromomethane	94		2.275				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.874				1
8 1,1-Dichloroethene	96		3.065				1
10 Carbon disulfide	76	3.076	3.081	-0.005	2624	0.1135	
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.143				1
14 Methylene Chloride	84	3.639	3.634	0.005	19172	0.1467	
15 Acetone	43		3.691				7
16 trans-1,2-Dichloroethene	61		3.784				1
17 Methyl acetate	43		3.809				1
19 Methyl tert-butyl ether	73		3.892				1
21 Isopropyl ether	45		4.238				1
22 1,1-Dichloroethane	63		4.347				1
24 Tert-butyl ethyl ether	59		4.559				1
26 cis-1,2-Dichloroethene	61		4.817				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.988				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
32 Carbon tetrachloride	117		5.169				1
33 Tetrahydrofuran	42		5.189				
$ 35 Dibromofluoromethane	113	5.215	5.215	0.000	105356	20.6	
36 1,1,1-Trichloroethane	97		5.231				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
40 Benzene	78		5.551				7
41 Tert-amyl methyl ether	73		5.644				1

RL Check

$\frac{0.5 ug/L \times 25 mls}{5.81g \times .926} = 2.32 ug/kg$

OC-SB-424-0.0/1.0-XXX

Report Date: 27-Aug-2009 09:17:37 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\V44518.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 42 1,2-Dichloroethane-d4 ISTD	102	5.675	5.675	0.000	21883	20.0	
43 1,2-Dichloroethane	62		5.732				479
* 44 Fluorobenzene	96	5.903	5.903	0.000	454980	20.0	
45 2,4,4-Trimethyl-1-pentene	55		5.929				
47 Methylcyclohexane	83		6.027				1
48 Trichloroethene	95		6.037				1
49 2,4,4-Trimethyl-2-pentene	112		6.068				1
50 Dibromomethane	93		6.383				1
51 1,2-Dichloropropane	63		6.466				1
52 Dichlorobromomethane	83		6.507				1
54 1,4-Dioxane	88		6.668				1
57 cis-1,3-Dichloropropene	75		7.009				1
$ 58 Toluene-d8 (Surr)	98	7.148	7.153	-0.005	388989	19.2	
59 Toluene	92		7.190				1
60 Tetrachloroethene	164		7.484				1
61 4-Methyl-2-pentanone (MIBK)	43		7.484				1
62 trans-1,3-Dichloropropene	75		7.510				1
64 1,1,2-Trichloroethane	83		7.634				1
65 Chlorodibromomethane	129		7.774				1
66 1,3-Dichloropropane	76		7.846				1
67 Ethylene Dibromide	107		7.960				1
69 2-Hexanone	43		8.125				1
* 70 Chlorobenzene-d5	117	8.342	8.347	-0.005	291976	20.0	
71 Chlorobenzene	112		8.363				1
72 Ethylbenzene	91		8.373				1
73 1,1,1,2-Tetrachloroethane	131		8.409				1
74 m-Xylene & p-Xylene	91		8.487				1
75 o-Xylene	91		8.817				1
76 Styrene	104		8.859				1
77 Bromoform	173		8.885				1
78 Isopropylbenzene	105		9.060				1
$ 80 4-Bromofluorobenzene	95	9.277	9.283	-0.006	142194	19.2	
81 Bromobenzene	77		9.370				1
82 N-Propylbenzene	91		9.376				1
83 1,1,2,2-Tetrachloroethane	83		9.432				1
84 2-Chlorotoluene	91		9.505				7
85 1,3,5-Trimethylbenzene	105		9.531				1
86 1,2,3-Trichloropropane	110		9.546				1
88 4-Chlorotoluene	91		9.639				1
89 tert-Butylbenzene	119		9.779				1
90 1,2,4-Trimethylbenzene	105		9.836				1
91 sec-Butylbenzene	105		9.918				1
92 4-Isopropyltoluene	119		10.027				1
93 1,3-Dichlorobenzene	146		10.099				479
* 94 1,4-Dichlorobenzene-d4	152	10.156	10.156	0.000	159325	20.0	
95 1,4-Dichlorobenzene	146		10.171				479
96 n-Butylbenzene	91		10.373				1
97 1,2-Dichlorobenzene	146		10.528				1
98 1,2-Dibromo-3-Chloropropane	157		11.314				1
100 Hexachlorobutadiene	225		12.068				1
101 1,2,4-Trichlorobenzene	180		12.115				1
102 Naphthalene	128		12.590				1

Surrogate check

.8925 = $\frac{388989 \times 20}{454980\ (X)}$ = 19.158 ug/kg ✓

RL check

$\frac{.5\text{mg/L} \times 25\text{mls}}{4.52\text{g} \times .969}$ = 2.85

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44487.D		
Lims ID:	360-24194-C-6-A	Client ID:	OC-SB-424-7.0/9.0-XXX
Inject. Date:	26-Aug-2009 04:01:30	Dil. Factor:	1.0000
Sample Type:	Client Sample		
Sample ID:	360-24194-C-6-A		
Misc. Info.:	360-0000960-012		
Operator:	CR	Instrument ID:	HP #1 GC/MS
Vol. Injected:	1.0000	ALS Bottle#:	34
Lims Batch ID:	48159	Lims Sample ID:	12
Detector:	MS SCAN		
Method:	\\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m		
Last Update:	26-Aug-2009 09:38:14	Calib Date:	24-Aug-2009 20:37:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D		
Limit Group:	VMS - 8260 VOA Calibration		
Integrator:	RTE		
Process Host:	WESVOAJESS		
Reviewed By:	rouleauc	Date:	26-Aug-2009 09:53:23

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.639				1
2 Chloromethane	50		1.820				1
3 Vinyl chloride	62		1.918				1
4 Bromomethane	94		2.275				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.874				1
8 1,1-Dichloroethene	96		3.065				1
10 Carbon disulfide	76		3.081				7
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.143				1
14 Methylene Chloride	84		3.634				7
15 Acetone	43		3.691				7
16 trans-1,2-Dichloroethene	61		3.784				1
17 Methyl acetate	43		3.809				1
19 Methyl tert-butyl ether	73		3.892				1
21 Isopropyl ether	45		4.238				1
22 1,1-Dichloroethane	63		4.347				1
24 Tert-butyl ethyl ether	59		4.559				1
26 cis-1,2-Dichloroethene	61		4.817				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.988				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
32 Carbon tetrachloride	117		5.169				1
33 Tetrahydrofuran	42		5.189				
$ 35 Dibromofluoromethane	113	5.210	5.215	-0.005	111887	20.7	
36 1,1,1-Trichloroethane	97		5.231				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
40 Benzene	78		5.551				79
41 Tert-amyl methyl ether	73		5.644				1

DL check

$\frac{.5\,ug/L \times 25\,mL}{6.1\,g \times .94} = 2.2$

Surrogate check

$.259 = \frac{111887 \times 20}{416991\ (x)} = 20\frac{1}{1}.719$

104% Rec

TC
3/23/10

OC-SB-425-0.0/1.0-XXX

Report Date: 21-Aug-2009 10:06:56 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090820-1.b\V44388.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
41 Tert-amyl methyl ether	73		5.657				1
* 42 1,2-Dichloroethane-d4 ISTD	102	5.673	5.678	-0.005	35061	20.0	
43 1,2-Dichloroethane	62		5.735				1
* 44 Fluorobenzene	96	5.900	5.911	-0.011	739343	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.921	5.926	-0.005	45263	4.06	
47 Methylcyclohexane	83		6.029				1
48 Trichloroethene	95		6.040				1
49 2,4,4-Trimethyl-2-pentene	112	6.061	6.066	-0.005	11455	1.63	
50 Dibromomethane	93		6.386				1
51 1,2-Dichloropropane	63		6.469				479
52 Dichlorobromomethane	83		6.510				1
54 1,4-Dioxane	88		6.681				1
57 cis-1,3-Dichloropropene	75		7.011				1
$ 58 Toluene-d8 (Surr)	98	7.146	7.156	-0.010	674897	22.4	
59 Toluene	92		7.197				1
60 Tetrachloroethene	164		7.487				1
61 4-Methyl-2-pentanone (MIBK)	43		7.487				1
62 trans-1,3-Dichloropropene	75		7.513				1
64 1,1,2-Trichloroethane	83		7.637				1
65 Chlorodibromomethane	129		7.776				1
66 1,3-Dichloropropane	76		7.848				1
67 Ethylene Dibromide	107		7.962				1
69 2-Hexanone	43		8.128				1
* 70 Chlorobenzene-d5	117	8.340	8.350	-0.010	509399	20.0	
71 Chlorobenzene	112		8.365				1
72 Ethylbenzene	91		8.376				1
73 1,1,1,2-Tetrachloroethane	131		8.407				1
74 m-Xylene & p-Xylene	91		8.489				7
75 o-Xylene	91		8.820				1
76 Styrene	104		8.861				7
77 Bromoform	173		8.882				1
78 Isopropylbenzene	105		9.058				1
$ 80 4-Bromofluorobenzene	95	9.275	9.280	-0.005	246687	18.4	
81 Bromobenzene	77		9.368				1
82 N-Propylbenzene	91		9.378				1
83 1,1,2,2-Tetrachloroethane	83		9.430				1
84 2-Chlorotoluene	91		9.507				1
85 1,3,5-Trimethylbenzene	105		9.528				1
86 1,2,3-Trichloropropane	110		9.549				1
88 4-Chlorotoluene	91		9.637				1
89 tert-Butylbenzene	119		9.781				1
90 1,2,4-Trimethylbenzene	105		9.833				1
91 sec-Butylbenzene	105		9.921				1
92 4-Isopropyltoluene	119		10.029				1
93 1,3-Dichlorobenzene	146		10.102				479
* 94 1,4-Dichlorobenzene-d4	152	10.153	10.159	-0.006	254879	20.0	
95 1,4-Dichlorobenzene	146		10.169				479
96 n-Butylbenzene	91		10.376				1
97 1,2-Dichlorobenzene	146		10.531				1
98 1,2-Dibromo-3-Chloropropane	157		11.311				1
100 Hexachlorobutadiene	225		12.065				1
101 1,2,4-Trichlorobenzene	180		12.112				479

$.384 = \frac{45263\ (20)}{739343\ (X)} \times \frac{25\text{mls} \times 10\text{mls}}{0.1\text{mls} \times 9.1 \times .971} = 1087.$ mg/kg

1100 ✓

TC

3/23/10

RL check

$\frac{25\text{mls} \times 10\text{mls}}{1\text{ml} \times 9.02 \times .971} : 267 \times 7.5 = 130\text{mg/kg}$

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44488.D
Lims ID: 360-24194-C-9-A Client ID: OC-SB-425-6.0/8.0-XXX
Inject. Date: 26-Aug-2009 04:25:30 Dil. Factor: 1.0000
Sample Type: Client Sample
Sample ID: 360-24194-C-9-A
Misc. Info.: 360-0000960-013
Operator: CR Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000 ALS Bottle#: 35
Lims Batch ID: 48159 Lims Sample ID: 13
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m
Last Update: 26-Aug-2009 09:38:14 Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc Date: 26-Aug-2009 09:55:46

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.639				1
2 Chloromethane	50		1.820				1
3 Vinyl chloride	62		1.918				1
4 Bromomethane	94		2.275				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.874				1
8 1,1-Dichloroethene	96		3.065				1
10 Carbon disulfide	76		3.081				1
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.143				1
14 Methylene Chloride	84	3.639	3.634	0.005	20474	0.3080	
15 Acetone	43		3.691				7
16 trans-1,2-Dichloroethene	61		3.784				1
17 Methyl acetate	43		3.809				1
19 Methyl tert-butyl ether	73		3.892				1
21 Isopropyl ether	45		4.238				1
22 1,1-Dichloroethane	63		4.347				1
24 Tert-butyl ethyl ether	59		4.559				1
26 cis-1,2-Dichloroethene	61		4.817				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.988				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
32 Carbon tetrachloride	117		5.169				1
33 Tetrahydrofuran	42		5.189				
$ 35 Dibromofluoromethane	113	5.216	5.215	0.001	107621	20.7	
36 1,1,1-Trichloroethane	97		5.231				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
40 Benzene	78		5.551				7
41 Tert-amyl methyl ether	73		5.644				1

RL check

$\frac{.5\ mg/L \times 25.0}{5.03 \times .916} = 2.71\ ug/kg$

$0.2595 = \frac{107621 \times 20}{401683\ (X)} = 20.64\ ug/kg$

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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Lin1		0.3185		80.5	100	-19.5	30.0	
Chloromethane	Lin		0.6163	0.1000	105	100	5.0	30.0	
Vinyl chloride	Lin		0.4966		114	100	14.2	30.0	
Bromomethane	Lin		0.3408		119	100	19.2	30.0	
Chloroethane	Lin		0.2747		116	100	16.2	30.0	
Trichlorofluoromethane	Lin		0.5399		123	100	22.5	30.0	
Ethyl ether	Ave	0.1998	0.1939		97.1	100	-2.9	30.0	
1,1-Dichloroethene	Lin		0.3745		118	100	18.5	30.0	
Carbon disulfide	Ave	1.172	1.267		108	100	8.1	30.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2479		123	100	23.1	30.0	
Acrolein	Lin1		0.5439		5400	5000	8.1	30.0	
Methylene Chloride	Lin		0.4442		135	100	35.2*	30.0	*
Acetone	Qua		0.0317		539	1000	-46.1*	30.0	**
trans-1,2-Dichloroethene	Ave	0.5280	0.5291		100	100	0.2	30.0	
Methyl acetate	Lin		0.1085		771	1000	-22.9	30.0	
Methyl tert-butyl ether	Lin		0.5479		100	100	0.2	30.0	
2-Methyl-2-propanol	Lin1		0.2589		1020	1000	1.8	30.0	
Isopropyl ether	Ave	1.438	1.368		95.1	100	-4.9	30.0	
1,1-Dichloroethane	Lin		0.6061	0.1000	111	100	10.8	30.0	
Acrylonitrile	Lin2		0.0506		98.6	100	-1.4	30.0	
Tert-butyl ethyl ether	Lin		0.8849		105	100	4.9	30.0	
Vinyl acetate	Lin1		0.3114		1000	1000	0.1	30.0	
cis-1,2-Dichloroethene	Ave	0.4581	0.4686		102	100	2.3	30.0	
2,2-Dichloropropane	Qua		0.4611		113	100	12.6	30.0	
Chlorobromomethane	Ave	0.1791	0.1703		95.1	100	-4.9	30.0	
Cyclohexane	Ave	0.6383	0.6885		108	100	7.9	30.0	
Chloroform	Lin		0.5459		106	100	6.2	30.0	
Carbon tetrachloride	Ave	0.3593	0.4289		119	100	19.3	30.0	
Tetrahydrofuran	Lin1		0.0493		1020	1000	1.7	30.0	
1,1,1-Trichloroethane	Ave	0.4934	0.5271		107	100	6.8	30.0	
2-Butanone (MEK)	Ave	0.0653	0.0531		813	1000	-18.7	30.0	
1,1-Dichloropropene	Ave	0.3849	0.4270		111	100	10.9	30.0	
Benzene	Ave	1.175	1.190		101	100	1.3	30.0	
Tert-amyl methyl ether	Lin		0.6404		103	100	3.5	30.0	
1,2-Dichloroethane	Ave	0.2398	0.2374		99.0	100	-1.0	30.0	
2,4,4-Trimethyl-1-pentene	Lin1		0.3042		136	100	36.3*	30.0	*
Methylcyclohexane	Ave	0.5730	0.6256		109	100	9.2	30.0	
Trichloroethene	Ave	0.2943	0.3095		105	100	5.2	30.0	
2,4,4-Trimethyl-2-pentene	Lin1		0.2507		130	100	29.7	30.0	
Dibromomethane	Ave	0.1115	0.1095		98.2	100	-1.8	30.0	

* J Qual detects only in associated samples TC
** J/UJ detects/non-detects in associated samples

3/22/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2172		120	100	20.1	30.0
Dichlorobromomethane	Ave	0.2830	0.2959		105	100	4.6	30.0
Methyl methacrylate	Ave	0.0593	0.0596		100	100	0.4	30.0
1,4-Dioxane	Ave	0.0211	0.0238		1130	1000	12.9	30.0
2-Chloroethyl vinyl ether	Lin1		0.0457		1040	1000	4.0	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.3015		102	100	1.7	30.0
Toluene	Ave	0.6775	0.7042		104	100	3.9	30.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1246		924	1000	-7.6	30.0
Tetrachloroethene	Ave	0.2090	0.2387		114	100	14.2	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.2257		106	100	6.3	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.1083		99.4	100	-0.6	30.0
Chlorodibromomethane	Ave	0.1624	0.1640		101	100	1.0	30.0
1,3-Dichloropropane	Ave	0.2134	0.2176		102	100	2.0	30.0
Ethylene Dibromide	Ave	0.1323	0.1370		104	100	3.6	30.0
2-Hexanone	Ave	0.0865	0.0728		842	1000	-15.8	30.0
Chlorobenzene	Ave	1.083	1.142	0.3000	106	100	5.5	30.0
Ethylbenzene	Lin		2.057		112	100	12.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3851		101	100	1.0	30.0
m-Xylene & p-Xylene	Lin1		1.586		227	200	13.4	30.0
o-Xylene	Ave	1.735	1.765		102	100	1.7	30.0
Styrene	Ave	1.258	1.318		105	100	4.8	30.0
Bromoform	Ave	0.2952	0.3166	0.1000	107	100	7.3	30.0
Isopropylbenzene	Ave	2.247	2.440		109	100	8.6	30.0
Bromobenzene	Ave	0.7726	0.7757		100	100	0.4	30.0
N-Propylbenzene	Ave	2.529	2.794		110	100	10.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5123	0.3000	99.3	100	-0.7	30.0
2-Chlorotoluene	Ave	1.717	1.772		103	100	3.2	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.983		106	100	5.5	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0707		103	100	3.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0702		96.7	100	-3.3	30.0
4-Chlorotoluene	Ave	1.492	1.571		105	100	5.3	30.0
tert-Butylbenzene	Ave	1.551	1.727		111	100	11.3	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.952		100	100	0.0	30.0
sec-Butylbenzene	Ave	2.541	2.791		110	100	9.9	30.0
4-Isopropyltoluene	Ave	2.050	2.298		112	100	12.1	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9764		99.5	100	-0.5	30.0
1,4-Dichlorobenzene	Ave	1.821	1.930		106	100	6.0	30.0
n-Butylbenzene	Ave	3.711	4.335		117	100	16.8	30.0
1,2-Dichlorobenzene	Ave	1.574	1.619		103	100	2.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0817		99.0	100	-1.0	30.0
Hexachlorobutadiene	Ave	0.5157	0.5799		112	100	12.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.146		107	100	6.6	30.0
Naphthalene	Ave	1.428	1.359		95.2	100	-4.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.8481		105	100	5.0	30.0
Dibromofluoromethane	Ave	0.2595	0.2484		95.7	100	-4.3	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.9048		101	100	1.4	30.0
4-Bromofluorobenzene	Ave	0.5061	0.4900		96.8	100	-3.2	30.0

TC

3/22/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-48159/2 Calibration Date: 08/25/2009 23:59

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44477.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4041		20.5	20.0	2.7	30.0
Chloromethane	Lin		0.6128	0.1000	20.9	20.0	4.4	30.0
Vinyl chloride	Lin		0.4702		21.5	20.0	7.6	20.0
Bromomethane	Lin		0.3112		21.5	20.0	7.7	30.0
Chloroethane	Lin		0.2614		22.0	20.0	9.8	30.0
Trichlorofluoromethane	Lin		0.4631		20.8	20.0	4.0	30.0
Ethyl ether	Ave	0.1998	0.1846		18.5	20.0	-7.6	30.0
1,1-Dichloroethene	Lin		0.3266		20.5	20.0	2.3	20.0
Carbon disulfide	Ave	1.172	1.100		18.8	20.0	-6.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2105		20.7	20.0	3.3	30.0
Acrolein	Lin1		0.5359		1060	1000	6.5	30.0
Methylene Chloride	Lin		0.3844		23.0	20.0	14.8	30.0
Acetone	Qua		0.0465		178	200	-11.0	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.4929		18.7	20.0	-6.7	30.0
Methyl acetate	Lin		0.0964		135	200	-32.5*	30.0
Methyl tert-butyl ether	Lin		0.5472		20.0	20.0	0.1	30.0
2-Methyl-2-propanol	Lin1		0.2647		208	200	4.2	30.0
Isopropyl ether	Ave	1.438	1.332		18.5	20.0	-7.4	30.0
1,1-Dichloroethane	Lin		0.5631	0.1000	20.5	20.0	2.5	30.0
Acrylonitrile	Lin2		0.0468		18.2	20.0	-8.9	30.0
Tert-butyl ethyl ether	Lin		0.8672		20.5	20.0	2.6	30.0
Vinyl acetate	Lin1		0.3550		228	200	14.0	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4311		18.8	20.0	-5.9	30.0
2,2-Dichloropropane	Qua		0.3768		18.0	20.0	-10.0	30.0
Cyclohexane	Ave	0.6383	0.5736		18.0	20.0	-10.1	30.0
Chlorobromomethane	Ave	0.1791	0.1635		18.3	20.0	-8.7	30.0
Chloroform	Lin		0.5032		19.5	20.0	-2.4	20.0
Carbon tetrachloride	Ave	0.3593	0.3469		19.3	20.0	-3.5	30.0
Tetrahydrofuran	Lin1		0.0480		198	200	-1.0	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4641		18.8	20.0	-5.9	30.0
2-Butanone (MEK)	Ave	0.0653	0.0634		194	200	-3.0	30.0
1,1-Dichloropropene	Ave	0.3849	0.3803		19.8	20.0	-1.2	30.0
Benzene	Ave	1.175	1.105		18.8	20.0	-5.9	30.0
Tert-amyl methyl ether	Lin		0.6295		20.3	20.0	1.6	30.0
1,2-Dichloroethane	Ave	0.2398	0.2267		18.9	20.0	-5.5	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2391		21.3	20.0	6.6	30.0
Methylcyclohexane	Ave	0.5730	0.5265		18.4	20.0	-8.1	30.0
Trichloroethene	Ave	0.2943	0.2888		19.6	20.0	-1.9	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1988		20.5	20.0	2.7	30.0
Dibromomethane	Ave	0.1115	0.1059		19.0	20.0	-5.0	30.0

Samples: Lab # 3, 6, 9

TC 3/22/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-48159/2 Calibration Date: 08/25/2009 23:59

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44477.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2066		22.7	20.0	13.6	20.0
Dichlorobromomethane	Ave	0.2830	0.2700		19.1	20.0	-4.6	30.0
Methyl methacrylate	Ave	0.0593	0.0558		18.8	20.0	-5.9	30.0
1,4-Dioxane	Ave	0.0211	0.0232		220	200	10.1	30.0
2-Chloroethyl vinyl ether	Lin1		0.0474		216	200	7.8	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2841		19.2	20.0	-4.2	30.0
Toluene	Ave	0.6775	0.6531		19.3	20.0	-3.6	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1429		214	200	7.0	30.0
Tetrachloroethene	Ave	0.2090	0.2040		19.5	20.0	-2.4	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1990		18.7	20.0	-6.3	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.1019		18.7	20.0	-6.5	30.0
Chlorodibromomethane	Ave	0.1624	0.1574		19.4	20.0	-3.1	30.0
1,3-Dichloropropane	Ave	0.2134	0.2022		18.9	20.0	-5.3	30.0
Ethylene Dibromide	Ave	0.1323	0.1259		19.0	20.0	-4.8	30.0
2-Hexanone	Ave	0.0865	0.0820		190	200	-5.2	30.0
Chlorobenzene	Ave	1.083	1.090	0.3000	20.1	20.0	0.6	30.0
Ethylbenzene	Lin		1.957		21.3	20.0	6.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3793		19.9	20.0	-0.5	30.0
m-Xylene & p-Xylene	Lin1		1.507		43.1	40.0	7.7	30.0
o-Xylene	Ave	1.735	1.719		19.8	20.0	-1.0	30.0
Styrene	Ave	1.258	1.264		20.1	20.0	0.5	30.0
Bromoform	Ave	0.2952	0.2849	0.1000	19.3	20.0	-3.5	20.0
Isopropylbenzene	Ave	2.247	2.324		20.7	20.0	3.4	30.0
Bromobenzene	Ave	0.7726	0.7597		19.7	20.0	-1.7	30.0
N-Propylbenzene	Ave	2.529	2.585		20.4	20.0	2.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5078	0.3000	19.7	20.0	-1.6	30.0
2-Chlorotoluene	Ave	1.717	1.709		19.9	20.0	-0.5	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.920		20.4	20.0	2.2	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0633		18.5	20.0	-7.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0662		18.2	20.0	-8.8	30.0
4-Chlorotoluene	Ave	1.492	1.505		20.2	20.0	0.9	30.0
tert-Butylbenzene	Ave	1.551	1.657		21.4	20.0	6.9	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.933		19.8	20.0	-0.9	30.0
sec-Butylbenzene	Ave	2.541	2.617		20.6	20.0	3.0	30.0
4-Isopropyltoluene	Ave	2.050	2.115		20.6	20.0	3.2	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9545		19.5	20.0	-2.7	30.0
1,4-Dichlorobenzene	Ave	1.821	1.792		19.7	20.0	-1.6	30.0
n-Butylbenzene	Ave	3.711	3.810		20.5	20.0	2.7	30.0
1,2-Dichlorobenzene	Ave	1.574	1.540		19.6	20.0	-2.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0789		19.1	20.0	-4.3	30.0
Hexachlorobutadiene	Ave	0.5157	0.5204		20.2	20.0	0.9	30.0

TC
3/22/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-48159/2 Calibration Date: 08/25/2009 23:59

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44477.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.039		19.3	20.0	-3.4	30.0
Naphthalene	Ave	1.428	1.387		19.4	20.0	-2.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7997		19.8	20.0	-1.0	30.0
Dibromofluoromethane	Ave	0.2595	0.2502		19.3	20.0	-3.6	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8783		19.7	20.0	-1.6	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5021		19.8	20.0	-0.8	30.0

TC
3/22/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4755		24.2	20.0	21.2	30.0
Chloromethane	Lin		0.6337	0.1000	21.7	20.0	8.3	30.0
Vinyl chloride	Lin		0.5083		23.4	20.0	17.2	20.0
Bromomethane	Lin		0.3189		22.1	20.0	10.7	30.0
Chloroethane	Lin		0.2750		23.3	20.0	16.3	30.0
Trichlorofluoromethane	Lin		0.5150		23.3	20.0	16.5	30.0
Ethyl ether	Ave	0.1998	0.1719		17.2	20.0	-14.0	30.0
1,1-Dichloroethene	Lin		0.3611		22.8	20.0	13.9	20.0
Carbon disulfide	Ave	1.172	1.201		20.5	20.0	2.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2408		23.9	20.0	19.3	30.0
Acrolein	Lin1		0.5343		1060	1000	6.1	30.0
Methylene Chloride	Lin		0.4088		24.6	20.0	23.1	30.0
Acetone	Qua		0.0364		130	200	-35.2*	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5120		19.4	20.0	-3.0	30.0
Methyl acetate	Lin		0.0991		139	200	-30.4*	30.0
Methyl tert-butyl ether	Lin		0.5152		18.8	20.0	-6.2	30.0
2-Methyl-2-propanol	Lin1		0.2364		186	200	-7.1	30.0
Isopropyl ether	Ave	1.438	1.327		18.4	20.0	-7.8	30.0
1,1-Dichloroethane	Lin		0.5648	0.1000	20.6	20.0	2.8	30.0
Acrylonitrile	Lin2		0.0457		17.8	20.0	-11.1	30.0
Tert-butyl ethyl ether	Lin		0.8428		19.9	20.0	-0.5	30.0
Vinyl acetate	Lin1		0.3408		219	200	9.5	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4346		19.0	20.0	-5.1	30.0
2,2-Dichloropropane	Qua		0.4508		22.0	20.0	9.8	30.0
Cyclohexane	Ave	0.6383	0.7200		22.6	20.0	12.8	30.0
Chlorobromomethane	Ave	0.1791	0.1542		17.2	20.0	-13.9	30.0
Chloroform	Lin		0.4979		19.3	20.0	-3.5	20.0
Carbon tetrachloride	Ave	0.3593	0.4011		22.3	20.0	11.6	30.0
Tetrahydrofuran	Lin1		0.0434		179	200	-10.6	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.5014		20.3	20.0	1.6	30.0
2-Butanone (MEK)	Ave	0.0653	0.0541		166	200	-17.2	30.0
1,1-Dichloropropene	Ave	0.3849	0.4021		20.9	20.0	4.5	30.0
Benzene	Ave	1.175	1.143		19.5	20.0	-2.7	30.0
Tert-amyl methyl ether	Lin		0.6036		19.4	20.0	-2.8	30.0
1,2-Dichloroethane	Ave	0.2398	0.2175		18.1	20.0	-9.3	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2900		26.0	20.0	29.8	30.0
Methylcyclohexane	Ave	0.5730	0.6582		23.0	20.0	14.9	30.0
Trichloroethene	Ave	0.2943	0.2899		19.7	20.0	-1.5	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.2346		24.3	20.0	21.4	30.0
Dibromomethane	Ave	0.1115	0.0971		17.4	20.0	-12.9	30.0

Lab samples 4

TC 3/22/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2003		22.0	20.0	9.8	20.0
Dichlorobromomethane	Ave	0.2830	0.2588		18.3	20.0	-8.6	30.0
Methyl methacrylate	Ave	0.0593	0.0499		16.8	20.0	-15.8	30.0
1,4-Dioxane	Ave	0.0211	0.0214		203	200	1.5	30.0
2-Chloroethyl vinyl ether	Lin1		0.0409		186	200	-6.9	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2665		18.0	20.0	-10.2	30.0
Toluene	Ave	0.6775	0.6653		19.6	20.0	-1.8	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1253		186	200	-7.0	30.0
Tetrachloroethene	Ave	0.2090	0.2061		19.7	20.0	-1.4	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1800		17.0	20.0	-15.2	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0918		16.9	20.0	-15.7	30.0
Chlorodibromomethane	Ave	0.1624	0.1429		17.6	20.0	-12.0	30.0
1,3-Dichloropropane	Ave	0.2134	0.1800		16.9	20.0	-15.7	30.0
Ethylene Dibromide	Ave	0.1323	0.1103		16.7	20.0	-16.6	30.0
2-Hexanone	Ave	0.0865	0.0668		155	200	-22.7	30.0
Chlorobenzene	Ave	1.083	1.084	0.3000	20.0	20.0	0.1	30.0
Ethylbenzene	Lin		2.128		23.3	20.0	16.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3981		20.9	20.0	4.4	30.0
m-Xylene & p-Xylene	Lin1		1.636		46.8	40.0	17.0	30.0
o-Xylene	Ave	1.735	1.860		21.4	20.0	7.2	30.0
Styrene	Ave	1.258	1.277		20.3	20.0	1.5	30.0
Bromoform	Ave	0.2952	0.2639	0.1000	17.9	20.0	-10.6	20.0
Isopropylbenzene	Ave	2.247	2.540		22.6	20.0	13.1	30.0
Bromobenzene	Ave	0.7726	0.7796		20.2	20.0	0.9	30.0
N-Propylbenzene	Ave	2.529	2.852		22.6	20.0	12.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.4897	0.3000	19.0	20.0	-5.1	30.0
2-Chlorotoluene	Ave	1.717	1.831		21.3	20.0	6.6	30.0
1,3,5-Trimethylbenzene	Ave	1.879	2.070		22.0	20.0	10.2	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0632		18.5	20.0	-7.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0648		17.8	20.0	-10.8	30.0
4-Chlorotoluene	Ave	1.492	1.554		20.8	20.0	4.1	30.0
tert-Butylbenzene	Ave	1.551	1.832		23.6	20.0	18.1	30.0
1,2,4-Trimethylbenzene	Ave	1.951	2.132		21.8	20.0	9.2	30.0
sec-Butylbenzene	Ave	2.541	2.935		23.1	20.0	15.5	30.0
4-Isopropyltoluene	Ave	2.050	2.355		23.0	20.0	14.9	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9928		20.2	20.0	1.2	30.0
1,4-Dichlorobenzene	Ave	1.821	1.802		19.8	20.0	-1.0	30.0
n-Butylbenzene	Ave	3.711	4.252		22.9	20.0	14.6	30.0
1,2-Dichlorobenzene	Ave	1.574	1.566		19.9	20.0	-0.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0736		17.8	20.0	-10.8	30.0
Hexachlorobutadiene	Ave	0.5157	0.5656		21.9	20.0	9.7	30.0

TC
3/22/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.057		19.7	20.0	-1.7	30.0
Naphthalene	Ave	1.428	1.340		18.8	20.0	-6.1	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7929		19.6	20.0	-1.8	30.0
Dibromofluoromethane	Ave	0.2595	0.2471		19.0	20.0	-4.8	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8686		19.5	20.0	-2.7	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5114		20.2	20.0	1.1	30.0

TC 3/22/10

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\V44503.D
Lims ID: CCVIS Client ID:
Inject. Date: 26-Aug-2009 17:03:30 Dil. Factor: 1.0000
Sample Type: CCVIS, Cal Verification ISTD Check
Sample ID: CCVIS
Misc. Info.: 360-0000979-002
Operator: CR Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 48231 Lims Sample ID: 2
Sublist: chrom-WES1SOIL*sub5
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\WES1SOIL.m
Last Update: 27-Aug-2009 08:19:19 Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc Date: 27-Aug-2009 08:19:18

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85	1.644	1.644	0.000	210510	24.2	M
2 Chloromethane	50	1.825	1.825	0.000	280552	21.7	
3 Vinyl chloride	62	1.924	1.924	0.000	225040	23.4	
4 Bromomethane	94	2.280	2.280	0.000	141165	22.1	
5 Chloroethane	64	2.409	2.409	0.000	121729	23.3	
6 Trichlorofluoromethane	101	2.554	2.554	0.000	227980	23.3	
7 Ethyl ether	59	2.880	2.880	0.000	76101	17.2	
8 1,1-Dichloroethene	96	3.076	3.076	0.000	159855	22.8	
9 Ethanol	45	3.081	3.081	0.000	28333	943.2	
10 Carbon disulfide	76	3.086	3.086	0.000	531479	20.5	
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.138	3.138	0.000	106620	23.9	
12 Acrolein	56	3.412	3.412	0.000	518273	1061.4	
13 Isopropyl alcohol	45	3.572	3.572	0.000	176242	879.6	
14 Methylene Chloride	84	3.644	3.644	0.000	180974	24.6	
15 Acetone	43	3.696	3.696	0.000	161345	129.7	
16 trans-1,2-Dichloroethene	61	3.789	3.789	0.000	226666	19.4	
17 Methyl acetate	43	3.815	3.815	0.000	438561	139.2	
18 Hexane	57	3.867	3.867	0.000	283440	23.1	
19 Methyl tert-butyl ether	73	3.898	3.898	0.000	228090	18.8	
20 2-Methyl-2-propanol	59	3.996	3.996	0.000	45875	185.7	
21 Isopropyl ether	45	4.244	4.244	0.000	587397	18.4	
22 1,1-Dichloroethane	63	4.358	4.358	0.000	250023	20.6	
23 Acrylonitrile	53	4.420	4.420	0.000	20240	17.8	
24 Tert-butyl ethyl ether	59	4.569	4.569	0.000	373134	19.9	
25 Vinyl acetate	43	4.585	4.585	0.000	1508668	218.9	
26 cis-1,2-Dichloroethene	61	4.828	4.828	0.000	192391	19.0	
27 2,2-Dichloropropane	77	4.926	4.926	0.000	199572	22.0	
28 Cyclohexane	56	4.998	4.998	0.000	318740	22.6	
29 Chlorobromomethane	130	5.004	5.004	0.000	68260	17.2	
30 Chloroform	83	5.066	5.066	0.000	220411	19.3	

TC
3/23/10

Report Date: 27-Aug-2009 08:19:19 Chrom Revision: 1.0.2009.729
Data File: \\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\V44503.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
31 Ethyl acetate	43	5.174	5.174	0.000	513357	184.6	
32 Carbon tetrachloride	117	5.179	5.179	0.000	177569	22.3	
33 Tetrahydrofuran	42	5.200	5.200	0.000	192295	178.7	
34 sec-Butyl Alcohol	45	5.210	5.210	0.000	260681	859.6	
$ 35 Dibromofluoromethane	113	5.221	5.221	0.000	109371	19.0	
36 1,1,1-Trichloroethane	97	5.246	5.246	0.000	221953	20.3	
37 2-Butanone (MEK)	43	5.339	5.339	0.000	239569	165.6	
38 1,1-Dichloropropene	75	5.345	5.345	0.000	178020	20.9	
39 n-Heptane	43	5.520	5.520	0.000	285899	23.9	
40 Benzene	78	5.562	5.562	0.000	505948	19.5	
41 Tert-amyl methyl ether	73	5.655	5.655	0.000	267197	19.4	
* 42 1,2-Dichloroethane-d4 ISTD	102	5.675	5.675	0.000	19402	20.0	
43 1,2-Dichloroethane	62	5.732	5.732	0.000	96295	18.1	
* 44 Fluorobenzene	96	5.903	5.903	0.000	442711	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.929	5.929	0.000	128362	26.0	
46 Isopropyl acetate	43	5.934	5.934	0.000	1193843	189.3	
47 Methylcyclohexane	83	6.027	6.027	0.000	291393	23.0	
48 Trichloroethene	95	6.037	6.037	0.000	128318	19.7	
FB 49 2,4,4-Trimethyl-2-pentene	112	6.068	6.068	0.000	103845	24.3	
50 Dibromomethane	93	6.383	6.383	0.000	43001	17.4	
51 1,2-Dichloropropane	63	6.466	6.466	0.000	88672	22.0	
52 Dichlorobromomethane	83	6.507	6.507	0.000	114592	18.3	
53 Methyl methacrylate	69	6.631	6.631	0.000	22108	16.8	
54 1,4-Dioxane	88	6.668	6.668	0.000	4151	203.1	
55 n-Propyl acetate	43	6.740	6.740	0.000	603691	189.7	
56 2-Chloroethyl vinyl ether	63	6.957	6.957	0.000	180975	186.3	
57 cis-1,3-Dichloropropene	75	7.009	7.009	0.000	117961	18.0	
$ 58 Toluene-d8 (Surr)	98	7.153	7.153	0.000	384542	19.5	
59 Toluene	92	7.190	7.190	0.000	294555	19.6	
60 Tetrachloroethene	164	7.484	7.484	0.000	91256	19.7	
61 4-Methyl-2-pentanone (MIBK)	43	7.484	7.484	0.000	554801	186.0	
62 trans-1,3-Dichloropropene	75	7.510	7.510	0.000	79664	17.0	
63 Isobutyl acetate	43	7.567	7.567	0.000	1663304	202.1	
64 1,1,2-Trichloroethane	83	7.634	7.634	0.000	40642	16.9	
65 Chlorodibromomethane	129	7.774	7.774	0.000	63269	17.6	
66 1,3-Dichloropropane	76	7.846	7.846	0.000	79703	16.9	
67 Ethylene Dibromide	107	7.960	7.960	0.000	48839	16.7	
68 n-Butyl acetate	43	8.042	8.042	0.000	803105	184.0	
69 2-Hexanone	43	8.125	8.125	0.000	295899	154.6	
* 70 Chlorobenzene-d5	117	8.347	8.347	0.000	266996	20.0	
71 Chlorobenzene	112	8.363	8.363	0.000	289511	20.0	
CB2 72 Ethylbenzene	91	8.373	8.373	0.000	568097	23.3	
73 1,1,1,2-Tetrachloroethane	131	8.409	8.409	0.000	106289	20.9	
74 m-Xylene & p-Xylene	91	8.487	8.487	0.000	873527	46.8	
75 o-Xylene	91	8.817	8.817	0.000	496726	21.4	
76 Styrene	104	8.859	8.859	0.000	340950	20.3	
77 Bromoform	173	8.885	8.885	0.000	37250	17.9	
78 Isopropylbenzene	105	9.060	9.060	0.000	678261	22.6	
$ 80 4-Bromofluorobenzene	95	9.283	9.283	0.000	136549	20.2	
81 Bromobenzene	77	9.370	9.370	0.000	208155	20.2	
82 N-Propylbenzene	91	9.376	9.376	0.000	761411	22.6	
83 1,1,2,2-Tetrachloroethane	83	9.432	9.432	0.000	69107	19.0	

1,4-Dioxane

0.0211 = 4151 x 20 / 19402 (X)

202.79 ug/L

o ic ✓

0.2045 = 103845 (20) / 442711 (X)

22.94 ug/L

Linear regression used for Quantitation

OK ✓

2.095 = 568097 (20) / 760996 (X)

20.3 ug/L

Concentration by Linear Regression

OK ✓

TC 3/23/10 09/17/2009

Report Date: 27-Aug-2009 08:19:19 Chrom Revision: 1.0.2009.729
Data File: \\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\V44503.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
84 2-Chlorotoluene	91	9.505	9.505	0.000	488811	21.3	
85 1,3,5-Trimethylbenzene	105	9.531	9.531	0.000	552766	22.0	
86 1,2,3-Trichloropropane	110	9.546	9.546	0.000	16860	18.5	
87 trans-1,4-Dichloro-2-butene	53	9.572	9.572	0.000	17293	17.8	
88 4-Chlorotoluene	91	9.639	9.639	0.000	414854	20.8	
89 tert-Butylbenzene	119	9.779	9.779	0.000	489051	23.6	
90 1,2,4-Trimethylbenzene	105	9.836	9.836	0.000	569107	21.8	
91 sec-Butylbenzene	105	9.918	9.918	0.000	783666	23.1	
92 4-Isopropyltoluene	119	10.027	10.027	0.000	628852	23.0	
93 1,3-Dichlorobenzene	146	10.099	10.099	0.000	265069	20.2	
* 94 1,4-Dichlorobenzene-d4	152	10.156	10.156	0.000	141134	20.0	
95 1,4-Dichlorobenzene	146	10.171	10.171	0.000	254381	19.8	
96 n-Butylbenzene	91	10.373	10.373	0.000	600077	22.9	
97 1,2-Dichlorobenzene	146	10.528	10.528	0.000	221030	19.9	
98 1,2-Dibromo-3-Chloropropane	157	11.314	11.314	0.000	10384	17.8	
99 1,3,5-Trichlorobenzene	180	11.339	11.339	0.000	216107	21.4	
100 Hexachlorobutadiene	225	12.068	12.068	0.000	79825	21.9	
101 1,2,4-Trichlorobenzene	180	12.115	12.115	0.000	149116	19.7	
102 Naphthalene	128	12.590	12.590	0.000	189156	18.8	
103 1,2,3-Trichlorobenzene	180	12.869	12.869	0.000	111904	19.6	

QC Flag Legend

Review Flags
M - Manually Integrated

$$1.5744 = \frac{221030 \times 20}{141134 \quad (X)} = 19.9 \text{ ug/L}$$

TC
3/23/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-47995/2 Calibration Date: 08/20/2009 16:11

Instrument ID: HP #1 GC/MS Calib Start Date: 05/21/2009 16:10

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 05/21/2009 18:59

Lab File ID: V44368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin		0.4201		21.6	20.0	7.9	30.0
Chloromethane	Lin1		0.5823	0.1000	16.4	20.0	-17.8	30.0
Vinyl chloride	Lin		0.4277		16.9	20.0	-15.5	20.0
Bromomethane	Lin1		0.2940		20.7	20.0	3.7	30.0
Chloroethane	Lin		0.2441		19.2	20.0	-3.9	30.0
Trichlorofluoromethane	Lin1		0.4489		20.6	20.0	3.2	30.0
Ethyl ether	Ave	0.2231	0.1823		16.3	20.0	-18.3	30.0
1,1-Dichloroethene	Ave	0.3477	0.3071		17.7	20.0	-11.7	20.0
Carbon disulfide	Ave	1.261	1.035		16.4	20.0	-17.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1997	0.1940		19.4	20.0	-2.9	30.0
Acrolein	Lin2		0.4841		827	1000	-17.3	30.0
Methylene Chloride	Lin		0.3446		20.1	20.0	0.6	30.0
Acetone	Lin		0.0431		133	200	-33.5*	30.0 *
trans-1,2-Dichloroethene	Ave	0.5822	0.4670		16.0	20.0	-19.8	30.0
Methyl acetate	Lin1		0.0956		163	200	-18.6	30.0
Methyl tert-butyl ether	Ave	0.6467	0.5055		15.6	20.0	-21.8	30.0
2-Methyl-2-propanol	Lin		0.2896		153	200	-23.3	30.0
Isopropyl ether	Ave	1.657	1.272		15.4	20.0	-23.2	30.0
1,1-Dichloroethane	Ave	0.6735	0.5416	0.1000	16.1	20.0	-19.6	30.0
Acrylonitrile	Lin1		0.0454		16.4	20.0	-18.0	30.0
Tert-butyl ethyl ether	Ave	1.032	0.7939		15.4	20.0	-23.1	30.0
Vinyl acetate	Ave	0.4620	0.3760		163	200	-18.6	30.0
cis-1,2-Dichloroethene	Ave	0.5100	0.4211		16.5	20.0	-17.4	30.0
2,2-Dichloropropane	Lin		0.3863		19.7	20.0	-1.5	30.0
Chlorobromomethane	Ave	0.1470	0.1548		21.1	20.0	5.3	30.0
Cyclohexane	Ave	0.7473	0.5866		15.7	20.0	-21.5	30.0
Chloroform	Ave	0.5518	0.5116		18.5	20.0	-7.3	20.0
Carbon tetrachloride	Ave	0.3449	0.3353		19.4	20.0	-2.8	30.0
Tetrahydrofuran	Lin1		0.0478		163	200	-18.7	30.0
1,1,1-Trichloroethane	Ave	0.4815	0.4407		18.3	20.0	-8.5	30.0
2-Butanone (MEK)	Lin2		0.0624		154	200	-22.8	30.0
1,1-Dichloropropene	Ave	0.4173	0.3870		18.5	20.0	-7.3	30.0
Benzene	Ave	1.211	1.129		18.6	20.0	-6.8	30.0
Tert-amyl methyl ether	Ave	0.6984	0.5595		16.0	20.0	-19.9	30.0
1,2-Dichloroethane	Ave	0.2567	0.2333		18.2	20.0	-9.1	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3014	0.2286		15.2	20.0	-24.2	30.0
Methylcyclohexane	Ave	0.5986	0.5351		17.9	20.0	-10.6	30.0
Trichloroethene	Ave	0.2862	0.2962		20.7	20.0	3.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1905	0.1898		19.9	20.0	-0.4	30.0
Dibromomethane	Ave	0.1074	0.1084		20.2	20.0	0.9	30.0

* Samples Qualified UJ

TC 3/23/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-47995/2 Calibration Date: 08/20/2009 16:11

Instrument ID: HP #1 GC/MS Calib Start Date: 05/21/2009 16:10

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 05/21/2009 18:59

Lab File ID: V44368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
1,2-Dichloropropane	Qua		0.2112		17.3	20.0	-13.4	20.0	
Dichlorobromomethane	Ave	0.2791	0.2895		20.7	20.0	3.7	30.0	
Methyl methacrylate	Ave	0.0674	0.0633		18.8	20.0	-6.1	30.0	
1,4-Dioxane	Ave	0.0232	0.0204		176	200	-11.9	30.0	
2-Chloroethyl vinyl ether	Lin		0.0197		135	200	-32.4*	30.0	
cis-1,3-Dichloropropene	Ave	0.2979	0.3173		21.3	20.0	6.5	30.0	
Toluene	Ave	0.6316	0.6742		21.3	20.0	6.7	20.0	
4-Methyl-2-pentanone (MIBK)	Qua		0.1275		152	200	-23.8	30.0	
Tetrachloroethene	Ave	0.1705	0.2104		24.7	20.0	23.4	30.0	
trans-1,3-Dichloropropene	Ave	0.2066	0.2225		21.5	20.0	7.7	30.0	
1,1,2-Trichloroethane	Ave	0.1085	0.1076		19.8	20.0	-0.8	30.0	
Chlorodibromomethane	Ave	0.1284	0.1613		25.1	20.0	25.6	30.0	*
1,3-Dichloropropane	Ave	0.2169	0.2167		20.0	20.0	0.1	30.0	
Ethylene Dibromide	Ave	0.1108	0.1268		22.9	20.0	14.4	30.0	
2-Hexanone	Ave	0.0985	0.0769		156	200	-22.0	30.0	
Chlorobenzene	Ave	1.072	0.9720	0.3000	18.1	20.0	-9.4	30.0	
Ethylbenzene	Ave	2.148	1.752		16.3	20.0	-18.4	20.0	
1,1,1,2-Tetrachloroethane	Ave	0.3731	0.3267		17.5	20.0	-12.4	30.0	
m-Xylene & p-Xylene	Ave	1.613	1.333		33.0	40.0	-17.4	30.0	
o-Xylene	Ave	1.843	1.467		15.9	20.0	-20.4	30.0	
Styrene	Ave	1.200	1.053		17.5	20.0	-12.3	30.0	
Bromoform	Ave	0.2828	0.2798	0.1000	19.8	20.0	-1.1	20.0	
Isopropylbenzene	Ave	2.351	1.961		16.7	20.0	-16.6	30.0	
Bromobenzene	Ave	0.8518	0.6099		14.3	20.0	-28.4	30.0	*
N-Propylbenzene	Ave	2.746	2.136		15.6	20.0	-22.2	30.0	
1,1,2,2-Tetrachloroethane	Ave	0.6279	0.4573	0.3000	14.6	20.0	-27.2	30.0	*
2-Chlorotoluene	Ave	1.822	1.390		15.3	20.0	-23.7	30.0	
1,3,5-Trimethylbenzene	Ave	1.870	1.544		16.5	20.0	-17.4	30.0	
1,2,3-Trichloropropane	Ave	0.0690	0.0519		15.0	20.0	-24.8	30.0	
trans-1,4-Dichloro-2-butene	Ave	0.0804	0.0567		14.1	20.0	-29.5	30.0	
4-Chlorotoluene	Ave	1.541	1.182		15.3	20.0	-23.3	30.0	
tert-Butylbenzene	Ave	1.484	1.358		18.3	20.0	-8.5	30.0	
1,2,4-Trimethylbenzene	Ave	1.901	1.520		16.0	20.0	-20.0	30.0	
sec-Butylbenzene	Ave	2.595	2.122		16.4	20.0	-18.2	30.0	
4-Isopropyltoluene	Ave	1.968	1.699		17.3	20.0	-13.7	30.0	
1,3-Dichlorobenzene	Ave	0.8754	0.7244		16.6	20.0	-17.2	30.0	
1,4-Dichlorobenzene	Ave	1.741	1.551		17.8	20.0	-10.9	30.0	
n-Butylbenzene	Ave	4.253	3.537		16.6	20.0	-16.8	30.0	
1,2-Dichlorobenzene	Ave	1.569	1.381		17.6	20.0	-11.9	30.0	
1,2-Dibromo-3-Chloropropane	Ave	0.0835	0.0762		18.3	20.0	-8.7	30.0	
Hexachlorobutadiene	Ave	0.5755	0.5205		18.1	20.0	-9.6	30.0	

* See prev page for samples Qualified UJ

09/17/2009

TC 3/23

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-47995/2 Calibration Date: 08/20/2009 16:11

Instrument ID: HP #1 GC/MS Calib Start Date: 05/21/2009 16:10

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 05/21/2009 18:59

Lab File ID: V44368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.119	1.011		18.1	20.0	-9.6	30.0
Naphthalene	Ave	1.449	1.304		18.0	20.0	-10.0	30.0
1,2,3-Trichlorobenzene	Ave	0.8327	0.7675		18.4	20.0	-7.8	30.0
Dibromofluoromethane	Ave	0.2351	0.2543		21.6	20.0	8.2	30.0
Toluene-d8 (Surr)	Ave	0.8164	0.9455		23.2	20.0	15.8	30.0
4-Bromofluorobenzene	Ave	0.5269	0.4673		17.7	20.0	-11.3	30.0

TC 3/22

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-48296/2 Calibration Date: 08/27/2009 17:26

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4554		23.2	20.0	16.0	30.0
Chloromethane	Lin		0.6431	0.1000	22.0	20.0	10.0	30.0
Vinyl chloride	Lin		0.4945		22.7	20.0	13.7	20.0
Bromomethane	Lin		0.3306		23.1	20.0	15.3	30.0
Chloroethane	Lin		0.2747		23.2	20.0	16.2	30.0
Trichlorofluoromethane	Lin		0.5253		23.8	20.0	19.0	30.0
Ethyl ether	Ave	0.1998	0.1703		17.0	20.0	-14.8	30.0
1,1-Dichloroethene	Lin		0.3567		22.5	20.0	12.4	20.0
Carbon disulfide	Ave	1.172	1.174		20.0	20.0	0.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2404		23.8	20.0	19.1	30.0
Acrolein	Lin1		0.5262		1050	1000	4.5	30.0
Methylene Chloride	Lin		0.4212		25.5	20.0	27.3	30.0
Acetone	Qua		0.0424		158	200	-20.9	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5056		19.2	20.0	-4.2	30.0
Methyl acetate	Lin		0.0951		133	200	-33.5*	30.0
Methyl tert-butyl ether	Lin		0.5212		19.0	20.0	-5.0	30.0
2-Methyl-2-propanol	Lin1		0.2428		191	200	-4.6	30.0
Isopropyl ether	Ave	1.438	1.320		18.4	20.0	-8.2	30.0
1,1-Dichloroethane	Lin		0.5672	0.1000	20.7	20.0	3.3	30.0
Acrylonitrile	Lin2		0.0450		17.5	20.0	-12.4	30.0
Tert-butyl ethyl ether	Lin		0.8421		19.9	20.0	-0.6	30.0
Vinyl acetate	Lin1		0.3484		224	200	11.9	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4364		19.1	20.0	-4.7	30.0
2,2-Dichloropropane	Qua		0.4450		21.6	20.0	8.2	30.0
Cyclohexane	Ave	0.6383	0.6889		21.6	20.0	7.9	30.0
Chlorobromomethane	Ave	0.1791	0.1585		17.7	20.0	-11.5	30.0
Chloroform	Lin		0.5136		19.9	20.0	-0.3	20.0
Carbon tetrachloride	Ave	0.3593	0.3884		21.6	20.0	8.1	30.0
Tetrahydrofuran	Lin1		0.0446		183	200	-8.3	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4931		20.0	20.0	0.1	30.0
2-Butanone (MEK)	Ave	0.0653	0.0554		169	200	-15.3	30.0
1,1-Dichloropropene	Ave	0.3849	0.3961		20.6	20.0	2.9	30.0
Benzene	Ave	1.175	1.107		18.8	20.0	-5.8	30.0
Tert-amyl methyl ether	Lin		0.6045		19.5	20.0	-2.6	30.0
1,2-Dichloroethane	Ave	0.2398	0.2160		18.0	20.0	-9.9	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2850		25.5	20.0	27.5	30.0
Methylcyclohexane	Ave	0.5730	0.6373		22.2	20.0	11.2	30.0
Trichloroethene	Ave	0.2943	0.2799		19.0	20.0	-4.9	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.2259		23.4	20.0	16.8	30.0
Dibromomethane	Ave	0.1115	0.0977		17.5	20.0	-12.4	30.0

Lab Sample ID # 2

TC 3/22/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-48296/2 Calibration Date: 08/27/2009 17:26

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2023		22.2	20.0	11.0	20.0
Dichlorobromomethane	Ave	0.2830	0.2615		18.5	20.0	-7.6	30.0
Methyl methacrylate	Ave	0.0593	0.0517		17.4	20.0	-12.9	30.0
1,4-Dioxane	Ave	0.0211	0.0198		188	200	-6.0	30.0
2-Chloroethyl vinyl ether	Lin1		0.0434		197	200	-1.3	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2685		18.1	20.0	-9.5	30.0
Toluene	Ave	0.6775	0.6458		19.1	20.0	-4.7	20.0
Tetrachloroethene	Ave	0.2090	0.2054		19.6	20.0	-1.8	30.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1273		189	200	-5.4	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1845		17.4	20.0	-13.1	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0941		17.3	20.0	-13.6	30.0
Chlorodibromomethane	Ave	0.1624	0.1452		17.9	20.0	-10.6	30.0
1,3-Dichloropropane	Ave	0.2134	0.1825		17.1	20.0	-14.5	30.0
Ethylene Dibromide	Ave	0.1323	0.1147		17.3	20.0	-13.3	30.0
2-Hexanone	Ave	0.0865	0.0692		160	200	-19.9	30.0
Chlorobenzene	Ave	1.083	1.049	0.3000	19.4	20.0	-3.1	30.0
Ethylbenzene	Lin		2.002		21.8	20.0	9.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3857		20.2	20.0	1.2	30.0
m-Xylene & p-Xylene	Lin1		1.544		44.1	40.0	10.3	30.0
o-Xylene	Ave	1.735	1.748		20.1	20.0	0.7	30.0
Styrene	Ave	1.258	1.204		19.1	20.0	-4.3	30.0
Bromoform	Ave	0.2952	0.2696	0.1000	18.3	20.0	-8.7	20.0
Isopropylbenzene	Ave	2.247	2.398		21.4	20.0	6.8	30.0
Bromobenzene	Ave	0.7726	0.7434		19.2	20.0	-3.8	30.0
N-Propylbenzene	Ave	2.529	2.670		21.1	20.0	5.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.4800	0.3000	18.6	20.0	-7.0	30.0
2-Chlorotoluene	Ave	1.717	1.713		20.0	20.0	-0.2	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.951		20.8	20.0	3.8	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0591		17.3	20.0	-13.5	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0693		19.1	20.0	-4.5	30.0
4-Chlorotoluene	Ave	1.492	1.478		19.8	20.0	-0.9	30.0
tert-Butylbenzene	Ave	1.551	1.709		22.0	20.0	10.2	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.980		20.3	20.0	1.5	30.0
sec-Butylbenzene	Ave	2.541	2.761		21.7	20.0	8.7	30.0
4-Isopropyltoluene	Ave	2.050	2.203		21.5	20.0	7.5	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9414		19.2	20.0	-4.1	30.0
1,4-Dichlorobenzene	Ave	1.821	1.744		19.2	20.0	-4.2	30.0
n-Butylbenzene	Ave	3.711	4.002		21.6	20.0	7.9	30.0
1,2-Dichlorobenzene	Ave	1.574	1.501		19.1	20.0	-4.6	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0739		17.9	20.0	-10.4	30.0
Hexachlorobutadiene	Ave	0.5157	0.5269		20.4	20.0	2.2	30.0

TC

3/22/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab Sample ID: CCVIS 360-48296/2 Calibration Date: 08/27/2009 17:26

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.013		18.8	20.0	-5.8	30.0
Naphthalene	Ave	1.428	1.287		18.0	20.0	-9.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7630		18.9	20.0	-5.5	30.0
Dibromofluoromethane	Ave	0.2595	0.2562		19.7	20.0	-1.3	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8787		19.7	20.0	-1.5	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5023		19.9	20.0	-0.7	30.0

TC 3/22/10

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\V44526.D
Lims ID: CCVIS Client ID:
Inject. Date: 27-Aug-2009 17:26:30 Dil. Factor: 1.0000
Sample Type: CCVIS, Cal Verification ISTD Check
Sample ID: CCVIS
Misc. Info.: 360-0000992-002
Operator: CR Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 48296 Lims Sample ID: 2
Sublist: chrom-WES1SOIL*sub5
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\WES1SOIL.m
Last Update: 28-Aug-2009 08:48:11 Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc Date: 28-Aug-2009 08:48:11

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85	1.634	1.634	0.000	206296	23.2	M
2 Chloromethane	50	1.814	1.814	0.000	291309	22.0	
3 Vinyl chloride	62	1.913	1.913	0.000	224001	22.7	
4 Bromomethane	94	2.269	2.269	0.000	149749	23.1	
5 Chloroethane	64	2.404	2.404	0.000	124421	23.2	
6 Trichlorofluoromethane	101	2.548	2.548	0.000	237974	23.8	
7 Ethyl ether	59	2.869	2.869	0.000	77149	17.0	
8 1,1-Dichloroethene	96	3.065	3.065	0.000	161569	22.5	
9 Ethanol	45	3.070	3.070	0.000	31870	1040.4	
10 Carbon disulfide	76	3.075	3.075	0.000	531972	20.0	
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.132	3.132	0.000	108876	23.8	
12 Acrolein	56	3.401	3.401	0.000	544582	1045.2	
13 Isopropyl alcohol	45	3.566	3.566	0.000	184529	900.1	
14 Methylene Chloride	84	3.634	3.634	0.000	190780	25.5	
15 Acetone	43	3.685	3.685	0.000	192245	158.2	
16 trans-1,2-Dichloroethene	61	3.783	3.783	0.000	229030	19.2	
17 Methyl acetate	43	3.809	3.809	0.000	430778	132.9	
18 Hexane	57	3.861	3.861	0.000	289840	23.1	
19 Methyl tert-butyl ether	73	3.887	3.887	0.000	236093	19.0	
20 2-Methyl-2-propanol	59	3.985	3.985	0.000	50259	190.8	
21 Isopropyl ether	45	4.233	4.233	0.000	597941	18.4	
22 1,1-Dichloroethane	63	4.347	4.347	0.000	256935	20.7	
23 Acrylonitrile	53	4.404	4.404	0.000	20399	17.5	
24 Tert-butyl ethyl ether	59	4.559	4.559	0.000	381464	19.9	
25 Vinyl acetate	43	4.574	4.574	0.000	1578325	223.8	
26 cis-1,2-Dichloroethene	61	4.822	4.822	0.000	197703	19.1	
27 2,2-Dichloropropane	77	4.915	4.915	0.000	201576	21.6	
28 Cyclohexane	56	4.987	4.987	0.000	312084	21.6	
29 Chlorobromomethane	130	4.993	4.993	0.000	71779	17.7	
30 Chloroform	83	5.055	5.055	0.000	232661	19.9	

Report Date: 28-Aug-2009 08:48:12 Chrom Revision: 1.0.2009.827
Data File: \\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\V44526.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
31 Ethyl acetate	43	5.163	5.163	0.000	531138	186.6	
32 Carbon tetrachloride	117	5.168	5.168	0.000	175926	21.6	
33 Tetrahydrofuran	42	5.189	5.189	0.000	201839	183.4	
34 sec-Butyl Alcohol	45	5.199	5.199	0.000	278108	896.2	
$ 35 Dibromofluoromethane	113	5.210	5.210	0.000	116045	19.7	
36 1,1,1-Trichloroethane	97	5.236	5.236	0.000	223375	20.0	
37 2-Butanone (MEK)	43	5.329	5.329	0.000	250796	169.5	
38 1,1-Dichloropropene	75	5.334	5.334	0.000	179411	20.6	
39 n-Heptane	43	5.509	5.509	0.000	281000	22.9	
40 Benzene	78	5.551	5.551	0.000	501453	18.8	
41 Tert-amyl methyl ether	73	5.644	5.644	0.000	273854	19.5	
* 42 1,2-Dichloroethane-d4 ISTD	102	5.670	5.670	0.000	20699	20.0	
43 1,2-Dichloroethane	62	5.726	5.726	0.000	97847	18.0	
* 44 Fluorobenzene	96	5.897	5.897	0.000	452998	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.918	5.918	0.000	129107	25.5	
46 Isopropyl acetate	43	5.923	5.923	0.000	1235357	191.5	
47 Methylcyclohexane	83	6.021	6.021	0.000	288703	22.2	
48 Trichloroethene	95	6.026	6.026	0.000	126801	19.0	
49 2,4,4-Trimethyl-2-pentene	112	6.057	6.057	0.000	102323	23.4	
50 Dibromomethane	93	6.372	6.372	0.000	44259	17.5	
51 1,2-Dichloropropane	63	6.455	6.455	0.000	91630	22.2	
52 Dichlorobromomethane	83	6.497	6.497	0.000	118456	18.5	
53 Methyl methacrylate	69	6.621	6.621	0.000	23397	17.4	
54 1,4-Dioxane	88	6.672	6.672	0.000	4098	188.0	
55 n-Propyl acetate	43	6.734	6.734	0.000	627232	192.6	
56 2-Chloroethyl vinyl ether	63	6.946	6.946	0.000	196410	197.5	
57 cis-1,3-Dichloropropene	75	6.998	6.998	0.000	121625	18.1	
$ 58 Toluene-d8 (Surr)	98	7.142	7.142	0.000	398045	19.7	
59 Toluene	92	7.184	7.184	0.000	292563	19.1	
60 Tetrachloroethene	164	7.473	7.473	0.000	93035	19.6	
61 4-Methyl-2-pentanone (MIBK)	43	7.478	7.478	0.000	576727	189.1	
62 trans-1,3-Dichloropropene	75	7.504	7.504	0.000	83585	17.4	
63 Isobutyl acetate	43	7.561	7.561	0.000	1717245	203.9	
64 1,1,2-Trichloroethane	83	7.628	7.628	0.000	42624	17.3	
65 Chlorodibromomethane	129	7.763	7.763	0.000	65770	17.9	
66 1,3-Dichloropropane	76	7.840	7.840	0.000	82664	17.1	
67 Ethylene Dibromide	107	7.954	7.954	0.000	51966	17.3	
68 n-Butyl acetate	43	8.031	8.031	0.000	837487	187.5	
69 2-Hexanone	43	8.114	8.114	0.000	313674	160.2	
* 70 Chlorobenzene-d5	117	8.336	8.336	0.000	284315	20.0	
71 Chlorobenzene	112	8.352	8.352	0.000	298320	19.4	
72 Ethylbenzene	91	8.367	8.367	0.000	569231	21.8	
73 1,1,1,2-Tetrachloroethane	131	8.398	8.398	0.000	109670	20.2	
74 m-Xylene & p-Xylene	91	8.476	8.476	0.000	877857	44.1	
75 o-Xylene	91	8.812	8.812	0.000	496973	20.1	
76 Styrene	104	8.853	8.853	0.000	342227	19.1	
77 Bromoform	173	8.874	8.874	0.000	40118	18.3	
78 Isopropylbenzene	105	9.049	9.049	0.000	681912	21.4	
$ 80 4-Bromofluorobenzene	95	9.272	9.272	0.000	142807	19.9	
81 Bromobenzene	77	9.360	9.360	0.000	211353	19.2	
82 N-Propylbenzene	91	9.370	9.370	0.000	758988	21.1	
83 1,1,2,2-Tetrachloroethane	83	9.422	9.422	0.000	71436	18.6	

Benzene
1.175 = 501453(20) / 452998 (X)
18.84 ug/L
OK

1,4-Dioxane
0.021 = 4098 (20) / 20699 (X)
187.65 ug/L
OK

Chlorobenzene
1.083 = 298320 (20) / 284315 (X)
19.37 ug/L
OK

3/23/10 TC

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
84 2-Chlorotoluene	91	9.499	9.499	0.000	487054	20.0	
85 1,3,5-Trimethylbenzene	105	9.520	9.520	0.000	554677	20.8	
86 1,2,3-Trichloropropane	110	9.540	9.540	0.000	16814	17.3	
87 trans-1,4-Dichloro-2-butene	53	9.566	9.566	0.000	19707	19.1	
88 4-Chlorotoluene	91	9.628	9.628	0.000	420330	19.8	
89 tert-Butylbenzene	119	9.773	9.773	0.000	485806	22.0	
90 1,2,4-Trimethylbenzene	105	9.825	9.825	0.000	562977	20.3	
91 sec-Butylbenzene	105	9.912	9.912	0.000	785059	21.7	
92 4-Isopropyltoluene	119	10.021	10.021	0.000	626397	21.5	
93 1,3-Dichlorobenzene	146	10.088	10.088	0.000	267649	19.2	
* 94 1,4-Dichlorobenzene-d4	152	10.150	10.150	0.000	148825	20.0	
95 1,4-Dichlorobenzene	146	10.161	10.161	0.000	259554	19.2	
96 n-Butylbenzene	91	10.367	10.367	0.000	595631	21.6	
97 1,2-Dichlorobenzene	146	10.517	10.517	0.000	223450	19.1	
98 1,2-Dibromo-3-Chloropropane	157	11.297	11.297	0.000	11004	17.9	
99 1,3,5-Trichlorobenzene	180	11.323	11.323	0.000	219008	20.5	
100 Hexachlorobutadiene	225	12.052	12.052	0.000	78410	20.4	
101 1,2,4-Trichlorobenzene	180	12.098	12.098	0.000	150717	18.8	
102 Naphthalene	128	12.569	12.569	0.000	191535	18.0	
103 1,2,3-Trichlorobenzene	180	12.848	12.848	0.000	113557	18.9	

QC Flag Legend

Review Flags
M - Manually Integrated

124TCB

$1.075 = \frac{150717 \times 20}{148825\ (X)} = 18.841 \approx 18.8$ ug/L

OK ✓

TC

3/23/10

Method Blank

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24194-1

SDG No.: OCRI-02

Client Sample ID: | Lab Sample ID: MB 360-48150/3-A

Matrix: Solid | Lab File ID: V44483.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/26/2009 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48159 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	9.22	J	10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

no hits in samples

Method Blank

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24194-1

SDG No.: OCRI-02

Client Sample ID: | Lab Sample ID: MB 360-48228/6

Matrix: Water | Lab File ID: V06426.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/26/2009 18:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48228 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		1.0	0.59
75-15-0	Carbon disulfide	ND		10	0.62
56-23-5	Carbon tetrachloride	ND		1.0	0.71
108-90-7	Chlorobenzene	ND		1.0	0.65
75-00-3	Chloroethane	ND		2.0	0.40
67-66-3	Chloroform	ND		1.0	0.66
74-87-3	Chloromethane	ND		2.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.40
110-82-7	Cyclohexane	ND		10	2.8
124-48-1	Chlorodibromomethane	ND		0.50	0.50
74-95-3	Dibromomethane	ND		1.0	0.65
75-71-8	Dichlorodifluoromethane	ND		1.0	0.24
60-29-7	Ethyl ether	ND		10	0.63
108-20-3	Isopropyl ether	ND		10	0.62
637-92-3	Tert-butyl ethyl ether	ND		5.0	0.67
100-41-4	Ethylbenzene	ND		1.0	0.67
87-68-3	Hexachlorobutadiene	ND		0.40	0.40
98-82-8	Isopropylbenzene	ND		1.0	0.57
79-20-9	Methyl acetate	ND		10	16
78-93-3	2-Butanone (MEK)	ND		10	10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	8.5
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.63
108-87-2	Methylcyclohexane	ND		10	1.0
75-09-2	Methylene Chloride	2.73		2.0	1.0
136777-61-2	m-Xylene & p-Xylene	ND		2.0	1.4
91-20-3	Naphthalene	ND		5.0	2.0
103-65-1	N-Propylbenzene	ND		1.0	0.70
95-47-6	o-Xylene	ND		1.0	0.54
99-87-6	4-Isopropyltoluene	ND		1.0	0.59
135-98-8	sec-Butylbenzene	ND		1.0	0.67
100-42-5	Styrene	ND		1.0	0.60
994-05-8	Tert-amyl methyl ether	ND		5.0	0.61
98-06-6	tert-Butylbenzene	ND		1.0	0.61
127-18-4	Tetrachloroethene	ND		1.0	0.48
109-99-9	Tetrahydrofuran	ND		10	8.0

No hits in samples

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab File ID: V44372.D Lab Sample ID: MB 360-47992/3-A

Matrix: Solid Heated Purge: (Y/N) N

Instrument ID: HP #1 GC/MS Date Analyzed: 08/20/2009 17:48

GC Column: RTX-VMS ID: 0.25(um)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 360-47992/1-A	V44369.D	08/20/2009 16:35
	LCSD 360-47992/2-A	V44370.D	08/20/2009 16:59
OC-SB-421-0.0/1.0-XXX	360-24194-1	V44384.D	08/20/2009 22:36
OC-SB-425-0.0/1.0-XXX	360-24194-7	V44388.D	08/21/2009 00:11

Low LCS

VJ Qual: Acetone 40%

Chloroethane 66%

Dichlorodifluoromethane 64%

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Matrix: Solid Level: Low Lab File ID: V44369.D

Lab ID: LCS 360-47992/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	4560	91	70-130	
1,1,1,2-Tetrachloroethane	5000	4380	88	70-130	
1,1,2,2-Tetrachloroethane	5000	3540	71	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	4860	97	70-130	
1,1,2-Trichloroethane	5000	4850	97	70-130	
1,1-Dichloroethane	5000	4080	82	70-130	
1,1-Dichloroethene	5000	4290	86	70-130	
1,1-Dichloropropene	5000	4580	92	70-130	
1,2,3-Trichlorobenzene	5000	4450	89	70-130	
1,2,3-Trichloropropane	5000	4150	83	70-130	
1,2,4-Trichlorobenzene	5000	4480	90	70-130	
1,2,4-Trimethylbenzene	5000	4010	80	70-130	
1,2-Dibromo-3-Chloropropane	5000	4390	88	70-130	
Ethylene Dibromide	5000	5730	115	70-130	
1,2-Dichlorobenzene	5000	4240	85	70-130	
1,2-Dichloroethane	5000	4590	92	70-130	
1,2-Dichloropropane	5000	4410	88	70-130	
1,3,5-Trimethylbenzene	5000	4170	83	70-130	
1,3-Dichlorobenzene	5000	4340	87	70-130	
1,3-Dichloropropane	5000	4820	96	70-130	
1,4-Dichlorobenzene	5000	4330	87	70-130	
1,4-Dioxane	50000	40700	81	70-130	
2,2-Dichloropropane	5000	4970	99	70-130	
2,4,4-Trimethyl-1-pentene	5000	3990	80	70-130	
2,4,4-Trimethyl-2-pentene	5000	5210	104	70-130	
2-Chlorotoluene	5000	3870	77	70-130	
2-Hexanone	50000	39600	79	70-130	
4-Chlorotoluene	5000	4010	80	70-130	
Acetone	50000	19900	40	70-130	*
Benzene	5000	4620	92	70-130	
Bromobenzene	5000	3670	73	70-130	
Chlorobromomethane	5000	5380	108	70-130	
Dichlorobromomethane	5000	5110	102	70-130	
Bromoform	5000	4780	96	70-130	
Bromomethane	5000	4610	92	70-130	
n-Butylbenzene	5000	3950	79	70-130	
Carbon disulfide	5000	3980	80	70-130	
Carbon tetrachloride	5000	4830	97	70-130	
Chlorobenzene	5000	4510	90	70-130	
Chloroethane	5000	3290	66	70-130	*

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

09/17/2009 TC 3/22

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Matrix: Solid Level: Low Lab File ID: V44369.D

Lab ID: LCS 360-47992/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	5000	4530	91	70-130	
Chloromethane	5000	3810	76	70-130	
cis-1,2-Dichloroethene	5000	4220	84	70-130	
cis-1,3-Dichloropropene	5000	5070	101	70-130	
Cyclohexane	5000	4030	81	70-130	
Chlorodibromomethane	5000	5980	120	70-130	
Dibromomethane	5000	5050	101	70-130	
Dichlorodifluoromethane	5000	3200	64	70-130	*
Ethyl ether	5000	4060	81	70-130	
Isopropyl ether	5000	3850	77	70-130	
Tert-butyl ethyl ether	5000	3970	79	70-130	
Ethylbenzene	5000	4040	81	70-130	
Hexachlorobutadiene	5000	4160	83	70-130	
Isopropylbenzene	5000	4140	83	70-130	
Methyl acetate	50000	47100	94	70-130	
2-Butanone (MEK)	50000	37900	76	70-130	
4-Methyl-2-pentanone (MIBK)	50000	39900	80	70-130	
Methyl tert-butyl ether	5000	4020	80	70-130	
Methylcyclohexane	5000	4630	93	70-130	
Methylene Chloride	5000	4980	100	70-130	
m-Xylene & p-Xylene	10000	8250	82	70-130	
Naphthalene	5000	4250	85	70-130	
N-Propylbenzene	5000	3940	79	70-130	
o-Xylene	5000	3990	80	70-130	
4-Isopropyltoluene	5000	4430	89	70-130	
sec-Butylbenzene	5000	4080	82	70-130	
Styrene	5000	4430	89	70-130	
Tert-amyl methyl ether	5000	4150	83	70-130	
tert-Butylbenzene	5000	4560	91	70-130	
Tetrachloroethene	5000	6030	121	70-130	
Tetrahydrofuran	50000	44400	89	70-130	
Toluene	5000	5160	103	70-130	
trans-1,2-Dichloroethene	5000	3960	79	70-130	
trans-1,3-Dichloropropene	5000	5260	105	70-130	
Trichloroethene	5000	5100	102	70-130	
Trichlorofluoromethane	5000	4650	93	70-130	
Vinyl chloride	5000	4150	83	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

09/17/2009

TC 3/22

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab File ID: V44483.D Lab Sample ID: MB 360-48150/3-A

Matrix: Solid Heated Purge: (Y/N) N

Instrument ID: HP #1 GC/MS Date Analyzed: 08/26/2009 02:24

GC Column: RTX-VMS ID: 0.25(um)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 360-48150/1-A	V44478.D	08/26/2009 00:23
	LCSD 360-48150/2-A	V44479.D	08/26/2009 00:47
OC-SB-421-8.0/10.0-XXX	360-24194-3	V44486.D	08/26/2009 03:37
OC-SB-424-7.0/9.0-XXX	360-24194-6	V44487.D	08/26/2009 04:01
OC-SB-425-6.0/8.0-XXX	360-24194-9	V44488.D	08/26/2009 04:25

VJ due to ↓ LCS Recoveries

Acetone = 68%

Dichlorodifluoromethane = 66%

TC
3/22

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Matrix: Solid Level: Low Lab File ID: V44478.D

Lab ID: LCS 360-48150/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	92.9	93	70-130	
1,1,1,2-Tetrachloroethane	100	102	102	70-130	
1,1,2,2-Tetrachloroethane	100	98.3	98	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	98.7	99	70-130	
1,1,2-Trichloroethane	100	93.0	93	70-130	
1,1-Dichloroethane	100	104	104	70-130	
1,1-Dichloroethene	100	100	100	70-130	
1,1-Dichloropropene	100	97.8	98	70-130	
1,2,3-Trichlorobenzene	100	106	106	70-130	
1,2,3-Trichloropropane	100	102	102	70-130	
1,2,4-Trichlorobenzene	100	105	105	70-130	
1,2,4-Trimethylbenzene	100	99.5	99	70-130	
1,2-Dibromo-3-Chloropropane	100	99.4	99	70-130	
Ethylene Dibromide	100	93.8	94	70-130	
1,2-Dichlorobenzene	100	100	100	70-130	
1,2-Dichloroethane	100	98.1	98	70-130	
1,2-Dichloropropane	100	114	114	70-130	
1,3,5-Trimethylbenzene	100	103	103	70-130	
1,3-Dichlorobenzene	100	101	101	70-130	
1,3-Dichloropropane	100	90.8	91	70-130	
1,4-Dichlorobenzene	100	102	102	70-130	
1,4-Dioxane	1000	1010	101	70-130	
2,2-Dichloropropane	100	90.3	90	70-130	
2,4,4-Trimethyl-1-pentene	100	115	115	70-130	
2,4,4-Trimethyl-2-pentene	100	106	106	70-130	
2-Chlorotoluene	100	101	101	70-130	
2-Hexanone	1000	843	84	70-130	
4-Chlorotoluene	100	103	103	70-130	
Acetone	1000	683	68	70-130	*
Benzene	100	95.2	95	70-130	
Bromobenzene	100	99.3	99	70-130	
Chlorobromomethane	100	92.0	92	70-130	
Dichlorobromomethane	100	98.8	99	70-130	
Bromoform	100	97.6	98	70-130	
Bromomethane	100	107	107	70-130	
n-Butylbenzene	100	105	105	70-130	
Carbon disulfide	100	96.3	96	70-130	
Carbon tetrachloride	100	99.8	100	70-130	
Chlorobenzene	100	100	100	70-130	
Chloroethane	100	102	102	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Matrix: Solid Level: Low Lab File ID: V44478.D

Lab ID: LCS 360-48150/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	104	104	70-130	
Chloromethane	100	97.9	98	70-130	
cis-1,2-Dichloroethene	100	98.0	98	70-130	
cis-1,3-Dichloropropene	100	93.4	93	70-130	
Cyclohexane	100	91.4	91	70-130	
Chlorodibromomethane	100	93.4	93	70-130	
Dibromomethane	100	95.2	95	70-130	
Dichlorodifluoromethane	100	65.8	66	70-130	*
Ethyl ether	100	95.0	95	70-130	
Isopropyl ether	100	92.6	93	70-130	
Tert-butyl ethyl ether	100	103	103	70-130	
Ethylbenzene	100	106	106	70-130	
Hexachlorobutadiene	100	101	101	70-130	
Isopropylbenzene	100	103	103	70-130	
Methyl acetate	1000	901	90	70-130	
2-Butanone (MEK)	1000	881	88	70-130	
4-Methyl-2-pentanone (MIBK)	1000	979	98	70-130	
Methyl tert-butyl ether	100	101	101	70-130	
Methylcyclohexane	100	93.5	94	70-130	
Methylene Chloride	100	115	115	70-130	
m-Xylene & p-Xylene	200	215	108	70-130	
Naphthalene	100	100	100	70-130	
N-Propylbenzene	100	104	104	70-130	
o-Xylene	100	99.6	100	70-130	
4-Isopropyltoluene	100	108	108	70-130	
sec-Butylbenzene	100	103	103	70-130	
Styrene	100	100	100	70-130	
Tert-amyl methyl ether	100	103	103	70-130	
tert-Butylbenzene	100	107	107	70-130	
Tetrachloroethene	100	97.6	98	70-130	
Tetrahydrofuran	1000	1050	105	70-130	
Toluene	100	95.6	96	70-130	
trans-1,2-Dichloroethene	100	92.3	92	70-130	
trans-1,3-Dichloropropene	100	93.5	93	70-130	
Trichloroethene	100	97.9	98	70-130	
Trichlorofluoromethane	100	95.5	95	70-130	
Vinyl chloride	100	99.8	100	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 3/22

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab File ID: V44532.D Lab Sample ID: MB 360-48289/3-A

Matrix: Solid Heated Purge: (Y/N) N

Instrument ID: HP #1 GC/MS Date Analyzed: 08/27/2009 19:50

GC Column: RTX-VMS ID: 0.25(um)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 360-48289/1-A	V44527.D	08/27/2009 17:50
	LCSD 360-48289/2-A	V44528.D	08/27/2009 18:14
OC-SB-421-10.5/12.5-XXX	360-24194-2	V44538.D	08/27/2009 22:14

LCS out low = Acetone 49% UJ Qual

LCS out high = 2,4,4-TMP-1 134% J Qual

TC
3/22

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Matrix: Solid Level: Low Lab File ID: V44527.D

Lab ID: LCS 360-48289/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	4940	99	70-130	
1,1,1,2-Tetrachloroethane	5000	4950	99	70-130	
1,1,2,2-Tetrachloroethane	5000	4290	86	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	5790	116	70-130	
1,1,2-Trichloroethane	5000	4000	80	70-130	
1,1-Dichloroethane	5000	5040	101	70-130	
1,1-Dichloroethene	5000	5130	103	70-130	
1,1-Dichloropropene	5000	5040	101	70-130	
1,2,3-Trichlorobenzene	5000	4710	94	70-130	
1,2,3-Trichloropropane	5000	4820	96	70-130	
1,2,4-Trichlorobenzene	5000	4840	97	70-130	
1,2,4-Trimethylbenzene	5000	4950	99	70-130	
1,2-Dibromo-3-Chloropropane	5000	4310	86	70-130	
Ethylene Dibromide	5000	3960	79	70-130	
1,2-Dichlorobenzene	5000	4640	93	70-130	
1,2-Dichloroethane	5000	4430	89	70-130	
1,2-Dichloropropane	5000	5310	106	70-130	
1,3,5-Trimethylbenzene	5000	5250	105	70-130	
1,3-Dichlorobenzene	5000	4900	98	70-130	
1,3-Dichloropropane	5000	3970	79	70-130	
1,4-Dichlorobenzene	5000	4740	95	70-130	
1,4-Dioxane	50000	41600	83	70-130	
2,2-Dichloropropane	5000	5400	108	70-130	
2,4,4-Trimethyl-1-pentene	5000	6690	134	70-130	*
2,4,4-Trimethyl-2-pentene	5000	6250	125	70-130	
2-Chlorotoluene	5000	5000	100	70-130	
2-Hexanone	50000	35500	71	70-130	
4-Chlorotoluene	5000	5050	101	70-130	
Acetone	50000	24500	49	70-130	*
Benzene	5000	4530	91	70-130	
Bromobenzene	5000	4810	96	70-130	
Chlorobromomethane	5000	4220	84	70-130	
Dichlorobromomethane	5000	4430	89	70-130	
Bromoform	5000	4300	86	70-130	
Bromomethane	5000	5310	106	70-130	
n-Butylbenzene	5000	5410	108	70-130	
Carbon disulfide	5000	4730	95	70-130	
Carbon tetrachloride	5000	5120	102	70-130	
Chlorobenzene	5000	4760	95	70-130	
Chloroethane	5000	4020	80	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
3/22

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Matrix: Solid Level: Low Lab File ID: V44528.D

Lab ID: LCSD 360-48289/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	5000	5280	106	5	25	70-130	
Chloromethane	5000	5360	107	5	25	70-130	
cis-1,2-Dichloroethene	5000	5070	101	8	25	70-130	
cis-1,3-Dichloropropene	5000	4500	90	7	25	70-130	
Cyclohexane	5000	5740	115	2	25	70-130	
Chlorodibromomethane	5000	4410	88	7	25	70-130	
Dibromomethane	5000	4540	91	7	25	70-130	
Dichlorodifluoromethane	5000	3830	77	6	25	70-130	
Ethyl ether	5000	4410	88	11	25	70-130	
Isopropyl ether	5000	4810	96	9	25	70-130	
Tert-butyl ethyl ether	5000	5240	105	9	25	70-130	
Ethylbenzene	5000	5780	116	9	25	70-130	
Hexachlorobutadiene	5000	5410	108	7	25	70-130	
Isopropylbenzene	5000	5800	116	7	25	70-130	
Methyl acetate	50000	45400	91	12	25	70-130	
2-Butanone (MEK)	50000	42300	85	8	25	70-130	
4-Methyl-2-pentanone (MIBK)	50000	48300	97	12	25	70-130	
Methyl tert-butyl ether	5000	4950	99	10	25	70-130	
Methylcyclohexane	5000	5800	116	1	25	70-130	
Methylene Chloride	5000	6710	134	8	25	70-130	*
m-Xylene & p-Xylene	10000	11600	116	9	25	70-130	
Naphthalene	5000	4700	94	9	25	70-130	
N-Propylbenzene	5000	5790	116	8	25	70-130	
o-Xylene	5000	5360	107	7	25	70-130	
4-Isopropyltoluene	5000	5960	119	6	25	70-130	
sec-Butylbenzene	5000	5930	119	8	25	70-130	
Styrene	5000	5170	103	10	25	70-130	
Tert-amyl methyl ether	5000	5110	102	8	25	70-130	
tert-Butylbenzene	5000	6090	122	9	25	70-130	
Tetrachloroethene	5000	5120	102	7	25	70-130	
Tetrahydrofuran	50000	49600	99	8	25	70-130	
Toluene	5000	4870	97	9	25	70-130	
trans-1,2-Dichloroethene	5000	4970	99	7	25	70-130	
trans-1,3-Dichloropropene	5000	4360	87	6	25	70-130	
Trichloroethene	5000	5130	103	9	25	70-130	
Trichlorofluoromethane	5000	5450	109	7	25	70-130	
Vinyl chloride	5000	5620	112	7	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

NO Quals
NO hits
09/17/2009 TR
3/22

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Lab File ID: V44509.D Lab Sample ID: MB 360-48229/3-A

Matrix: Solid Heated Purge: (Y/N) N

Instrument ID: HP #1 GC/MS Date Analyzed: 08/26/2009 19:26

GC Column: RTX-VMS ID: 0.25 (um)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 360-48229/1-A	V44504.D	08/26/2009 17:27
	LCSD 360-48229/2-A	V44505.D	08/26/2009 17:51
OC-SB-424-0.0/1.0-XXX	360-24194-4	V44518.D	08/26/2009 23:12
OC-TBK-002	360-24194-10	V44519.D	08/26/2009 23:38

LCSD
UJ Qual Acetone = 52%

TC
3/22

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Matrix: Solid Level: Low Lab File ID: V44504.D

Lab ID: LCS 360-48229/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	102	102	70-130	
1,1,1,2-Tetrachloroethane	100	107	107	70-130	
1,1,2,2-Tetrachloroethane	100	103	103	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	113	113	70-130	
1,1,2-Trichloroethane	100	90.3	90	70-130	
1,1-Dichloroethane	100	108	108	70-130	
1,1-Dichloroethene	100	109	109	70-130	
1,1-Dichloropropene	100	104	104	70-130	
1,2,3-Trichlorobenzene	100	108	108	70-130	
1,2,3-Trichloropropane	100	105	105	70-130	
1,2,4-Trichlorobenzene	100	108	108	70-130	
1,2,4-Trimethylbenzene	100	105	105	70-130	
1,2-Dibromo-3-Chloropropane	100	99.0	99	70-130	
Ethylene Dibromide	100	90.2	90	70-130	
1,2-Dichlorobenzene	100	102	102	70-130	
1,2-Dichloroethane	100	96.9	97	70-130	
1,2-Dichloropropane	100	119	119	70-130	
1,3,5-Trimethylbenzene	100	110	110	70-130	
1,3-Dichlorobenzene	100	103	103	70-130	
1,3-Dichloropropane	100	91.9	92	70-130	
1,4-Dichlorobenzene	100	104	104	70-130	
1,4-Dioxane	1000	1030	103	70-130	
2,2-Dichloropropane	100	115	115	70-130	
2,4,4-Trimethyl-1-pentene	100	133	133	70-130	*
2,4,4-Trimethyl-2-pentene	100	119	119	70-130	
2-Chlorotoluene	100	106	106	70-130	
2-Hexanone	1000	830	83	70-130	
4-Chlorotoluene	100	107	107	70-130	
Acetone	1000	699	70	70-130	
Benzene	100	95.5	96	70-130	
Bromobenzene	100	105	105	70-130	
Chlorobromomethane	100	92.0	92	70-130	
Dichlorobromomethane	100	97.8	98	70-130	
Bromoform	100	96.7	97	70-130	
Bromomethane	100	124	124	70-130	
n-Butylbenzene	100	114	114	70-130	
Carbon disulfide	100	103	103	70-130	
Carbon tetrachloride	100	107	107	70-130	
Chlorobenzene	100	104	104	70-130	
Chloroethane	100	116	116	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

No hits in 09/17/2009 Samples NO Quals. TC 3/22

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24194-1

SDG No.: OCRI-02

Matrix: Solid Level: Low Lab File ID: V44505.D

Lab ID: LCSD 360-48229/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	99.3	99	3	25	70-130	
1,1,1,2-Tetrachloroethane	100	101	101	6	25	70-130	
1,1,2,2-Tetrachloroethane	100	92.4	92	11	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	105	105	8	25	70-130	
1,1,2-Trichloroethane	100	83.3	83	8	25	70-130	
1,1-Dichloroethane	100	103	103	4	25	70-130	
1,1-Dichloroethene	100	107	107	2	25	70-130	
1,1-Dichloropropene	100	101	101	3	25	70-130	
1,2,3-Trichlorobenzene	100	94.1	94	14	25	70-130	
1,2,3-Trichloropropane	100	97.6	98	7	25	70-130	
1,2,4-Trichlorobenzene	100	96.8	97	11	25	70-130	
1,2,4-Trimethylbenzene	100	102	102	2	25	70-130	
1,2-Dibromo-3-Chloropropane	100	89.2	89	10	25	70-130	
Ethylene Dibromide	100	82.9	83	8	25	70-130	
1,2-Dichlorobenzene	100	96.0	96	6	25	70-130	
1,2-Dichloroethane	100	89.4	89	8	25	70-130	
1,2-Dichloropropane	100	111	111	7	25	70-130	
1,3,5-Trimethylbenzene	100	107	107	3	25	70-130	
1,3-Dichlorobenzene	100	99.3	99	4	25	70-130	
1,3-Dichloropropane	100	85.0	85	8	25	70-130	
1,4-Dichlorobenzene	100	99.1	99	5	25	70-130	
1,4-Dioxane	1000	921	92	11	25	70-130	
2,2-Dichloropropane	100	112	112	2	25	70-130	
2,4,4-Trimethyl-1-pentene	100	124	124	7	25	70-130	
2,4,4-Trimethyl-2-pentene	100	110	110	8	25	70-130	
2-Chlorotoluene	100	103	103	3	25	70-130	
2-Hexanone	1000	726	73	13	25	70-130	
4-Chlorotoluene	100	105	105	2	25	70-130	
Acetone	1000	521	52	29	25	70-130	*
Benzene	100	91.6	92	4	25	70-130	
Bromobenzene	100	99.6	100	5	25	70-130	
Chlorobromomethane	100	86.1	86	7	25	70-130	
Dichlorobromomethane	100	91.5	92	7	25	70-130	
Bromoform	100	89.0	89	8	25	70-130	
Bromomethane	100	119	119	4	25	70-130	
n-Butylbenzene	100	111	111	3	25	70-130	
Carbon disulfide	100	101	101	1	25	70-130	
Carbon tetrachloride	100	105	105	2	25	70-130	
Chlorobenzene	100	99.9	100	4	25	70-130	
Chloroethane	100	110	110	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

UJ Qual Associated

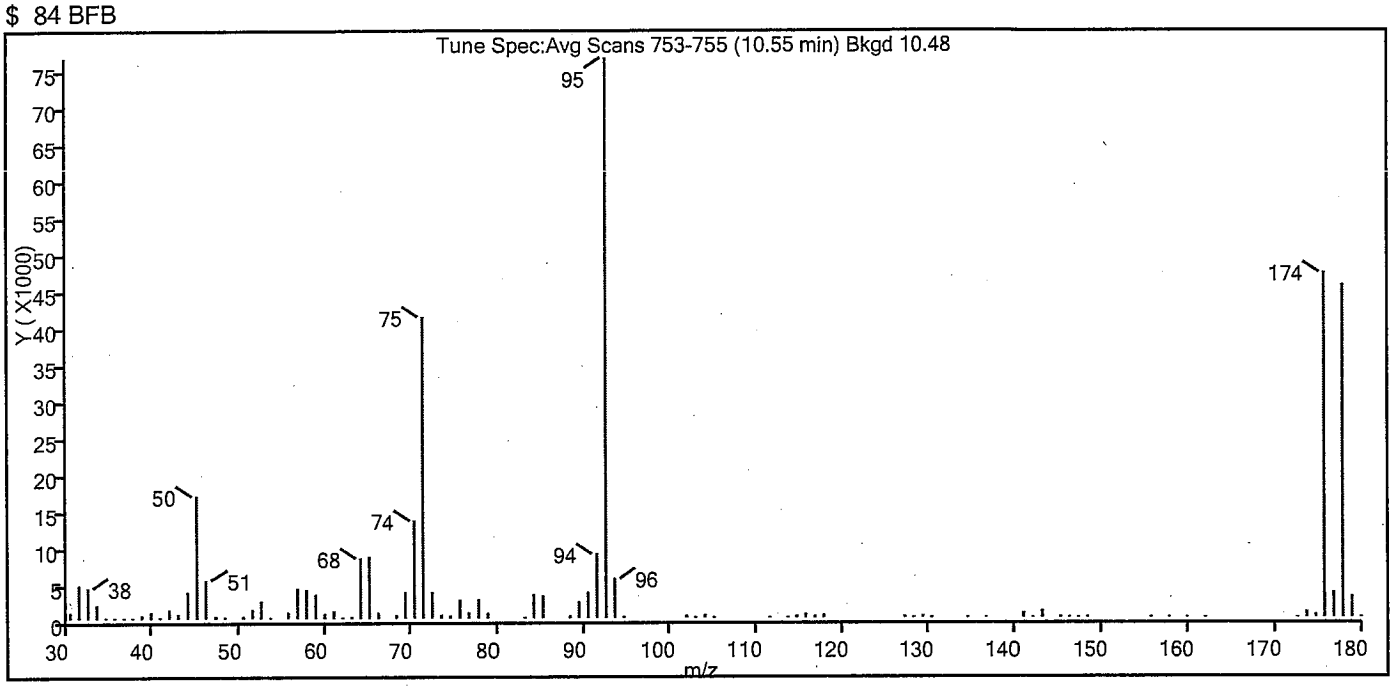
09/17/2009

TC 3/22

MS Tune Report

Data File: \\wessvr06\chromdata\AGILGCMS2.i\20090824-1.b\V06326.D
Inj Date: 24-Aug-2009 11:51:30 Limit Group: VMS - 8260 VOA Calibration
Lims Batch ID: 48065 Lims Sample ID: 1
Client ID: Instrument: Agilent#2 GC/MS
Sample Info: cub
Sample Amount: 1.00 Operator: CT

$ 84 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.83
75	30.00 - 60.00% of mass 95	53.70
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.53 (0.87)
174	Greater than 50.00% of mass 95	61.51
175	5.00 - 9.00% of mass 174	4.51 (7.34)
176	95.00 - 101.00% of mass 174	59.34 (96.46)
177	5.00 - 9.00% of mass 176	3.81 (6.43)

$\frac{175}{174} = \frac{3433}{46800} = 0.0733$ ✓

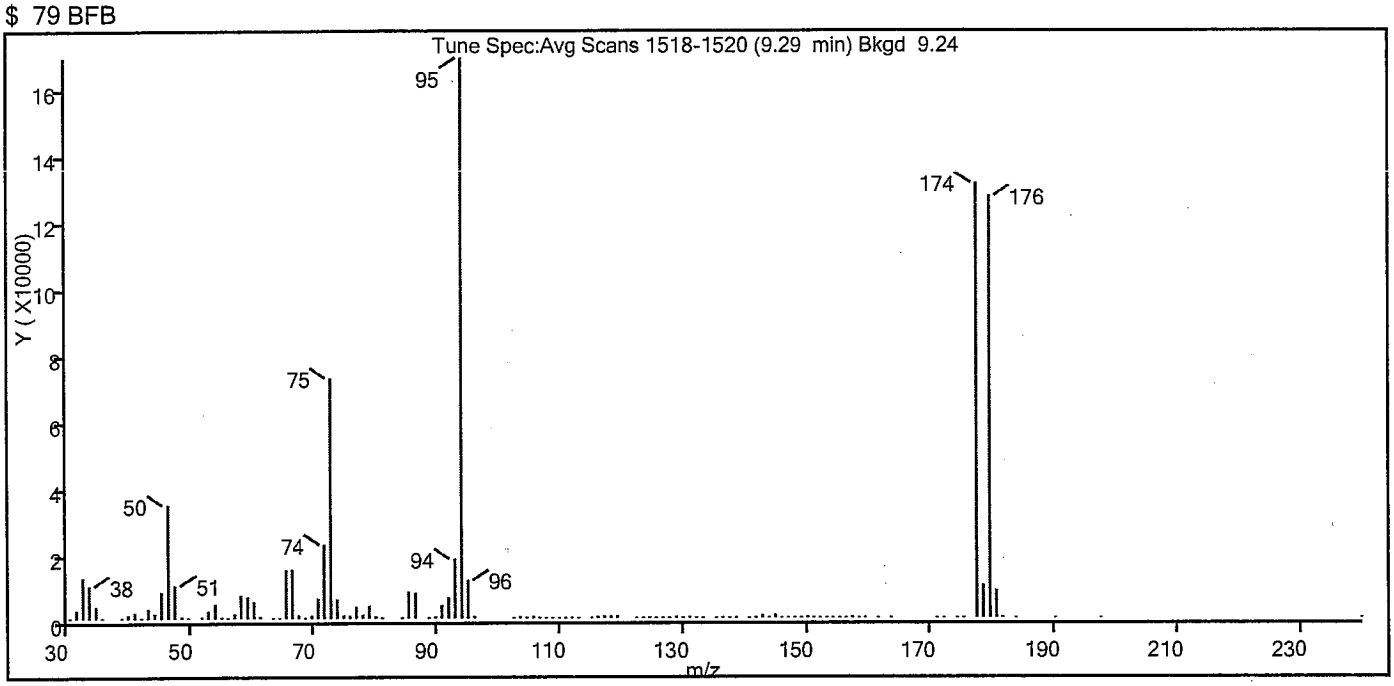
TC
3/24/10

$\frac{176}{174} = \frac{45144}{46800} = 0.964615$ ✓

MS Tune Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090820-1.b\V44367.D
Inj Date: 20-Aug-2009 15:46:30 Limit Group: VMS - 8260 VOA Calibration
Lims Batch ID: 47995 Lims Sample ID: 1
Client ID: Instrument: HP #1 GC/MS
Sample Info: BFB
Sample Amount: 1.00 Operator: CR

$ 79 BFB



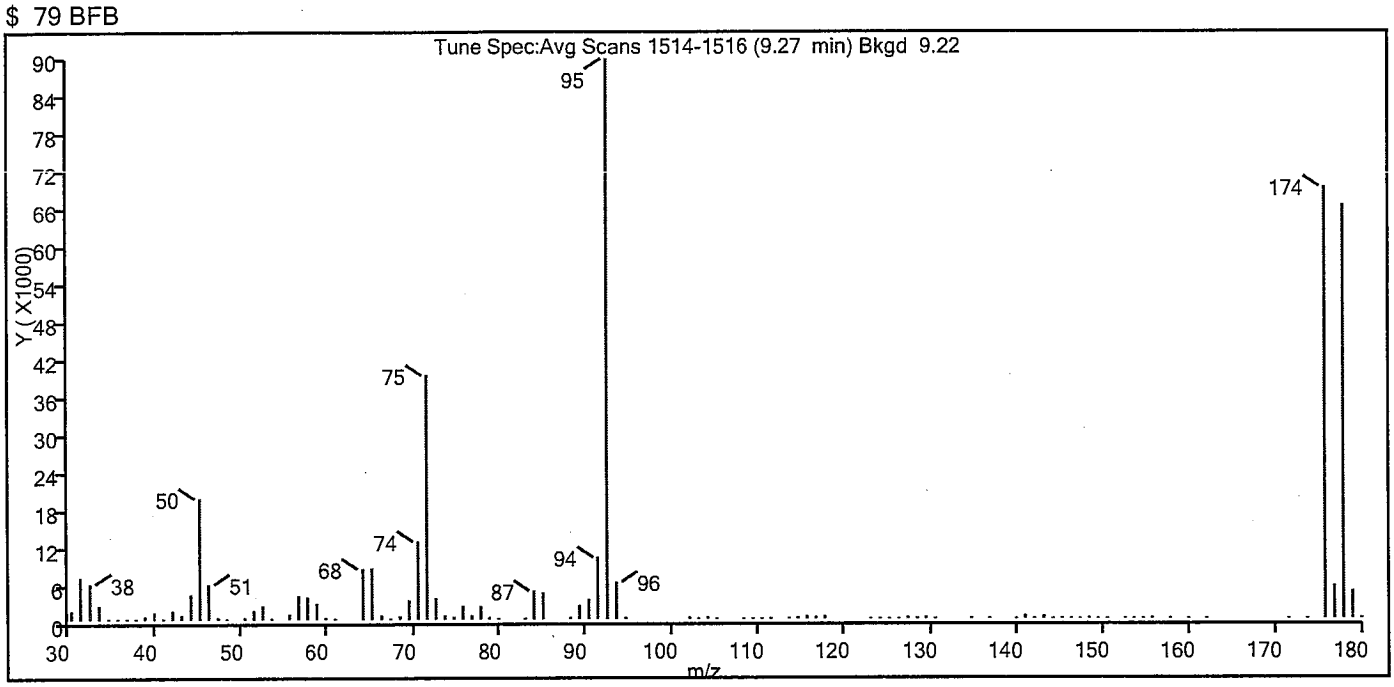
m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.26
75	30.00 - 60.00% of mass 95	42.83
96	5.00 - 9.00% of mass 95	6.78
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.54
175	5.00 - 9.00% of mass 174	5.90 (7.60)
176	95.00 - 101.00% of mass 174	75.25 (97.04)
177	5.00 - 9.00% of mass 176	4.92 (6.54)

✓
3/23/09
TC

MS Tune Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44476.D
Inj Date: 25-Aug-2009 23:35:30 Limit Group: VMS - 8260 VOA Calibration
Lims Batch ID: 48159 Lims Sample ID: 1
Client ID: Instrument: HP #1 GC/MS
Sample Info: BFB
Sample Amount: 1.00 Operator: CR

$ 79 BFB



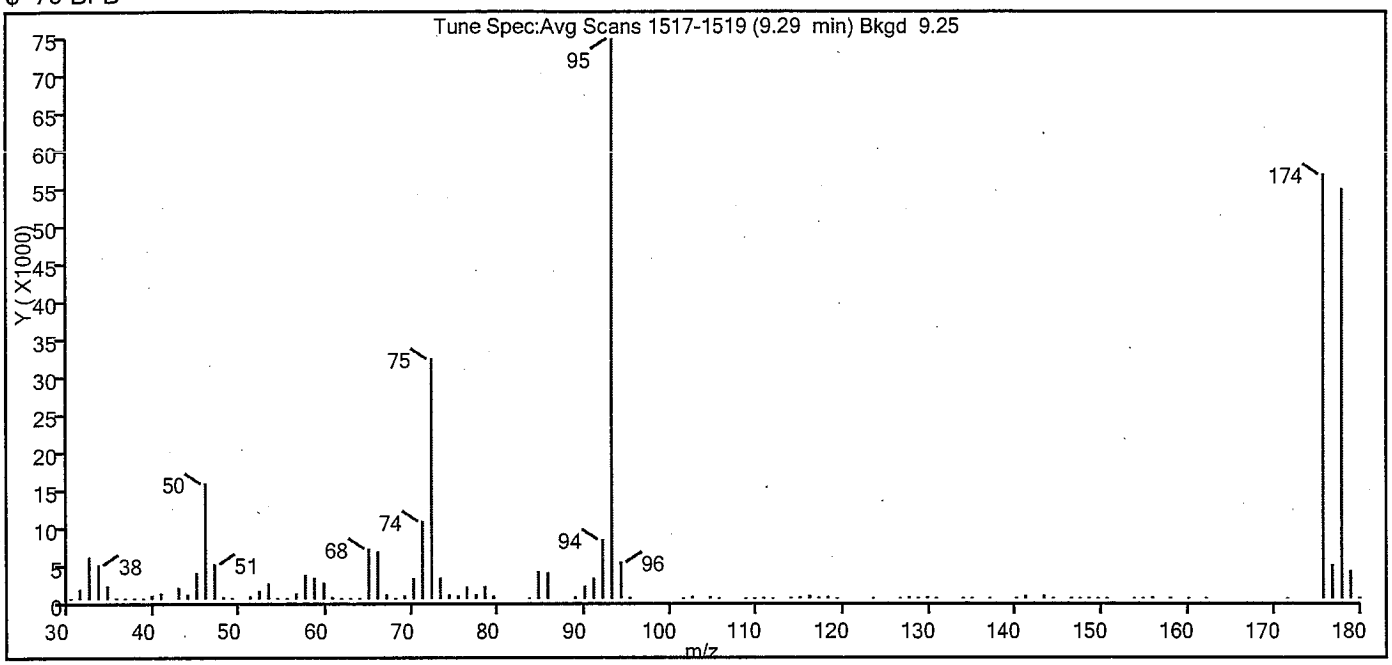
m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.54
75	30.00 - 60.00% of mass 95	43.57
96	5.00 - 9.00% of mass 95	6.58
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.02
175	5.00 - 9.00% of mass 174	5.83 (7.56)
176	95.00 - 101.00% of mass 174	73.81 (95.83)
177	5.00 - 9.00% of mass 176	4.88 (6.62)

TC
OK 3/24/10

MS Tune Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\V44502.D		
Inj Date:	26-Aug-2009 16:39:30	Limit Group:	VMS - 8260 VOA Calibration
Lims Batch ID:	48231	Lims Sample ID:	1
Client ID:		Instrument:	HP #1 GC/MS
Sample Info:	BFB		
Sample Amount:	1.00	Operator:	CR

$ 79 BFB



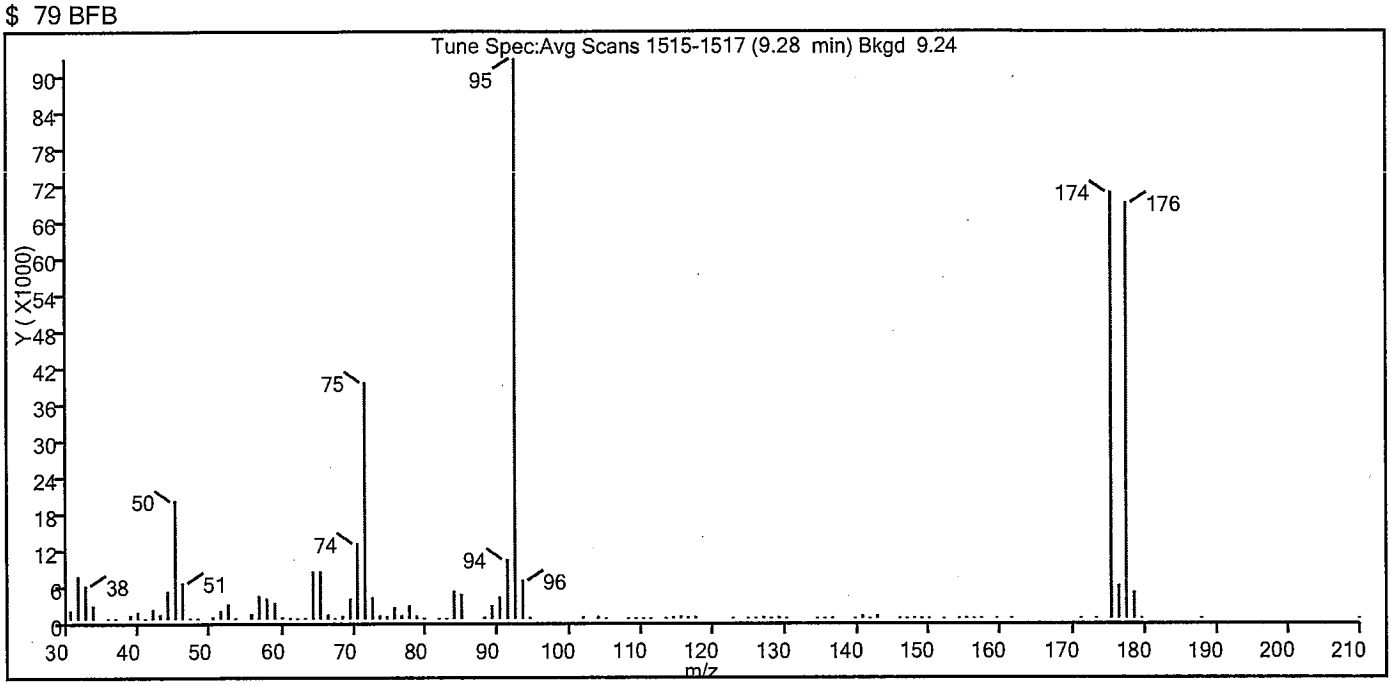
m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.58
75	30.00 - 60.00% of mass 95	42.82
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.71
175	5.00 - 9.00% of mass 174	5.91 (7.81)
176	95.00 - 101.00% of mass 174	73.16 (96.63)
177	5.00 - 9.00% of mass 176	4.89 (6.68)

✓ OK
TC
3/24/10

MS Tune Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\V44525.D
Inj Date: 27-Aug-2009 17:02:30 Limit Group: VMS - 8260 VOA Calibration
Lims Batch ID: 48296 Lims Sample ID: 1
Client ID: Instrument: HP #1 GC/MS
Sample Info: BFB
Sample Amount: 1.00 Operator: CR

$ 79 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.09
75	30.00 - 60.00% of mass 95	42.24
96	5.00 - 9.00% of mass 95	6.83
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	76.10
175	5.00 - 9.00% of mass 174	5.84 (7.67)
176	95.00 - 101.00% of mass 174	74.16 (97.45)
177	5.00 - 9.00% of mass 176	4.74 (6.39)

TC
OK
3/24/10

TAL-Soil

09/17/2009

Client: Olin ~~Chemical~~ Corporation | Client Project #: 6107090016
Address: 3855 N. Ocoee St Suit 200 | Work Site ID: Wilmington MA
Cleveland, TN 37312 | Reports Sent To: Steve Morrow
Phone: ~~207 828 3415~~ 423 336-4511 (TC) | Fax: | Email: SGMorrow@olin.com | Email Rpt: ___

Requested Turnaround Time (SPECIFY): Standard ___ Rush ___ (Lab Approval Required)
Regulatory Programs: MADEP MCP ___ Superfund ___
Report Requirements: Level IV Package ___ Level II Package ___
EDD Requirements: MACTEC EQUIS EZ EDD ___

INVOICE INFO | Shaded Areas for office use only
Company Name: ~~MACTEC~~ (TC) Olin Corp
Company Contact: ~~Tige Cunningham~~ ERG Accounts Payable
Address: Same as client
Phone: | Email
Job #: | Quote #:
Lab SDG #: | PO #:

MACTEC

(TC) OK

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	ME V VOA and TICs (5035A/8260B)*	G SVOA and TICs (8270C)	G NDMA (Modified 8270C)	G Diphenylamine (8270C)**	G EPH (MADEP-EPH-04-1.1)	ME V VPH (MADEP-VPH-04-1.1)	G TAL Metals (6010B / 7471A)	G PCBs (8082)	G Anions (EPA 300)***	G Amonnia (LACHAT)	G TOC (Lloyd Kahn)	G Phathalic Anhydride (Mod 8000 HPLC)	G Formaldehyde/Acetaldehyde (SW-846 8315A)*	G Phthalic Anhydride (acid) (Method 8000 - LC)*	<--Preservative Type (4) <--Bottle Type (5) Comments (Special Instructions)
																					See attached for Category 1 = (cat1) Category 2 = (cat2) Category 3 = (cat3)
OC-SB-421-0.0/1.0-XXX	8/19/2009 7:40:00 AM	T	FS	SO	G	11	3	1	1	1	1	1	1		1	1	1		1	1	cat1
OC-SB-421-10.5/12.5-XXX	8/19/2009 8:05:00 AM	T	FS	SO	G	11	3	1	1	1	1	1	1		1	1	1		1	1	cat3
OC-SB-421-8.0/10-XXX	8/19/2009 7:45:00 AM	T	FS	SO	G	11	3	1	1	1	1	1	1		1	1	1		1	1	cat2
OC-SB-424-0.0/1.0-XXX	8/19/2009 11:35:00	T	FS	SO	G	8	3	1	1	1			1		1	1			1	1	cat1
OC-SB-424-17/19-XXX	8/19/2009 12:35:00	T	FS	SO	G	8	3	1	1	1			1		1	1			1	1	cat3 Canceled for VOC's
OC-SB-424-7.0/9.0-XXX	8/19/2009 12:15:00	T	FS	SO	G	8	3	1	1	1			1		1	1			1	1	cat2
OC-SB-425-0.0/1.0-XXX	8/19/2009 9:55:00 AM	T	FS	SO	G	7	3	1	1	1			1		1	1				1	cat1
OC-SB-425-18/20-XXX	8/19/2009 10:25:00	T	FS	SO	G	8	3	1	1	1			1		1	1			1	1	cat3 Canceled for VOC's
OC-SB-425-6.0/8.0-XXX	8/19/2009 10:05:00	T	FS	SO	G	8	3	1	1	1			1		1	1			1	1	cat2
OC-TBK-002	8/19/2009 2:00:00 PM	T	TB	SOIL	G	3	3														cat1

TAL Soil

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass

* = Formaldehyde /Acetaldehyde analyzed at TAL-Tallahassee Florida

* = Phthalic Anhydride (acid) analyzed at TAL-Tallahassee Florida

** = Using Method 3620B

*** = Sulfate, Chloride, Nitrate, Nitrite, Flouride, Bromid

Cooler? Y / N	MADEP Requirement
	Samples Iced? Y / N
Temp @ receipt: 3.8 Deg C	
Preservation / pH checked? Y / N	
By: /	Date: /

Relinquished: _____ ***Date:*** 8/19/09 ***Time:*** 1520 ***Received:*** _____ ***Date:*** 8/19/09 ***Time:*** 1520

Relinquished: Tim Kwallman ***Date:*** 8/19/09 ***Time:*** 1730 ***Received:*** _____ ***Date:*** 8/19/09 ***Time:*** 1730

Print Draft | Print Final and Close

TAL- Soil

Page 5 of 7

Client: Olin Corporation	Client Project #: 6107090016	INVOICE INFO	Shaded Areas for office use only
Address: 3855 North Ocoee St. Suite 200	Work Site ID: Wilmington, MA	Company Name: Olin Corp	
Cleveland, TN 37312	Reports Sent To: Steve Morrow	Company Contact: ERG Accounts Payable	
Phone: 423-336-4511 Fax: 423-336-1466	Email SGMorrow@olin.com Email Rpt:____	Address: Same as Client	
Requested Turnaround Time (SPECIFY)	Regulatory Programs: MADEP MCP____ Superfund ____	Phone:	Email
Standard____ Rush____ (Lab Approval Required)	Report Requirements Level IV Package ____ Level II Package ____	Job #	Quote #
	EDD Requirements: MACTEC EQUIS EZ EDD ____	Lab SDG #	PO #

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	VOA and TICs (5035A/8260B)*	SVOA and TICs (8270C)	NDMA (Modified 8270C)	Diphenylamine (8270C)**	EPH (MADEP-EPH-04-1.1)	VPH (MADEP-VPH-04-1.1)	TAL Metals (6010B / 7471A)	PCBs (8082)	Anions (EPA 300)***	Amonnia (LACHAT)	TOC (Lloyd Kahn)	Phathalic Anhydride (Mod 8000 HPLC)							Formaldehyde/Acetaldehyde (SW-846 8315A)*	Phthalic Anhydride (acid) (Method 8000 - LC)*			Comments (Special Instructions)
							ME	-	-	-	-	ME	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<--Preservative Type (4)
							V	G	G	G	G	V	G	G	G	G	G	G							G	G			<--Bottle Type (5)
OC-TBK-003	8/19/2009 2:50:00 PM	T	TB	SOIL	G	1						1																	

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass

* = Formaldehyde /Acetaldehyde analyzed at TAL-Tallahassee Florida

* = Phthalic Anhydride (acid) analyzed at TAL-Tallahassee Florida

** = Using Method 3620B

*** = Sulfate, Chloride, Nitrate, Nitrite, Flouride, Bromid

Cooler ? Y / N	MADEP Requirement
	Samples Iced? Y / N
Temp @ receipt: 3.8 Deg C	
Preservation / pH checked? Y / N	
By: /	Date: /

Relinquished: [signature] *Date:* 8/19/09 *Time:* 1520 *Received:* Tim Knollmy *Date:* 8/19/09 *Time:* 1520

Relinquished: Tim Knollmy *Date:* 8/19/09 *Time:* 1730 *Received:* [signature] *Date:* 8/19/09 *Time:* 1730

Print Draft | Print Final and Close

09/17/2009

TAL-Water

09/17/2009

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	

Requested Turnaround Time (SPECIFY)	Regulatory Programs: MADEP MCP____ Superfund ____
Standard_____ Rush_____ (Lab Approval Required)	Report Requirements Level IV Package ____ Level II Package ____
	EDD Requirements: MACTEC EQUIS EZ EDD _____

INVOICE INFO	Shaded Areas for office use only
Company Name:	Olin Corp
Company Contact:	ERG Accounts Payable
Address:	Same as Client
Phone:	Email
Job #	Quote #
Lab SDG #	PO #

MACTEC

TC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	VOA and TICs (8260B)	SVOA and TICs (8270C)	NDMA/NDPA (WS-MS-0012)*	Diphenylamine (8270C)**	Pesticides (8081)	PCBs (8082)	EPH (MADEP-EPH-04-1.1)	VPH (MADEP-VPH-04-1.1)	TAL Metals (6010B/7470A)	Anions (EPA 300)***	Ammonia (LACHAT)	Alkalinity (SM 2320B)	Hardness (SM 2340B)	pH (SM 4500)	Conductivity (SM 2510B)	TDS (SM 2540C)	TSS (SM 2540D)	TOC (Lloyd Kahn)	COD (EPA 410.4)	Formaldehyde/Acetaldehyde (SW-846 8315A)*	Phthalic Anhydride (acid) (Mod 8000 - HPLC)*	Alkylphenols (WS-MS-0010)*	Herbicides (8151A)	Comments (Special Instructions)
							HA	-	-	-	-	-	HA	HA	NI	-	SA	-	NI	-	-	-	-	SA	SA	-	-	SA	-	<--Preservative Type (4)
							V	AG	AG	AG	AG	AG	AG	V	P	P	P	P	P	P	P	P	P	AG	P	AG	V	AG	AG	<--Bottle Type (5)
OC-EBK-002	8/19/2009 9:30:00 AM	T	EB	BW	G	20	3	2	X	2			2	3	1	1	1										2	3			add NDMA per Tye Cunningham Re 8/26/09

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass

* = NDMA analyzed at TAL-West Sacramento, CA

* = Alkylphenols analyzed at TAL-West Sacramento, CA

* = Phthalic Anhydride analyzed at TAL-West Sacramento, C

* = Formaldehyde analyzed at TAL-Tallahassee Florida

** = Using Method 3620B

*** = Sulfate, Chloride, Nitrate, Nitrite, Flouride, Bromid

Relinquished:		Date: 8/19/09	Time: 1520	Received:		Date: 8/19/09	Time: 1530
Relinquished:		Date: 8/19/09	Time: 1830	Received:		Date: 8/19/09	Time: 1730

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: 3.8	Deg C
Preservation / pH checked?	Y / N
By:	Date: 8/19/09

Olin Wilmington OU1 Soil Sampling Categories

There will be three categories of samples submitted to the laboratories during the soil sampling program based primarily on the depth of soil locations. These categories will be indentified in notes provided with the chain of custody submitted with samples. The following categories are included:

Category 1

Soil boring samples 0'-1': request that all samples are analyzed and reported in the normal project turnaround time (TAT).

Category 2

Soil boring samples from the 1'-10' interval: All samples are analyzed. Rush TAT is requested on a subset of analyses as indicated below:

VOCs: rush 7-day TAT
SVOCs: NDMA, and phthalic anhydride: normal 30-day TAT
DMF: normal 21-day TAT
Hydrazine: rush 7 day TAT
Metals: normal 30-day TAT (except mercury)
Mercury: 10 day TAT
Hexavalent Chromium: 10 day TAT
Formaldehyde/acetaldehyde: normal TAT
Anions: normal TAT
Ammonia: normal TAT

Category 3

Soil boring samples from >10 ft: Sample are held with analysis pending. For a subset of analyses the samples will be extracted and held by the lab pending instructions from MACTEC-Olin.

VOCs: hold pending results of Category 2
SVOCs: extract and hold pending results of Category 2
NDMA: extract and hold pending results of Category 2
DMF: extract and hold pending results of Category 2
Hydrazine: hold pending results of Category 2
Metals: hold pending results of Category 2
Mercury: hold pending results of Category 2
Hexavalent Chromium: hold pending results of Category 2
Phthalic anhydride: extract and hold pending results of Category 2
Formaldehyde/acetaldehyde: run normal TAT
Anions: run normal TAT
Ammonia: run normal TAT

For rush TAT samples the laboratory will provide preliminary results with a narrative and sample results summary report. The lab will also provide data on a preliminary data EDD. Final result and supporting data packages will be provided in the normal TAT for the project.

Supplemental Instructions to Laboratory
Soil Samples
Olin Chemical Superfund Site

TC ✓

LABORATORY: TestAmerica Laboratory

Lab SDG / Work Order #	MACTEC Field Sample ID	Lab Sample ID	Sample Date	Sample Category on the COC	Analyte/Method	Action Item/Comments
360-24194	OC-SB-421-10.5/12.5-XXX	(360-24194-2)	08/19/09	Category 3	VOC	Analyze VOC Sample as Previously Requested on COC
360-24194	OC-SB-424-17/19-XXX	(360-24194-5)	08/19/09	Category 3	VOC	Cancel Previously Requested VOC Analysis on COC
360-24194	OC-SB-425-18/20-XXX	(360-24194-8)	08/19/09	Category 3	VOC	Cancel Previously Requested VOC Analysis on COC

Tige Cunningham

Tige Cunningham

Sample Manager
MACTEC Engineering & Consulting, Inc.

8/28/09

Date

OCRI-03

Tier III on:
OC-SB-415-0.0/1.0-XXX
OC-SB-415-5.0/7.0-XXX
OC-SB-419-0.0/1.0-XXX

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / (III) (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360-24223-1

LAB #: TAL-Westfield

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Data completeness				
☑	☐	☐	All data summaries, QC forms and raw data available from hard copy or electronic data package	Contact lab if missing data. Lab to respond with 24 hours.
☑	☐	☐	Data summaries match EDD	
Holding Times and Preservation				
☑	☐	☐	Hold times met (14 days with preservation)	
☑	☐	☐	Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune)				
☑	☐	☐	Tune available for each 12-hour period samples were analyzed	
☑	☐	☐	Appropriate number of significant figures reported (at least 2)	
☑	☐	☐	Mass/Charge list (m/z) criteria met	
Initial Calibration				
☑	☐	☐	%RSD less than or equal to 30%	
* ☐	☑	☐	RRF greater than or equal to 0.05	→ All Results for 1,4-Dioxane (UJ)
Continuing Calibration				
* ☐	☑	☐	%D less than or equal to 25%	→ See attached Form 7
☐	☑	☐	RRF greater than or equal to 0.05.	
Blank Contamination				Evaluate all blanks for contamination. Highest contaminant level used for action level.
* ☑	☐	☐	Method blank contamination	→ See attached } MeCl2 in both
* ☑	☐	☐	Trip blank contamination	→ See attached
☐	☐	☐	Equipment/Rinseate blank contamination	

→ Chloroform in Rinse blank but no hits in Samples

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes NO N/A — TIER I / (II) / (III) (circle one)

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples ☐ ☑ ☐ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☐ ☑ ☐ MS/MSD RPD criteria met (water and soil <30%) ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	} see attached Form 3 → see attached Form III
Field Duplicates ☑ ☐ ☐ RPD criteria (water <30%, soils <50%) met	(TC) OC-SB-426-5.0/7.0-XXX & Field Dup = No detections
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: _____

Date: 3/25/10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Tier 3 on
OC-SB-415-0.0/1.0-XXX
OC-SB-415-5.0/20-XXX
OC-SB-419-0.0/1.0-XXX

VOLATILE/SEMIVOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

SITE: Olin Wilmington Project #: 6107/0001612 SDG #: 360-242333-1 OCRI-03

LAB #: _____

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Holding Times and Preservation				
☑	☐	☐	Check the raw data including instrument run and extraction logs to verify reported sample extraction and analysis dates.	
☑	☐	☐	Check the raw data including extraction and instrument run logs to verify reported sample extraction and analysis dates.	
Instrument Performance Check (Tune)				
☑	☐	☐	Compare the reported tuning results on each GC/MS Tuning and Mass Calibration Form with each raw data mass listing and mass spectrum submitted.	Since the spectra are obtained from chromatographic peaks that should be free from coelution problems, background subtraction actions resulting in spectral distortions for the sole purpose of meeting the contract or method specifications are contrary to quality assurance objectives and are, therefore, unacceptable.
☑	☐	☐	Verify that the laboratory has not made any transcription or calculation errors.	
☑	☐	☐	If possible, verify that spectra were generated using appropriate background subtraction techniques.	
Initial Calibration				
☑	☐	☐	Verify that the same instrument parameters were used for sample and calibration analyses, and that the instrument parameters which were utilized met method requirements.	
☑	☐	☐	Check and recalculate the average RRF and RRF for at least one volatile and semivolatile target compound associated with each internal standard.	Verify that the recalculated values agree within 10% of the laboratory reported values.
☑	☐	☐	Check and recalculate the %RSD for at least one volatile and semivolatile target compound associated with each internal standard.	Done in OCRI-01

VOLATILE/SEMIVOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes	No	N/A	TIER III	
☐	☐	☑	Review Standard Preparation Logs (if provided in the data package) to ensure that primary and secondary initial calibration standard concentrations are accurate and traceable to NIST standards.	not provided by Lab Verify that the recalculated values agree within 10% of the laboratory reported values.
☐	☐	☑	Check and recalculate the initial calibration standard concentration for one volatile and one semivolatile target compound (if standards preparation documentation was provided in the data package).	not provided by Lab
Continuing Calibration				
☑	☐	☐	Verify that the same instrument parameters were used for sample and calibration analyses, and that the instrument parameters which were utilized met method requirements.	
☑	☐	☐	Check and recalculate the RRF for at least one volatile and semivolatile target compound associated with each internal standard.	
☑	☐	☐	Check and recalculate the %D for at least one volatile and semivolatile target compound associated with each internal standard.	Verify that the recalculated values agree within 10% of the laboratory reported values.
☐	☐	☑	Review Standard Preparation Logs (if provided in the data package) to ensure that primary and secondary continuing calibration standard concentrations are accurate and traceable to NIST standards.	not provided by Lab
☐	☐	☑	Check and recalculate the continuing calibration standard concentration for one volatile and one semivolatile target compound (if standards preparation documentation was provided in the data package).	
Blanks				
☑	☐	☐	Verify from the raw data that the extraction and/or analysis dates and times, sample IDs, file IDs, etc. are accurately reported on the tabulated result forms.	
☑	☐	☐	Verify from the raw data, the Blank Summary form, and Form Is that a VOA instrument blank was analyzed in the same purging/sparging vessel (i.e, same position in the autosampler) as the sample that exceeded the instrument	

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes	NO	N/A	TIER III	
			calibration range.	
☐	☐	☑	Verify from the raw GPC data that a GPC instrument blank was analyzed after the GPC calibration and prior to sample analysis.	
☐	☐	☑	Verify from the raw Silica Gel data that a Silica Gel Column reagent blank was analyzed prior to sample analysis.	
☑	☐	☐	Check 10% of the raw data for each blank to verify that internal standard areas and retention time data, have been correctly transcribed to tabulated forms and that surrogate compound recovery data have been correctly calculated and transcribed to tabulated forms.	Review the blank chromatograms, quantitation reports, and mass spectra to ensure that no false positives or false negatives have been reported.
☑	☐	☐	Review the raw data (chromatograms, mass spectra and quantitation reports) to confirm the presence of target and non-target compounds in the blanks and to evaluate the presence of additional contaminants.	
Surrogates				
☑	☐	☐	Check raw data (e.g., chromatograms and quantitation reports) to verify that surrogate recoveries were reported accurately on the Surrogate Recovery Forms.	
☑	☐	☐	Ten percent of the surrogate compound recovery data should be checked for calculation and/or transcription errors. If errors are detected in this ten percent, then an additional ten percent of the data should be checked. If errors are found I the additional 10%, then all surrogate compound recovery calculations and transcriptions in the data package should be checked.	
Internal Standards				
☑	☐	☐	Check raw data (e.g., chromatograms and quantitation reports) to verify that the internal standard retention times and areas are accurately reported on the tabulated forms.	
Field Duplicates				
☑	☐	☐	Check and recalculate the analytical concentration for at least one positive detect and one sample quantitation limit (for a diluted sample or soil sample) for each fraction, in every field duplicate sample.	No hits in Field Dup / Sample

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

MDL Study			
☑	☐	☐ Check and recalculate the %RSD and % recoveries for at least three compounds per MDL study.	Verify that the recalculated values agree within 10% of the laboratory reported values.
☐	☐	☑ Check the standards preparation logs to verify that the stock standard used to prepare the LFB was from a source independent from the initial and continuing calibration standards.	
☑	☐	☐ Check and recalculate % recovery for at least one compound per LFB fraction.	Verify that the recalculated values agree within 10% of the laboratory reported values.
PE Samples/Accuracy Check			
☑	☐	☐ Check and recalculate the percent recovery for at least one compound per LCS fraction.	Verify that the recalculated values agree within 10% of the laboratory reported values.
☑	☐	☐ Determine what percentage of analytes were below or above PES acceptance criteria.	See OCRI-02 for Calculation Checks
☑	☐	☐ Check and recalculate the analytical concentrations for at least one compound per PES fraction.	Verify that the recalculated values agree within 10% of the laboratory reported values.
Target Compound Identification			
☑	☐	☐ Check that the RRT of a reported compound is within+/- 0.06 RRT units of the standard RRT.	
☑	☐	☐ Compare all sample compound spectra to the laboratory standard spectra and verify that the mass spectral identification criteria are met.	
☑	☐	☐ Check the sample chromatogram to verify that all major peaks of interest are identified as either target compounds, TICs, surrogate compounds, or the internal standards.	
☑	☐	☐ The validator should be aware of situations when sample carryover is a possibility, and should use professional judgment to determine if instrument cross-contamination has affected any compound identification.	

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OLIN CHEMICAL SUPERFUND SITE
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TIER III

Compound Quantitation and Reported Quant Limits				
☑	☐	☐	Recalculate, from the raw data, the concentrations for at least one positive detect and one sample quantitation limit (for a diluted sample or a soil sample) for each fraction, in every field sample to verify that laboratory reported sample results were accurately calculated according to the method.	No hits in OCRI-03 Tier 3 Samples
☑	☐	☐	Verify that the concentrations for positive detects and sample quantitation limits have been adjusted to reflect sample dilutions, concentrations, cleanup methods and dry weight factors that are not accounted for in the method.	
☑	☐	☐	Verify that the correct internal standard, quantitation ion and standard RRF were used to quantitate sample results for at least one positive detect in each fraction in every field sample.	
Tentatively Identified Compounds				
☑	☐	☐	Verify that the laboratory has generated a library search for all required peaks in the sample and blank chromatograms.	
☑	☐	☐	Verify that a target compound was not missed by the target compound search procedure and erroneously reported as a TIC in the proper analytical fraction.	
☑	☐	☐	Verify that all TICs are reported with estimated (J) concentrations by the laboratory. Verify that TIC concentrations were calculated correctly, assuming a RRF of 1.0 and using the closest eluting IS that is free of interferences.	
☑	☐	☐	Verify that the blanks do not contain any TIC peaks.	
☑	☐	☐	Examine all TIC mass spectra in every sample and blank.	Common lab contaminants: CO2, siloxanes, diethyl ether, hexane,certain freons, and phthalates. Solvent preservatives: cyclohexene, cyclohexanone, cyclohexenone, cyclohexanol, cyclohexenol, chlorocyclohexene, and chlorocyclohexanol. Aldol condensation reaction products.
☑	☐	☐	Verify that TICs were reported as unknowns if the TIC spectra presented do not meet criteria set forth in Section XIV B.4.	
☑	☐	☐	Review blank and sample TIC spectra to ensure that common laboratory artifacts/contaminants are not reported as TICs.	

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

SVOC Cleanup

Gel Permeation Chromatography (GPC)

☐	☐	☐	Verify that the GPC system was calibrated initially in accordance with the method requirements and that peak shape and resolution criteria were met.
☐	☐	☐	Confirm from the raw data that the GPC calibration check was performed at the method required frequency.
☐	☐	☐	Verify that a GPC calibration check solution was analyzed in accordance with the method and that the correct target and surrogate compounds, interferents and concentrations were used.
☐	☐	☐	Verify that surrogate compound recoveries and internal standard area counts and/or retention times in the GPC calibration check meet method QC acceptance.
☐	☐	☐	Review the raw GPC calibration check data to verify that peaks are symmetrical and resolution meets method QC acceptance criteria for target and surrogate compounds and interferents in the GPC calibration check solution.
☐	☐	☐	Check the raw GPC calibration check data to verify that retention times for any compounds or interferents in the GPC calibration solution did not vary more than +/-5% between calibrations.
☐	☐	☐	Verify that a GPC instrument blank was analyzed after each GPC calibration and calibration check and prior to sample analysis.
☐	☐	☐	Verify that there are no target compounds present at greater than or equal to the quantitation limit in the GPC instrument blank.
☐	☐	☐	Verify that surrogate compound recoveries and internal standard area counts and/or retention times (if added) in the GPC instrument blank meet method QC acceptance criteria.
☐	☐	☐	Compare the raw data to the reported results, if available, and verify that no calculation and/or transcription errors have occurred. If the result forms are not available, then the validator must review the cleanup logs to confirm that method required cleanups were performed.

N/A

JC 3/25/10

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REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

Silica Gel Cleanup				
☐	☐	☐	Verify that a Silica Gel Check solution was prepared and analyzed in accordance with the method and that the correct target and surrogate compounds, interferents, and concentrations were used.	N/A TC 3/25/10
☐	☐	☐	Verify that surrogate compound recoveries and internal standard area counts and/or retention times in the Silica Gel Check solution meet method QC acceptance criteria..	
☐	☐	☐	Verify that a Silica Gel column reagent blank was prepared with each cleanup batch and was analyzed after the Silica Gel Check solution but prior to field samples.	
☐	☐	☐	Verify that there are no target compounds present at greater than or equal to the quantitation limit in the Silica Gel column reagent blank.	
☐	☐	☐	Verify that surrogate compound recoveries and internal standard area counts and/or retention times (if added) in the Silica Gel column reagent blank meet method QC acceptance criteria.	
☐	☐	☐	Compare the raw data to the reported results, if available, and verify that no calculation and/or transcription errors have occurred. If the result forms are not available, then the validator must review the cleanup logs to confirm that method required cleanups were performed.	
System Performance				
☑	☐	☐	Evaluate all PES and other relevant QC data to determine if any analytical trends exist over the sample analysis period.	
☑	☐	☐	The validator should ascertain from the PES and other relevant QC data if there is a high or low quantitative bias for a particular compound or group of compounds.	
☑	☐	☐	The validator should ascertain from the PES and other relevant QC data if there is a potential for false negative and/or false positives to be reported.	
☑	☐	☐	The validator should ascertain from the MS/MSD and surrogate spike compound analyses if the sample matrix effects impact compound recovery, thus	Calculation performed on MS/MSD OC-SB-426-5.8/7.0

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

			indicating a method bias outside the control of the laboratory.	
☑	☐	☐	Evaluate sample and QC sample reconstructed ion chromatograms analyzed on all columns to determine if the column chromatography, peak shape,, resolution, and baseline drift has either deteriorated or improved over the sample analysis period.	
☑	☐	☐	The validator should ascertain from the raw data if unacceptable chromatography may contribute to a high or a low quantitative bias for a particular compound or group of compounds.	
☑	☐	☐	The validator should also ascertain from the raw data if unacceptable chromatography may result in a potential for false negative and/or false positive identification.	
☑	☐	☐	The validator should determine if chromatography prolems are a result of the sample matrix or are unique to the instrument.	
☑	☐	☐	The validator should determine if significant retention time shifts have occurred between initial and continuing calibration.	
☑	☐	☐	Compare the daily standard calibration area counts to ascertain if the instrument generated consistent detector responses over the sample analysis period.	
☑	☐	☐	Review the area counts of the internal standards and surrogate compounds for each sample to ascertain if there is a change in detector response.	
☑	☐	☐	The validator should evaluate the MS/MSD RPDs in conjunction with field duplicate RPDs to identify any analytical trends, ascertain if sample matrices were homogenous or heterogeneous, and determine if sampling error may have contributed to field imprecision.	
☑	☐	☐	Review all daily LFBs, low level calibrated standards, and PES data to evaluate sensitivity for each instrument to verify that no instrument has lost its ability to to accurately quantitate and identify compounds at the quantitation limit over the sample analysis period, which could possibly result in false negatives and low biased results.	

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REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER III

☑	☐	☐	Check the area counts of the individual sample, QC sample, calibration and blank internal standards to monitor instrument sensitivity changes.	
☑	☐	☐	Review the sample chromatograms for abrupt, discrete shifts in the chromatographic baseline which may indicate a change in the instrument's sensitivity or the zero setting.	
☑	☐	☐	The validator may determine that instrument sensitivity is adequate but sample matrix effects may preclude obtaining the quantitation limits required by the project DQOs using the analytical method employed.	
☑	☐	☐	Review all blank and sample results to evaluate the possibility of sample contamination introduced via either cross contamination from a previously run sample or from general lab contamination.	
☑	☐	☐	Compare blank analysis on two different instruments to determine if the contamination is instrument related or the interferents are present in the blank from sample processing activities.	
☑	☐	☐	Assess whether problematic blank results are reproducible when replicate aliquots are analyzed or are sporadic interferences.	

Validator's Signature: Tige Lee

Date: 3-25-10

Reference:

U.S. Environmental Protection Agency (USEPA), 1996. "Test Methods for Evaluating Solid Waste"; Laboratory Manual Physical/Chemical Methods; Office of Solid Waste and Emergency Response; Washington, DC; SW-846; November 1986; Revision 4 -December 1996.

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-415-0.0/1.0-XXX**

Lab Sample ID: 360-24223-1
Client Matrix: Solid % Moisture: 4.9

Date Sampled: 08/20/2009 0845
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44520.D
Dilution:	1.0			Initial Weight/Volume:	4.74 g
Date Analyzed:	08/27/2009 0003			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.8
1,1,1-Trichloroethane		ND		1.1	2.8
1,1,2,2-Tetrachloroethane		ND		1.1	2.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.8
1,1-Dichloroethane		ND		1.1	2.8
1,1-Dichloroethene		ND		1.1	2.8
1,1-Dichloropropene		ND		1.1	2.8
1,2,3-Trichlorobenzene		ND		1.1	2.8
1,2,3-Trichloropropane		ND		1.6	2.8
1,2,4-Trichlorobenzene		ND		1.1	2.8
1,2,4-Trimethylbenzene		ND		1.1	2.8
1,2-Dibromo-3-Chloropropane		ND		2.0	28
Ethylene Dibromide		ND		1.1	2.8
1,2-Dichlorobenzene		ND		1.1	2.8
1,2-Dichloroethane		ND		1.1	2.8
Acetone		ND J	*	20	280
1,2-Dichloropropane		ND		1.1	2.8
1,3,5-Trimethylbenzene		ND		1.1	2.8
1,3-Dichlorobenzene		ND		1.1	2.8
1,3-Dichloropropane		ND		1.1	2.8
1,4-Dichlorobenzene		ND		1.1	2.8
1,4-Dioxane		ND J		37	280
2,2-Dichloropropane		ND		1.1	2.8
2,4,4-Trimethyl-1-pentene		ND J	*	1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.8
2-Hexanone		ND		5.7	28
4-Chlorotoluene		ND		1.1	2.8
Benzene		ND		1.1	2.8
Bromobenzene		ND		1.1	2.8
Chlorobromomethane		ND		1.1	2.8
Dichlorobromomethane		ND		1.1	2.8
Bromoform		ND		1.1	2.8
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.8
Carbon disulfide		ND		1.1	2.8
Carbon tetrachloride		ND		1.1	2.8
Chlorobenzene		ND		1.1	2.8
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.8
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.8
cis-1,3-Dichloropropene		ND		1.1	2.8
Cyclohexane		ND		2.9	28
Chlorodibromomethane		ND		1.1	2.8

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-415-0.0/1.0-XXX**

Lab Sample ID: 360-24223-1
Client Matrix: Solid
% Moisture: 4.9

Date Sampled: 08/20/2009 0845
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/27/2009 0003
Date Prepared: 08/26/2009 1610

Analysis Batch: 360-48231
Prep Batch: 360-48229

Instrument ID: HP #1 GC/MS
Lab File ID: V44520.D
Initial Weight/Volume: 4.74 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.8
Dichlorodifluoromethane		ND		1.1	5.5
Ethyl ether		ND		1.1	2.8
Isopropyl ether		ND		1.1	2.8
Tert-butyl ethyl ether		ND		2.8	2.8
Ethylbenzene		ND		1.1	2.8
Hexachlorobutadiene		ND		1.1	2.8
Isopropylbenzene		ND		1.1	2.8
Methyl acetate		ND	J	18	55
2-Butanone (MEK)		ND		7.5	28
4-Methyl-2-pentanone (MIBK)		ND		5.7	28
Methyl tert-butyl ether		ND		1.1	2.8
Methylcyclohexane		ND		1.1	2.8
Methylene Chloride		ND		5.4	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	28
N-Propylbenzene		ND		1.1	2.8
o-Xylene		ND		1.1	2.8
4-Isopropyltoluene		ND		1.1	2.8
sec-Butylbenzene		ND		1.1	2.8
Styrene		ND		1.1	2.8
Tert-amyl methyl ether		ND		1.1	2.8
tert-Butylbenzene		ND		1.1	2.8
Tetrachloroethene		ND		1.1	2.8
Tetrahydrofuran		ND		6.1	28
Toluene		ND		1.1	2.8
trans-1,2-Dichloroethene		ND		1.1	2.8
trans-1,3-Dichloropropene		ND		1.1	2.8
Trichloroethene		ND		1.1	2.8
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	94		70 - 130

TC
3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-415-0.0/1.0-XXX

Lab Sample ID: 360-24223-1
Client Matrix: Solid

% Moisture: 4.9

Date Sampled: 08/20/2009 0845
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44520.D
Dilution:	1.0			Initial Weight/Volume:	4.74 g
Date Analyzed:	08/27/2009 0003			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.39	9.3	T J

TC 3/25/10 09/18/2009

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-415-5.0/7.0-XXX**

Lab Sample ID: 360-24223-3
Client Matrix: Solid % Moisture: 10.3

Date Sampled: 08/20/2009 0850
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0538
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44491.D
Initial Weight/Volume: 5.25 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND J	*	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND J		35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.7	27
Chlorodibromomethane		ND		1.1	2.7

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-415-5.0/7.0-XXX**

Lab Sample ID: 360-24223-3
Client Matrix: Solid % Moisture: 10.3

Date Sampled: 08/20/2009 0850
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44491.D
Dilution:	1.0			Initial Weight/Volume:	5.25 g
Date Analyzed:	08/26/2009 0538			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.3
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND J		17	53
2-Butanone (MEK)		ND		7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.8	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-415-5.0/7.0-XXX**

Lab Sample ID: 360-24223-3
Client Matrix: Solid
% Moisture: 10.3

Date Sampled: 08/20/2009 0850
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44491.D
Dilution:	1.0			Initial Weight/Volume:	5.25 g
Date Analyzed:	08/26/2009 0538			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	8.89	4.2	T J

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-419-0.0/1.0-XXX

Lab Sample ID: 360-24223-4
Client Matrix: Solid % Moisture: 2.6

Date Sampled: 08/19/2009 1555
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/27/2009 0028
Date Prepared: 08/26/2009 1610

Analysis Batch: 360-48231
Prep Batch: 360-48229

Instrument ID: HP #1 GC/MS
Lab File ID: V44521.D
Initial Weight/Volume: 5.06 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND J	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND J		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND J	*	1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-419-0.0/1.0-XXX**

Lab Sample ID: 360-24223-4
Client Matrix: Solid % Moisture: 2.6

Date Sampled: 08/19/2009 1555
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44521.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	08/27/2009 0028			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND		1.0	5.1
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND	J	16	51
2-Butanone (MEK)		ND		6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.6	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	95		70 - 130

TC 5/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-419-0.0/1.0-XXX**

Lab Sample ID: 360-24223-4
Client Matrix: Solid % Moisture: 2.6

Date Sampled: 08/19/2009 1555
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44521.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	08/27/2009 0028			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.39	6.8	T J

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-419-3.0/5.0-XXX

Lab Sample ID: 360-24223-6
Client Matrix: Solid % Moisture: 7.9

Date Sampled: 08/19/2009 1605
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44510.D
Dilution:	1.0			Initial Weight/Volume:	5.05 g
Date Analyzed:	08/26/2009 1950			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND J	*	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND J		35	270
2,2-Dichloropropane		ND		1.1	2.7
2;4,4-Trimethyl-1-pentene		ND J	*	1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-419-3.0/5.0-XXX

Lab Sample ID: 360-24223-6
Client Matrix: Solid

% Moisture: 7.9

Date Sampled: 08/19/2009 1605
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44510.D
Dilution:	1.0			Initial Weight/Volume:	5.05 g
Date Analyzed:	08/26/2009 1950			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND		1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND	J	17	54
2-Butanone (MEK)		ND		7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		21	U -B-	5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	95		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-419-3.0/5.0-XXX**

Lab Sample ID: 360-24223-6
Client Matrix: Solid
% Moisture: 7.9

Date Sampled: 08/19/2009 1605
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44510.D
Dilution:	1.0			Initial Weight/Volume:	5.05 g
Date Analyzed:	08/26/2009 1950			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.06	4.5	T J

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-426-0.0/1.0-XXX

Lab Sample ID: 360-24223-7
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 08/19/2009 1415
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/27/2009 0053
Date Prepared: 08/26/2009 1610

Analysis Batch: 360-48231
Prep Batch: 360-48229

Instrument ID: HP #1 GC/MS
Lab File ID: V44522.D
Initial Weight/Volume: 5.89 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.88	2.2
1,1,1-Trichloroethane		ND		0.88	2.2
1,1,2,2-Tetrachloroethane		ND		0.88	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.88	11
1,1,2-Trichloroethane		ND		0.88	2.2
1,1-Dichloroethane		ND		0.88	2.2
1,1-Dichloroethene		ND		0.88	2.2
1,1-Dichloropropene		ND		0.88	2.2
1,2,3-Trichlorobenzene		ND		0.88	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.88	2.2
1,2,4-Trimethylbenzene		ND		0.88	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.88	2.2
1,2-Dichlorobenzene		ND		0.88	2.2
1,2-Dichloroethane		ND		0.88	2.2
Acetone		ND J	*	16	220
1,2-Dichloropropane		ND		0.88	2.2
1,3,5-Trimethylbenzene		ND		0.88	2.2
1,3-Dichlorobenzene		ND		0.88	2.2
1,3-Dichloropropane		ND		0.88	2.2
1,4-Dichlorobenzene		ND		0.88	2.2
1,4-Dioxane		ND J		29	220
2,2-Dichloropropane		ND		0.88	2.2
2,4,4-Trimethyl-1-pentene		ND J	*	0.88	4.4
2,4,4-Trimethyl-2-pentene		ND		0.88	4.4
2-Chlorotoluene		ND		0.88	2.2
2-Hexanone		ND		4.5	22
4-Chlorotoluene		ND		0.88	2.2
Benzene		ND		0.88	2.2
Bromobenzene		ND		0.88	2.2
Chlorobromomethane		ND		0.88	2.2
Dichlorobromomethane		ND		0.88	2.2
Bromoform		ND		0.88	2.2
Bromomethane		ND		0.88	4.4
n-Butylbenzene		ND		0.88	2.2
Carbon disulfide		ND		0.88	2.2
Carbon tetrachloride		ND		0.88	2.2
Chlorobenzene		ND		0.88	2.2
Chloroethane		ND		0.88	4.4
Chloroform		ND		0.88	2.2
Chloromethane		ND		0.88	4.4
cis-1,2-Dichloroethene		ND		0.88	2.2
cis-1,3-Dichloropropene		ND		0.88	2.2
Cyclohexane		ND		2.3	22
Chlorodibromomethane		ND		0.88	2.2

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-0.0/1.0-XXX**

Lab Sample ID: 360-24223-7
Client Matrix: Solid % Moisture: 3.8

Date Sampled: 08/19/2009 1415
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44522.D
Dilution:	1.0			Initial Weight/Volume:	5.89 g
Date Analyzed:	08/27/2009 0053			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.88	2.2
Dichlorodifluoromethane		ND		0.88	4.4
Ethyl ether		ND		0.88	2.2
Isopropyl ether		ND		0.88	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.88	2.2
Hexachlorobutadiene		ND		0.88	2.2
Isopropylbenzene		ND		0.88	2.2
Methyl acetate		ND	J	14	44
2-Butanone (MEK)		ND		5.9	22
4-Methyl-2-pentanone (MIBK)		ND		4.6	22
Methyl tert-butyl ether		ND		0.88	2.2
Methylcyclohexane		ND		0.88	2.2
Methylene Chloride		ND		4.3	8.8
m-Xylene & p-Xylene		ND		0.88	4.4
Naphthalene		ND		0.88	22
N-Propylbenzene		ND		0.88	2.2
o-Xylene		ND		0.88	2.2
4-Isopropyltoluene		ND		0.88	2.2
sec-Butylbenzene		ND		0.88	2.2
Styrene		ND		0.88	2.2
Tert-amyl methyl ether		ND		0.88	2.2
tert-Butylbenzene		ND		0.88	2.2
Tetrachloroethene		ND		0.88	2.2
Tetrahydrofuran		ND		4.9	22
Toluene		ND		0.88	2.2
trans-1,2-Dichloroethene		ND		0.88	2.2
trans-1,3-Dichloropropene		ND		0.88	2.2
Trichloroethene		ND		0.88	2.2
Trichlorofluoromethane		ND		0.88	4.4
Vinyl chloride		ND		0.88	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	94		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-426-0.0/1.0-XXX

Lab Sample ID: 360-24223-7
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 08/19/2009 1415
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44522.D
Dilution:	1.0			Initial Weight/Volume:	5.89 g
Date Analyzed:	08/27/2009 0053			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.69	1.5	T J

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-5.0/7.0-XXX**

Lab Sample ID: 360-24223-9
Client Matrix: Solid

% Moisture: 14.2

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0601
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44492.D
Initial Weight/Volume: 5.51 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.6
1,1,1-Trichloroethane		ND		1.1	2.6
1,1,2,2-Tetrachloroethane		ND		1.1	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.6
1,1-Dichloroethane		ND		1.1	2.6
1,1-Dichloroethene		ND		1.1	2.6
1,1-Dichloropropene		ND		1.1	2.6
1,2,3-Trichlorobenzene		ND		1.1	2.6
1,2,3-Trichloropropane		ND		1.6	2.6
1,2,4-Trichlorobenzene		ND		1.1	2.6
1,2,4-Trimethylbenzene		ND		1.1	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.1	2.6
1,2-Dichlorobenzene		ND		1.1	2.6
1,2-Dichloroethane		ND		1.1	2.6
Acetone		ND J	*	19	260
1,2-Dichloropropane		ND		1.1	2.6
1,3,5-Trimethylbenzene		ND		1.1	2.6
1,3-Dichlorobenzene		ND		1.1	2.6
1,3-Dichloropropane		ND		1.1	2.6
1,4-Dichlorobenzene		ND		1.1	2.6
1,4-Dioxane		ND J		35	260
2,2-Dichloropropane		ND		1.1	2.6
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.1	2.6
Benzene		ND		1.1	2.6
Bromobenzene		ND		1.1	2.6
Chlorobromomethane		ND		1.1	2.6
Dichlorobromomethane		ND		1.1	2.6
Bromoform		ND		1.1	2.6
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.6
Carbon disulfide		ND		1.1	2.6
Carbon tetrachloride		ND		1.1	2.6
Chlorobenzene		ND		1.1	2.6
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.6
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.6
cis-1,3-Dichloropropene		ND		1.1	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.1	2.6

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-5.0/7.0-XXX**

Lab Sample ID: 360-24223-9
Client Matrix: Solid

% Moisture: 14.2

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44492.D
Dilution:	1.0			Initial Weight/Volume:	5.51 g
Date Analyzed:	08/26/2009 0601			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.6
Dichlorodifluoromethane		ND J	*	1.1	5.3
Ethyl ether		ND		1.1	2.6
Isopropyl ether		ND		1.1	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.1	2.6
Hexachlorobutadiene		ND		1.1	2.6
Isopropylbenzene		ND		1.1	2.6
Methyl acetate		ND J		17	53
2-Butanone (MEK)		ND		7.1	26
4-Methyl-2-pentanone (MIBK)		ND		5.5	26
Methyl tert-butyl ether		ND		1.1	2.6
Methylcyclohexane		ND		1.1	2.6
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	26
N-Propylbenzene		ND		1.1	2.6
o-Xylene		ND		1.1	2.6
4-Isopropyltoluene		ND		1.1	2.6
sec-Butylbenzene		ND		1.1	2.6
Styrene		ND		1.1	2.6
Tert-amyl methyl ether		ND		1.1	2.6
tert-Butylbenzene		ND		1.1	2.6
Tetrachloroethene		ND		1.1	2.6
Tetrahydrofuran		ND		5.8	26
Toluene		ND		1.1	2.6
trans-1,2-Dichloroethene		ND		1.1	2.6
trans-1,3-Dichloropropene		ND		1.1	2.6
Trichloroethene		ND		1.1	2.6
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	92		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-5.0/7.0-XXX**

Lab Sample ID: 360-24223-9
Client Matrix: Solid % Moisture: 14.2

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44492.D
Dilution:	1.0			Initial Weight/Volume:	5.51 g
Date Analyzed:	08/26/2009 0601			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-5.0/7.0-DUP**

Lab Sample ID: 360-24223-10
Client Matrix: Solid

% Moisture: 14.4

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44493.D
Dilution:	1.0			Initial Weight/Volume:	5.93 g
Date Analyzed:	08/26/2009 0625			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND	J	32	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	4.9
2,4,4-Trimethyl-2-pentene		ND		0.99	4.9
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	4.9
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	4.9
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	4.9
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND		2.5	25
Chlorodibromomethane		ND		0.99	2.5

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-5.0/7.0-DUP**

Lab Sample ID: 360-24223-10
Client Matrix: Solid

% Moisture: 14.4

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44493.D
Dilution:	1.0			Initial Weight/Volume:	5.93 g
Date Analyzed:	08/26/2009 0625			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND J		0.99	4.9
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND J		16	49
2-Butanone (MEK)		ND		6.6	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	4.9
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		ND		5.4	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	4.9
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	107		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	93		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-426-5.0/7.0-DUP

Lab Sample ID: 360-24223-10
Client Matrix: Solid

% Moisture: 14.4

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44493.D
Dilution:	1.0			Initial Weight/Volume:	5.93 g
Date Analyzed:	08/26/2009 0625			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-431-0.0/1.0-XXX

Lab Sample ID: 360-24223-11
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 08/20/2009 1015
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/27/2009 0118
Date Prepared: 08/26/2009 1610

Analysis Batch: 360-48231
Prep Batch: 360-48229

Instrument ID: HP #1 GC/MS
Lab File ID: V44523.D
Initial Weight/Volume: 5.83 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.92	2.3
1,1,1-Trichloroethane		ND		0.92	2.3
1,1,2,2-Tetrachloroethane		ND		0.92	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.92	12
1,1,2-Trichloroethane		ND		0.92	2.3
1,1-Dichloroethane		ND		0.92	2.3
1,1-Dichloroethene		ND		0.92	2.3
1,1-Dichloropropene		ND		0.92	2.3
1,2,3-Trichlorobenzene		ND		0.92	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.92	2.3
1,2,4-Trimethylbenzene		ND		0.92	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.92	2.3
1,2-Dichlorobenzene		ND		0.92	2.3
1,2-Dichloroethane		ND		0.92	2.3
Acetone		ND J	*	17	230
1,2-Dichloropropane		ND		0.92	2.3
1,3,5-Trimethylbenzene		ND		0.92	2.3
1,3-Dichlorobenzene		ND		0.92	2.3
1,3-Dichloropropane		ND		0.92	2.3
1,4-Dichlorobenzene		ND		0.92	2.3
1,4-Dioxane		ND J		30	230
2,2-Dichloropropane		ND		0.92	2.3
2,4,4-Trimethyl-1-pentene		ND J	*	0.92	4.6
2,4,4-Trimethyl-2-pentene		ND		0.92	4.6
2-Chlorotoluene		ND		0.92	2.3
2-Hexanone		ND		4.7	23
4-Chlorotoluene		ND		0.92	2.3
Benzene		ND		0.92	2.3
Bromobenzene		ND		0.92	2.3
Chlorobromomethane		ND		0.92	2.3
Dichlorobromomethane		ND		0.92	2.3
Bromoform		ND		0.92	2.3
Bromomethane		ND		0.92	4.6
n-Butylbenzene		ND		0.92	2.3
Carbon disulfide		ND		0.92	2.3
Carbon tetrachloride		ND		0.92	2.3
Chlorobenzene		ND		0.92	2.3
Chloroethane		ND		0.92	4.6
Chloroform		ND		0.92	2.3
Chloromethane		ND		0.92	4.6
cis-1,2-Dichloroethene		ND		0.92	2.3
cis-1,3-Dichloropropene		ND		0.92	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.92	2.3

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-431-0.0/1.0-XXX**

Lab Sample ID: 360-24223-11
Client Matrix: Solid % Moisture: 6.9

Date Sampled: 08/20/2009 1015
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44523.D
Dilution:	1.0			Initial Weight/Volume:	5.83 g
Date Analyzed:	08/27/2009 0118			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.92	2.3
Dichlorodifluoromethane		ND		0.92	4.6
Ethyl ether		ND		0.92	2.3
Isopropyl ether		ND		0.92	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.92	2.3
Hexachlorobutadiene		ND		0.92	2.3
Isopropylbenzene		ND		0.92	2.3
Methyl acetate		ND	J	15	46
2-Butanone (MEK)		ND		6.2	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.92	2.3
Methylcyclohexane		ND		0.92	2.3
Methylene Chloride		ND		4.5	9.2
m-Xylene & p-Xylene		ND		0.92	4.6
Naphthalene		ND		0.92	23
N-Propylbenzene		ND		0.92	2.3
o-Xylene		ND		0.92	2.3
4-Isopropyltoluene		ND		0.92	2.3
sec-Butylbenzene		ND		0.92	2.3
Styrene		ND		0.92	2.3
Tert-amyl methyl ether		ND		0.92	2.3
tert-Butylbenzene		ND		0.92	2.3
Tetrachloroethene		ND		0.92	2.3
Tetrahydrofuran		ND		5.1	23
Toluene		ND		0.92	2.3
trans-1,2-Dichloroethene		ND		0.92	2.3
trans-1,3-Dichloropropene		ND		0.92	2.3
Trichloroethene		ND		0.92	2.3
Trichlorofluoromethane		ND		0.92	4.6
Vinyl chloride		ND		0.92	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	93		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-431-0.0/1.0-XXX**

Lab Sample ID: 360-24223-11
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 08/20/2009 1015
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44523.D
Dilution:	1.0			Initial Weight/Volume:	5.83 g
Date Analyzed:	08/27/2009 0118			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-431-7.0/9.0-XXX

Lab Sample ID: 360-24223-12
Client Matrix: Solid

% Moisture: 9.5

Date Sampled: 08/20/2009 1025
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0649
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44494.D
Initial Weight/Volume: 6.48 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.85	2.1
1,1,1-Trichloroethane		ND		0.85	2.1
1,1,2,2-Tetrachloroethane		ND		0.85	2.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.85	11
1,1,2-Trichloroethane		ND		0.85	2.1
1,1-Dichloroethane		ND		0.85	2.1
1,1-Dichloroethene		ND		0.85	2.1
1,1-Dichloropropene		ND		0.85	2.1
1,2,3-Trichlorobenzene		ND		0.85	2.1
1,2,3-Trichloropropane		ND		1.3	2.1
1,2,4-Trichlorobenzene		ND		0.85	2.1
1,2,4-Trimethylbenzene		ND		0.85	2.1
1,2-Dibromo-3-Chloropropane		ND		1.5	21
Ethylene Dibromide		ND		0.85	2.1
1,2-Dichlorobenzene		ND		0.85	2.1
1,2-Dichloroethane		ND		0.85	2.1
Acetone		ND J	*	15	210
1,2-Dichloropropane		ND		0.85	2.1
1,3,5-Trimethylbenzene		ND		0.85	2.1
1,3-Dichlorobenzene		ND		0.85	2.1
1,3-Dichloropropane		ND		0.85	2.1
1,4-Dichlorobenzene		ND		0.85	2.1
1,4-Dioxane		ND J		28	210
2,2-Dichloropropane		ND		0.85	2.1
2,4,4-Trimethyl-1-pentene		ND		0.85	4.3
2,4,4-Trimethyl-2-pentene		ND		0.85	4.3
2-Chlorotoluene		ND		0.85	2.1
2-Hexanone		ND		4.4	21
4-Chlorotoluene		ND		0.85	2.1
Benzene		ND		0.85	2.1
Bromobenzene		ND		0.85	2.1
Chlorobromomethane		ND		0.85	2.1
Dichlorobromomethane		ND		0.85	2.1
Bromoform		ND		0.85	2.1
Bromomethane		ND		0.85	4.3
n-Butylbenzene		ND		0.85	2.1
Carbon disulfide		ND		0.85	2.1
Carbon tetrachloride		ND		0.85	2.1
Chlorobenzene		ND		0.85	2.1
Chloroethane		ND		0.85	4.3
Chloroform		ND		0.85	2.1
Chloromethane		ND		0.85	4.3
cis-1,2-Dichloroethene		ND		0.85	2.1
cis-1,3-Dichloropropene		ND		0.85	2.1
Cyclohexane		ND		2.2	21
Chlorodibromomethane		ND		0.85	2.1

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-431-7.0/9.0-XXX**

Lab Sample ID: 360-24223-12
Client Matrix: Solid % Moisture: 9.5

Date Sampled: 08/20/2009 1025
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44494.D
Dilution:	1.0			Initial Weight/Volume:	6.48 g
Date Analyzed:	08/26/2009 0649			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.85	2.1
Dichlorodifluoromethane		ND J	*	0.85	4.3
Ethyl ether		ND		0.85	2.1
Isopropyl ether		ND		0.85	2.1
Tert-butyl ethyl ether		ND		2.1	2.1
Ethylbenzene		ND		0.85	2.1
Hexachlorobutadiene		ND		0.85	2.1
Isopropylbenzene		ND		0.85	2.1
Methyl acetate		ND J		14	43
2-Butanone (MEK)		ND		5.7	21
4-Methyl-2-pentanone (MIBK)		ND		4.4	21
Methyl tert-butyl ether		ND		0.85	2.1
Methylcyclohexane		ND		0.85	2.1
Methylene Chloride		~~7.2~~ 8.5V	~~J B~~	4.1	8.5
m-Xylene & p-Xylene		ND		0.85	4.3
Naphthalene		ND		0.85	21
N-Propylbenzene		ND		0.85	2.1
o-Xylene		ND		0.85	2.1
4-Isopropyltoluene		ND		0.85	2.1
sec-Butylbenzene		ND		0.85	2.1
Styrene		ND		0.85	2.1
Tert-amyl methyl ether		ND		0.85	2.1
tert-Butylbenzene		ND		0.85	2.1
Tetrachloroethene		ND		0.85	2.1
Tetrahydrofuran		ND		4.7	21
Toluene		ND		0.85	2.1
trans-1,2-Dichloroethene		ND		0.85	2.1
trans-1,3-Dichloropropene		ND		0.85	2.1
Trichloroethene		ND		0.85	2.1
Trichlorofluoromethane		ND		0.85	4.3
Vinyl chloride		ND		0.85	2.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	108		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	93		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-431-7.0/9.0-XXX**

Lab Sample ID: 360-24223-12
Client Matrix: Solid % Moisture: 9.5

Date Sampled: 08/20/2009 1025
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44494.D
Dilution:	1.0			Initial Weight/Volume:	6.48 g
Date Analyzed:	08/26/2009 0649			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-436-0.0/1.0-XXX

Lab Sample ID: 360-24223-13
Client Matrix: Solid % Moisture: 5.4

Date Sampled: 08/20/2009 1305
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/27/2009 0142
Date Prepared: 08/26/2009 1610

Analysis Batch: 360-48231
Prep Batch: 360-48229

Instrument ID: HP #1 GC/MS
Lab File ID: V44524.D
Initial Weight/Volume: 4.84 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		2.0	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND J	*	20	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND J		36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND J	*	1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

5/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-436-0.0/1.0-XXX

Lab Sample ID: 360-24223-13
Client Matrix: Solid

% Moisture: 5.4

Date Sampled: 08/20/2009 1305
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44524.D
Dilution:	1.0			Initial Weight/Volume:	4.84 g
Date Analyzed:	08/27/2009 0142			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND		1.1	5.5
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND	J	18	55
2-Butanone (MEK)		ND		7.4	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.3	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	108		70 - 130
Toluene-d8 (Surr)	95		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-436-0.0/1.0-XXX**

Lab Sample ID: 360-24223-13
Client Matrix: Solid

% Moisture: 5.4

Date Sampled: 08/20/2009 1305
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44524.D
Dilution:	1.0			Initial Weight/Volume:	4.84 g
Date Analyzed:	08/27/2009 0142			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.06	2.2	T J

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-436-6.0/8.0-XXX

Lab Sample ID: 360-24223-15
Client Matrix: Solid % Moisture: 7.9

Date Sampled: 08/20/2009 1310
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0712
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44495.D
Initial Weight/Volume: 4.97 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		2.0	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND J	*	20	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND J		36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-436-6.0/8.0-XXX

Lab Sample ID: 360-24223-15
Client Matrix: Solid

% Moisture: 7.9

Date Sampled: 08/20/2009 1310
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 0712
Date Prepared: 08/25/2009 1546

Analysis Batch: 360-48159
Prep Batch: 360-48150

Instrument ID: HP #1 GC/MS
Lab File ID: V44495.D
Initial Weight/Volume: 4.97 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.5
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND J		18	55
2-Butanone (MEK)		ND		7.4	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		~~7.9~~ 11 U	~~J B~~	5.3	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	94		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-436-6.0/8.0-XXX

Lab Sample ID: 360-24223-15
Client Matrix: Solid

% Moisture: 7.9

Date Sampled: 08/20/2009 1310
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44495.D
Dilution:	1.0			Initial Weight/Volume:	4.97 g
Date Analyzed:	08/26/2009 0712			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.05	1.6	T J

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-TBK-004**

Lab Sample ID: 360-24223-16
Client Matrix: Solid

Date Sampled: 08/20/2009 1430
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44496.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	08/26/2009 0736			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-TBK-004

Lab Sample ID: 360-24223-16
Client Matrix: Solid

Date Sampled: 08/20/2009 1430
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44496.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	08/26/2009 0736			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		7.7	J B	4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	93		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-TBK-004**

Lab Sample ID: 360-24223-16
Client Matrix: Solid

Date Sampled: 08/20/2009 1430
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44496.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	08/26/2009 0736			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

3/25/10
TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-415-0.0/1.0-XXX**

Lab Sample ID: 360-24223-1
Client Matrix: Solid % Moisture: 4.9

Date Sampled: 08/20/2009 0845
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44520.D
Dilution:	1.0			Initial Weight/Volume:	4.74 g
Date Analyzed:	08/27/2009 0003			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.8
1,1,1-Trichloroethane		ND		1.1	2.8
1,1,2,2-Tetrachloroethane		ND		1.1	2.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.8
1,1-Dichloroethane		ND		1.1	2.8
1,1-Dichloroethene		ND		1.1	2.8
1,1-Dichloropropene		ND		1.1	2.8
1,2,3-Trichlorobenzene		ND		1.1	2.8
1,2,3-Trichloropropane		ND		1.6	2.8
1,2,4-Trichlorobenzene		ND		1.1	2.8
1,2,4-Trimethylbenzene		ND		1.1	2.8
1,2-Dibromo-3-Chloropropane		ND		2.0	28
Ethylene Dibromide		ND		1.1	2.8
1,2-Dichlorobenzene		ND		1.1	2.8
1,2-Dichloroethane		ND		1.1	2.8
Acetone		ND J	*	20	280
1,2-Dichloropropane		ND		1.1	2.8
1,3,5-Trimethylbenzene		ND		1.1	2.8
1,3-Dichlorobenzene		ND		1.1	2.8
1,3-Dichloropropane		ND		1.1	2.8
1,4-Dichlorobenzene		ND		1.1	2.8
1,4-Dioxane		ND J		37	280
2,2-Dichloropropane		ND		1.1	2.8
2,4,4-Trimethyl-1-pentene		ND J	*	1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.8
2-Hexanone		ND		5.7	28
4-Chlorotoluene		ND		1.1	2.8
Benzene		ND		1.1	2.8
Bromobenzene		ND		1.1	2.8
Chlorobromomethane		ND		1.1	2.8
Dichlorobromomethane		ND		1.1	2.8
Bromoform		ND		1.1	2.8
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.8
Carbon disulfide		ND		1.1	2.8
Carbon tetrachloride		ND		1.1	2.8
Chlorobenzene		ND		1.1	2.8
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.8
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.8
cis-1,3-Dichloropropene		ND		1.1	2.8
Cyclohexane		ND		2.9	28
Chlorodibromomethane		ND		1.1	2.8

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-415-0.0/1.0-XXX**

Lab Sample ID: 360-24223-1
Client Matrix: Solid % Moisture: 4.9

Date Sampled: 08/20/2009 0845
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44520.D
Dilution:	1.0			Initial Weight/Volume:	4.74 g
Date Analyzed:	08/27/2009 0003			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.8
Dichlorodifluoromethane		ND		1.1	5.5
Ethyl ether		ND		1.1	2.8
Isopropyl ether		ND		1.1	2.8
Tert-butyl ethyl ether		ND		2.8	2.8
Ethylbenzene		ND		1.1	2.8
Hexachlorobutadiene		ND		1.1	2.8
Isopropylbenzene		ND		1.1	2.8
Methyl acetate		ND	J	18	55
2-Butanone (MEK)		ND		7.5	28
4-Methyl-2-pentanone (MIBK)		ND		5.7	28
Methyl tert-butyl ether		ND		1.1	2.8
Methylcyclohexane		ND		1.1	2.8
Methylene Chloride		ND		5.4	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	28
N-Propylbenzene		ND		1.1	2.8
o-Xylene		ND		1.1	2.8
4-Isopropyltoluene		ND		1.1	2.8
sec-Butylbenzene		ND		1.1	2.8
Styrene		ND		1.1	2.8
Tert-amyl methyl ether		ND		1.1	2.8
tert-Butylbenzene		ND		1.1	2.8
Tetrachloroethene		ND		1.1	2.8
Tetrahydrofuran		ND		6.1	28
Toluene		ND		1.1	2.8
trans-1,2-Dichloroethene		ND		1.1	2.8
trans-1,3-Dichloropropene		ND		1.1	2.8
Trichloroethene		ND		1.1	2.8
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-415-0.0/1.0-XXX

Lab Sample ID: 360-24223-1
Client Matrix: Solid
% Moisture: 4.9

Date Sampled: 08/20/2009 0845
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44520.D
Dilution:	1.0			Initial Weight/Volume:	4.74 g
Date Analyzed:	08/27/2009 0003			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.39	9.3	T J

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-415-5.0/7.0-XXX**

Lab Sample ID: 360-24223-3
Client Matrix: Solid
% Moisture: 10.3

Date Sampled: 08/20/2009 0850
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44491.D
Dilution:	1.0			Initial Weight/Volume:	5.25 g
Date Analyzed:	08/26/2009 0538			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.7	27
Chlorodibromomethane		ND		1.1	2.7

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-415-5.0/7.0-XXX**

Lab Sample ID: 360-24223-3
Client Matrix: Solid

% Moisture: 10.3

Date Sampled: 08/20/2009 0850
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44491.D
Dilution:	1.0			Initial Weight/Volume:	5.25 g
Date Analyzed:	08/26/2009 0538			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.3
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND J		17	53
2-Butanone (MEK)		ND		7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.8	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-415-5.0/7.0-XXX**

Lab Sample ID: 360-24223-3
Client Matrix: Solid
% Moisture: 10.3

Date Sampled: 08/20/2009 0850
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44491.D
Dilution:	1.0			Initial Weight/Volume:	5.25 g
Date Analyzed:	08/26/2009 0538			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	8.89	4.2	T J

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-419-0.0/1.0-XXX**

Lab Sample ID: 360-24223-4
Client Matrix: Solid
% Moisture: 2.6

Date Sampled: 08/19/2009 1555
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44521.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	08/27/2009 0028			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND J	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND J		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND J	*	1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-419-0.0/1.0-XXX**

Lab Sample ID: 360-24223-4
Client Matrix: Solid % Moisture: 2.6

Date Sampled: 08/19/2009 1555
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44521.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	08/27/2009 0028			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND		1.0	5.1
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND	J	16	51
2-Butanone (MEK)		ND		6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.6	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	95		70 - 130

TC 5/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-419-0.0/1.0-XXX**

Lab Sample ID: 360-24223-4
Client Matrix: Solid % Moisture: 2.6

Date Sampled: 08/19/2009 1555
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44521.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	08/27/2009 0028			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.39	6.8	T J

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-419-3.0/5.0-XXX

Lab Sample ID: 360-24223-6
Client Matrix: Solid
% Moisture: 7.9

Date Sampled: 08/19/2009 1605
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44510.D
Dilution:	1.0			Initial Weight/Volume:	5.05 g
Date Analyzed:	08/26/2009 1950			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND J	*	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND J		35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND J	*	1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

TC 3/25/10

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-419-3.0/5.0-XXX**

Lab Sample ID: 360-24223-6
Client Matrix: Solid

% Moisture: 7.9

Date Sampled: 08/19/2009 1605
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44510.D
Dilution:	1.0			Initial Weight/Volume:	5.05 g
Date Analyzed:	08/26/2009 1950			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND		1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND	J	17	54
2-Butanone (MEK)		ND		7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		21	U B	5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	95		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-419-3.0/5.0-XXX

Lab Sample ID: 360-24223-6
Client Matrix: Solid
% Moisture: 7.9

Date Sampled: 08/19/2009 1605
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44510.D
Dilution:	1.0			Initial Weight/Volume:	5.05 g
Date Analyzed:	08/26/2009 1950			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.06	4.5	T J

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-0.0/1.0-XXX**

Lab Sample ID: 360-24223-7
Client Matrix: Solid % Moisture: 3.8

Date Sampled: 08/19/2009 1415
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44522.D
Dilution:	1.0			Initial Weight/Volume:	5.89 g
Date Analyzed:	08/27/2009 0053			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.88	2.2
1,1,1-Trichloroethane		ND		0.88	2.2
1,1,2,2-Tetrachloroethane		ND		0.88	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.88	11
1,1,2-Trichloroethane		ND		0.88	2.2
1,1-Dichloroethane		ND		0.88	2.2
1,1-Dichloroethene		ND		0.88	2.2
1,1-Dichloropropene		ND		0.88	2.2
1,2,3-Trichlorobenzene		ND		0.88	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.88	2.2
1,2,4-Trimethylbenzene		ND		0.88	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.88	2.2
1,2-Dichlorobenzene		ND		0.88	2.2
1,2-Dichloroethane		ND		0.88	2.2
Acetone		ND J	*	16	220
1,2-Dichloropropane		ND		0.88	2.2
1,3,5-Trimethylbenzene		ND		0.88	2.2
1,3-Dichlorobenzene		ND		0.88	2.2
1,3-Dichloropropane		ND		0.88	2.2
1,4-Dichlorobenzene		ND		0.88	2.2
1,4-Dioxane		ND J		29	220
2,2-Dichloropropane		ND		0.88	2.2
2,4,4-Trimethyl-1-pentene		ND J	*	0.88	4.4
2,4,4-Trimethyl-2-pentene		ND		0.88	4.4
2-Chlorotoluene		ND		0.88	2.2
2-Hexanone		ND		4.5	22
4-Chlorotoluene		ND		0.88	2.2
Benzene		ND		0.88	2.2
Bromobenzene		ND		0.88	2.2
Chlorobromomethane		ND		0.88	2.2
Dichlorobromomethane		ND		0.88	2.2
Bromoform		ND		0.88	2.2
Bromomethane		ND		0.88	4.4
n-Butylbenzene		ND		0.88	2.2
Carbon disulfide		ND		0.88	2.2
Carbon tetrachloride		ND		0.88	2.2
Chlorobenzene		ND		0.88	2.2
Chloroethane		ND		0.88	4.4
Chloroform		ND		0.88	2.2
Chloromethane		ND		0.88	4.4
cis-1,2-Dichloroethene		ND		0.88	2.2
cis-1,3-Dichloropropene		ND		0.88	2.2
Cyclohexane		ND		2.3	22
Chlorodibromomethane		ND		0.88	2.2

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-0.0/1.0-XXX**

Lab Sample ID: 360-24223-7
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 08/19/2009 1415
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44522.D
Dilution:	1.0			Initial Weight/Volume:	5.89 g
Date Analyzed:	08/27/2009 0053			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.88	2.2
Dichlorodifluoromethane		ND		0.88	4.4
Ethyl ether		ND		0.88	2.2
Isopropyl ether		ND		0.88	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.88	2.2
Hexachlorobutadiene		ND		0.88	2.2
Isopropylbenzene		ND		0.88	2.2
Methyl acetate		ND	J	14	44
2-Butanone (MEK)		ND		5.9	22
4-Methyl-2-pentanone (MIBK)		ND		4.6	22
Methyl tert-butyl ether		ND		0.88	2.2
Methylcyclohexane		ND		0.88	2.2
Methylene Chloride		ND		4.3	8.8
m-Xylene & p-Xylene		ND		0.88	4.4
Naphthalene		ND		0.88	22
N-Propylbenzene		ND		0.88	2.2
o-Xylene		ND		0.88	2.2
4-Isopropyltoluene		ND		0.88	2.2
sec-Butylbenzene		ND		0.88	2.2
Styrene		ND		0.88	2.2
Tert-amyl methyl ether		ND		0.88	2.2
tert-Butylbenzene		ND		0.88	2.2
Tetrachloroethene		ND		0.88	2.2
Tetrahydrofuran		ND		4.9	22
Toluene		ND		0.88	2.2
trans-1,2-Dichloroethene		ND		0.88	2.2
trans-1,3-Dichloropropene		ND		0.88	2.2
Trichloroethene		ND		0.88	2.2
Trichlorofluoromethane		ND		0.88	4.4
Vinyl chloride		ND		0.88	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	94		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-426-0.0/1.0-XXX

Lab Sample ID: 360-24223-7
Client Matrix: Solid % Moisture: 3.8

Date Sampled: 08/19/2009 1415
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44522.D
Dilution:	1.0			Initial Weight/Volume:	5.89 g
Date Analyzed:	08/27/2009 0053			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.69	1.5	T J

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-426-5.0/7.0-XXX

Lab Sample ID: 360-24223-9
Client Matrix: Solid
% Moisture: 14.2

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44492.D
Dilution:	1.0			Initial Weight/Volume:	5.51 g
Date Analyzed:	08/26/2009 0601			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.6
1,1,1-Trichloroethane		ND		1.1	2.6
1,1,2,2-Tetrachloroethane		ND		1.1	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.6
1,1-Dichloroethane		ND		1.1	2.6
1,1-Dichloroethene		ND		1.1	2.6
1,1-Dichloropropene		ND		1.1	2.6
1,2,3-Trichlorobenzene		ND		1.1	2.6
1,2,3-Trichloropropane		ND		1.6	2.6
1,2,4-Trichlorobenzene		ND		1.1	2.6
1,2,4-Trimethylbenzene		ND		1.1	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.1	2.6
1,2-Dichlorobenzene		ND		1.1	2.6
1,2-Dichloroethane		ND		1.1	2.6
Acetone		ND J	*	19	260
1,2-Dichloropropane		ND		1.1	2.6
1,3,5-Trimethylbenzene		ND		1.1	2.6
1,3-Dichlorobenzene		ND		1.1	2.6
1,3-Dichloropropane		ND		1.1	2.6
1,4-Dichlorobenzene		ND		1.1	2.6
1,4-Dioxane		ND J		35	260
2,2-Dichloropropane		ND		1.1	2.6
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.1	2.6
Benzene		ND		1.1	2.6
Bromobenzene		ND		1.1	2.6
Chlorobromomethane		ND		1.1	2.6
Dichlorobromomethane		ND		1.1	2.6
Bromoform		ND		1.1	2.6
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.6
Carbon disulfide		ND		1.1	2.6
Carbon tetrachloride		ND		1.1	2.6
Chlorobenzene		ND		1.1	2.6
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.6
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.6
cis-1,3-Dichloropropene		ND		1.1	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.1	2.6

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-5.0/7.0-XXX**

Lab Sample ID: 360-24223-9
Client Matrix: Solid

% Moisture: 14.2

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44492.D
Dilution:	1.0			Initial Weight/Volume:	5.51 g
Date Analyzed:	08/26/2009 0601			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.6
Dichlorodifluoromethane		ND J	*	1.1	5.3
Ethyl ether		ND		1.1	2.6
Isopropyl ether		ND		1.1	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.1	2.6
Hexachlorobutadiene		ND		1.1	2.6
Isopropylbenzene		ND		1.1	2.6
Methyl acetate		ND J		17	53
2-Butanone (MEK)		ND		7.1	26
4-Methyl-2-pentanone (MIBK)		ND		5.5	26
Methyl tert-butyl ether		ND		1.1	2.6
Methylcyclohexane		ND		1.1	2.6
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	26
N-Propylbenzene		ND		1.1	2.6
o-Xylene		ND		1.1	2.6
4-Isopropyltoluene		ND		1.1	2.6
sec-Butylbenzene		ND		1.1	2.6
Styrene		ND		1.1	2.6
Tert-amyl methyl ether		ND		1.1	2.6
tert-Butylbenzene		ND		1.1	2.6
Tetrachloroethene		ND		1.1	2.6
Tetrahydrofuran		ND		5.8	26
Toluene		ND		1.1	2.6
trans-1,2-Dichloroethene		ND		1.1	2.6
trans-1,3-Dichloropropene		ND		1.1	2.6
Trichloroethene		ND		1.1	2.6
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	92		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-5.0/7.0-XXX**

Lab Sample ID: 360-24223-9
Client Matrix: Solid

% Moisture: 14.2

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44492.D
Dilution:	1.0			Initial Weight/Volume:	5.51 g
Date Analyzed:	08/26/2009 0601			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-5.0/7.0-DUP**

Lab Sample ID: 360-24223-10
Client Matrix: Solid
% Moisture: 14.4

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44493.D
Dilution:	1.0			Initial Weight/Volume:	5.93 g
Date Analyzed:	08/26/2009 0625			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND	J *	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND	J	32	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	4.9
2,4,4-Trimethyl-2-pentene		ND		0.99	4.9
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	4.9
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	4.9
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	4.9
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND		2.5	25
Chlorodibromomethane		ND		0.99	2.5

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-5.0/7.0-DUP**

Lab Sample ID: 360-24223-10
Client Matrix: Solid
% Moisture: 14.4

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44493.D
Dilution:	1.0			Initial Weight/Volume:	5.93 g
Date Analyzed:	08/26/2009 0625			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND J	*	0.99	4.9
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND J		16	49
2-Butanone (MEK)		ND		6.6	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	4.9
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		ND		5.4	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	4.9
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	107		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	93		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-426-5.0/7.0-DUP**

Lab Sample ID: 360-24223-10
Client Matrix: Solid
% Moisture: 14.4

Date Sampled: 08/19/2009 1425
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44493.D
Dilution:	1.0			Initial Weight/Volume:	5.93 g
Date Analyzed:	08/26/2009 0625			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-431-0.0/1.0-XXX

Lab Sample ID: 360-24223-11
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 08/20/2009 1015
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44523.D
Dilution:	1.0			Initial Weight/Volume:	5.83 g
Date Analyzed:	08/27/2009 0118			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.92	2.3
1,1,1-Trichloroethane		ND		0.92	2.3
1,1,2,2-Tetrachloroethane		ND		0.92	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.92	12
1,1,2-Trichloroethane		ND		0.92	2.3
1,1-Dichloroethane		ND		0.92	2.3
1,1-Dichloroethene		ND		0.92	2.3
1,1-Dichloropropene		ND		0.92	2.3
1,2,3-Trichlorobenzene		ND		0.92	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.92	2.3
1,2,4-Trimethylbenzene		ND		0.92	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.92	2.3
1,2-Dichlorobenzene		ND		0.92	2.3
1,2-Dichloroethane		ND		0.92	2.3
Acetone		ND J	*	17	230
1,2-Dichloropropane		ND		0.92	2.3
1,3,5-Trimethylbenzene		ND		0.92	2.3
1,3-Dichlorobenzene		ND		0.92	2.3
1,3-Dichloropropane		ND		0.92	2.3
1,4-Dichlorobenzene		ND		0.92	2.3
1,4-Dioxane		ND J		30	230
2,2-Dichloropropane		ND		0.92	2.3
2,4,4-Trimethyl-1-pentene		ND J	*	0.92	4.6
2,4,4-Trimethyl-2-pentene		ND		0.92	4.6
2-Chlorotoluene		ND		0.92	2.3
2-Hexanone		ND		4.7	23
4-Chlorotoluene		ND		0.92	2.3
Benzene		ND		0.92	2.3
Bromobenzene		ND		0.92	2.3
Chlorobromomethane		ND		0.92	2.3
Dichlorobromomethane		ND		0.92	2.3
Bromoform		ND		0.92	2.3
Bromomethane		ND		0.92	4.6
n-Butylbenzene		ND		0.92	2.3
Carbon disulfide		ND		0.92	2.3
Carbon tetrachloride		ND		0.92	2.3
Chlorobenzene		ND		0.92	2.3
Chloroethane		ND		0.92	4.6
Chloroform		ND		0.92	2.3
Chloromethane		ND		0.92	4.6
cis-1,2-Dichloroethene		ND		0.92	2.3
cis-1,3-Dichloropropene		ND		0.92	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.92	2.3

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-431-0.0/1.0-XXX**

Lab Sample ID: 360-24223-11
Client Matrix: Solid % Moisture: 6.9

Date Sampled: 08/20/2009 1015
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44523.D
Dilution:	1.0			Initial Weight/Volume:	5.83 g
Date Analyzed:	08/27/2009 0118			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.92	2.3
Dichlorodifluoromethane		ND		0.92	4.6
Ethyl ether		ND		0.92	2.3
Isopropyl ether		ND		0.92	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.92	2.3
Hexachlorobutadiene		ND		0.92	2.3
Isopropylbenzene		ND		0.92	2.3
Methyl acetate		ND	J	15	46
2-Butanone (MEK)		ND		6.2	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.92	2.3
Methylcyclohexane		ND		0.92	2.3
Methylene Chloride		ND		4.5	9.2
m-Xylene & p-Xylene		ND		0.92	4.6
Naphthalene		ND		0.92	23
N-Propylbenzene		ND		0.92	2.3
o-Xylene		ND		0.92	2.3
4-Isopropyltoluene		ND		0.92	2.3
sec-Butylbenzene		ND		0.92	2.3
Styrene		ND		0.92	2.3
Tert-amyl methyl ether		ND		0.92	2.3
tert-Butylbenzene		ND		0.92	2.3
Tetrachloroethene		ND		0.92	2.3
Tetrahydrofuran		ND		5.1	23
Toluene		ND		0.92	2.3
trans-1,2-Dichloroethene		ND		0.92	2.3
trans-1,3-Dichloropropene		ND		0.92	2.3
Trichloroethene		ND		0.92	2.3
Trichlorofluoromethane		ND		0.92	4.6
Vinyl chloride		ND		0.92	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	93		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-431-0.0/1.0-XXX**

Lab Sample ID: 360-24223-11
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 08/20/2009 1015
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44523.D
Dilution:	1.0			Initial Weight/Volume:	5.83 g
Date Analyzed:	08/27/2009 0118			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-431-7.0/9.0-XXX**

Lab Sample ID: 360-24223-12
Client Matrix: Solid % Moisture: 9.5

Date Sampled: 08/20/2009 1025
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44494.D
Dilution:	1.0			Initial Weight/Volume:	6.48 g
Date Analyzed:	08/26/2009 0649			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.85	2.1
1,1,1-Trichloroethane		ND		0.85	2.1
1,1,2,2-Tetrachloroethane		ND		0.85	2.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.85	11
1,1,2-Trichloroethane		ND		0.85	2.1
1,1-Dichloroethane		ND		0.85	2.1
1,1-Dichloroethene		ND		0.85	2.1
1,1-Dichloropropene		ND		0.85	2.1
1,2,3-Trichlorobenzene		ND		0.85	2.1
1,2,3-Trichloropropane		ND		1.3	2.1
1,2,4-Trichlorobenzene		ND		0.85	2.1
1,2,4-Trimethylbenzene		ND		0.85	2.1
1,2-Dibromo-3-Chloropropane		ND		1.5	21
Ethylene Dibromide		ND		0.85	2.1
1,2-Dichlorobenzene		ND		0.85	2.1
1,2-Dichloroethane		ND		0.85	2.1
Acetone		ND J	*	15	210
1,2-Dichloropropane		ND		0.85	2.1
1,3,5-Trimethylbenzene		ND		0.85	2.1
1,3-Dichlorobenzene		ND		0.85	2.1
1,3-Dichloropropane		ND		0.85	2.1
1,4-Dichlorobenzene		ND		0.85	2.1
1,4-Dioxane		ND J		28	210
2,2-Dichloropropane		ND		0.85	2.1
2,4,4-Trimethyl-1-pentene		ND		0.85	4.3
2,4,4-Trimethyl-2-pentene		ND		0.85	4.3
2-Chlorotoluene		ND		0.85	2.1
2-Hexanone		ND		4.4	21
4-Chlorotoluene		ND		0.85	2.1
Benzene		ND		0.85	2.1
Bromobenzene		ND		0.85	2.1
Chlorobromomethane		ND		0.85	2.1
Dichlorobromomethane		ND		0.85	2.1
Bromoform		ND		0.85	2.1
Bromomethane		ND		0.85	4.3
n-Butylbenzene		ND		0.85	2.1
Carbon disulfide		ND		0.85	2.1
Carbon tetrachloride		ND		0.85	2.1
Chlorobenzene		ND		0.85	2.1
Chloroethane		ND		0.85	4.3
Chloroform		ND		0.85	2.1
Chloromethane		ND		0.85	4.3
cis-1,2-Dichloroethene		ND		0.85	2.1
cis-1,3-Dichloropropene		ND		0.85	2.1
Cyclohexane		ND		2.2	21
Chlorodibromomethane		ND		0.85	2.1

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-431-7.0/9.0-XXX**

Lab Sample ID: 360-24223-12
Client Matrix: Solid

% Moisture: 9.5

Date Sampled: 08/20/2009 1025
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44494.D
Dilution:	1.0			Initial Weight/Volume:	6.48 g
Date Analyzed:	08/26/2009 0649			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.85	2.1
Dichlorodifluoromethane		ND J	*	0.85	4.3
Ethyl ether		ND		0.85	2.1
Isopropyl ether		ND		0.85	2.1
Tert-butyl ethyl ether		ND		2.1	2.1
Ethylbenzene		ND		0.85	2.1
Hexachlorobutadiene		ND		0.85	2.1
Isopropylbenzene		ND		0.85	2.1
Methyl acetate		ND J		14	43
2-Butanone (MEK)		ND		5.7	21
4-Methyl-2-pentanone (MIBK)		ND		4.4	21
Methyl tert-butyl ether		ND		0.85	2.1
Methylcyclohexane		ND		0.85	2.1
Methylene Chloride		~~7.2~~ 8.5 V	~~J B~~	4.1	8.5
m-Xylene & p-Xylene		ND		0.85	4.3
Naphthalene		ND		0.85	21
N-Propylbenzene		ND		0.85	2.1
o-Xylene		ND		0.85	2.1
4-Isopropyltoluene		ND		0.85	2.1
sec-Butylbenzene		ND		0.85	2.1
Styrene		ND		0.85	2.1
Tert-amyl methyl ether		ND		0.85	2.1
tert-Butylbenzene		ND		0.85	2.1
Tetrachloroethene		ND		0.85	2.1
Tetrahydrofuran		ND		4.7	21
Toluene		ND		0.85	2.1
trans-1,2-Dichloroethene		ND		0.85	2.1
trans-1,3-Dichloropropene		ND		0.85	2.1
Trichloroethene		ND		0.85	2.1
Trichlorofluoromethane		ND		0.85	4.3
Vinyl chloride		ND		0.85	2.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	108		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	93		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-431-7.0/9.0-XXX**

Lab Sample ID: 360-24223-12
Client Matrix: Solid
% Moisture: 9.5

Date Sampled: 08/20/2009 1025
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44494.D
Dilution:	1.0			Initial Weight/Volume:	6.48 g
Date Analyzed:	08/26/2009 0649			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-436-0.0/1.0-XXX

Lab Sample ID: 360-24223-13
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 08/20/2009 1305
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44524.D
Dilution:	1.0			Initial Weight/Volume:	4.84 g
Date Analyzed:	08/27/2009 0142			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		2.0	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND J	*	20	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND J		36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND J	*	1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: OC-SB-436-0.0/1.0-XXX

Lab Sample ID: 360-24223-13
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 08/20/2009 1305
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44524.D
Dilution:	1.0			Initial Weight/Volume:	4.84 g
Date Analyzed:	08/27/2009 0142			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND		1.1	5.5
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND	J	18	55
2-Butanone (MEK)		ND		7.4	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.3	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	108		70 - 130
Toluene-d8 (Surr)	95		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-436-0.0/1.0-XXX**

Lab Sample ID: 360-24223-13
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 08/20/2009 1305
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44524.D
Dilution:	1.0			Initial Weight/Volume:	4.84 g
Date Analyzed:	08/27/2009 0142			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.06	2.2	T J

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-436-6.0/8.0-XXX**

Lab Sample ID: 360-24223-15
Client Matrix: Solid % Moisture: 7.9

Date Sampled: 08/20/2009 1310
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44495.D
Dilution:	1.0			Initial Weight/Volume:	4.97 g
Date Analyzed:	08/26/2009 0712			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		2.0	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND J	*	20	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND J		36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-436-6.0/8.0-XXX**

Lab Sample ID: 360-24223-15
Client Matrix: Solid

% Moisture: 7.9

Date Sampled: 08/20/2009 1310
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44495.D
Dilution:	1.0			Initial Weight/Volume:	4.97 g
Date Analyzed:	08/26/2009 0712			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.5
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND J		18	55
2-Butanone (MEK)		ND		7.4	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		~~7.9~~ 11 U	~~J B~~	5.3	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	94		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-SB-436-6.0/8.0-XXX**

Lab Sample ID: 360-24223-15
Client Matrix: Solid
% Moisture: 7.9

Date Sampled: 08/20/2009 1310
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44495.D
Dilution:	1.0			Initial Weight/Volume:	4.97 g
Date Analyzed:	08/26/2009 0712			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.05	1.6	T J

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-TBK-004**

Lab Sample ID: 360-24223-16
Client Matrix: Solid

Date Sampled: 08/20/2009 1430
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44496.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	08/26/2009 0736			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-TBK-004**

Lab Sample ID: 360-24223-16
Client Matrix: Solid

Date Sampled: 08/20/2009 1430
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44496.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	08/26/2009 0736			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		7.7	J B	4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	93		70 - 130

3/25/10 TC

Client: Olin Corporation

Job Number: 360-24223-1
Sdg Number: OCRI-03

Client Sample ID: **OC-TBK-004**

Lab Sample ID: 360-24223-16
Client Matrix: Solid

Date Sampled: 08/20/2009 1430
Date Received: 08/20/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48159		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48150		Lab File ID:	V44496.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	08/26/2009 0736			Final Weight/Volume:	5 g
Date Prepared:	08/25/2009 1546				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

3/25/10
TC 09/18/2009

SDG 360-24223-1 (OCRI-03)

Tier 3 checks done on OC-SB-415-0.0/1.0-XXX
OC-SB-415-5.0/7.0-XXX
OC-SB-415-0.0/1.0-XXX

Sample checks & Surrogate = See attached Qualt Reports

Tune ✓ see attached

Initial calibration analyzed on 8/24/09 = Tier 3 checks done in OCRI-01 Data Package

Continuing Calibration Tier 3 checks

Date Analyzed

8/25/09 @ 23:59 see OCRI-01 for calculation checks

8/26/09 @ 17:03 See OCRI-01 for calculation checks

LCS

360-48229
360-48150
} See OCRI-02 for calc check

MS/MSD

See attached & Next page

Tier 3 calculation checks

SDG 360-24223-1 (OCRI-03)

MS/MSD

	MS (ug/kg)	MSD (ug/kg)	RPD
Benzene	91.35	88.20	0.0345
102 ug/kg spiked (MS)	90% Rec	~~88~~ 89%	✓ ok
Chlorobenzene	95.26	92.5	0.0293
	~~93~~ 94% Rec	~~93~~ 94%	

98.8 ug/kg MSD spike

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-415-0.0/1.0-XXX	360-24223-1	106	94	99
OC-SB-415-5.0/7.0-XXX	360-24223-3	100	92	101
OC-SB-419-0.0/1.0-XXX	360-24223-4	99	95	98
OC-SB-419-3.0/5.0-XXX	360-24223-6	102	95	102
OC-SB-426-0.0/1.0-XXX	360-24223-7	105	94	99
OC-SB-426-5.0/7.0-XXX	360-24223-9	104	92	104
OC-SB-426-5.0/7.0-DUP	360-24223-10	104	93	107
OC-SB-431-0.0/1.0-XXX	360-24223-11	106	93	101
OC-SB-431-7.0/9.0-XXX	360-24223-12	104	93	108
OC-SB-436-0.0/1.0-XXX	360-24223-13	108	95	99
OC-SB-436-6.0/8.0-XXX	360-24223-15	98	94	104
OC-TBK-004	360-24223-16	103	93	103
	MB 360-48150/3-A	102	94	103
	MB 360-48229/3-A	98	95	102
	LCS 360-48150/1-A	97	98	98
	LCS 360-48229/1-A	97	98	101
	LCSD 360-48150/2-A	97	98	100
	LCSD 360-48229/2-A	95	99	102
OC-SB-426-5.0/7.0-XXX MS	360-24223-9 MS	97	98	96
OC-SB-426-5.0/7.0-XXX MSD	360-24223-9 MSD	97	96	99

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

09/18/2009
3/25/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Client Sample ID: Lab Sample ID: MB 360-48150/3-A

Matrix: Solid Lab File ID: V44483.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 08/26/2009 02:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48159 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	9.22	J	10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

(U) Qualified Associated Samples

X 10 = 92 ug/kg Action level

TC 3/25/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Client Sample ID: Lab Sample ID: MB 360-48229/3-A

Matrix: Solid Lab File ID: V44509.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 08/26/2009 19:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48231 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	7.37	J	10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

(U) Qualified Associated Samples

7.37 x 10 = 73 ug/kg Action level

09/18/2009

3/25/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44478.D

Lab ID: LCS 360-48150/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	102	102	70-130	
1,1,1-Trichloroethane	100	92.9	93	70-130	
1,1,2,2-Tetrachloroethane	100	98.3	98	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	98.7	99	70-130	
1,1,2-Trichloroethane	100	93.0	93	70-130	
1,1-Dichloroethane	100	104	104	70-130	
1,1-Dichloroethene	100	100	100	70-130	
1,1-Dichloropropene	100	97.8	98	70-130	
1,2,3-Trichlorobenzene	100	106	106	70-130	
1,2,3-Trichloropropane	100	102	102	70-130	
1,2,4-Trichlorobenzene	100	105	105	70-130	
1,2,4-Trimethylbenzene	100	99.5	99	70-130	
1,2-Dibromo-3-Chloropropane	100	99.4	99	70-130	
Ethylene Dibromide	100	93.8	94	70-130	
1,2-Dichlorobenzene	100	100	100	70-130	
1,2-Dichloroethane	100	98.1	98	70-130	
Acetone	1000	683	68	70-130	*
1,2-Dichloropropane	100	114	114	70-130	
1,3,5-Trimethylbenzene	100	103	103	70-130	
1,3-Dichlorobenzene	100	101	101	70-130	
1,3-Dichloropropane	100	90.8	91	70-130	
1,4-Dichlorobenzene	100	102	102	70-130	
1,4-Dioxane	1000	1010	101	70-130	
2,2-Dichloropropane	100	90.3	90	70-130	
2,4,4-Trimethyl-1-pentene	100	115	115	70-130	
2,4,4-Trimethyl-2-pentene	100	106	106	70-130	
2-Chlorotoluene	100	101	101	70-130	
2-Hexanone	1000	843	84	70-130	
4-Chlorotoluene	100	103	103	70-130	
Benzene	100	95.2	95	70-130	
Bromobenzene	100	99.3	99	70-130	
Chlorobromomethane	100	92.0	92	70-130	
Dichlorobromomethane	100	98.8	99	70-130	
Bromoform	100	97.6	98	70-130	
Bromomethane	100	107	107	70-130	
n-Butylbenzene	100	105	105	70-130	
Carbon disulfide	100	96.3	96	70-130	
Carbon tetrachloride	100	99.8	100	70-130	
Chlorobenzene	100	100	100	70-130	
Chloroethane	100	102	102	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

* J/UJ Associated Samples

TC 3/25/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44478.D

Lab ID: LCS 360-48150/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	104	104	70-130	
Chloromethane	100	97.9	98	70-130	
cis-1,2-Dichloroethene	100	98.0	98	70-130	
cis-1,3-Dichloropropene	100	93.4	93	70-130	
Cyclohexane	100	91.4	91	70-130	
Chlorodibromomethane	100	93.4	93	70-130	
Dibromomethane	100	95.2	95	70-130	
Dichlorodifluoromethane	100	65.8	66	70-130	*
Ethyl ether	100	95.0	95	70-130	
Isopropyl ether	100	92.6	93	70-130	
Tert-butyl ethyl ether	100	103	103	70-130	
Ethylbenzene	100	106	106	70-130	
Hexachlorobutadiene	100	101	101	70-130	
Isopropylbenzene	100	103	103	70-130	
Methyl acetate	1000	901	90	70-130	
2-Butanone (MEK)	1000	881	88	70-130	
4-Methyl-2-pentanone (MIBK)	1000	979	98	70-130	
Methyl tert-butyl ether	100	101	101	70-130	
Methylcyclohexane	100	93.5	94	70-130	
Methylene Chloride	100	115	115	70-130	
m-Xylene & p-Xylene	200	215	108	70-130	
Naphthalene	100	100	100	70-130	
N-Propylbenzene	100	104	104	70-130	
o-Xylene	100	99.6	100	70-130	
4-Isopropyltoluene	100	108	108	70-130	
sec-Butylbenzene	100	103	103	70-130	
Styrene	100	100	100	70-130	
Tert-amyl methyl ether	100	103	103	70-130	
tert-Butylbenzene	100	107	107	70-130	
Tetrachloroethene	100	97.6	98	70-130	
Tetrahydrofuran	1000	1050	105	70-130	
Toluene	100	95.6	96	70-130	
trans-1,2-Dichloroethene	100	92.3	92	70-130	
trans-1,3-Dichloropropene	100	93.5	93	70-130	
Trichloroethene	100	97.9	98	70-130	
Trichlorofluoromethane	100	95.5	95	70-130	
Vinyl chloride	100	99.8	100	70-130	

* J/UJ Associated samples

TC 3/25/10

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44504.D

Lab ID: LCS 360-48229/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	107	107	70-130	
1,1,1-Trichloroethane	100	102	102	70-130	
1,1,2,2-Tetrachloroethane	100	103	103	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	113	113	70-130	
1,1,2-Trichloroethane	100	90.3	90	70-130	
1,1-Dichloroethane	100	108	108	70-130	
1,1-Dichloroethene	100	109	109	70-130	
1,1-Dichloropropene	100	104	104	70-130	
1,2,3-Trichlorobenzene	100	108	108	70-130	
1,2,3-Trichloropropane	100	105	105	70-130	
1,2,4-Trichlorobenzene	100	108	108	70-130	
1,2,4-Trimethylbenzene	100	105	105	70-130	
1,2-Dibromo-3-Chloropropane	100	99.0	99	70-130	
Ethylene Dibromide	100	90.2	90	70-130	
1,2-Dichlorobenzene	100	102	102	70-130	
1,2-Dichloroethane	100	96.9	97	70-130	
Acetone	1000	699	70	70-130	
1,2-Dichloropropane	100	119	119	70-130	
1,3,5-Trimethylbenzene	100	110	110	70-130	
1,3-Dichlorobenzene	100	103	103	70-130	
1,3-Dichloropropane	100	91.9	92	70-130	
1,4-Dichlorobenzene	100	104	104	70-130	
1,4-Dioxane	1000	1030	103	70-130	
2,2-Dichloropropane	100	115	115	70-130	
2,4,4-Trimethyl-1-pentene	100	133	133	70-130	*
2,4,4-Trimethyl-2-pentene	100	119	119	70-130	
2-Chlorotoluene	100	106	106	70-130	
2-Hexanone	1000	830	83	70-130	
4-Chlorotoluene	100	107	107	70-130	
Benzene	100	95.5	96	70-130	
Bromobenzene	100	105	105	70-130	
Chlorobromomethane	100	92.0	92	70-130	
Dichlorobromomethane	100	97.8	98	70-130	
Bromoform	100	96.7	97	70-130	
Bromomethane	100	124	124	70-130	
n-Butylbenzene	100	114	114	70-130	
Carbon disulfide	100	103	103	70-130	
Carbon tetrachloride	100	107	107	70-130	
Chlorobenzene	100	104	104	70-130	
Chloroethane	100	116	116	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
3/25/10

No defects in associated samples NO Quals

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44504.D

Lab ID: LCS 360-48229/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	101	101	70-130	
Chloromethane	100	109	109	70-130	
cis-1,2-Dichloroethene	100	98.5	99	70-130	
cis-1,3-Dichloropropene	100	93.0	93	70-130	
Cyclohexane	100	107	107	70-130	
Chlorodibromomethane	100	90.6	91	70-130	
Dibromomethane	100	94.4	94	70-130	
Dichlorodifluoromethane	100	78.3	78	70-130	
Ethyl ether	100	94.6	95	70-130	
Isopropyl ether	100	96.4	96	70-130	
Tert-butyl ethyl ether	100	106	106	70-130	
Ethylbenzene	100	113	113	70-130	
Hexachlorobutadiene	100	107	107	70-130	
Isopropylbenzene	100	113	113	70-130	
Methyl acetate	1000	810	81	70-130	
2-Butanone (MEK)	1000	867	87	70-130	
4-Methyl-2-pentanone (MIBK)	1000	985	98	70-130	
Methyl tert-butyl ether	100	101	101	70-130	
Methylcyclohexane	100	108	108	70-130	
Methylene Chloride	100	129	129	70-130	
m-Xylene & p-Xylene	200	228	114	70-130	
Naphthalene	100	103	103	70-130	
N-Propylbenzene	100	113	113	70-130	
o-Xylene	100	105	105	70-130	
4-Isopropyltoluene	100	116	116	70-130	
sec-Butylbenzene	100	114	114	70-130	
Styrene	100	103	103	70-130	
Tert-amyl methyl ether	100	104	104	70-130	
tert-Butylbenzene	100	117	117	70-130	
Tetrachloroethene	100	99.6	100	70-130	
Tetrahydrofuran	1000	1040	104	70-130	
Toluene	100	96.7	97	70-130	
trans-1,2-Dichloroethene	100	96.8	97	70-130	
trans-1,3-Dichloropropene	100	92.4	92	70-130	
Trichloroethene	100	98.9	99	70-130	
Trichlorofluoromethane	100	118	118	70-130	
Vinyl chloride	100	112	112	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 3/25/10 ✓

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44479.D

Lab ID: LCSD 360-48150/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	98.2	98	4	25	70-130	
1,1,1-Trichloroethane	100	90.3	90	3	25	70-130	
1,1,2,2-Tetrachloroethane	100	94.2	94	4	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	96.8	97	2	25	70-130	
1,1,2-Trichloroethane	100	86.6	87	7	25	70-130	
1,1-Dichloroethane	100	100	100	4	25	70-130	
1,1-Dichloroethene	100	95.3	95	5	25	70-130	
1,1-Dichloropropene	100	93.3	93	5	25	70-130	
1,2,3-Trichlorobenzene	100	101	101	5	25	70-130	
1,2,3-Trichloropropane	100	99.2	99	2	25	70-130	
1,2,4-Trichlorobenzene	100	100	100	4	25	70-130	
1,2,4-Trimethylbenzene	100	96.7	97	3	25	70-130	
1,2-Dibromo-3-Chloropropane	100	93.9	94	6	25	70-130	
Ethylene Dibromide	100	88.9	89	5	25	70-130	
1,2-Dichlorobenzene	100	95.8	96	5	25	70-130	
1,2-Dichloroethane	100	94.1	94	4	25	70-130	
Acetone	1000	670	67	2	25	70-130	*
1,2-Dichloropropane	100	110	110	4	25	70-130	
1,3,5-Trimethylbenzene	100	99.7	100	3	25	70-130	
1,3-Dichlorobenzene	100	97.0	97	4	25	70-130	
1,3-Dichloropropane	100	88.6	89	2	25	70-130	
1,4-Dichlorobenzene	100	96.5	97	5	25	70-130	
1,4-Dioxane	1000	946	95	6	25	70-130	
2,2-Dichloropropane	100	87.2	87	4	25	70-130	
2,4,4-Trimethyl-1-pentene	100	111	111	4	25	70-130	
2,4,4-Trimethyl-2-pentene	100	101	101	5	25	70-130	
2-Chlorotoluene	100	98.2	98	3	25	70-130	
2-Hexanone	1000	781	78	8	25	70-130	
4-Chlorotoluene	100	100	100	3	25	70-130	
Benzene	100	90.7	91	5	25	70-130	
Bromobenzene	100	96.6	97	3	25	70-130	
Chlorobromomethane	100	89.2	89	3	25	70-130	
Dichlorobromomethane	100	95.2	95	4	25	70-130	
Bromoform	100	92.5	92	5	25	70-130	
Bromomethane	100	105	105	2	25	70-130	
n-Butylbenzene	100	99.7	100	5	25	70-130	
Carbon disulfide	100	92.7	93	4	25	70-130	
Carbon tetrachloride	100	94.9	95	5	25	70-130	
Chlorobenzene	100	96.3	96	4	25	70-130	
Chloroethane	100	99.7	100	3	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

* UJ Qual Associated samples

3/25/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44479.D

Lab ID: LCSD 360-48150/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	95.7	96	8	25	70-130	
Chloromethane	100	93.5	93	5	25	70-130	
cis-1,2-Dichloroethene	100	95.0	95	3	25	70-130	
cis-1,3-Dichloropropene	100	89.4	89	4	25	70-130	
Cyclohexane	100	91.6	92	0	25	70-130	
Chlorodibromomethane	100	88.3	88	6	25	70-130	
Dibromomethane	100	91.3	91	4	25	70-130	
Dichlorodifluoromethane	100	61.5	62	7	25	70-130	*
Ethyl ether	100	92.0	92	3	25	70-130	
Isopropyl ether	100	90.6	91	2	25	70-130	
Tert-butyl ethyl ether	100	100	100	3	25	70-130	
Ethylbenzene	100	102	102	4	25	70-130	
Hexachlorobutadiene	100	96.0	96	5	25	70-130	
Isopropylbenzene	100	100	100	3	25	70-130	
Methyl acetate	1000	873	87	3	25	70-130	
2-Butanone (MEK)	1000	801	80	10	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	931	93	5	25	70-130	
Methyl tert-butyl ether	100	96.5	96	4	25	70-130	
Methylcyclohexane	100	92.1	92	2	25	70-130	
Methylene Chloride	100	112	112	3	25	70-130	
m-Xylene & p-Xylene	200	207	103	4	25	70-130	
Naphthalene	100	96.0	96	4	25	70-130	
N-Propylbenzene	100	101	101	3	25	70-130	
o-Xylene	100	96.4	96	3	25	70-130	
4-Isopropyltoluene	100	104	104	3	25	70-130	
sec-Butylbenzene	100	100	100	3	25	70-130	
Styrene	100	97.9	98	2	25	70-130	
Tert-amyl methyl ether	100	99.3	99	3	25	70-130	
tert-Butylbenzene	100	105	105	2	25	70-130	
Tetrachloroethene	100	91.3	91	7	25	70-130	
Tetrahydrofuran	1000	1020	102	2	25	70-130	
Toluene	100	91.6	92	4	25	70-130	
trans-1,2-Dichloroethene	100	88.6	89	4	25	70-130	
trans-1,3-Dichloropropene	100	88.0	88	6	25	70-130	
Trichloroethene	100	92.1	92	6	25	70-130	
Trichlorofluoromethane	100	91.0	91	5	25	70-130	
Vinyl chloride	100	94.0	94	6	25	70-130	

* VJ Qual Associated samples

TC 3/25/10

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44505.D

Lab ID: LCSD 360-48229/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	101	101	6	25	70-130	
1,1,1-Trichloroethane	100	99.3	99	3	25	70-130	
1,1,2,2-Tetrachloroethane	100	92.4	92	11	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	105	105	8	25	70-130	
1,1,2-Trichloroethane	100	83.3	83	8	25	70-130	
1,1-Dichloroethane	100	103	103	4	25	70-130	
1,1-Dichloroethene	100	107	107	2	25	70-130	
1,1-Dichloropropene	100	101	101	3	25	70-130	
1,2,3-Trichlorobenzene	100	94.1	94	14	25	70-130	
1,2,3-Trichloropropane	100	97.6	98	7	25	70-130	
1,2,4-Trichlorobenzene	100	96.8	97	11	25	70-130	
1,2,4-Trimethylbenzene	100	102	102	2	25	70-130	
1,2-Dibromo-3-Chloropropane	100	89.2	89	10	25	70-130	
Ethylene Dibromide	100	82.9	83	8	25	70-130	
1,2-Dichlorobenzene	100	96.0	96	6	25	70-130	
1,2-Dichloroethane	100	89.4	89	8	25	70-130	
Acetone	1000	521	52	29	25	70-130	*
1,2-Dichloropropane	100	111	111	7	25	70-130	
1,3,5-Trimethylbenzene	100	107	107	3	25	70-130	
1,3-Dichlorobenzene	100	99.3	99	4	25	70-130	
1,3-Dichloropropane	100	85.0	85	8	25	70-130	
1,4-Dichlorobenzene	100	99.1	99	5	25	70-130	
1,4-Dioxane	1000	921	92	11	25	70-130	
2,2-Dichloropropane	100	112	112	2	25	70-130	
2,4,4-Trimethyl-1-pentene	100	124	124	7	25	70-130	
2,4,4-Trimethyl-2-pentene	100	110	110	8	25	70-130	
2-Chlorotoluene	100	103	103	3	25	70-130	
2-Hexanone	1000	726	73	13	25	70-130	
4-Chlorotoluene	100	105	105	2	25	70-130	
Benzene	100	91.6	92	4	25	70-130	
Bromobenzene	100	99.6	100	5	25	70-130	
Chlorobromomethane	100	86.1	86	7	25	70-130	
Dichlorobromomethane	100	91.5	92	7	25	70-130	
Bromoform	100	89.0	89	8	25	70-130	
Bromomethane	100	119	119	4	25	70-130	
n-Butylbenzene	100	111	111	3	25	70-130	
Carbon disulfide	100	101	101	1	25	70-130	
Carbon tetrachloride	100	105	105	2	25	70-130	
Chlorobenzene	100	99.9	100	4	25	70-130	
Chloroethane	100	110	110	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

* UJ Qual Associated

TC

3/25/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44505.D

Lab ID: LCSD 360-48229/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	96.7	97	5	25	70-130	
Chloromethane	100	104	104	4	25	70-130	
cis-1,2-Dichloroethene	100	94.3	94	4	25	70-130	
cis-1,3-Dichloropropene	100	88.2	88	5	25	70-130	
Cyclohexane	100	107	107	0	25	70-130	
Chlorodibromomethane	100	84.9	85	7	25	70-130	
Dibromomethane	100	86.8	87	8	25	70-130	
Dichlorodifluoromethane	100	74.3	74	5	25	70-130	
Ethyl ether	100	86.4	86	9	25	70-130	
Isopropyl ether	100	89.6	90	7	25	70-130	
Tert-butyl ethyl ether	100	97.3	97	9	25	70-130	
Ethylbenzene	100	110	110	3	25	70-130	
Hexachlorobutadiene	100	102	102	5	25	70-130	
Isopropylbenzene	100	110	110	2	25	70-130	
Methyl acetate	1000	751	75	8	25	70-130	
2-Butanone (MEK)	1000	731	73	17	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	849	85	15	25	70-130	
Methyl tert-butyl ether	100	91.2	91	11	25	70-130	
Methylcyclohexane	100	110	110	1	25	70-130	
Methylene Chloride	100	125	125	3	25	70-130	
m-Xylene & p-Xylene	200	222	111	3	25	70-130	
Naphthalene	100	88.0	88	16	25	70-130	
N-Propylbenzene	100	110	110	2	25	70-130	
o-Xylene	100	101	101	4	25	70-130	
4-Isopropyltoluene	100	114	114	2	25	70-130	
sec-Butylbenzene	100	111	111	2	25	70-130	
Styrene	100	98.4	98	4	25	70-130	
Tert-amyl methyl ether	100	93.6	94	11	25	70-130	
tert-Butylbenzene	100	114	114	3	25	70-130	
Tetrachloroethene	100	97.4	97	2	25	70-130	
Tetrahydrofuran	1000	932	93	11	25	70-130	
Toluene	100	93.3	93	3	25	70-130	
trans-1,2-Dichloroethene	100	93.4	93	4	25	70-130	
trans-1,3-Dichloropropene	100	85.9	86	7	25	70-130	
Trichloroethene	100	95.7	96	3	25	70-130	
Trichlorofluoromethane	100	111	111	6	25	70-130	
Vinyl chloride	100	106	106	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
3/25/10

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44480.D

Lab ID: 360-24223-9 MS Client ID: OC-SB-426-5.0/7.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	102	ND	99.2	98	70-130	
1,1,1-Trichloroethane	102	ND	91.7	90	70-130	
1,1,2,2-Tetrachloroethane	102	ND	92.9	92	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	102	ND	92.5	91	70-130	
1,1,2-Trichloroethane	102	ND	86.1	85	70-130	
1,1-Dichloroethane	102	ND	101	99	70-130	
1,1-Dichloroethene	102	ND	95.3	94	70-130	
1,1-Dichloropropene	102	ND	90.8	89	70-130	
1,2,3-Trichlorobenzene	102	ND	85.8	85	70-130	
1,2,3-Trichloropropane	102	ND	100	99	70-130	
1,2,4-Trichlorobenzene	102	ND	86.6	85	70-130	
1,2,4-Trimethylbenzene	102	ND	92.2	91	70-130	
1,2-Dibromo-3-Chloropropane	102	ND	92.2	91	70-130	
Ethylene Dibromide	102	ND	87.4	86	70-130	
1,2-Dichlorobenzene	102	ND	92.5	91	70-130	
1,2-Dichloroethane	102	ND	90.0	89	70-130	
Acetone	1020	ND	654	64	70-130	F *
1,2-Dichloropropane	102	ND	112	110	70-130	
1,3,5-Trimethylbenzene	102	ND	95.3	94	70-130	
1,3-Dichlorobenzene	102	ND	90.1	89	70-130	
1,3-Dichloropropane	102	ND	87.5	86	70-130	
1,4-Dichlorobenzene	102	ND	92.7	91	70-130	
1,4-Dioxane	1020	ND	1130	112	70-130	
2,2-Dichloropropane	102	ND	86.6	85	70-130	
2,4,4-Trimethyl-1-pentene	102	ND	102	101	70-130	
2,4,4-Trimethyl-2-pentene	102	ND	94.0	93	70-130	
2-Chlorotoluene	102	ND	93.3	92	70-130	
2-Hexanone	1020	ND	747	74	70-130	
4-Chlorotoluene	102	ND	93.2	92	70-130	
Benzene	102	ND	91.3	90	70-130	
Bromobenzene	102	ND	91.6	90	70-130	
Chlorobromomethane	102	ND	89.1	88	70-130	
Dichlorobromomethane	102	ND	92.0	91	70-130	
Bromoform	102	ND	92.9	92	70-130	
Bromomethane	102	ND	104	103	70-130	
n-Butylbenzene	102	ND	90.7	89	70-130	
Carbon disulfide	102	ND	86.8	86	70-130	
Carbon tetrachloride	102	ND	92.5	91	70-130	
Chlorobenzene	102	ND	95.3	94	70-130	
Chloroethane	102	ND	97.8	96	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

* UJ Qual in unspiked sample

3/25/10 T=

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44480.D

Lab ID: 360-24223-9 MS Client ID: OC-SB-426-5.0/7.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloroform	102	ND	99.6	98	70-130	
Chloromethane	102	ND	90.6	89	70-130	
cis-1,2-Dichloroethene	102	ND	94.3	93	70-130	
cis-1,3-Dichloropropene	102	ND	88.7	87	70-130	
Cyclohexane	102	ND	87.4	86	70-130	
Chlorodibromomethane	102	ND	88.2	87	70-130	
Dibromomethane	102	ND	88.4	87	70-130	
Dichlorodifluoromethane	102	ND	58.1	57	70-130	F *
Ethyl ether	102	ND	90.7	89	70-130	
Isopropyl ether	102	ND	90.0	89	70-130	
Tert-butyl ethyl ether	102	ND	99.9	98	70-130	
Ethylbenzene	102	ND	100	99	70-130	
Hexachlorobutadiene	102	ND	75.9	75	70-130	
Isopropylbenzene	102	ND	97.2	96	70-130	
Methyl acetate	1020	ND	909	90	70-130	
2-Butanone (MEK)	1020	ND	798	79	70-130	
4-Methyl-2-pentanone (MIBK)	1020	ND	880	87	70-130	
Methyl tert-butyl ether	102	ND	94.7	93	70-130	
Methylcyclohexane	102	ND	85.7	84	70-130	
Methylene Chloride	102	ND	109	108	70-130	
m-Xylene & p-Xylene	203	ND	205	101	70-130	
Naphthalene	102	ND	85.6	84	70-130	
N-Propylbenzene	102	ND	95.6	94	70-130	
o-Xylene	102	ND	95.6	94	70-130	
4-Isopropyltoluene	102	ND	96.3	95	70-130	
sec-Butylbenzene	102	ND	93.1	92	70-130	
Styrene	102	ND	92.7	91	70-130	
Tert-amyl methyl ether	102	ND	97.8	96	70-130	
tert-Butylbenzene	102	ND	99.4	98	70-130	
Tetrachloroethene	102	ND	90.8	89	70-130	
Tetrahydrofuran	1020	ND	1000	99	70-130	
Toluene	102	ND	90.9	90	70-130	
trans-1,2-Dichloroethene	102	ND	86.4	85	70-130	
trans-1,3-Dichloropropene	102	ND	88.5	87	70-130	
Trichloroethene	102	ND	91.4	90	70-130	
Trichlorofluoromethane	102	ND	89.6	88	70-130	
Vinyl chloride	102	ND	92.0	91	70-130	

* UJ Qual in UN-spiked Sample

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
3/25/10

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44481.D

Lab ID: 360-24223-9 MSD Client ID: OC-SB-426-5.0/7.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	98.8	95.1	96	4	30	70-130	
1,1,1-Trichloroethane	98.8	88.8	90	3	30	70-130	
1,1,2,2-Tetrachloroethane	98.8	91.5	93	2	30	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	98.8	86.9	88	6	30	70-130	
1,1,2-Trichloroethane	98.8	82.2	83	5	30	70-130	
1,1-Dichloroethane	98.8	97.5	99	3	30	70-130	
1,1-Dichloroethene	98.8	90.1	91	6	30	70-130	
1,1-Dichloropropene	98.8	88.8	90	2	30	70-130	
1,2,3-Trichlorobenzene	98.8	79.4	80	8	30	70-130	
1,2,3-Trichloropropane	98.8	96.9	98	3	30	70-130	
1,2,4-Trichlorobenzene	98.8	80.8	82	7	30	70-130	
1,2,4-Trimethylbenzene	98.8	90.4	91	2	30	70-130	
1,2-Dibromo-3-Chloropropane	98.8	87.5	89	5	30	70-130	
Ethylene Dibromide	98.8	81.3	82	7	30	70-130	
1,2-Dichlorobenzene	98.8	89.4	91	3	30	70-130	
1,2-Dichloroethane	98.8	88.8	90	1	30	70-130	
Acetone	988	581	59	12	30	70-130	F *
1,2-Dichloropropane	98.8	106	107	6	30	70-130	
1,3,5-Trimethylbenzene	98.8	94.3	96	1	30	70-130	
1,3-Dichlorobenzene	98.8	87.8	89	3	30	70-130	
1,3-Dichloropropane	98.8	83.3	84	5	30	70-130	
1,4-Dichlorobenzene	98.8	90.2	91	3	30	70-130	
1,4-Dioxane	988	998	101	13	30	70-130	
2,2-Dichloropropane	98.8	85.6	87	1	30	70-130	
2,4,4-Trimethyl-1-pentene	98.8	91.9	93	11	30	70-130	
2,4,4-Trimethyl-2-pentene	98.8	87.9	89	7	30	70-130	
2-Chlorotoluene	98.8	92.4	94	1	30	70-130	
2-Hexanone	988	721	73	4	30	70-130	
4-Chlorotoluene	98.8	92.8	94	0	30	70-130	
Benzene	98.8	88.2	89	3	30	70-130	
Bromobenzene	98.8	91.6	93	0	30	70-130	
Chlorobromomethane	98.8	84.6	86	5	30	70-130	
Dichlorobromomethane	98.8	89.3	90	3	30	70-130	
Bromoform	98.8	89.4	91	4	30	70-130	
Bromomethane	98.8	106	107	2	30	70-130	
n-Butylbenzene	98.8	87.8	89	3	30	70-130	
Carbon disulfide	98.8	82.8	84	5	30	70-130	
Carbon tetrachloride	98.8	87.4	89	6	30	70-130	
Chlorobenzene	98.8	92.3	93	3	30	70-130	
Chloroethane	98.8	98.4	100	1	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

* UJ Qual in unspiked sample

3/25/10 TC

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Matrix: Solid Level: Low Lab File ID: V44481.D

Lab ID: 360-24223-9 MSD Client ID: OC-SB-426-5.0/7.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	98.8	95.8	97	4	30	70-130	
Chloromethane	98.8	89.4	91	1	30	70-130	
cis-1,2-Dichloroethene	98.8	91.1	92	4	30	70-130	
cis-1,3-Dichloropropene	98.8	84.1	85	5	30	70-130	
Cyclohexane	98.8	81.7	83	7	30	70-130	
Chlorodibromomethane	98.8	81.3	82	8	30	70-130	
Dibromomethane	98.8	84.5	86	4	30	70-130	
Dichlorodifluoromethane	98.8	54.1	55 *	7	30	70-130	F
Ethyl ether	98.8	85.8	87	6	30	70-130	
Isopropyl ether	98.8	87.8	89	2	30	70-130	
Tert-butyl ethyl ether	98.8	96.6	98	3	30	70-130	
Ethylbenzene	98.8	98.1	99	2	30	70-130	
Hexachlorobutadiene	98.8	70.0	71	8	30	70-130	
Isopropylbenzene	98.8	95.6	97	2	30	70-130	
Methyl acetate	988	842	85	8	30	70-130	
2-Butanone (MEK)	988	783	79	2	30	70-130	
4-Methyl-2-pentanone (MIBK)	988	846	86	4	30	70-130	
Methyl tert-butyl ether	98.8	90.4	92	5	30	70-130	
Methylcyclohexane	98.8	78.9	80	8	30	70-130	
Methylene Chloride	98.8	107	108	2	30	70-130	
m-Xylene & p-Xylene	198	200	101	3	30	70-130	
Naphthalene	98.8	79.3	80	8	30	70-130	
N-Propylbenzene	98.8	94.1	95	2	30	70-130	
o-Xylene	98.8	93.5	95	2	30	70-130	
4-Isopropyltoluene	98.8	94.2	95	2	30	70-130	
sec-Butylbenzene	98.8	92.0	93	1	30	70-130	
Styrene	98.8	92.1	93	1	30	70-130	
Tert-amyl methyl ether	98.8	92.9	94	5	30	70-130	
tert-Butylbenzene	98.8	99.8	101	0	30	70-130	
Tetrachloroethene	98.8	86.3	87	5	30	70-130	
Tetrahydrofuran	988	950	96	5	30	70-130	
Toluene	98.8	86.9	88	4	30	70-130	
trans-1,2-Dichloroethene	98.8	83.3	84	4	30	70-130	
trans-1,3-Dichloropropene	98.8	81.1	82	9	30	70-130	
Trichloroethene	98.8	89.1	90	3	30	70-130	
Trichlorofluoromethane	98.8	86.3	87	4	30	70-130	
Vinyl chloride	98.8	89.1	90	3	30	70-130	

* UJ Qual in UN-spiked Sample

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/25/10
TC ✓

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Lin1		0.3185		80.5	100	-19.5	30.0	
Chloromethane	Lin		0.6163	0.1000	105	100	5.0	30.0	
Vinyl chloride	Lin		0.4966		114	100	14.2	30.0	
Bromomethane	Lin		0.3408		119	100	19.2	30.0	
Chloroethane	Lin		0.2747		116	100	16.2	30.0	
Trichlorofluoromethane	Lin		0.5399		123	100	22.5	30.0	
Ethyl ether	Ave	0.1998	0.1939		97.1	100	-2.9	30.0	
1,1-Dichloroethene	Lin		0.3745		118	100	18.5	30.0	
Carbon disulfide	Ave	1.172	1.267		108	100	8.1	30.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2479		123	100	23.1	30.0	
Acrolein	Lin1		0.5439		5400	5000	8.1	30.0	
Methylene Chloride	Lin		0.4442		135	100	35.2*	30.0	***
Acetone	Qua		0.0317		539	1000	-46.1*	30.0	**
trans-1,2-Dichloroethene	Ave	0.5280	0.5291		100	100	0.2	30.0	
Methyl acetate	Lin		0.1085		771	1000	-22.9	30.0	
Methyl tert-butyl ether	Lin		0.5479		100	100	0.2	30.0	
2-Methyl-2-propanol	Lin1		0.2589		1020	1000	1.8	30.0	
Isopropyl ether	Ave	1.438	1.368		95.1	100	-4.9	30.0	
1,1-Dichloroethane	Lin		0.6061	0.1000	111	100	10.8	30.0	
Acrylonitrile	Lin2		0.0506		98.6	100	-1.4	30.0	
Tert-butyl ethyl ether	Lin		0.8849		105	100	4.9	30.0	
Vinyl acetate	Lin1		0.3114		1000	1000	0.1	30.0	
cis-1,2-Dichloroethene	Ave	0.4581	0.4686		102	100	2.3	30.0	
2,2-Dichloropropane	Qua		0.4611		113	100	12.6	30.0	
Chlorobromomethane	Ave	0.1791	0.1703		95.1	100	-4.9	30.0	
Cyclohexane	Ave	0.6383	0.6885		108	100	7.9	30.0	
Chloroform	Lin		0.5459		106	100	6.2	30.0	
Carbon tetrachloride	Ave	0.3593	0.4289		119	100	19.3	30.0	
Tetrahydrofuran	Lin1		0.0493		1020	1000	1.7	30.0	
1,1,1-Trichloroethane	Ave	0.4934	0.5271		107	100	6.8	30.0	
2-Butanone (MEK)	Ave	0.0653	0.0531		813	1000	-18.7	30.0	
1,1-Dichloropropene	Ave	0.3849	0.4270		111	100	10.9	30.0	
Benzene	Ave	1.175	1.190		101	100	1.3	30.0	
Tert-amyl methyl ether	Lin		0.6404		103	100	3.5	30.0	
1,2-Dichloroethane	Ave	0.2398	0.2374		99.0	100	-1.0	30.0	
2,4,4-Trimethyl-1-pentene	Lin1		0.3042		136	100	36.3*	30.0	***
Methylcyclohexane	Ave	0.5730	0.6256		109	100	9.2	30.0	
Trichloroethene	Ave	0.2943	0.3095		105	100	5.2	30.0	
2,4,4-Trimethyl-2-pentene	Lin1		0.2507		130	100	29.7	30.0	
Dibromomethane	Ave	0.1115	0.1095		98.2	100	-1.8	30.0	

** = VJ Qual all samples

*** = J Qual hits only

TC 3/25/10 ✓

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Lab Sample ID: CCVIS 360-48159/2 Calibration Date: 08/25/2009 23:59

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44477.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4041		20.5	20.0	2.7	30.0
Chloromethane	Lin		0.6128	0.1000	20.9	20.0	4.4	30.0
Vinyl chloride	Lin		0.4702		21.5	20.0	7.6	20.0
Bromomethane	Lin		0.3112		21.5	20.0	7.7	30.0
Chloroethane	Lin		0.2614		22.0	20.0	9.8	30.0
Trichlorofluoromethane	Lin		0.4631		20.8	20.0	4.0	30.0
Ethyl ether	Ave	0.1998	0.1846		18.5	20.0	-7.6	30.0
1,1-Dichloroethene	Lin		0.3266		20.5	20.0	2.3	20.0
Carbon disulfide	Ave	1.172	1.100		18.8	20.0	-6.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2105		20.7	20.0	3.3	30.0
Acrolein	Lin1		0.5359		1060	1000	6.5	30.0
Methylene Chloride	Lin		0.3844		23.0	20.0	14.8	30.0
Acetone	Qua		0.0465		178	200	-11.0	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.4929		18.7	20.0	-6.7	30.0
Methyl acetate	Lin	Not a Target Compound			135	200	-32.5*	30.0
Methyl tert-butyl ether	Lin		0.5472		20.0	20.0	0.1	30.0
2-Methyl-2-propanol	Lin1		0.2647		208	200	4.2	30.0
Isopropyl ether	Ave	1.438	1.332		18.5	20.0	-7.4	30.0
1,1-Dichloroethane	Lin		0.5631	0.1000	20.5	20.0	2.5	30.0
Acrylonitrile	Lin2		0.0468		18.2	20.0	-8.9	30.0
Tert-butyl ethyl ether	Lin		0.8672		20.5	20.0	2.6	30.0
Vinyl acetate	Lin1		0.3550		228	200	14.0	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4311		18.8	20.0	-5.9	30.0
2,2-Dichloropropane	Qua		0.3768		18.0	20.0	-10.0	30.0
Cyclohexane	Ave	0.6383	0.5736		18.0	20.0	-10.1	30.0
Chlorobromomethane	Ave	0.1791	0.1635		18.3	20.0	-8.7	30.0
Chloroform	Lin		0.5032		19.5	20.0	-2.4	20.0
Carbon tetrachloride	Ave	0.3593	0.3469		19.3	20.0	-3.5	30.0
Tetrahydrofuran	Lin1		0.0480		198	200	-1.0	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4641		18.8	20.0	-5.9	30.0
2-Butanone (MEK)	Ave	0.0653	0.0634		194	200	-3.0	30.0
1,1-Dichloropropene	Ave	0.3849	0.3803		19.8	20.0	-1.2	30.0
Benzene	Ave	1.175	1.105		18.8	20.0	-5.9	30.0
Tert-amyl methyl ether	Lin		0.6295		20.3	20.0	1.6	30.0
1,2-Dichloroethane	Ave	0.2398	0.2267		18.9	20.0	-5.5	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2391		21.3	20.0	6.6	30.0
Methylcyclohexane	Ave	0.5730	0.5265		18.4	20.0	-8.1	30.0
Trichloroethene	Ave	0.2943	0.2888		19.6	20.0	-1.9	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1988		20.5	20.0	2.7	30.0
Dibromomethane	Ave	0.1115	0.1059		19.0	20.0	-5.0	30.0

WJ 9/1 associated

3/25/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Lab Sample ID: CCVIS 360-48159/2 Calibration Date: 08/25/2009 23:59

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44477.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2066		22.7	20.0	13.6	20.0
Dichlorobromomethane	Ave	0.2830	0.2700		19.1	20.0	-4.6	30.0
Methyl methacrylate	Ave	0.0593	0.0558		18.8	20.0	-5.9	30.0
1,4-Dioxane	Ave	0.0211	0.0232		220	200	10.1	30.0
2-Chloroethyl vinyl ether	Lin1		0.0474		216	200	7.8	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2841		19.2	20.0	-4.2	30.0
Toluene	Ave	0.6775	0.6531		19.3	20.0	-3.6	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1429		214	200	7.0	30.0
Tetrachloroethene	Ave	0.2090	0.2040		19.5	20.0	-2.4	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1990		18.7	20.0	-6.3	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.1019		18.7	20.0	-6.5	30.0
Chlorodibromomethane	Ave	0.1624	0.1574		19.4	20.0	-3.1	30.0
1,3-Dichloropropane	Ave	0.2134	0.2022		18.9	20.0	-5.3	30.0
Ethylene Dibromide	Ave	0.1323	0.1259		19.0	20.0	-4.8	30.0
2-Hexanone	Ave	0.0865	0.0820		190	200	-5.2	30.0
Chlorobenzene	Ave	1.083	1.090	0.3000	20.1	20.0	0.6	30.0
Ethylbenzene	Lin		1.957		21.3	20.0	6.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3793		19.9	20.0	-0.5	30.0
m-Xylene & p-Xylene	Lin1		1.507		43.1	40.0	7.7	30.0
o-Xylene	Ave	1.735	1.719		19.8	20.0	-1.0	30.0
Styrene	Ave	1.258	1.264		20.1	20.0	0.5	30.0
Bromoform	Ave	0.2952	0.2849	0.1000	19.3	20.0	-3.5	20.0
Isopropylbenzene	Ave	2.247	2.324		20.7	20.0	3.4	30.0
Bromobenzene	Ave	0.7726	0.7597		19.7	20.0	-1.7	30.0
N-Propylbenzene	Ave	2.529	2.585		20.4	20.0	2.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5078	0.3000	19.7	20.0	-1.6	30.0
2-Chlorotoluene	Ave	1.717	1.709		19.9	20.0	-0.5	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.920		20.4	20.0	2.2	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0633		18.5	20.0	-7.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0662		18.2	20.0	-8.8	30.0
4-Chlorotoluene	Ave	1.492	1.505		20.2	20.0	0.9	30.0
tert-Butylbenzene	Ave	1.551	1.657		21.4	20.0	6.9	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.933		19.8	20.0	-0.9	30.0
sec-Butylbenzene	Ave	2.541	2.617		20.6	20.0	3.0	30.0
4-Isopropyltoluene	Ave	2.050	2.115		20.6	20.0	3.2	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9545		19.5	20.0	-2.7	30.0
1,4-Dichlorobenzene	Ave	1.821	1.792		19.7	20.0	-1.6	30.0
n-Butylbenzene	Ave	3.711	3.810		20.5	20.0	2.7	30.0
1,2-Dichlorobenzene	Ave	1.574	1.540		19.6	20.0	-2.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0789		19.1	20.0	-4.3	30.0
Hexachlorobutadiene	Ave	0.5157	0.5204		20.2	20.0	0.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Lab Sample ID: CCVIS 360-48159/2 Calibration Date: 08/25/2009 23:59

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44477.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.039		19.3	20.0	-3.4	30.0
Naphthalene	Ave	1.428	1.387		19.4	20.0	-2.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7997		19.8	20.0	-1.0	30.0
Dibromofluoromethane	Ave	0.2595	0.2502		19.3	20.0	-3.6	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8783		19.7	20.0	-1.6	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5021		19.8	20.0	-0.8	30.0

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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4755		24.2	20.0	21.2	30.0
Chloromethane	Lin		0.6337	0.1000	21.7	20.0	8.3	30.0
Vinyl chloride	Lin		0.5083		23.4	20.0	17.2	20.0
Bromomethane	Lin		0.3189		22.1	20.0	10.7	30.0
Chloroethane	Lin		0.2750		23.3	20.0	16.3	30.0
Trichlorofluoromethane	Lin		0.5150		23.3	20.0	16.5	30.0
Ethyl ether	Ave	0.1998	0.1719		17.2	20.0	-14.0	30.0
1,1-Dichloroethene	Lin		0.3611		22.8	20.0	13.9	20.0
Carbon disulfide	Ave	1.172	1.201		20.5	20.0	2.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2408		23.9	20.0	19.3	30.0
Acrolein	Lin1		0.5343		1060	1000	6.1	30.0
Methylene Chloride	Lin		0.4088		24.6	20.0	23.1	30.0
Acetone	Qua		0.0364		130	200	-35.2*	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5120		19.4	20.0	-3.0	30.0
Methyl acetate	Lin		0.0991		139	200	-30.4*	30.0
Methyl tert-butyl ether	Lin		0.5152		18.8	20.0	-6.2	30.0
2-Methyl-2-propanol	Lin1		0.2364		186	200	-7.1	30.0
Isopropyl ether	Ave	1.438	1.327		18.4	20.0	-7.8	30.0
1,1-Dichloroethane	Lin		0.5648	0.1000	20.6	20.0	2.8	30.0
Acrylonitrile	Lin2		0.0457		17.8	20.0	-11.1	30.0
Tert-butyl ethyl ether	Lin		0.8428		19.9	20.0	-0.5	30.0
Vinyl acetate	Lin1		0.3408		219	200	9.5	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4346		19.0	20.0	-5.1	30.0
2,2-Dichloropropane	Qua		0.4508		22.0	20.0	9.8	30.0
Cyclohexane	Ave	0.6383	0.7200		22.6	20.0	12.8	30.0
Chlorobromomethane	Ave	0.1791	0.1542		17.2	20.0	-13.9	30.0
Chloroform	Lin		0.4979		19.3	20.0	-3.5	20.0
Carbon tetrachloride	Ave	0.3593	0.4011		22.3	20.0	11.6	30.0
Tetrahydrofuran	Lin1		0.0434		179	200	-10.6	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.5014		20.3	20.0	1.6	30.0
2-Butanone (MEK)	Ave	0.0653	0.0541		166	200	-17.2	30.0
1,1-Dichloropropene	Ave	0.3849	0.4021		20.9	20.0	4.5	30.0
Benzene	Ave	1.175	1.143		19.5	20.0	-2.7	30.0
Tert-amyl methyl ether	Lin		0.6036		19.4	20.0	-2.8	30.0
1,2-Dichloroethane	Ave	0.2398	0.2175		18.1	20.0	-9.3	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2900		26.0	20.0	29.8	30.0
Methylcyclohexane	Ave	0.5730	0.6582		23.0	20.0	14.9	30.0
Trichloroethene	Ave	0.2943	0.2899		19.7	20.0	-1.5	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.2346		24.3	20.0	21.4	30.0
Dibromomethane	Ave	0.1115	0.0971		17.4	20.0	-12.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2003		22.0	20.0	9.8	20.0
Dichlorobromomethane	Ave	0.2830	0.2588		18.3	20.0	-8.6	30.0
Methyl methacrylate	Ave	0.0593	0.0499		16.8	20.0	-15.8	30.0
1,4-Dioxane	Ave	0.0211	0.0214		203	200	1.5	30.0
2-Chloroethyl vinyl ether	Lin1		0.0409		186	200	-6.9	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2665		18.0	20.0	-10.2	30.0
Toluene	Ave	0.6775	0.6653		19.6	20.0	-1.8	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1253		186	200	-7.0	30.0
Tetrachloroethene	Ave	0.2090	0.2061		19.7	20.0	-1.4	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1800		17.0	20.0	-15.2	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0918		16.9	20.0	-15.7	30.0
Chlorodibromomethane	Ave	0.1624	0.1429		17.6	20.0	-12.0	30.0
1,3-Dichloropropane	Ave	0.2134	0.1800		16.9	20.0	-15.7	30.0
Ethylene Dibromide	Ave	0.1323	0.1103		16.7	20.0	-16.6	30.0
2-Hexanone	Ave	0.0865	0.0668		155	200	-22.7	30.0
Chlorobenzene	Ave	1.083	1.084	0.3000	20.0	20.0	0.1	30.0
Ethylbenzene	Lin		2.128		23.3	20.0	16.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3981		20.9	20.0	4.4	30.0
m-Xylene & p-Xylene	Lin1		1.636		46.8	40.0	17.0	30.0
o-Xylene	Ave	1.735	1.860		21.4	20.0	7.2	30.0
Styrene	Ave	1.258	1.277		20.3	20.0	1.5	30.0
Bromoform	Ave	0.2952	0.2639	0.1000	17.9	20.0	-10.6	20.0
Isopropylbenzene	Ave	2.247	2.540		22.6	20.0	13.1	30.0
Bromobenzene	Ave	0.7726	0.7796		20.2	20.0	0.9	30.0
N-Propylbenzene	Ave	2.529	2.852		22.6	20.0	12.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.4897	0.3000	19.0	20.0	-5.1	30.0
2-Chlorotoluene	Ave	1.717	1.831		21.3	20.0	6.6	30.0
1,3,5-Trimethylbenzene	Ave	1.879	2.070		22.0	20.0	10.2	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0632		18.5	20.0	-7.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0648		17.8	20.0	-10.8	30.0
4-Chlorotoluene	Ave	1.492	1.554		20.8	20.0	4.1	30.0
tert-Butylbenzene	Ave	1.551	1.832		23.6	20.0	18.1	30.0
1,2,4-Trimethylbenzene	Ave	1.951	2.132		21.8	20.0	9.2	30.0
sec-Butylbenzene	Ave	2.541	2.935		23.1	20.0	15.5	30.0
4-Isopropyltoluene	Ave	2.050	2.355		23.0	20.0	14.9	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9928		20.2	20.0	1.2	30.0
1,4-Dichlorobenzene	Ave	1.821	1.802		19.8	20.0	-1.0	30.0
n-Butylbenzene	Ave	3.711	4.252		22.9	20.0	14.6	30.0
1,2-Dichlorobenzene	Ave	1.574	1.566		19.9	20.0	-0.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0736		17.8	20.0	-10.8	30.0
Hexachlorobutadiene	Ave	0.5157	0.5656		21.9	20.0	9.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.057		19.7	20.0	-1.7	30.0
Naphthalene	Ave	1.428	1.340		18.8	20.0	-6.1	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7929		19.6	20.0	-1.8	30.0
Dibromofluoromethane	Ave	0.2595	0.2471		19.0	20.0	-4.8	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8686		19.5	20.0	-2.7	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5114		20.2	20.0	1.1	30.0

3/25/10
TC

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\V44520.D
Lims ID: 360-24223-C-1-A
Client ID: OC-SB-415-0.0/1.0-XXX
Inject. Date: 27-Aug-2009 00:03:30
Dil. Factor: 1.0000
Sample Type: Client Sample
Sample ID: 360-24223-C-1-A
Misc. Info.: 360-0000979-019
Operator: CR
Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000
ALS Bottle#: 19
Lims Batch ID: 48231
Lims Sample ID: 19
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\WES1SOIL.m
Last Update: 27-Aug-2009 08:58:54
Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc
Date: 27-Aug-2009 09:19:48

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.644				1
2 Chloromethane	50		1.825				79
3 Vinyl chloride	62		1.924				1
4 Bromomethane	94		2.280				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.554				1
7 Ethyl ether	59		2.880				1
8 1,1-Dichloroethene	96		3.076				1
10 Carbon disulfide	76		3.086				479
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.138				1
14 Methylene Chloride	84	3.643	3.644	-0.001	20514	0.1530	
15 Acetone	43		3.696				7
16 trans-1,2-Dichloroethene	61		3.789				1
17 Methyl acetate	43		3.815				1
19 Methyl tert-butyl ether	73		3.898				1
21 Isopropyl ether	45		4.244				1
22 1,1-Dichloroethane	63		4.358				1
24 Tert-butyl ethyl ether	59		4.569				1
26 cis-1,2-Dichloroethene	61		4.828				1
27 2,2-Dichloropropane	77		4.926				1
28 Cyclohexane	56		4.998				1
29 Chlorobromomethane	130		5.004				1
30 Chloroform	83		5.066				1
32 Carbon tetrachloride	117		5.179				1
33 Tetrahydrofuran	42		5.200				
$ 35 Dibromofluoromethane	113	5.220	5.221	-0.001	115913	21.2	
36 1,1,1-Trichloroethane	97		5.246				1
37 2-Butanone (MEK)	43		5.339				1
38 1,1-Dichloropropene	75		5.345				1
40 Benzene	78		5.562				79
41 Tert-amyl methyl ether	73		5.655				1

DL Check

$$\frac{.5\,mg/L \times 25\,ml\,s \times 5\,ml\,s}{5\,ml\,s \times 4.74\,g \times .951} = 2.773$$ OK

Surrogate check

$$.2595 = \frac{115913\,(20)}{421322\,(X)} = 21.20$$ OK
106%

Report Date: 26-Aug-2009 09:59:29 Chrom Revision: 1.0.2009.729

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44491.D
Lims ID: 360-24223-D-3-A Client ID: OC-SB-415-5.0/7.0-XXX
Inject. Date: 26-Aug-2009 05:38:30 Dil. Factor: 1.0000
Sample Type: Client Sample
Sample ID: 360-24223-D-3-A
Misc. Info.: 360-0000960-016
Operator: CR Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000 ALS Bottle#: 38
Lims Batch ID: 48159 Lims Sample ID: 16
Detector: MS SCAN

No hits

Method: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m
Last Update: 26-Aug-2009 09:38:14 Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc Date: 26-Aug-2009 09:59:28

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.639				1
2 Chloromethane	50		1.820				1
3 Vinyl chloride	62		1.918				1
4 Bromomethane	94		2.275				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.874				1
8 1,1-Dichloroethene	96		3.065				1
10 Carbon disulfide	76		3.081				479
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.143				1
14 Methylene Chloride	84	3.634	3.634	0.000	20879	0.3705	
15 Acetone	43		3.691				1
16 trans-1,2-Dichloroethene	61		3.784				1
17 Methyl acetate	43		3.809				1
19 Methyl tert-butyl ether	73		3.892				1
21 Isopropyl ether	45		4.238				1
22 1,1-Dichloroethane	63		4.347				1
24 Tert-butyl ethyl ether	59		4.559				1
26 cis-1,2-Dichloroethene	61		4.817				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.988				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
32 Carbon tetrachloride	117		5.169				1
33 Tetrahydrofuran	42		5.189				
$ 35 Dibromofluoromethane	113	5.215	5.215	0.000	104077	19.9	M
36 1,1,1-Trichloroethane	97		5.231				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
40 Benzene	78		5.551				79
41 Tert-amyl methyl ether	73		5.644				1

RL Check

$\frac{.5\,ug/L \times 25\,mls}{5.25_g \times .897} = 2.65$ OK

3/25/10 IC

$.2595 = \frac{104077(20)}{402372(x)} = 19.93$

$\frac{19.93}{20} \cdot 100\%$ OK

Report Date: 27-Aug-2009 09:21:05 Chrom Revision: 1.0.2009.729

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\V44521.D		
Lims ID:	360-24223-C-4-A	Client ID:	OC-SB-419-0.0/1.0-XXX
Inject. Date:	27-Aug-2009 00:28:30	Dil. Factor:	1.0000
Sample Type:	Client Sample		
Sample ID:	360-24223-C-4-A		
Misc. Info.:	360-0000979-020		
Operator:	CR	Instrument ID:	HP #1 GC/MS
Vol. Injected:	1.0000	ALS Bottle#:	20
Lims Batch ID:	48231	Lims Sample ID:	20
Detector:	MS SCAN		
Method:	\\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\WES1SOIL.m		
Last Update:	27-Aug-2009 08:58:54	Calib Date:	24-Aug-2009 20:37:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D		
Limit Group:	VMS - 8260 VOA Calibration		
Integrator:	RTE		
Process Host:	WESVOAJESS		
Reviewed By:	rouleauc	Date:	27-Aug-2009 09:21:04

No hits

RL check

0.5 ug/L x 25 / 5.06 x .974 = 2.53 ug/Kg ok

3/25/10 TC

.2595 = 113134(20) / 440646(X) = 179.78 ug/Kg / 20

99% Rec

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.644				1
2 Chloromethane	50		1.825				1
3 Vinyl chloride	62		1.924				1
4 Bromomethane	94		2.280				1
5 Chloroethane	64		2.409				1
6 Trichlorofluoromethane	101		2.554				1
7 Ethyl ether	59		2.880				1
8 1,1-Dichloroethene	96		3.076				1
10 Carbon disulfide	76		3.086				1
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.138				1
14 Methylene Chloride	84	3.645	3.644	0.001	22743	0.3517	
15 Acetone	43		3.696				7
16 trans-1,2-Dichloroethene	61		3.789				1
17 Methyl acetate	43		3.815				1
19 Methyl tert-butyl ether	73		3.898				1
21 Isopropyl ether	45		4.244				1
22 1,1-Dichloroethane	63		4.358				1
24 Tert-butyl ethyl ether	59		4.569				1
26 cis-1,2-Dichloroethene	61		4.828				1
27 2,2-Dichloropropane	77		4.926				1
28 Cyclohexane	56		4.998				1
29 Chlorobromomethane	130		5.004				1
30 Chloroform	83		5.066				1
32 Carbon tetrachloride	117		5.179				1
33 Tetrahydrofuran	42		5.200				
$ 35 Dibromofluoromethane	113	5.221	5.221	0.000	113134	19.8	
36 1,1,1-Trichloroethane	97		5.246				1
37 2-Butanone (MEK)	43		5.339				1
38 1,1-Dichloropropene	75		5.345				1
40 Benzene	78		5.562				1
41 Tert-amyl methyl ether	73		5.655				1

09/18/2009

Tune

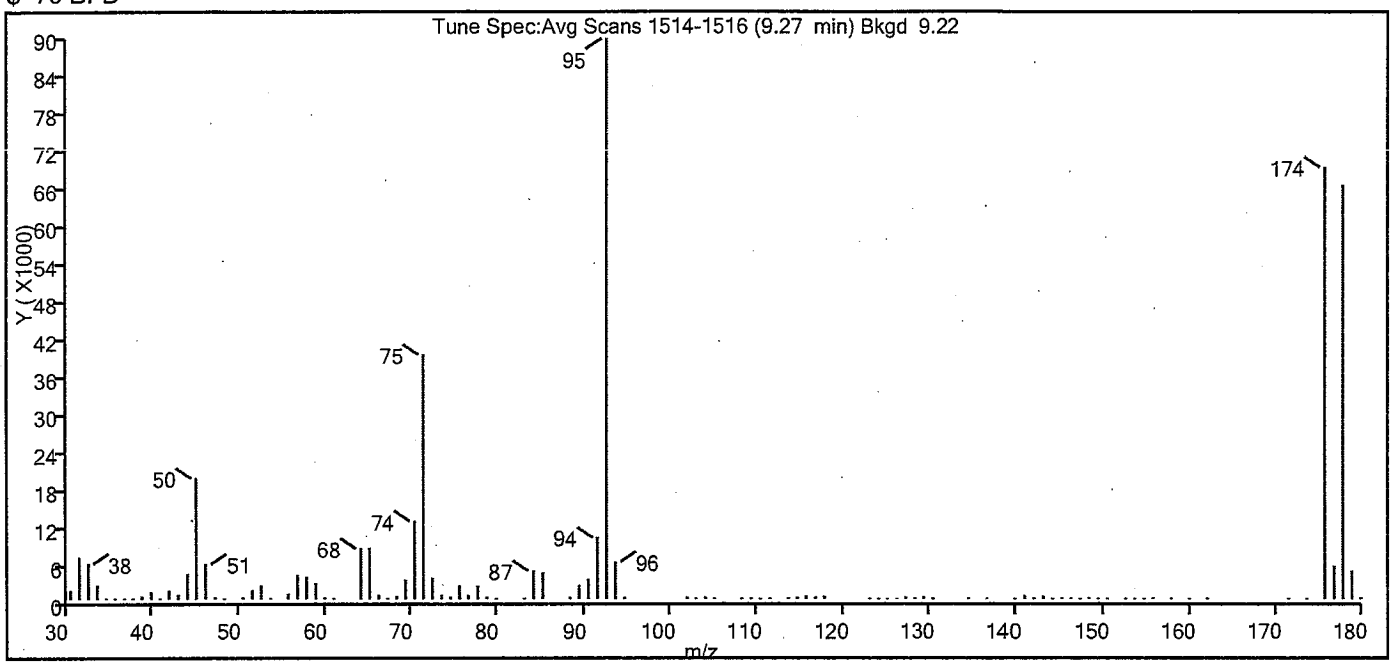
Report Date: 26-Aug-2009 09:21:53

Chrom Revision: 1.0.2009.729

MS Tune Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44476.D		
Inj Date:	25-Aug-2009 23:35:30	Limit Group:	VMS - 8260 VOA Calibration
Lims Batch ID:	48159	Lims Sample ID:	1
Client ID:		Instrument:	HP #1 GC/MS
Sample Info:	BFB		
Sample Amount:	1.00	Operator:	CR

$ 79 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.54
75	30.00 - 60.00% of mass 95	43.57
96	5.00 - 9.00% of mass 95	6.58
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.02
175	5.00 - 9.00% of mass 174	5.83 (7.56)
176	95.00 - 101.00% of mass 174	73.81 (95.83)
177	5.00 - 9.00% of mass 176	4.88 (6.62)

Tier 3 check

TC 3/25/10

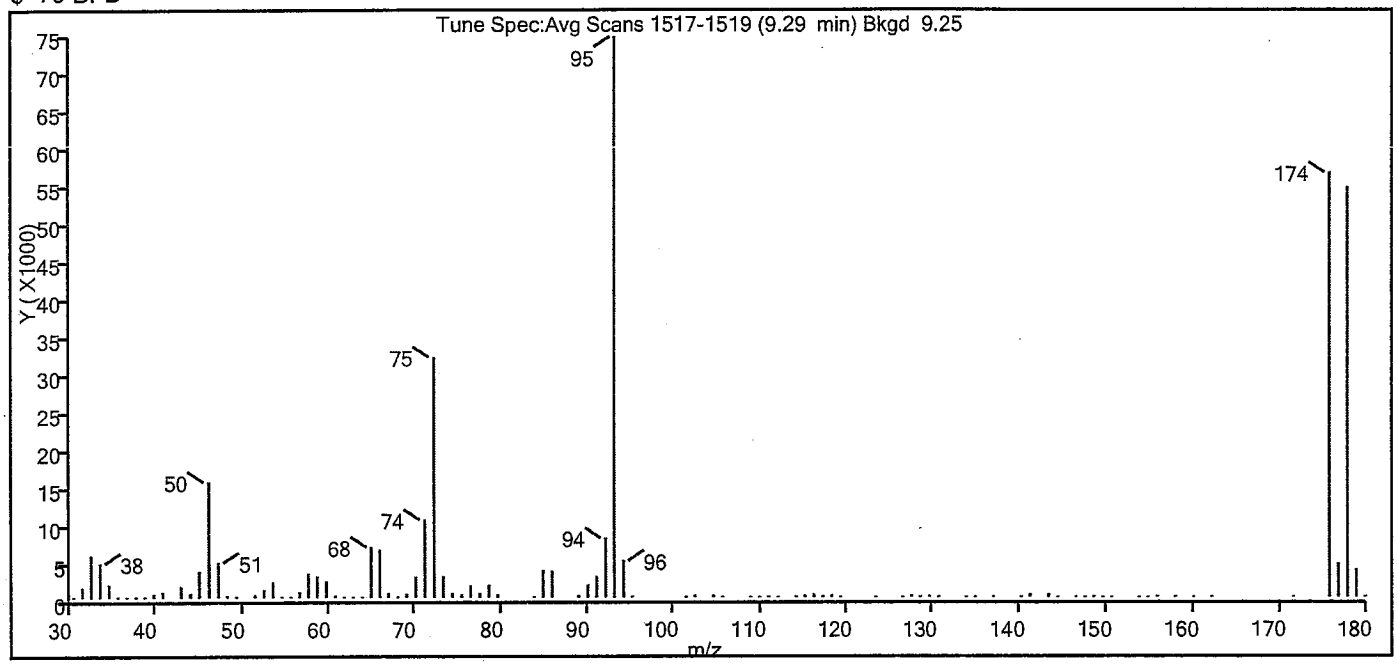
$\frac{175}{174} = \frac{5186}{68508} = 0.075632$ ✓

$\frac{176}{174} = \frac{65712}{68508} = 0.95834$ ✓

MS Tune Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090826-1.b\V44502.D		
Inj Date:	26-Aug-2009 16:39:30	Limit Group:	VMS - 8260 VOA Calibration
Lims Batch ID:	48231	Lims Sample ID:	1
Client ID:		Instrument:	HP #1 GC/MS
Sample Info:	BFB		
Sample Amount:	1.00	Operator:	CR

$ 79 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.58
75	30.00 - 60.00% of mass 95	42.82
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.71
175	5.00 - 9.00% of mass 174	5.91 (7.81)
176	95.00 - 101.00% of mass 174	73.16 (96.63)
177	5.00 - 9.00% of mass 176	4.89 (6.68)

3/25/10
TC

Tier 3 check

$\frac{75}{95} = \frac{31808}{74280} = 0.42821$

$\frac{50}{95} = \frac{15287}{74280} = 20.58$

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Client Sample ID: OC-SB-426-5.0/7.0-XXX MS Lab Sample ID: 360-24223-9 MS

Matrix: Solid Lab File ID: V44480.D

Analysis Method: 8260B Date Collected: 08/19/2009 14:25

Sample wt/vol: 5.74(g) Date Analyzed: 08/26/2009 01:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: 14.2 Level: (low/med) Low

Analysis Batch No.: 48159 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	99.2		2.5	1.0
71-55-6	1,1,1-Trichloroethane	91.7		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	92.9		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	92.5		13	1.0
79-00-5	1,1,2-Trichloroethane	86.1		2.5	1.0
75-34-3	1,1-Dichloroethane	101		2.5	1.0
75-35-4	1,1-Dichloroethene	95.3		2.5	1.0
563-58-6	1,1-Dichloropropene	90.8		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	85.8		2.5	1.0
96-18-4	1,2,3-Trichloropropane	100		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	86.6		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	92.2		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	92.2		25	1.8
106-93-4	Ethylene Dibromide	87.4		2.5	1.0
95-50-1	1,2-Dichlorobenzene	92.5		2.5	1.0
107-06-2	1,2-Dichloroethane	90.0		2.5	1.0
67-64-1	Acetone	654		250	18
78-87-5	1,2-Dichloropropane	112		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	95.3		2.5	1.0
541-73-1	1,3-Dichlorobenzene	90.1		2.5	1.0
142-28-9	1,3-Dichloropropane	87.5		2.5	1.0
106-46-7	1,4-Dichlorobenzene	92.7		2.5	1.0
123-91-1	1,4-Dioxane	1130		250	33
594-20-7	2,2-Dichloropropane	86.6		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	102		5.1	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	94.0		5.1	1.0
95-49-8	2-Chlorotoluene	93.3		2.5	1.0
591-78-6	2-Hexanone	747		25	5.2
106-43-4	4-Chlorotoluene	93.2		2.5	1.0
71-43-2	Benzene	91.3		2.5	1.0
108-86-1	Bromobenzene	91.6		2.5	1.0
74-97-5	Chlorobromomethane	89.1		2.5	1.0
75-27-4	Dichlorobromomethane	92.0		2.5	1.0
75-25-2	Bromoform	92.9		2.5	1.0
74-83-9	Bromomethane	104		5.1	1.0

→ See cal check for Tier3
TC 3/25/10

Tier 3 check for MS/MSD

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Client Sample ID: OC-SB-426-5.0/7.0-XXX MS Lab Sample ID: 360-24223-9 MS

Matrix: Solid Lab File ID: V44480.D

Analysis Method: 8260B Date Collected: 08/19/2009 14:25

Sample wt/vol: 5.74(g) Date Analyzed: 08/26/2009 01:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: 14.2 Level: (low/med) Low

Analysis Batch No.: 48159 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	90.7		2.5	1.0
75-15-0	Carbon disulfide	86.8		2.5	1.0
56-23-5	Carbon tetrachloride	92.5		2.5	1.0
108-90-7	Chlorobenzene	95.3		2.5	1.0
75-00-3	Chloroethane	97.8		5.1	1.0
67-66-3	Chloroform	99.6		2.5	1.0
74-87-3	Chloromethane	90.6		5.1	1.0
156-59-2	cis-1,2-Dichloroethene	94.3		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	88.7		2.5	1.0
110-82-7	Cyclohexane	87.4		25	2.6
124-48-1	Chlorodibromomethane	88.2		2.5	1.0
74-95-3	Dibromomethane	88.4		2.5	1.0
75-71-8	Dichlorodifluoromethane	58.1		5.1	1.0
60-29-7	Ethyl ether	90.7		2.5	1.0
108-20-3	Isopropyl ether	90.0		2.5	1.0
637-92-3	Tert-butyl ethyl ether	99.9		2.5	2.5
100-41-4	Ethylbenzene	100		2.5	1.0
87-68-3	Hexachlorobutadiene	75.9		2.5	1.0
98-82-8	Isopropylbenzene	97.2		2.5	1.0
79-20-9	Methyl acetate	909		51	17
78-93-3	2-Butanone (MEK)	798		25	6.8
108-10-1	4-Methyl-2-pentanone (MIBK)	880		25	5.2
1634-04-4	Methyl tert-butyl ether	94.7		2.5	1.0
108-87-2	Methylcyclohexane	85.7		2.5	1.0
75-09-2	Methylene Chloride	109		10	4.9
136777-61-2	m-Xylene & p-Xylene	205		5.1	1.0
91-20-3	Naphthalene	85.6		25	1.0
103-65-1	N-Propylbenzene	95.6		2.5	1.0
95-47-6	o-Xylene	95.6		2.5	1.0
99-87-6	4-Isopropyltoluene	96.3		2.5	1.0
135-98-8	sec-Butylbenzene	93.1		2.5	1.0
100-42-5	Styrene	92.7		2.5	1.0
994-05-8	Tert-amyl methyl ether	97.8		2.5	1.0
98-06-6	tert-Butylbenzene	99.4		2.5	1.0
127-18-4	Tetrachloroethene	90.8		2.5	1.0
109-99-9	Tetrahydrofuran	1000		25	5.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24223-1

SDG No.: OCRI-03

Client Sample ID: OC-SB-426-5.0/7.0-XXX MS | Lab Sample ID: 360-24223-9 MS

Matrix: Solid | Lab File ID: V44480.D

Analysis Method: 8260B | Date Collected: 08/19/2009 14:25

Sample wt/vol: 5.74(g) | Date Analyzed: 08/26/2009 01:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: 14.2 | Level: (low/med) Low

Analysis Batch No.: 48159 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	90.9		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	86.4		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	88.5		2.5	1.0
79-01-6	Trichloroethene	91.4		2.5	1.0
75-69-4	Trichlorofluoromethane	89.6		5.1	1.0
75-01-4	Vinyl chloride	92.0		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	96	70-130	
1868-53-7	Dibromofluoromethane	97	70-130	
2037-26-5	Toluene-d8 (Surr)	98	70-130	

Report Date: 26-Aug-2009 09:35:47 Chrom Revision: 1.0.2009.729

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44480.D
Lims ID: 360-24223-D-9-A MS Client ID: OC-SB-426-5.0/7.0-XMS
Inject. Date: 26-Aug-2009 01:12:30 Dil. Factor: 1.0000
Sample Type: MS, Matrix Spike
Sample ID: 360-24223-D-9-A MS
Misc. Info.: 360-0000960-005
Operator: CR Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000 ALS Bottle#: 27
Lims Batch ID: 48159 Lims Sample ID: 5
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m
Last Update: 26-Aug-2009 09:35:47 Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc Date: 26-Aug-2009 09:35:47

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85	1.643	1.639	0.004	104575	11.4	M
2 Chloromethane	50	1.824	1.820	0.004	243159	17.9	
3 Vinyl chloride	62	1.922	1.918	0.004	184629	18.1	
4 Bromomethane	94	2.274	2.275	-0.001	136360	20.5	
5 Chloroethane	64	2.408	2.409	-0.001	106777	19.3	
6 Trichlorofluoromethane	101	2.553	2.548	0.005	181899	17.7	
7 Ethyl ether	59	2.873	2.874	-0.001	81704	17.9	
8 1,1-Dichloroethene	96	3.069	3.065	0.004	137982	18.8	
10 Carbon disulfide	76	3.080	3.081	-0.001	458941	17.1	
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.137	3.143	-0.006	85718	18.2	
14 Methylene Chloride	84	3.633	3.634	-0.001	166037	21.5	
15 Acetone	43	3.690	3.691	-0.001	165992	128.8	
16 trans-1,2-Dichloroethene	61	3.783	3.784	-0.001	205725	17.0	
17 Methyl acetate	43	3.808	3.809	-0.001	568727	179.0	M
19 Methyl tert-butyl ether	73	3.891	3.892	-0.001	234569	18.7	
21 Isopropyl ether	45	4.237	4.238	-0.001	583386	17.7	
22 1,1-Dichloroethane	63	4.351	4.347	0.004	249621	19.8	
24 Tert-butyl ethyl ether	59	4.558	4.559	-0.001	381754	19.7	
26 cis-1,2-Dichloroethene	61	4.821	4.817	0.004	194768	18.6	
27 2,2-Dichloropropane	77	4.920	4.915	0.005	164415	17.1	
28 Cyclohexane	56	4.987	4.988	-0.001	251630	17.2	
29 Chlorobromomethane	130	4.992	4.993	-0.001	71899	17.5	
30 Chloroform	83	5.054	5.055	-0.001	231578	19.6	
32 Carbon tetrachloride	117	5.173	5.169	0.004	149857	18.2	
33 Tetrahydrofuran	42	5.188	5.189	-0.001	218767	197.1	
$ 35 Dibromofluoromethane	113	5.214	5.215	-0.001	115251	19.4	
36 1,1,1-Trichloroethane	97	5.235	5.231	0.004	204039	18.1	
37 2-Butanone (MEK)	43	5.328	5.329	-0.001	235074	157.2	
38 1,1-Dichloropropene	75	5.338	5.334	0.004	157572	17.9	
40 Benzene	78	5.550	5.551	-0.001	483880	18.0	
41 Tert-amyl methyl ether	73	5.643	5.644	-0.001	273858	19.3	

Benzene check

$1.175 = \frac{483880 \times 20}{457071(X)}$

$\frac{17.996 \times 25\text{mls}}{5.74 \times .858}$

09/18/2009

91.35 ug/kg

Report Date: 26-Aug-2009 09:35:47 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44480.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 42 1,2-Dichloroethane-d4 ISTD	102	5.669	5.665	0.004	21279	20.0	
43 1,2-Dichloroethane	62	5.721	5.722	-0.001	97276	17.7	
* 44 Fluorobenzene	96	5.896	5.892	0.004	457671	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.917	5.918	-0.001	103617	20.2	
47 Methylcyclohexane	83	6.020	6.016	0.004	221336	16.9	
48 Trichloroethene	95	6.031	6.026	0.005	121308	18.0	
49 2,4,4-Trimethyl-2-pentene	112	6.056	6.052	0.004	82087	18.5	
50 Dibromomethane	93	6.372	6.368	0.004	44431	17.4	
51 1,2-Dichloropropane	63	6.454	6.455	-0.001	92117	22.1	
52 Dichlorobromomethane	83	6.496	6.497	-0.001	117439	18.1	
54 1,4-Dioxane	88	6.666	6.667	-0.001	5000	223.1	
57 cis-1,3-Dichloropropene	75	6.997	6.993	0.004	118664	17.5	
$ 58 Toluene-d8 (Surr)	98	7.142	7.143	-0.001	399377	19.6	
59 Toluene	92	7.183	7.179	0.004	277703	17.9	
60 Tetrachloroethene	164	7.472	7.473	-0.001	85586	17.9	
61 4-Methyl-2-pentanone (MIBK)	43	7.472	7.473	-0.001	537160	173.3	
62 trans-1,3-Dichloropropene	75	7.498	7.499	-0.001	84672	17.4	
64 1,1,2-Trichloroethane	83	7.628	7.623	0.005	42267	17.0	
65 Chlorodibromomethane	129	7.762	7.763	-0.001	64609	17.4	
66 1,3-Dichloropropane	76	7.839	7.835	0.004	84203	17.2	
67 Ethylene Dibromide	107	7.953	7.954	-0.001	52145	17.2	
69 2-Hexanone	43	8.113	8.114	-0.001	291145	147.1	
* 70 Chlorobenzene-d5	117	8.336	8.337	0.000	287592	20.0	
71 Chlorobenzene	112	8.351	8.352	-0.001	292209	18.8	
72 Ethylbenzene	91	8.367	8.368	-0.001	523774	19.8	
73 1,1,1,2-Tetrachloroethane	131	8.398	8.399	0.000	107095	19.5	
74 m-Xylene & p-Xylene	91	8.475	8.476	-0.001	814953	40.5	
75 o-Xylene	91	8.811	8.807	0.004	469908	18.8	
76 Styrene	104	8.852	8.848	0.004	330532	18.3	
77 Bromoform	173	8.873	8.874	-0.001	40108	18.3	
78 Isopropylbenzene	105	9.049	9.050	-0.001	618735	19.2	
$ 80 4-Bromofluorobenzene	95	9.271	9.272	-0.001	140271	19.3	
81 Bromobenzene	77	9.359	9.360	-0.001	200594	18.1	
82 N-Propylbenzene	91	9.369	9.370	-0.001	684883	18.8	
83 1,1,2,2-Tetrachloroethane	83	9.421	9.422	-0.001	70109	18.3	
84 2-Chlorotoluene	91	9.498	9.499	-0.001	453719	18.4	
85 1,3,5-Trimethylbenzene	105	9.519	9.520	-0.001	507241	18.8	
86 1,2,3-Trichloropropane	110	9.534	9.535	-0.001	19384	19.7	
88 4-Chlorotoluene	91	9.628	9.628	0.000	393816	18.4	
89 tert-Butylbenzene	119	9.772	9.773	-0.001	437020	19.6	
90 1,2,4-Trimethylbenzene	105	9.824	9.825	-0.001	509764	18.2	
91 sec-Butylbenzene	105	9.912	9.908	0.004	670301	18.3	
92 4-Isopropyltoluene	119	10.020	10.021	-0.001	559235	19.0	
93 1,3-Dichlorobenzene	146	10.093	10.088	0.005	250481	17.8	
* 94 1,4-Dichlorobenzene-d4	152	10.149	10.150	-0.001	148484	20.0	
95 1,4-Dichlorobenzene	146	10.160	10.161	-0.001	246908	18.3	
96 n-Butylbenzene	91	10.367	10.367	-0.001	492260	17.9	
97 1,2-Dichlorobenzene	146	10.522	10.517	0.005	213013	18.2	
98 1,2-Dibromo-3-Chloropropane	157	11.302	11.298	0.004	11135	18.2	
100 Hexachlorobutadiene	225	12.051	12.052	-0.001	57273	15.0	
101 1,2,4-Trichlorobenzene	180	12.103	12.104	-0.001	136167	17.1	
102 Naphthalene	128	12.573	12.569	0.004	178672	16.9	

Chlorobenzene

1.0828 = 292209 (20) / 287592 (X)

18.760 ug/L (JC)

18.76 ug/L x 25 mls = 5.74 g x .858

95.26 ug/kg

Report Date: 26-Aug-2009 09:35:47 Chrom Revision: 1.0.2009.729
Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44480.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
103 1,2,3-Trichlorobenzene	180	12.852	12.848	0.004	101409	16.9	

QC Flag Legend

Review Flags
M - Manually Integrated

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24223-1

SDG No.: OCRI-03

Client Sample ID: OC-SB-426-5.0/7.0-XXX MSD | Lab Sample ID: 360-24223-9 MSD

Matrix: Solid | Lab File ID: V44481.D

Analysis Method: 8260B | Date Collected: 08/19/2009 14:25

Sample wt/vol: 5.90(g) | Date Analyzed: 08/26/2009 01:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: 14.2 | Level: (low/med) Low

Analysis Batch No.: 48159 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	95.1		2.5	0.99
71-55-6	1,1,1-Trichloroethane	88.8		2.5	0.99
79-34-5	1,1,2,2-Tetrachloroethane	91.5		2.5	0.99
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	86.9		12	0.99
79-00-5	1,1,2-Trichloroethane	82.2		2.5	0.99
75-34-3	1,1-Dichloroethane	97.5		2.5	0.99
75-35-4	1,1-Dichloroethene	90.1		2.5	0.99
563-58-6	1,1-Dichloropropene	88.8		2.5	0.99
87-61-6	1,2,3-Trichlorobenzene	79.4		2.5	0.99
96-18-4	1,2,3-Trichloropropane	96.9		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	80.8		2.5	0.99
95-63-6	1,2,4-Trimethylbenzene	90.4		2.5	0.99
96-12-8	1,2-Dibromo-3-Chloropropane	87.5		25	1.8
106-93-4	Ethylene Dibromide	81.3		2.5	0.99
95-50-1	1,2-Dichlorobenzene	89.4		2.5	0.99
107-06-2	1,2-Dichloroethane	88.8		2.5	0.99
67-64-1	Acetone	581		250	18
78-87-5	1,2-Dichloropropane	106		2.5	0.99
108-67-8	1,3,5-Trimethylbenzene	94.3		2.5	0.99
541-73-1	1,3-Dichlorobenzene	87.8		2.5	0.99
142-28-9	1,3-Dichloropropane	83.3		2.5	0.99
106-46-7	1,4-Dichlorobenzene	90.2		2.5	0.99
123-91-1	1,4-Dioxane	998		250	33
594-20-7	2,2-Dichloropropane	85.6		2.5	0.99
107-39-1	2,4,4-Trimethyl-1-pentene	91.9		4.9	0.99
107-40-4	2,4,4-Trimethyl-2-pentene	87.9		4.9	0.99
95-49-8	2-Chlorotoluene	92.4		2.5	0.99
591-78-6	2-Hexanone	721		25	5.1
106-43-4	4-Chlorotoluene	92.8		2.5	0.99
71-43-2	Benzene	88.2		2.5	0.99
108-86-1	Bromobenzene	91.6		2.5	0.99
74-97-5	Chlorobromomethane	84.6		2.5	0.99
75-27-4	Dichlorobromomethane	89.3		2.5	0.99
75-25-2	Bromoform	89.4		2.5	0.99
74-83-9	Bromomethane	106		4.9	0.99

3/25/10
TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Client Sample ID: OC-SB-426-5.0/7.0-XXX MSD Lab Sample ID: 360-24223-9 MSD

Matrix: Solid Lab File ID: V44481.D

Analysis Method: 8260B Date Collected: 08/19/2009 14:25

Sample wt/vol: 5.90(g) Date Analyzed: 08/26/2009 01:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: 14.2 Level: (low/med) Low

Analysis Batch No.: 48159 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	87.8		2.5	0.99
75-15-0	Carbon disulfide	82.8		2.5	0.99
56-23-5	Carbon tetrachloride	87.4		2.5	0.99
108-90-7	Chlorobenzene	92.3		2.5	0.99
75-00-3	Chloroethane	98.4		4.9	0.99
67-66-3	Chloroform	95.8		2.5	0.99
74-87-3	Chloromethane	89.4		4.9	0.99
156-59-2	cis-1,2-Dichloroethene	91.1		2.5	0.99
10061-01-5	cis-1,3-Dichloropropene	84.1		2.5	0.99
110-82-7	Cyclohexane	81.7		25	2.5
124-48-1	Chlorodibromomethane	81.3		2.5	0.99
74-95-3	Dibromomethane	84.5		2.5	0.99
75-71-8	Dichlorodifluoromethane	54.1		4.9	0.99
60-29-7	Ethyl ether	85.8		2.5	0.99
108-20-3	Isopropyl ether	87.8		2.5	0.99
637-92-3	Tert-butyl ethyl ether	96.6		2.5	2.5
100-41-4	Ethylbenzene	98.1		2.5	0.99
87-68-3	Hexachlorobutadiene	70.0		2.5	0.99
98-82-8	Isopropylbenzene	95.6		2.5	0.99
79-20-9	Methyl acetate	842		49	16
78-93-3	2-Butanone (MEK)	783		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	846		25	5.1
1634-04-4	Methyl tert-butyl ether	90.4		2.5	0.99
108-87-2	Methylcyclohexane	78.9		2.5	0.99
75-09-2	Methylene Chloride	107		9.9	4.8
136777-61-2	m-Xylene & p-Xylene	200		4.9	0.99
91-20-3	Naphthalene	79.3		25	0.99
103-65-1	N-Propylbenzene	94.1		2.5	0.99
95-47-6	o-Xylene	93.5		2.5	0.99
99-87-6	4-Isopropyltoluene	94.2		2.5	0.99
135-98-8	sec-Butylbenzene	92.0		2.5	0.99
100-42-5	Styrene	92.1		2.5	0.99
994-05-8	Tert-amyl methyl ether	92.9		2.5	0.99
98-06-6	tert-Butylbenzene	99.8		2.5	0.99
127-18-4	Tetrachloroethene	86.3		2.5	0.99
109-99-9	Tetrahydrofuran	950		25	5.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24223-1

SDG No.: OCRI-03

Client Sample ID: OC-SB-426-5.0/7.0-XXX MSD | Lab Sample ID: 360-24223-9 MSD

Matrix: Solid | Lab File ID: V44481.D

Analysis Method: 8260B | Date Collected: 08/19/2009 14:25

Sample wt/vol: 5.90(g) | Date Analyzed: 08/26/2009 01:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: 14.2 | Level: (low/med) Low

Analysis Batch No.: 48159 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	86.9		2.5	0.99
156-60-5	trans-1,2-Dichloroethene	83.3		2.5	0.99
10061-02-6	trans-1,3-Dichloropropene	81.1		2.5	0.99
79-01-6	Trichloroethene	89.1		2.5	0.99
75-69-4	Trichlorofluoromethane	86.3		4.9	0.99
75-01-4	Vinyl chloride	89.1		2.5	0.99

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	99	70-130	
1868-53-7	Dibromofluoromethane	97	70-130	
2037-26-5	Toluene-d8 (Surr)	96	70-130	

3/25/10
TC

Report Date: 26-Aug-2009 09:38:14 Chrom Revision: 1.0.2009.729

MSD

TestAmerica Laboratories
Target Compound Quantitation Report

Tier 3 check

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44481.D		
Lims ID:	360-24223-D-9-B MSD	Client ID:	OC-SB-426-5.0/7.0-MSD
Inject. Date:	26-Aug-2009 01:36:30	Dil. Factor:	1.0000
Sample Type:	MSD, Matrix Spike Duplicate		
Sample ID:	360-24223-D-9-B MSD		
Misc. Info.:	360-0000960-006		
Operator:	CR	Instrument ID:	HP #1 GC/MS
Vol. Injected:	1.0000	ALS Bottle#:	28
Lims Batch ID:	48159	Lims Sample ID:	6
Detector:	MS SCAN		
Method:	\\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\WES1SOIL.m		
Last Update:	26-Aug-2009 09:38:14	Calib Date:	24-Aug-2009 20:37:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D		
Limit Group:	VMS - 8260 VOA Calibration		
Integrator:	RTE		
Process Host:	WESVOAJESS		
Reviewed By:	rouleauc	Date:	26-Aug-2009 09:38:14

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85	1.644	1.639	0.005	100520	11.0	M
2 Chloromethane	50	1.825	1.820	0.005	246651	18.1	
3 Vinyl chloride	62	1.923	1.918	0.005	184049	18.0	
4 Bromomethane	94	2.274	2.275	-0.001	142327	21.5	
5 Chloroethane	64	2.409	2.409	0.000	110030	19.9	
6 Trichlorofluoromethane	101	2.559	2.548	0.011	180568	17.5	
7 Ethyl ether	59	2.874	2.874	0.000	79606	17.4	
8 1,1-Dichloroethene	96	3.070	3.065	0.005	134576	18.2	
10 Carbon disulfide	76	3.086	3.081	0.005	450192	16.8	
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.137	3.143	-0.006	83182	17.6	
14 Methylene Chloride	84	3.639	3.634	0.005	166908	21.6	
15 Acetone	43	3.690	3.691	-0.001	155215	117.6	
16 trans-1,2-Dichloroethene	61	3.789	3.784	0.005	204229	16.9	
17 Methyl acetate	43	3.809	3.809	0.000	544968	170.5	M
19 Methyl tert-butyl ether	73	3.892	3.892	0.000	230864	18.3	
21 Isopropyl ether	45	4.238	4.238	0.000	585995	17.8	
22 1,1-Dichloroethane	63	4.352	4.347	0.005	249039	19.7	
24 Tert-butyl ethyl ether	59	4.564	4.559	0.005	380226	19.6	
26 cis-1,2-Dichloroethene	61	4.822	4.817	0.005	193606	18.4	
27 2,2-Dichloropropane	77	4.920	4.915	0.005	166930	17.3	
28 Cyclohexane	56	4.987	4.988	-0.001	242033	16.5	
29 Chlorobromomethane	130	4.993	4.993	0.000	70321	17.1	
30 Chloroform	83	5.055	5.055	0.000	229328	19.4	
32 Carbon tetrachloride	117	5.174	5.169	0.005	145775	17.7	
33 Tetrahydrofuran	42	5.194	5.189	0.005	214018	192.4	
$ 35 Dibromofluoromethane	113	5.215	5.215	0.000	115293	19.4	
36 1,1,1-Trichloroethane	97	5.236	5.231	0.005	203369	18.0	
37 2-Butanone (MEK)	43	5.329	5.329	0.000	237486	158.6	
38 1,1-Dichloropropene	75	5.339	5.334	0.005	158668	18.0	
40 Benzene	78	5.551	5.551	0.000	481153	17.9	
41 Tert-amyl methyl ether	73	5.644	5.644	0.000	268203	18.8	

Benzene

$1.175 = \frac{481153\ (20)}{458375\ (X)}$

$\frac{17.86 \times 25}{5.90 \times .858} = 88.20$ ug/kg

09/18/2009

5/25/10 TC

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 42 1,2-Dichloroethane-d4 ISTD	102	5.670	5.665	0.005	21410	20.0	
43 1,2-Dichloroethane	62	5.721	5.722	-0.001	98795	18.0	
* 44 Fluorobenzene	96	5.897	5.892	0.005	458375	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.918	5.918	0.000	95928	18.6	
47 Methylcyclohexane	83	6.021	6.016	0.005	209804	16.0	
48 Trichloroethene	95	6.026	6.026	0.000	121645	18.0	
49 2,4,4-Trimethyl-2-pentene	112	6.057	6.052	0.005	78974	17.8	
50 Dibromomethane	93	6.372	6.368	0.004	43734	17.1	
51 1,2-Dichloropropane	63	6.455	6.455	0.000	89798	21.4	
52 Dichlorobromomethane	83	6.497	6.497	-0.001	117368	18.1	
54 1,4-Dioxane	88	6.667	6.667	0.000	4558	202.1	
57 cis-1,3-Dichloropropene	75	6.998	6.993	0.005	115757	17.0	
$ 58 Toluene-d8 (Surr)	98	7.142	7.143	-0.001	392386	19.2	
59 Toluene	92	7.184	7.179	0.005	273307	17.6	
60 Tetrachloroethene	164	7.473	7.473	0.000	83755	17.5	
61 4-Methyl-2-pentanone (MIBK)	43	7.473	7.473	0.000	532034	171.3	
62 trans-1,3-Dichloropropene	75	7.499	7.499	0.000	79926	16.4	
64 1,1,2-Trichloroethane	83	7.623	7.623	0.000	41547	16.6	
65 Chlorodibromomethane	129	7.763	7.763	0.000	61251	16.5	
66 1,3-Dichloropropane	76	7.840	7.835	0.005	82482	16.9	
67 Ethylene Dibromide	107	7.954	7.954	0.000	49933	16.5	
69 2-Hexanone	43	8.114	8.114	0.000	289271	146.0	
* 70 Chlorobenzene-d5	117	8.336	8.337	0.000	282911	20.0	
71 Chlorobenzene	112	8.352	8.352	0.000	286218	18.7	
72 Ethylbenzene	91	8.367	8.368	-0.001	517169	19.9	
73 1,1,1,2-Tetrachloroethane	131	8.398	8.399	0.000	103816	19.3	
74 m-Xylene & p-Xylene	91	8.476	8.476	0.000	802797	40.5	
75 o-Xylene	91	8.807	8.807	0.000	464726	18.9	
76 Styrene	104	8.848	8.848	0.000	331912	18.6	
77 Bromoform	173	8.874	8.874	0.000	38985	18.1	
78 Isopropylbenzene	105	9.049	9.050	-0.001	615307	19.4	
$ 80 4-Bromofluorobenzene	95	9.272	9.272	0.000	141154	19.7	
81 Bromobenzene	77	9.360	9.360	0.000	202811	18.6	
82 N-Propylbenzene	91	9.370	9.370	0.000	681957	19.1	
83 1,1,2,2-Tetrachloroethane	83	9.422	9.422	0.000	69711	18.5	
84 2-Chlorotoluene	91	9.499	9.499	0.000	454466	18.7	
85 1,3,5-Trimethylbenzene	105	9.520	9.520	0.000	507840	19.1	
86 1,2,3-Trichloropropane	110	9.535	9.535	0.000	18984	19.6	
88 4-Chlorotoluene	91	9.628	9.628	0.000	396642	18.8	
89 tert-Butylbenzene	119	9.773	9.773	0.000	443386	20.2	
90 1,2,4-Trimethylbenzene	105	9.825	9.825	0.000	505038	18.3	
91 sec-Butylbenzene	105	9.912	9.908	0.004	669315	18.6	
92 4-Isopropyltoluene	119	10.021	10.021	0.000	553219	19.1	
93 1,3-Dichlorobenzene	146	10.088	10.088	0.000	246803	17.8	
* 94 1,4-Dichlorobenzene-d4	152	10.150	10.150	0.000	145910	20.0	
95 1,4-Dichlorobenzene	146	10.161	10.161	0.000	242575	18.3	
96 n-Butylbenzene	91	10.367	10.367	0.000	481208	17.8	
97 1,2-Dichlorobenzene	146	10.517	10.517	0.000	207957	18.1	
98 1,2-Dibromo-3-Chloropropane	157	11.297	11.298	-0.001	10670	17.7	
100 Hexachlorobutadiene	225	12.057	12.052	0.005	53369	14.2	
101 1,2,4-Trichlorobenzene	180	12.098	12.104	-0.006	128361	16.4	
102 Naphthalene	128	12.569	12.569	0.000	167226	16.1	

Chlorobenzene

1.08 = 280278 (20) / 282911 (X) =

18.73 ug/L x 25 mL / 5.90 x 1858 =

92.52 ug/kg

92% Rec

3/25/10 TC

Report Date: 26-Aug-2009 09:38:14 Chrom Revision: 1.0.2009.729
Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44481.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
103 1,2,3-Trichlorobenzene	180	12.848	12.848	0.000	94788	16.1	

QC Flag Legend

Review Flags
M - Manually Integrated

3/25/10
TC

Report Date: 26-Aug-2009 09:38:14 Chrom Revision: 1.0.2009.729

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090825-2.b\V44481.D

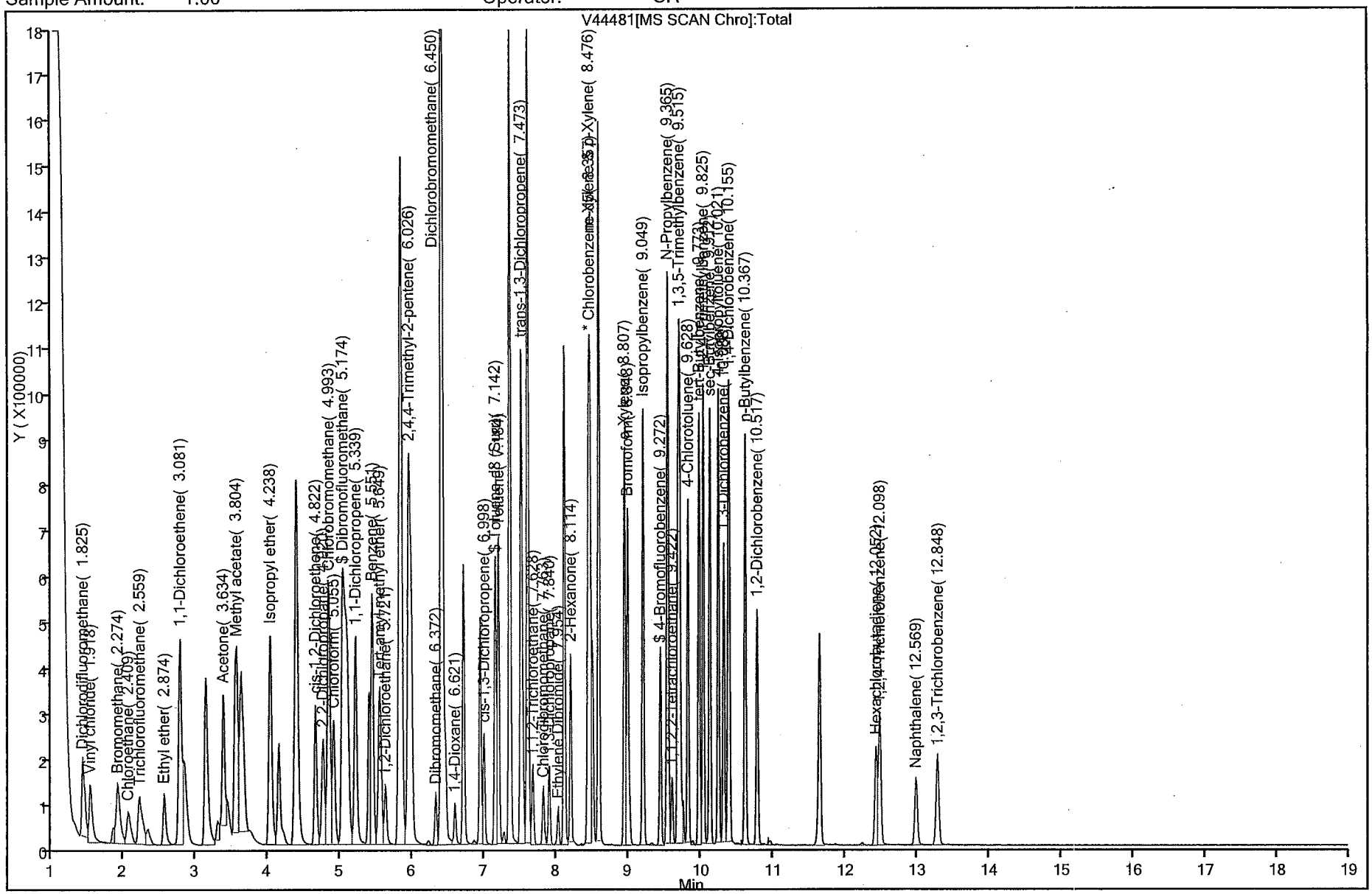
Inj Date: 26-Aug-2009 01:36:30 Limit Group: VMS - 8260 VOA Calibration

Lims Batch ID: 48159 Lims Sample ID: 6

Client ID: OC-SB-426-5.0/7.0-MSD Instrument: HP #1 GC/MS

Sample Info: 360-24223-D-9-B MSD

Sample Amount: 1.00 Operator: CR



GC/MS VOA Worksheet

Batch Number: 360-48150
Method: 5035
Analyst: Rouleau, Catherine M

Date Open: Aug 25 2009 3:46PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample
LCS~360-48150/1		5035, 8260B		5 g	5 g
LCSD~360-48150/2		5035, 8260B		5 g	5 g
MB~360-48150/3		5035, 8260B		5 g	5 g
360-24223-D-9~MS	OC-SB-426-5.0/7.0-XMS	5035, 8260B	T	5.74 g	5 g
360-24223-D-9~MSD	OC-SB-426-5.0/7.0-MSD	5035, 8260B	T	5.90 g	5 g
360-24173-C-11	OC-SB-412-6.0/7.0-XXX		T	5.62 g	5 g
360-24173-C-17	OC-SB-423-5.0/6.0-XXX		T	5.83 g	5 g
360-24194-C-3	OC-SB-421-8.0/10.0-XXX		T	5.81 g	5 g
360-24194-C-6	OC-SB-424-7.0/9.0-XXX		T	6.10 g	5 g
360-24194-C-9	OC-SB-425-6.0/8.0-XXX		T	5.03 g	5 g
360-24219-G-1	C082009-WC1		T	5.07 g	5 g
360-24219-G-2	C082009-WC2		T	5.05 g	5 g
360-24223-D-3	OC-SB-415-5.0/7.0-XXX	5035, 8260B	T	5.25 g	5 g
360-24223-D-9	OC-SB-426-5.0/7.0-XXX	5035, 8260B	T	5.51 g	5 g
360-24223-D-10	OC-SB-426-5.0/7.0-DUP	5035, 8260B	T	5.93 g	5 g
360-24223-D-12	OC-SB-431-7.0/9.0-XXX	5035, 8260B	T	6.48 g	5 g
360-24223-D-15	OC-SB-436-6.0/8.0-XXX	5035, 8260B	T	4.97 g	5 g
360-24223-B-16	OC-TBK-004	5035, 8260B	T	5.00 g	5 g
360-24173-C-1	OC-SB-405-0.0/1.0-XXX		T	5.68 g	5 g
360-24173-C-4	OC-SB-416-0.0/1.0-XXX		T	5.09 g	5 g
360-24173-C-7	OC-TBK-001		T	5.00 g	5 g
360-24173-C-9	OC-SB-412-0.0/1.0-XXX		T	4.80 g	5 g
360-24173-C-15	OC-SB-423-0.0/1.0-XXX		T	5.08 g	5 g

3/25/10
TC

GC/MS VOA Worksheet

Batch Number: 360-48150
Method: 5035
Analyst: Rouleau, Catherine M

Date Open: Aug 25 2009 3:46PM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
LCS~360-48150/1		5035, 8260B		
LCSD~360-48150/2		5035, 8260B		
MB~360-48150/3		5035, 8260B		
360-24223-D-9~MS	OC-SB-426-5.0/7.0-XMS	5035, 8260B	T	
360-24223-D-9~MSD	OC-SB-426-5.0/7.0-MSD	5035, 8260B	T	
360-24173-C-11	OC-SB-412-6.0/7.0-XXX		T	
360-24173-C-17	OC-SB-423-5.0/6.0-XXX		T	
360-24194-C-3	OC-SB-421-8.0/10.0-XXX		T	
360-24194-C-6	OC-SB-424-7.0/9.0-XXX		T	
360-24194-C-9	OC-SB-425-6.0/8.0-XXX		T	
360-24219-G-1	C082009-WC1		T	
360-24219-G-2	C082009-WC2		T	
360-24223-D-3	OC-SB-415-5.0/7.0-XXX	5035, 8260B	T	
360-24223-D-9	OC-SB-426-5.0/7.0-XXX	5035, 8260B	T	
360-24223-D-10	OC-SB-426-5.0/7.0-DUP	5035, 8260B	T	
360-24223-D-12	OC-SB-431-7.0/9.0-XXX	5035, 8260B	T	1:1 ratio high
360-24223-D-15	OC-SB-436-6.0/8.0-XXX	5035, 8260B	T	
360-24223-B-16	OC-TBK-004	5035, 8260B	T	
360-24173-C-1	OC-SB-405-0.0/1.0-XXX		T	
360-24173-C-4	OC-SB-416-0.0/1.0-XXX		T	
360-24173-C-7	OC-TBK-001		T	
360-24173-C-9	OC-SB-412-0.0/1.0-XXX		T	
360-24173-C-15	OC-SB-423-0.0/1.0-XXX		T	

TC 3/25/10

GC/MS VOA Worksheet

Batch Number: 360-48229
Method: 5035
Analyst: Rouleau, Catherine M

Date Open: Aug 26 2009 4:10PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample
LCS~360-48229/1		5035, 8260B		5 g	5 g
LCSD~360-48229/2		5035, 8260B		5 g	5 g
MB~360-48229/3		5035, 8260B		5 g	5 g
360-24251-C-4~MS	OC-SB-433-5.0/7.0-XMS		T	5.64 g	5 g
360-24251-C-4~MSD	OC-SB-433-5.0/7.0-MSD		T	5.78 g	5 g
360-24223-C-6	OC-SB-419-3.0/5.0-XXX	5035, 8260B	T	5.05 g	5 g
360-24244-D-6	OC-SB-443-6.0/8.0-XXX		T	5.68 g	5 g
360-24244-D-9	OC-SB-445-8.0/10-XXX		T	6.19 g	5 g
360-24244-D-12	OC-SB-437-5.0/7.0-XXX		T	5.29 g	5 g
360-24251-C-3	OC-SB-433-5.0/7.0-DUP		T	5.91 g	5 g
360-24251-C-4	OC-SB-433-5.0/7.0-XXX		T	5.79 g	5 g
360-24251-D-7	OC-SB-439-8.0/10-XXX		T	6.01 g	5 g
360-24251-D-10	OC-SB-440-6.0/8.0-XXX		T	5.11 g	5 g
360-24194-B-4	OC-SB-424-0.0/1.0-XXX		T	4.52 g	5 g
360-24194-B-10	OC-TBK-002		T	5.00 g	5 g
360-24223-C-1	OC-SB-415-0.0/1.0-XXX	5035, 8260B	T	4.74 g	5 g
360-24223-C-4	OC-SB-419-0.0/1.0-XXX	5035, 8260B	T	5.06 g	5 g
360-24223-C-7	OC-SB-426-0.0/1.0-XXX	5035, 8260B	T	5.89 g	5 g
360-24223-C-11	OC-SB-431-0.0/1.0-XXX	5035, 8260B	T	5.83 g	5 g
360-24223-C-13	OC-SB-436-0.0/1.0-XXX	5035, 8260B	T	4.84 g	5 g

✓ TC

3/25/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Lab File ID: V44476.D BFB Injection Date: 08/25/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 23:35

Analysis Batch No.: 48159

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.5	
75	30.0 - 60.0 % of mass 95	43.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	77.0	
175	5.0 - 9.0 % of mass 174	5.8	(7.6)1
176	95.0 - 101.0 % of mass 174	73.8	(95.8)1
177	5.0 - 9.0 % of mass 176	4.9	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48159/2	V44477.D	08/25/2009	23:59
	LCS 360-48150/1-A	V44478.D	08/26/2009	00:23
	LCSD 360-48150/2-A	V44479.D	08/26/2009	00:47
OC-SB-426-5.0/7.0-XXX MS	360-24223-9 MS	V44480.D	08/26/2009	01:12
OC-SB-426-5.0/7.0-XXX MSD	360-24223-9 MSD	V44481.D	08/26/2009	01:36
	MB 360-48150/3-A	V44483.D	08/26/2009	02:24
OC-SB-415-5.0/7.0-XXX	360-24223-3	V44491.D	08/26/2009	05:38
OC-SB-426-5.0/7.0-XXX	360-24223-9	V44492.D	08/26/2009	06:01
OC-SB-426-5.0/7.0-DUP	360-24223-10	V44493.D	08/26/2009	06:25
OC-SB-431-7.0/9.0-XXX	360-24223-12	V44494.D	08/26/2009	06:49
OC-SB-436-6.0/8.0-XXX	360-24223-15	V44495.D	08/26/2009	07:12
OC-TBK-004	360-24223-16	V44496.D	08/26/2009	07:36

TC
3/29/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Lab File ID: V44502.D BFB Injection Date: 08/26/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:39

Analysis Batch No.: 48231

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.6	
75	30.0 - 60.0 % of mass 95	42.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	75.7	
175	5.0 - 9.0 % of mass 174	5.9	(7.8)1
176	95.0 - 101.0 % of mass 174	73.2	(96.6)1
177	5.0 - 9.0 % of mass 176	4.9	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48231/2	V44503.D	08/26/2009	17:03
	LCS 360-48229/1-A	V44504.D	08/26/2009	17:27
	LCSD 360-48229/2-A	V44505.D	08/26/2009	17:51
	MB 360-48229/3-A	V44509.D	08/26/2009	19:26
OC-SB-419-3.0/5.0-XXX	360-24223-6	V44510.D	08/26/2009	19:50
OC-SB-415-0.0/1.0-XXX	360-24223-1	V44520.D	08/27/2009	00:03
OC-SB-419-0.0/1.0-XXX	360-24223-4	V44521.D	08/27/2009	00:28
OC-SB-426-0.0/1.0-XXX	360-24223-7	V44522.D	08/27/2009	00:53
OC-SB-431-0.0/1.0-XXX	360-24223-11	V44523.D	08/27/2009	01:18
OC-SB-436-0.0/1.0-XXX	360-24223-13	V44524.D	08/27/2009	01:42

TC
3/25/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24223-1

SDG No.: OCRI-03

Lab File ID: V44418.D BFB Injection Date: 08/24/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 17:23

Analysis Batch No.: 48090

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	42.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	76.7	
175	5.0 - 9.0 % of mass 174	6.0	(7.8)1
176	95.0 - 101.0 % of mass 174	75.2	(98.1)1
177	5.0 - 9.0 % of mass 176	5.0	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48090/2	V44419.D	08/24/2009	17:47
	STD0005 360-48090/3	V44421.D	08/24/2009	18:35
	STD001 360-48090/4	V44422.D	08/24/2009	18:59
	STD005 360-48090/5	V44423.D	08/24/2009	19:24
	STD010 360-48090/6	V44424.D	08/24/2009	19:48
	STD040 360-48090/7	V44425.D	08/24/2009	20:13
	STD080 360-48090/8	V44426.D	08/24/2009	20:37
	ICV 360-48090/10	V44456.D	08/25/2009	15:29

TC
3/25/10

OCRI-04

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: OCRI-04 360-24244-1

LAB #: TAL Westfield

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Data completeness				
☑	☐	☐	All data summaries, QC forms and raw data available from hard copy or electronic data package	Contact lab if missing data. Lab to respond with 24 hours.
☑	☐	☐	Data summaries match EDD	
Holding Times and Preservation				
☑	☐	☐	Hold times met (14 days with preservation)	
☑	☐	☐	Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune)				
☑	☐	☐	Tune available for each 12-hour period samples were analyzed	
☑	☐	☐	Appropriate number of significant figures reported (at least 2)	
☑	☐	☐	Mass/Charge list (m/z) criteria met	
Initial Calibration 8/24/09 Cal date				
☑	☐	☐	%RSD less than or equal to 30% → if %RSD was >15% Linear Regression used Pro-Judgment	
☐	☑	☐	RRF greater than or equal to 0.05 → 1,4-Dioxane $\bar{X}$ RRF = 0.021 VJ All NDs	
Continuing Calibration				
☐	☑	☐	%D less than or equal to 25% → See attached	
☑	☐	☐	RRF greater than or equal to 0.05.	
Blank Contamination				
☑	☐	☐	Method blank contamination →	Evaluate all blanks for contamination. Highest contaminant level used for action level.
☐	☑	☐	Trip blank contamination → See attached Form I's	
☐	☑	☐	Equipment/Rinseate blank contamination	

ICV for 8/24/09 evaluated See attached

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes No N/A — TIER I / (II) / III (circle one)

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples ☐ ☐ ☑ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☐ ☐ ☑ MS/MSD RPD criteria met (water and soil <30%) * ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	Not submitted in this SDG → See Attached Form III
Field Duplicates ☐ ☐ ☑ RPD criteria (water <30%, soils <50%) met	Not Submitted in this SDG
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	Form VIII attached
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: _____

Date: 3/26/10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-432-0.0/1.0-XXX

Lab Sample ID: 360-24244-1
Client Matrix: Solid % Moisture: 6.6

Date Sampled: 08/20/2009 1435
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44548.D
Dilution:	1.0			Initial Weight/Volume:	8.28 g
Date Analyzed:	08/28/2009 0215			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		65	160
1,1,1-Trichloroethane		ND		65	160
1,1,2,2-Tetrachloroethane		ND		65	160
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		65	810
1,1,2-Trichloroethane		ND		65	160
1,1-Dichloroethane		ND		65	160
1,1-Dichloroethene		ND		65	160
1,1-Dichloropropene		ND		65	160
1,2,3-Trichlorobenzene		ND		65	160
1,2,3-Trichloropropane		ND		95	160
1,2,4-Trichlorobenzene		ND		65	160
1,2,4-Trimethylbenzene		ND		65	160
1,2-Dibromo-3-Chloropropane		ND		120	1600
Ethylene Dibromide		ND		65	160
1,2-Dichlorobenzene		ND		65	160
1,2-Dichloroethane		ND		65	160
Acetone		ND J	*	1200	16000
1,2-Dichloropropane		ND		65	160
1,3,5-Trimethylbenzene		ND		65	160
1,3-Dichlorobenzene		ND		65	160
1,3-Dichloropropane		ND		65	160
1,4-Dichlorobenzene		ND		65	160
1,4-Dioxane		ND J		2100	16000
2,2-Dichloropropane		ND		65	160
2,4,4-Trimethyl-1-pentene		ND J	*	65	320
2,4,4-Trimethyl-2-pentene		ND		65	320
2-Chlorotoluene		ND		65	160
2-Hexanone		ND		330	1600
4-Chlorotoluene		ND		65	160
Benzene		ND		65	160
Bromobenzene		ND		65	160
Chlorobromomethane		ND		65	160
Dichlorobromomethane		ND		65	160
Bromoform		ND		65	160
Bromomethane		ND		65	320
n-Butylbenzene		ND		65	160
Carbon disulfide		ND		65	160
Carbon tetrachloride		ND		65	160
Chlorobenzene		ND		65	160
Chloroethane		ND		65	320
Chloroform		ND		65	160
Chloromethane		ND		65	320
cis-1,2-Dichloroethene		ND		65	160
cis-1,3-Dichloropropene		ND		65	160
Cyclohexane		ND		170	1600
Chlorodibromomethane		ND		65	160

JC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-432-0.0/1.0-XXX

Lab Sample ID: 360-24244-1
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 08/20/2009 1435
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44548.D
Dilution:	1.0			Initial Weight/Volume:	8.28 g
Date Analyzed:	08/28/2009 0215			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		65	160
Dichlorodifluoromethane		ND		65	320
Ethyl ether		ND		65	160
Isopropyl ether		ND		65	160
Tert-butyl ethyl ether		ND		160	160
Ethylbenzene		ND		65	160
Hexachlorobutadiene		ND		65	160
Isopropylbenzene		ND		65	160
Methyl acetate		7200	J	1100	3200
2-Butanone (MEK)		ND		440	1600
4-Methyl-2-pentanone (MIBK)		ND		330	1600
Methyl tert-butyl ether		ND		65	160
Methylcyclohexane		ND		65	160
Methylene Chloride		ND		310	650
m-Xylene & p-Xylene		ND		65	320
Naphthalene		ND		65	1600
N-Propylbenzene		ND		65	160
o-Xylene		ND		65	160
4-Isopropyltoluene		ND		65	160
sec-Butylbenzene		ND		65	160
Styrene		ND		65	160
Tert-amyl methyl ether		ND		65	160
tert-Butylbenzene		ND		65	160
Tetrachloroethene		ND		65	160
Tetrahydrofuran		ND		360	1600
Toluene		ND		65	160
trans-1,2-Dichloroethene		ND		65	160
trans-1,3-Dichloropropene		ND		65	160
Trichloroethene		ND		65	160
Trichlorofluoromethane		ND		65	320
Vinyl chloride		ND		65	160

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	95		70 - 130

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-432-0.0/1.0-XXX

Lab Sample ID: 360-24244-1
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 08/20/2009 1435
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44548.D
Dilution:	1.0			Initial Weight/Volume:	8.28 g
Date Analyzed:	08/28/2009 0215			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	11.41	400	T J

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-432-14/16-XXX**

Lab Sample ID: 360-24244-2
Client Matrix: Solid % Moisture: 8.7

Date Sampled: 08/20/2009 1515
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44549.D
Dilution:	1.0			Initial Weight/Volume:	11.77 g
Date Analyzed:	08/28/2009 0239			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		47	120
1,1,1-Trichloroethane		ND		47	120
1,1,2,2-Tetrachloroethane		ND		47	120
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		47	580
1,1,2-Trichloroethane		ND		47	120
1,1-Dichloroethane		ND		47	120
1,1-Dichloroethene		ND		47	120
1,1-Dichloropropene		ND		47	120
1,2,3-Trichlorobenzene		78	J	47	120
1,2,3-Trichloropropane		ND		69	120
1,2,4-Trichlorobenzene		ND		47	120
1,2,4-Trimethylbenzene		150		47	120
1,2-Dibromo-3-Chloropropane		ND		84	1200
Ethylene Dibromide		ND		47	120
1,2-Dichlorobenzene		120		47	120
1,2-Dichloroethane		ND		47	120
Acetone		ND J	*	840	12000
1,2-Dichloropropane		ND		47	120
1,3,5-Trimethylbenzene		57	J	47	120
1,3-Dichlorobenzene		ND		47	120
1,3-Dichloropropane		ND		47	120
1,4-Dichlorobenzene		ND		47	120
1,4-Dioxane		ND J		1500	12000
2,2-Dichloropropane		ND		47	120
2,4,4-Trimethyl-1-pentene		250 J	*	47	230
2,4,4-Trimethyl-2-pentene		ND		47	230
2-Chlorotoluene		ND		47	120
2-Hexanone		1500		240	1200
4-Chlorotoluene		ND		47	120
Benzene		ND		47	120
Bromobenzene		ND		47	120
Chlorobromomethane		ND		47	120
Dichlorobromomethane		ND		47	120
Bromoform		ND		47	120
Bromomethane		ND		47	230
n-Butylbenzene		ND		47	120
Carbon disulfide		ND		47	120
Carbon tetrachloride		ND		47	120
Chlorobenzene		ND		47	120
Chloroethane		ND		47	230
Chloroform		ND		47	120
Chloromethane		ND		47	230
cis-1,2-Dichloroethene		ND		47	120
cis-1,3-Dichloropropene		ND		47	120
Cyclohexane		ND		120	1200
Chlorodibromomethane		ND		47	120

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-432-14/16-XXX**

Lab Sample ID: 360-24244-2
Client Matrix: Solid
% Moisture: 8.7

Date Sampled: 08/20/2009 1515
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44549.D
Dilution:	1.0			Initial Weight/Volume:	11.77 g
Date Analyzed:	08/28/2009 0239			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		47	120
Dichlorodifluoromethane		ND		47	230
Ethyl ether		ND		47	120
Isopropyl ether		ND		47	120
Tert-butyl ethyl ether		ND		120	120
Ethylbenzene		4300		47	120
Hexachlorobutadiene		ND		47	120
Isopropylbenzene		ND		47	120
Methyl acetate		ND J		760	2300
2-Butanone (MEK)		ND		310	1200
4-Methyl-2-pentanone (MIBK)		ND		240	1200
Methyl tert-butyl ether		ND		47	120
Methylcyclohexane		ND		47	120
Methylene Chloride		ND	*	230	470
m-Xylene & p-Xylene		10000		47	230
Naphthalene		77	J	47	1200
N-Propylbenzene		ND		47	120
o-Xylene		2600		47	120
4-Isopropyltoluene		340		47	120
sec-Butylbenzene		ND		47	120
Styrene		ND		47	120
Tert-amyl methyl ether		ND		47	120
tert-Butylbenzene		ND		47	120
Tetrachloroethene		ND		47	120
Tetrahydrofuran		ND		260	1200
Toluene		910		47	120
trans-1,2-Dichloroethene		ND		47	120
trans-1,3-Dichloropropene		ND		47	120
Trichloroethene		57	J	47	120
Trichlorofluoromethane		ND		47	230
Vinyl chloride		ND		47	120

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-432-14/16-XXX

Lab Sample ID: 360-24244-2
Client Matrix: Solid
% Moisture: 8.7

Date Sampled: 08/20/2009 1515
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44549.D
Dilution:	1.0			Initial Weight/Volume:	11.77 g
Date Analyzed:	08/28/2009 0239			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Tentatively Identified Compounds **Number TIC's Found:** 8

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
80-62-6	Methyl methacrylate	6.59	350	
	Unknown	7.45	1400	T J
	Unknown	7.49	4100	T J
20063-92-7	3-Nonene, (E)-	7.70	1500	T J N
59643-68-4	3,5-Dimethyl-3-heptene	7.74	1600	T J N
	Unknown	7.82	2200	T J
7049-25-4	1-Silacyclo-3-pentene	7.88	1300	T J N
	Unknown	10.37	2500	T J

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-432-5.0/7.0-XXX**

Lab Sample ID: 360-24244-3
Client Matrix: Solid % Moisture: 12.3

Date Sampled: 08/20/2009 1441
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44550.D
Dilution:	1.0			Initial Weight/Volume:	10.13 g
Date Analyzed:	08/28/2009 0303			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		56	140
1,1,1-Trichloroethane		ND		56	140
1,1,2,2-Tetrachloroethane		ND		56	140
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		56	700
1,1,2-Trichloroethane		ND		56	140
1,1-Dichloroethane		ND		56	140
1,1-Dichloroethene		ND		56	140
1,1-Dichloropropene		ND		56	140
1,2,3-Trichlorobenzene		ND		56	140
1,2,3-Trichloropropane		ND		83	140
1,2,4-Trichlorobenzene		ND		56	140
1,2,4-Trimethylbenzene		ND		56	140
1,2-Dibromo-3-Chloropropane		ND		100	1400
Ethylene Dibromide		ND		56	140
1,2-Dichlorobenzene		ND		56	140
1,2-Dichloroethane		ND		56	140
Acetone		ND J	*	1000	14000
1,2-Dichloropropane		ND		56	140
1,3,5-Trimethylbenzene		ND		56	140
1,3-Dichlorobenzene		ND		56	140
1,3-Dichloropropane		ND		56	140
1,4-Dichlorobenzene		ND		56	140
1,4-Dioxane		ND J		1900	14000
2,2-Dichloropropane		ND		56	140
2,4,4-Trimethyl-1-pentene		ND J	*	56	280
2,4,4-Trimethyl-2-pentene		ND		56	280
2-Chlorotoluene		ND		56	140
2-Hexanone		ND		290	1400
4-Chlorotoluene		ND		56	140
Benzene		ND		56	140
Bromobenzene		ND		56	140
Chlorobromomethane		ND		56	140
Dichlorobromomethane		ND		56	140
Bromoform		ND		56	140
Bromomethane		ND		56	280
n-Butylbenzene		ND		56	140
Carbon disulfide		ND		56	140
Carbon tetrachloride		ND		56	140
Chlorobenzene		ND		56	140
Chloroethane		ND		56	280
Chloroform		ND		56	140
Chloromethane		ND		56	280
cis-1,2-Dichloroethene		ND		56	140
cis-1,3-Dichloropropene		ND		56	140
Cyclohexane		ND		150	1400
Chlorodibromomethane		ND		56	140

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-432-5.0/7.0-XXX**

Lab Sample ID: 360-24244-3
Client Matrix: Solid
% Moisture: 12.3

Date Sampled: 08/20/2009 1441
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44550.D
Dilution:	1.0			Initial Weight/Volume:	10.13 g
Date Analyzed:	08/28/2009 0303			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		56	140
Dichlorodifluoromethane		ND		56	280
Ethyl ether		ND		56	140
Isopropyl ether		ND		56	140
Tert-butyl ethyl ether		ND		140	140
Ethylbenzene		ND		56	140
Hexachlorobutadiene		ND		56	140
Isopropylbenzene		ND		56	140
Methyl acetate		ND	J	920	2800
2-Butanone (MEK)		ND		380	1400
4-Methyl-2-pentanone (MIBK)		ND		290	1400
Methyl tert-butyl ether		ND		56	140
Methylcyclohexane		ND		56	140
Methylene Chloride		ND	*	270	560
m-Xylene & p-Xylene		ND		56	280
Naphthalene		ND		56	1400
N-Propylbenzene		ND		56	140
o-Xylene		ND		56	140
4-Isopropyltoluene		550		56	140
sec-Butylbenzene		ND		56	140
Styrene		ND		56	140
Tert-amyl methyl ether		ND		56	140
tert-Butylbenzene		ND		56	140
Tetrachloroethene		ND		56	140
Tetrahydrofuran		ND		310	1400
Toluene		ND		56	140
trans-1,2-Dichloroethene		ND		56	140
trans-1,3-Dichloropropene		ND		56	140
Trichloroethene		ND		56	140
Trichlorofluoromethane		ND		56	280
Vinyl chloride		ND		56	140

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-432-5.0/7.0-XXX**

Lab Sample ID: 360-24244-3
Client Matrix: Solid
% Moisture: 12.3

Date Sampled: 08/20/2009 1441
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48296		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48289		Lab File ID:	V44550.D
Dilution:	1.0			Initial Weight/Volume:	10.13 g
Date Analyzed:	08/28/2009 0303			Final Weight/Volume:	10 g
Date Prepared:	08/26/2009 1559				

Tentatively Identified Compounds **Number TIC's Found:** **10**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
6236-88-0	Cyclohexane, 1-ethyl-4-methyl-, trans-	7.45	2500	T J N
	Unknown	7.49	5200	T J
	Unknown	7.69	2000	T J
4926-78-7	Cyclohexane, 1-ethyl-4-methyl-, cis-	7.74	2600	T J N
	Unknown	7.83	3000	T J
	Unknown	7.87	2700	T J
	Unknown	9.87	3500	T J
	Unknown	10.05	3200	T J
	Unknown	10.10	5800	T J
	Unknown	10.36	5600	T J

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-443-0.0/1.0-XXX

Lab Sample ID: 360-24244-4
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 08/20/2009 1635
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44635.D
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Date Analyzed:	09/01/2009 0645			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.98	2.4
1,1,1-Trichloroethane		ND		0.98	2.4
1,1,2,2-Tetrachloroethane		ND		0.98	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.98	12
1,1,2-Trichloroethane		ND		0.98	2.4
1,1-Dichloroethane		ND		0.98	2.4
1,1-Dichloroethene		ND		0.98	2.4
1,1-Dichloropropene		ND		0.98	2.4
1,2,3-Trichlorobenzene		ND		0.98	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.98	2.4
1,2,4-Trimethylbenzene		ND		0.98	2.4
1,2-Dibromo-3-Chloropropane		ND		1.8	24
Ethylene Dibromide		ND		0.98	2.4
1,2-Dichlorobenzene		ND		0.98	2.4
1,2-Dichloroethane		ND		0.98	2.4
Acetone		ND	J	18	240
1,2-Dichloropropane		ND		0.98	2.4
1,3,5-Trimethylbenzene		ND		0.98	2.4
1,3-Dichlorobenzene		ND		0.98	2.4
1,3-Dichloropropane		ND		0.98	2.4
1,4-Dichlorobenzene		ND		0.98	2.4
1,4-Dioxane		ND	J	32	240
2,2-Dichloropropane		ND		0.98	2.4
2,4,4-Trimethyl-1-pentene		ND		0.98	4.9
2,4,4-Trimethyl-2-pentene		ND		0.98	4.9
2-Chlorotoluene		ND		0.98	2.4
2-Hexanone		ND		5.0	24
4-Chlorotoluene		ND		0.98	2.4
Benzene		ND		0.98	2.4
Bromobenzene		ND		0.98	2.4
Chlorobromomethane		ND		0.98	2.4
Dichlorobromomethane		ND		0.98	2.4
Bromoform		ND		0.98	2.4
Bromomethane		ND		0.98	4.9
n-Butylbenzene		ND		0.98	2.4
Carbon disulfide		ND		0.98	2.4
Carbon tetrachloride		ND		0.98	2.4
Chlorobenzene		ND		0.98	2.4
Chloroethane		ND		0.98	4.9
Chloroform		ND		0.98	2.4
Chloromethane		ND		0.98	4.9
cis-1,2-Dichloroethene		ND		0.98	2.4
cis-1,3-Dichloropropene		ND		0.98	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.98	2.4

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-443-0.0/1.0-XXX

Lab Sample ID: 360-24244-4
Client Matrix: Solid

% Moisture: 3.4

Date Sampled: 08/20/2009 1635
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44635.D
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Date Analyzed:	09/01/2009 0645			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.98	2.4
Dichlorodifluoromethane		ND J	*	0.98	4.9
Ethyl ether		ND		0.98	2.4
Isopropyl ether		ND		0.98	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.98	2.4
Hexachlorobutadiene		ND		0.98	2.4
Isopropylbenzene		ND		0.98	2.4
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND		6.6	24
4-Methyl-2-pentanone (MIBK)		ND		5.0	24
Methyl tert-butyl ether		ND		0.98	2.4
Methylcyclohexane		ND		0.98	2.4
Methylene Chloride		ND		4.7	9.8
m-Xylene & p-Xylene		ND		0.98	4.9
Naphthalene		ND		0.98	24
N-Propylbenzene		ND		0.98	2.4
o-Xylene		ND		0.98	2.4
4-Isopropyltoluene		ND		0.98	2.4
sec-Butylbenzene		ND		0.98	2.4
Styrene		ND		0.98	2.4
Tert-amyl methyl ether		ND		0.98	2.4
tert-Butylbenzene		ND		0.98	2.4
Tetrachloroethene		ND		0.98	2.4
Tetrahydrofuran		ND		5.4	24
Toluene		ND		0.98	2.4
trans-1,2-Dichloroethene		ND		0.98	2.4
trans-1,3-Dichloropropene		ND		0.98	2.4
Trichloroethene		ND		0.98	2.4
Trichlorofluoromethane		ND		0.98	4.9
Vinyl chloride		ND		0.98	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-443-0.0/1.0-XXX

Lab Sample ID: 360-24244-4
Client Matrix: Solid

% Moisture: 3.4

Date Sampled: 08/20/2009 1635
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44635.D
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Date Analyzed:	09/01/2009 0645			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.04	2.6	T J

3/26/10 TC

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-443-6.0/8.0-XXX**

Lab Sample ID: 360-24244-6
Client Matrix: Solid % Moisture: 13.6

Date Sampled: 08/20/2009 1640
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44511.D
Dilution:	1.0			Initial Weight/Volume:	5.68 g
Date Analyzed:	08/26/2009 2015			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND J	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND J		34	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND	*	1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-443-6.0/8.0-XXX**

Lab Sample ID: 360-24244-6
Client Matrix: Solid

% Moisture: 13.6

Date Sampled: 08/20/2009 1640
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44511.D
Dilution:	1.0			Initial Weight/Volume:	5.68 g
Date Analyzed:	08/26/2009 2015			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND		1.0	5.1
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND	J	17	51
2-Butanone (MEK)		ND		6.9	25
4-Methyl-2-pentanone (MIBK)		ND		5.3	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		16	~~J~~ U ~~B~~	4.9	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.6	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-443-6.0/8.0-XXX**

Lab Sample ID: 360-24244-6
Client Matrix: Solid
% Moisture: 13.6

Date Sampled: 08/20/2009 1640
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44511.D
Dilution:	1.0			Initial Weight/Volume:	5.68 g
Date Analyzed:	08/26/2009 2015			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.06	4.7	T J

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-445-0.0/1.0-XXX**

Lab Sample ID: 360-24244-7
Client Matrix: Solid % Moisture: 2.0

Date Sampled: 08/21/2009 0900
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44636.D
Dilution:	1.0			Initial Weight/Volume:	5.24 g
Date Analyzed:	09/01/2009 0709			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.97	2.4
1,1,1-Trichloroethane		ND		0.97	2.4
1,1,2,2-Tetrachloroethane		ND		0.97	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.97	12
1,1,2-Trichloroethane		ND		0.97	2.4
1,1-Dichloroethane		ND		0.97	2.4
1,1-Dichloroethene		ND		0.97	2.4
1,1-Dichloropropene		ND		0.97	2.4
1,2,3-Trichlorobenzene		ND		0.97	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.97	2.4
1,2,4-Trimethylbenzene		ND		0.97	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.97	2.4
1,2-Dichlorobenzene		ND		0.97	2.4
1,2-Dichloroethane		ND		0.97	2.4
Acetone		ND	J *	17	240
1,2-Dichloropropane		ND		0.97	2.4
1,3,5-Trimethylbenzene		ND		0.97	2.4
1,3-Dichlorobenzene		ND		0.97	2.4
1,3-Dichloropropane		ND		0.97	2.4
1,4-Dichlorobenzene		ND		0.97	2.4
1,4-Dioxane		ND	J	32	240
2,2-Dichloropropane		ND		0.97	2.4
2,4,4-Trimethyl-1-pentene		ND		0.97	4.9
2,4,4-Trimethyl-2-pentene		ND		0.97	4.9
2-Chlorotoluene		ND		0.97	2.4
2-Hexanone		ND		5.0	24
4-Chlorotoluene		ND		0.97	2.4
Benzene		ND		0.97	2.4
Bromobenzene		ND		0.97	2.4
Chlorobromomethane		ND		0.97	2.4
Dichlorobromomethane		ND		0.97	2.4
Bromoform		ND		0.97	2.4
Bromomethane		ND		0.97	4.9
n-Butylbenzene		ND		0.97	2.4
Carbon disulfide		ND		0.97	2.4
Carbon tetrachloride		ND		0.97	2.4
Chlorobenzene		ND		0.97	2.4
Chloroethane		ND		0.97	4.9
Chloroform		ND		0.97	2.4
Chloromethane		ND		0.97	4.9
cis-1,2-Dichloroethene		ND		0.97	2.4
cis-1,3-Dichloropropene		ND		0.97	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.97	2.4

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-445-0.0/1.0-XXX

Lab Sample ID: 360-24244-7
Client Matrix: Solid % Moisture: 2.0

Date Sampled: 08/21/2009 0900
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44636.D
Dilution:	1.0			Initial Weight/Volume:	5.24 g
Date Analyzed:	09/01/2009 0709			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.97	2.4
Dichlorodifluoromethane		ND J	*	0.97	4.9
Ethyl ether		ND		0.97	2.4
Isopropyl ether		ND		0.97	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.97	2.4
Hexachlorobutadiene		ND		0.97	2.4
Isopropylbenzene		ND		0.97	2.4
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND		6.6	24
4-Methyl-2-pentanone (MIBK)		ND		5.0	24
Methyl tert-butyl ether		ND		0.97	2.4
Methylcyclohexane		ND		0.97	2.4
Methylene Chloride		ND		4.7	9.7
m-Xylene & p-Xylene		ND		0.97	4.9
Naphthalene		ND		0.97	24
N-Propylbenzene		ND		0.97	2.4
o-Xylene		ND		0.97	2.4
4-Isopropyltoluene		ND		0.97	2.4
sec-Butylbenzene		ND		0.97	2.4
Styrene		ND		0.97	2.4
Tert-amyl methyl ether		ND		0.97	2.4
tert-Butylbenzene		ND		0.97	2.4
Tetrachloroethene		ND		0.97	2.4
Tetrahydrofuran		ND		5.4	24
Toluene		ND		0.97	2.4
trans-1,2-Dichloroethene		ND		0.97	2.4
trans-1,3-Dichloropropene		ND		0.97	2.4
Trichloroethene		ND		0.97	2.4
Trichlorofluoromethane		ND		0.97	4.9
Vinyl chloride		ND		0.97	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	94		70 - 130

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-445-0.0/1.0-XXX**

Lab Sample ID: 360-24244-7
Client Matrix: Solid
% Moisture: 2.0

Date Sampled: 08/21/2009 0900
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44636.D
Dilution:	1.0			Initial Weight/Volume:	5.24 g
Date Analyzed:	09/01/2009 0709			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-445-8.0/10-XXX**

Lab Sample ID: 360-24244-9
Client Matrix: Solid % Moisture: 15.1

Date Sampled: 08/21/2009 0910
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/26/2009 2040
Date Prepared: 08/26/2009 1610

Analysis Batch: 360-48231
Prep Batch: 360-48229

Instrument ID: HP #1 GC/MS
Lab File ID: V44512.D
Initial Weight/Volume: 6.19 g
Final Weight/Volume: 5 g

Analyte (DryWt Corrected: Y)	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.95	2.4
1,1,1-Trichloroethane	ND		0.95	2.4
1,1,2,2-Tetrachloroethane	ND		0.95	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.95	12
1,1,2-Trichloroethane	ND		0.95	2.4
1,1-Dichloroethane	ND		0.95	2.4
1,1-Dichloroethene	ND		0.95	2.4
1,1-Dichloropropene	ND		0.95	2.4
1,2,3-Trichlorobenzene	ND		0.95	2.4
1,2,3-Trichloropropane	ND		1.4	2.4
1,2,4-Trichlorobenzene	ND		0.95	2.4
1,2,4-Trimethylbenzene	ND		0.95	2.4
1,2-Dibromo-3-Chloropropane	ND		1.7	24
Ethylene Dibromide	ND		0.95	2.4
1,2-Dichlorobenzene	ND		0.95	2.4
1,2-Dichloroethane	ND		0.95	2.4
Acetone	ND J	*	17	240
1,2-Dichloropropane	ND		0.95	2.4
1,3,5-Trimethylbenzene	ND		0.95	2.4
1,3-Dichlorobenzene	ND		0.95	2.4
1,3-Dichloropropane	ND		0.95	2.4
1,4-Dichlorobenzene	ND		0.95	2.4
1,4-Dioxane	ND J		31	240
2,2-Dichloropropane	ND		0.95	2.4
2,4,4-Trimethyl-1-pentene	ND	*	0.95	4.8
2,4,4-Trimethyl-2-pentene	ND		0.95	4.8
2-Chlorotoluene	ND		0.95	2.4
2-Hexanone	ND		4.9	24
4-Chlorotoluene	ND		0.95	2.4
Benzene	ND		0.95	2.4
Bromobenzene	ND		0.95	2.4
Chlorobromomethane	ND		0.95	2.4
Dichlorobromomethane	ND		0.95	2.4
Bromoform	ND		0.95	2.4
Bromomethane	ND		0.95	4.8
n-Butylbenzene	ND		0.95	2.4
Carbon disulfide	ND		0.95	2.4
Carbon tetrachloride	ND		0.95	2.4
Chlorobenzene	ND		0.95	2.4
Chloroethane	ND		0.95	4.8
Chloroform	ND		0.95	2.4
Chloromethane	ND		0.95	4.8
cis-1,2-Dichloroethene	ND		0.95	2.4
cis-1,3-Dichloropropene	ND		0.95	2.4
Cyclohexane	ND		2.5	24
Chlorodibromomethane	ND		0.95	2.4

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-445-8.0/10-XXX

Lab Sample ID: 360-24244-9
Client Matrix: Solid
% Moisture: 15.1

Date Sampled: 08/21/2009 0910
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44512.D
Dilution:	1.0			Initial Weight/Volume:	6.19 g
Date Analyzed:	08/26/2009 2040			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.95	2.4
Dichlorodifluoromethane		ND		0.95	4.8
Ethyl ether		ND		0.95	2.4
Isopropyl ether		ND		0.95	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.95	2.4
Hexachlorobutadiene		ND		0.95	2.4
Isopropylbenzene		ND		0.95	2.4
Methyl acetate		ND	J	15	48
2-Butanone (MEK)		ND		6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.95	2.4
Methylcyclohexane		ND		0.95	2.4
Methylene Chloride		16	U B	4.6	9.5
m-Xylene & p-Xylene		ND		0.95	4.8
Naphthalene		ND		0.95	24
N-Propylbenzene		ND		0.95	2.4
o-Xylene		ND		0.95	2.4
4-Isopropyltoluene		ND		0.95	2.4
sec-Butylbenzene		ND		0.95	2.4
Styrene		ND		0.95	2.4
Tert-amyl methyl ether		ND		0.95	2.4
tert-Butylbenzene		ND		0.95	2.4
Tetrachloroethene		ND		0.95	2.4
Tetrahydrofuran		ND		5.2	24
Toluene		ND		0.95	2.4
trans-1,2-Dichloroethene		ND		0.95	2.4
trans-1,3-Dichloropropene		ND		0.95	2.4
Trichloroethene		ND		0.95	2.4
Trichlorofluoromethane		ND		0.95	4.8
Vinyl chloride		ND		0.95	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	94		70 - 130

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-445-8.0/10-XXX**

Lab Sample ID: 360-24244-9
Client Matrix: Solid

% Moisture: 15.1

Date Sampled: 08/21/2009 0910
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44512.D
Dilution:	1.0			Initial Weight/Volume:	6.19 g
Date Analyzed:	08/26/2009 2040			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-437-0.0/1.0-XXX**

Lab Sample ID: 360-24244-10
Client Matrix: Solid % Moisture: 6.8

Date Sampled: 08/21/2009 1230
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44637.D
Dilution:	1.0			Initial Weight/Volume:	5.46 g
Date Analyzed:	09/01/2009 0734			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.98	2.5
1,1,1-Trichloroethane		ND		0.98	2.5
1,1,2,2-Tetrachloroethane		ND		0.98	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.98	12
1,1,2-Trichloroethane		ND		0.98	2.5
1,1-Dichloroethane		ND		0.98	2.5
1,1-Dichloroethene		ND		0.98	2.5
1,1-Dichloropropene		ND		0.98	2.5
1,2,3-Trichlorobenzene		ND		0.98	2.5
1,2,3-Trichloropropane		ND		1.4	2.5
1,2,4-Trichlorobenzene		ND		0.98	2.5
1,2,4-Trimethylbenzene		ND		0.98	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.98	2.5
1,2-Dichlorobenzene		ND		0.98	2.5
1,2-Dichloroethane		ND		0.98	2.5
Acetone		ND	*	18	250
1,2-Dichloropropane		ND		0.98	2.5
1,3,5-Trimethylbenzene		ND		0.98	2.5
1,3-Dichlorobenzene		ND		0.98	2.5
1,3-Dichloropropane		ND		0.98	2.5
1,4-Dichlorobenzene		ND		0.98	2.5
1,4-Dioxane		ND		32	250
2,2-Dichloropropane		ND		0.98	2.5
2,4,4-Trimethyl-1-pentene		ND		0.98	4.9
2,4,4-Trimethyl-2-pentene		ND		0.98	4.9
2-Chlorotoluene		ND		0.98	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.98	2.5
Benzene		ND		0.98	2.5
Bromobenzene		ND		0.98	2.5
Chlorobromomethane		ND		0.98	2.5
Dichlorobromomethane		ND		0.98	2.5
Bromoform		ND		0.98	2.5
Bromomethane		ND		0.98	4.9
n-Butylbenzene		ND		0.98	2.5
Carbon disulfide		ND		0.98	2.5
Carbon tetrachloride		ND		0.98	2.5
Chlorobenzene		ND		0.98	2.5
Chloroethane		ND		0.98	4.9
Chloroform		ND		0.98	2.5
Chloromethane		ND		0.98	4.9
cis-1,2-Dichloroethene		ND		0.98	2.5
cis-1,3-Dichloropropene		ND		0.98	2.5
Cyclohexane		ND		2.5	25
Chlorodibromomethane		ND		0.98	2.5

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-437-0.0/1.0-XXX

Lab Sample ID: 360-24244-10
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 08/21/2009 1230
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44637.D
Dilution:	1.0			Initial Weight/Volume:	5.46 g
Date Analyzed:	09/01/2009 0734			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.98	2.5
Dichlorodifluoromethane		ND J	*	0.98	4.9
Ethyl ether		ND		0.98	2.5
Isopropyl ether		ND		0.98	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.98	2.5
Hexachlorobutadiene		ND		0.98	2.5
Isopropylbenzene		ND		0.98	2.5
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND		6.6	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.98	2.5
Methylcyclohexane		ND		0.98	2.5
Methylene Chloride		ND		4.8	9.8
m-Xylene & p-Xylene		ND		0.98	4.9
Naphthalene		ND		0.98	25
N-Propylbenzene		ND		0.98	2.5
o-Xylene		ND		0.98	2.5
4-Isopropyltoluene		ND		0.98	2.5
sec-Butylbenzene		ND		0.98	2.5
Styrene		ND		0.98	2.5
Tert-amyl methyl ether		ND		0.98	2.5
tert-Butylbenzene		ND		0.98	2.5
Tetrachloroethene		ND		0.98	2.5
Tetrahydrofuran		ND		5.4	25
Toluene		ND		0.98	2.5
trans-1,2-Dichloroethene		ND		0.98	2.5
trans-1,3-Dichloropropene		ND		0.98	2.5
Trichloroethene		ND		0.98	2.5
Trichlorofluoromethane		ND		0.98	4.9
Vinyl chloride		ND		0.98	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-437-0.0/1.0-XXX

Lab Sample ID: 360-24244-10
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 08/21/2009 1230
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44637.D
Dilution:	1.0			Initial Weight/Volume:	5.46 g
Date Analyzed:	09/01/2009 0734			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-437-5.0/7.0-XXX**

Lab Sample ID: 360-24244-12
Client Matrix: Solid
% Moisture: 11.2

Date Sampled: 08/21/2009 1240
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44513.D
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Date Analyzed:	08/26/2009 2105			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND J	*	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND J		35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND	*	1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.7	27
Chlorodibromomethane		ND		1.1	2.7

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-SB-437-5.0/7.0-XXX**

Lab Sample ID: 360-24244-12
Client Matrix: Solid
% Moisture: 11.2

Date Sampled: 08/21/2009 1240
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44513.D
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Date Analyzed:	08/26/2009 2105			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND		1.1	5.3
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		17	53
2-Butanone (MEK)		ND		7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	95		70 - 130

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-SB-437-5.0/7.0-XXX

Lab Sample ID: 360-24244-12
Client Matrix: Solid

% Moisture: 11.2

Date Sampled: 08/21/2009 1240
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44513.D
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Date Analyzed:	08/26/2009 2105			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.39	2.8	T J
	Unknown	12.84	11	T J

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-TBK-005**

Lab Sample ID: 360-24244-13TB
Client Matrix: Solid

Date Sampled: 08/21/2009 1435
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44638.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/01/2009 0758			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-TBK-005**

Lab Sample ID: 360-24244-13TB
Client Matrix: Solid

Date Sampled: 08/21/2009 1435
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44638.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/01/2009 0758			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: OC-TBK-005

Lab Sample ID: 360-24244-13TB
Client Matrix: Solid

Date Sampled: 08/21/2009 1435
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44638.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/01/2009 0758			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-EBK-003**

Lab Sample ID: 360-24244-14EB
Client Matrix: Water

Date Sampled: 08/21/2009 0715
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 08/26/2009 2324
Date Prepared: 08/26/2009 2324

Analysis Batch: 360-48228

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06440.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND J		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND	*	0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND	*	0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	ND		0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-EBK-003**

Lab Sample ID: 360-24244-14EB
Client Matrix: Water

Date Sampled: 08/21/2009 0715
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 08/26/2009 2324
Date Prepared: 08/26/2009 2324

Analysis Batch: 360-48228

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06440.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND		0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	86		70 - 130
Dibromofluoromethane	122		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/26/10

Client: Olin Corporation

Job Number: 360-24244-1
Sdg Number: OCRI-04

Client Sample ID: **OC-EBK-003**

Lab Sample ID: 360-24244-14EB
Client Matrix: Water

Date Sampled: 08/21/2009 0715
Date Received: 08/21/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48228		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06440.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	08/26/2009 2324			Final Weight/Volume:	5 mL
Date Prepared:	08/26/2009 2324				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

3/26/10 TC

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-432-0.0/1.0-XXX	360-24244-1	103	95	102
OC-SB-432-14/16-XXX	360-24244-2	102	93	105
OC-SB-432-5.0/7.0-XXX	360-24244-3	101	97	99
OC-SB-443-0.0/1.0-XXX	360-24244-4	105	93	102
OC-SB-443-6.0/8.0-XXX	360-24244-6	102	97	97
OC-SB-445-0.0/1.0-XXX	360-24244-7	103	94	100
OC-SB-445-8.0/10-XXX	360-24244-9	102	94	99
OC-SB-437-0.0/1.0-XXX	360-24244-10	104	93	99
OC-SB-437-5.0/7.0-XXX	360-24244-12	105	95	98
OC-TBK-005	360-24244-13	106	93	105
	MB 360-48229/3-A	98	95	102
	MB 360-48289/3-A	101	96	100
	MB 360-48405/3-A	105	93	104
	LCS 360-48229/1-A	97	98	101
	LCS 360-48289/1-A	99	97	100
	LCS 360-48405/1-A	96	94	98
	LCSD 360-48229/2-A	95	99	102
	LCSD 360-48289/2-A	97	97	100
	LCSD 360-48405/2-A	96	94	99

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

TC 3/26/10

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Water Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-EBK-003	360-24244-14	122	93	86
	MB 360-48228/6	110	93	91
	LCS 360-48228/3	101	100	103
	LCSD 360-48228/4	102	98	103

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

3/26/10 TC ✓

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44504.D

Lab ID: LCS 360-48229/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	102	102	70-130	
1,1,1,2-Tetrachloroethane	100	107	107	70-130	
1,1,2,2-Tetrachloroethane	100	103	103	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	113	113	70-130	
1,1,2-Trichloroethane	100	90.3	90	70-130	
1,1-Dichloroethane	100	108	108	70-130	
1,1-Dichloroethene	100	109	109	70-130	
1,1-Dichloropropene	100	104	104	70-130	
1,2,3-Trichlorobenzene	100	108	108	70-130	
1,2,3-Trichloropropane	100	105	105	70-130	
1,2,4-Trichlorobenzene	100	108	108	70-130	
1,2,4-Trimethylbenzene	100	105	105	70-130	
1,2-Dibromo-3-Chloropropane	100	99.0	99	70-130	
Ethylene Dibromide	100	90.2	90	70-130	
1,2-Dichlorobenzene	100	102	102	70-130	
1,2-Dichloroethane	100	96.9	97	70-130	
1,2-Dichloropropane	100	119	119	70-130	
1,3,5-Trimethylbenzene	100	110	110	70-130	
1,3-Dichlorobenzene	100	103	103	70-130	
1,3-Dichloropropane	100	91.9	92	70-130	
1,4-Dichlorobenzene	100	104	104	70-130	
1,4-Dioxane	1000	1030	103	70-130	
2,2-Dichloropropane	100	115	115	70-130	
2,4,4-Trimethyl-1-pentene	100	133	133	70-130	*
2,4,4-Trimethyl-2-pentene	100	119	119	70-130	
2-Chlorotoluene	100	106	106	70-130	
2-Hexanone	1000	830	83	70-130	
4-Chlorotoluene	100	107	107	70-130	
Acetone	1000	699	70	70-130	
Benzene	100	95.5	96	70-130	
Bromobenzene	100	105	105	70-130	
Chlorobromomethane	100	92.0	92	70-130	
Dichlorobromomethane	100	97.8	98	70-130	
Bromoform	100	96.7	97	70-130	
Bromomethane	100	124	124	70-130	
n-Butylbenzene	100	114	114	70-130	
Carbon disulfide	100	103	103	70-130	
Carbon tetrachloride	100	107	107	70-130	
Chlorobenzene	100	104	104	70-130	
Chloroethane	100	116	116	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

No hits in associated samples No Quals

TC 3/26/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44504.D

Lab ID: LCS 360-48229/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	101	101	70-130	
Chloromethane	100	109	109	70-130	
cis-1,2-Dichloroethene	100	98.5	99	70-130	
cis-1,3-Dichloropropene	100	93.0	93	70-130	
Cyclohexane	100	107	107	70-130	
Chlorodibromomethane	100	90.6	91	70-130	
Dibromomethane	100	94.4	94	70-130	
Dichlorodifluoromethane	100	78.3	78	70-130	
Ethyl ether	100	94.6	95	70-130	
Isopropyl ether	100	96.4	96	70-130	
Tert-butyl ethyl ether	100	106	106	70-130	
Ethylbenzene	100	113	113	70-130	
Hexachlorobutadiene	100	107	107	70-130	
Isopropylbenzene	100	113	113	70-130	
Methyl acetate	1000	810	81	70-130	
2-Butanone (MEK)	1000	867	87	70-130	
4-Methyl-2-pentanone (MIBK)	1000	985	98	70-130	
Methyl tert-butyl ether	100	101	101	70-130	
Methylcyclohexane	100	108	108	70-130	
Methylene Chloride	100	129	129	70-130	
m-Xylene & p-Xylene	200	228	114	70-130	
Naphthalene	100	103	103	70-130	
N-Propylbenzene	100	113	113	70-130	
o-Xylene	100	105	105	70-130	
4-Isopropyltoluene	100	116	116	70-130	
sec-Butylbenzene	100	114	114	70-130	
Styrene	100	103	103	70-130	
Tert-amyl methyl ether	100	104	104	70-130	
tert-Butylbenzene	100	117	117	70-130	
Tetrachloroethene	100	99.6	100	70-130	
Tetrahydrofuran	1000	1040	104	70-130	
Toluene	100	96.7	97	70-130	
trans-1,2-Dichloroethene	100	96.8	97	70-130	
trans-1,3-Dichloropropene	100	92.4	92	70-130	
Trichloroethene	100	98.9	99	70-130	
Trichlorofluoromethane	100	118	118	70-130	
Vinyl chloride	100	112	112	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 3/26/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44505.D

Lab ID: LCSD 360-48229/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	99.3	99	3	25	70-130	
1,1,1,2-Tetrachloroethane	100	101	101	6	25	70-130	
1,1,2,2-Tetrachloroethane	100	92.4	92	11	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	105	105	8	25	70-130	
1,1,2-Trichloroethane	100	83.3	83	8	25	70-130	
1,1-Dichloroethane	100	103	103	4	25	70-130	
1,1-Dichloroethene	100	107	107	2	25	70-130	
1,1-Dichloropropene	100	101	101	3	25	70-130	
1,2,3-Trichlorobenzene	100	94.1	94	14	25	70-130	
1,2,3-Trichloropropane	100	97.6	98	7	25	70-130	
1,2,4-Trichlorobenzene	100	96.8	97	11	25	70-130	
1,2,4-Trimethylbenzene	100	102	102	2	25	70-130	
1,2-Dibromo-3-Chloropropane	100	89.2	89	10	25	70-130	
Ethylene Dibromide	100	82.9	83	8	25	70-130	
1,2-Dichlorobenzene	100	96.0	96	6	25	70-130	
1,2-Dichloroethane	100	89.4	89	8	25	70-130	
1,2-Dichloropropane	100	111	111	7	25	70-130	
1,3,5-Trimethylbenzene	100	107	107	3	25	70-130	
1,3-Dichlorobenzene	100	99.3	99	4	25	70-130	
1,3-Dichloropropane	100	85.0	85	8	25	70-130	
1,4-Dichlorobenzene	100	99.1	99	5	25	70-130	
1,4-Dioxane	1000	921	92	11	25	70-130	
2,2-Dichloropropane	100	112	112	2	25	70-130	
2,4,4-Trimethyl-1-pentene	100	124	124	7	25	70-130	
2,4,4-Trimethyl-2-pentene	100	110	110	8	25	70-130	
2-Chlorotoluene	100	103	103	3	25	70-130	
2-Hexanone	1000	726	73	13	25	70-130	
4-Chlorotoluene	100	105	105	2	25	70-130	
Acetone	1000	521	52	29	25	70-130	*
Benzene	100	91.6	92	4	25	70-130	
Bromobenzene	100	99.6	100	5	25	70-130	
Chlorobromomethane	100	86.1	86	7	25	70-130	
Dichlorobromomethane	100	91.5	92	7	25	70-130	
Bromoform	100	89.0	89	8	25	70-130	
Bromomethane	100	119	119	4	25	70-130	
n-Butylbenzene	100	111	111	3	25	70-130	
Carbon disulfide	100	101	101	1	25	70-130	
Carbon tetrachloride	100	105	105	2	25	70-130	
Chlorobenzene	100	99.9	100	4	25	70-130	
Chloroethane	100	110	110	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 3/26/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44505.D

Lab ID: LCSD 360-48229/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	96.7	97	5	25	70-130	
Chloromethane	100	104	104	4	25	70-130	
cis-1,2-Dichloroethene	100	94.3	94	4	25	70-130	
cis-1,3-Dichloropropene	100	88.2	88	5	25	70-130	
Cyclohexane	100	107	107	0	25	70-130	
Chlorodibromomethane	100	84.9	85	7	25	70-130	
Dibromomethane	100	86.8	87	8	25	70-130	
Dichlorodifluoromethane	100	74.3	74	5	25	70-130	
Ethyl ether	100	86.4	86	9	25	70-130	
Isopropyl ether	100	89.6	90	7	25	70-130	
Tert-butyl ethyl ether	100	97.3	97	9	25	70-130	
Ethylbenzene	100	110	110	3	25	70-130	
Hexachlorobutadiene	100	102	102	5	25	70-130	
Isopropylbenzene	100	110	110	2	25	70-130	
Methyl acetate	1000	751	75	8	25	70-130	
2-Butanone (MEK)	1000	731	73	17	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	849	85	15	25	70-130	
Methyl tert-butyl ether	100	91.2	91	11	25	70-130	
Methylcyclohexane	100	110	110	1	25	70-130	
Methylene Chloride	100	125	125	3	25	70-130	
m-Xylene & p-Xylene	200	222	111	3	25	70-130	
Naphthalene	100	88.0	88	16	25	70-130	
N-Propylbenzene	100	110	110	2	25	70-130	
o-Xylene	100	101	101	4	25	70-130	
4-Isopropyltoluene	100	114	114	2	25	70-130	
sec-Butylbenzene	100	111	111	2	25	70-130	
Styrene	100	98.4	98	4	25	70-130	
Tert-amyl methyl ether	100	93.6	94	11	25	70-130	
tert-Butylbenzene	100	114	114	3	25	70-130	
Tetrachloroethene	100	97.4	97	2	25	70-130	
Tetrahydrofuran	1000	932	93	11	25	70-130	
Toluene	100	93.3	93	3	25	70-130	
trans-1,2-Dichloroethene	100	93.4	93	4	25	70-130	
trans-1,3-Dichloropropene	100	85.9	86	7	25	70-130	
Trichloroethene	100	95.7	96	3	25	70-130	
Trichlorofluoromethane	100	111	111	6	25	70-130	
Vinyl chloride	100	106	106	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 3/26/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44527.D

Lab ID: LCS 360-48289/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	4940	99	70-130	
1,1,1,2-Tetrachloroethane	5000	4950	99	70-130	
1,1,2,2-Tetrachloroethane	5000	4290	86	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	5790	116	70-130	
1,1,2-Trichloroethane	5000	4000	80	70-130	
1,1-Dichloroethane	5000	5040	101	70-130	
1,1-Dichloroethene	5000	5130	103	70-130	
1,1-Dichloropropene	5000	5040	101	70-130	
1,2,3-Trichlorobenzene	5000	4710	94	70-130	
1,2,3-Trichloropropane	5000	4820	96	70-130	
1,2,4-Trichlorobenzene	5000	4840	97	70-130	
1,2,4-Trimethylbenzene	5000	4950	99	70-130	
1,2-Dibromo-3-Chloropropane	5000	4310	86	70-130	
Ethylene Dibromide	5000	3960	79	70-130	
1,2-Dichlorobenzene	5000	4640	93	70-130	
1,2-Dichloroethane	5000	4430	89	70-130	
1,2-Dichloropropane	5000	5310	106	70-130	
1,3,5-Trimethylbenzene	5000	5250	105	70-130	
1,3-Dichlorobenzene	5000	4900	98	70-130	
1,3-Dichloropropane	5000	3970	79	70-130	
1,4-Dichlorobenzene	5000	4740	95	70-130	
1,4-Dioxane	50000	41600	83	70-130	
2,2-Dichloropropane	5000	5400	108	70-130	
2,4,4-Trimethyl-1-pentene	5000	6690	134	70-130	*
2,4,4-Trimethyl-2-pentene	5000	6250	125	70-130	
2-Chlorotoluene	5000	5000	100	70-130	
2-Hexanone	50000	35500	71	70-130	
4-Chlorotoluene	5000	5050	101	70-130	
Acetone	50000	24500	49	70-130	*
Benzene	5000	4530	91	70-130	
Bromobenzene	5000	4810	96	70-130	
Chlorobromomethane	5000	4220	84	70-130	
Dichlorobromomethane	5000	4430	89	70-130	
Bromoform	5000	4300	86	70-130	
Bromomethane	5000	5310	106	70-130	
n-Butylbenzene	5000	5410	108	70-130	
Carbon disulfide	5000	4730	95	70-130	
Carbon tetrachloride	5000	5120	102	70-130	
Chlorobenzene	5000	4760	95	70-130	
Chloroethane	5000	4020	80	70-130	

no hits in Sample

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

UJ Qual All associated

TC 3/26/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44527.D

Lab ID: LCS 360-48289/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	5000	5000	100	70-130	
Chloromethane	5000	5100	102	70-130	
cis-1,2-Dichloroethene	5000	4680	94	70-130	
cis-1,3-Dichloropropene	5000	4190	84	70-130	
Cyclohexane	5000	5610	112	70-130	
Chlorodibromomethane	5000	4110	82	70-130	
Dibromomethane	5000	4230	85	70-130	
Dichlorodifluoromethane	5000	3620	72	70-130	
Ethyl ether	5000	3930	79	70-130	
Isopropyl ether	5000	4410	88	70-130	
Tert-butyl ethyl ether	5000	4790	96	70-130	
Ethylbenzene	5000	5280	106	70-130	
Hexachlorobutadiene	5000	5060	101	70-130	
Isopropylbenzene	5000	5380	108	70-130	
Methyl acetate	50000	40400	81	70-130	
2-Butanone (MEK)	50000	39000	78	70-130	
4-Methyl-2-pentanone (MIBK)	50000	42700	85	70-130	
Methyl tert-butyl ether	5000	4470	89	70-130	
Methylcyclohexane	5000	5730	115	70-130	
Methylene Chloride	5000	6190	124	70-130	
m-Xylene & p-Xylene	10000	10600	106	70-130	
Naphthalene	5000	4300	86	70-130	
N-Propylbenzene	5000	5330	107	70-130	
o-Xylene	5000	4980	100	70-130	
4-Isopropyltoluene	5000	5620	112	70-130	
sec-Butylbenzene	5000	5470	109	70-130	
Styrene	5000	4660	93	70-130	
Tert-amyl methyl ether	5000	4690	94	70-130	
tert-Butylbenzene	5000	5590	112	70-130	
Tetrachloroethene	5000	4760	95	70-130	
Tetrahydrofuran	50000	45600	91	70-130	
Toluene	5000	4460	89	70-130	
trans-1,2-Dichloroethene	5000	4610	92	70-130	
trans-1,3-Dichloropropene	5000	4100	82	70-130	
Trichloroethene	5000	4700	94	70-130	
Trichlorofluoromethane	5000	5100	102	70-130	
Vinyl chloride	5000	5250	105	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 3/26/10

09/22/2009 ✓

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44528.D

Lab ID: LCSD 360-48289/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	5180	104	5	25	70-130	
1,1,1,2-Tetrachloroethane	5000	5500	110	10	25	70-130	
1,1,2,2-Tetrachloroethane	5000	4790	96	11	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	5890	118	2	25	70-130	
1,1,2-Trichloroethane	5000	4330	87	8	25	70-130	
1,1-Dichloroethane	5000	5490	110	9	25	70-130	
1,1-Dichloroethene	5000	5490	110	7	25	70-130	
1,1-Dichloropropene	5000	5380	108	7	25	70-130	
1,2,3-Trichlorobenzene	5000	5100	102	8	25	70-130	
1,2,3-Trichloropropane	5000	5240	105	8	25	70-130	
1,2,4-Trichlorobenzene	5000	5160	103	6	25	70-130	
1,2,4-Trimethylbenzene	5000	5420	108	9	25	70-130	
1,2-Dibromo-3-Chloropropane	5000	4810	96	11	25	70-130	
Ethylene Dibromide	5000	4280	86	8	25	70-130	
1,2-Dichlorobenzene	5000	5020	100	8	25	70-130	
1,2-Dichloroethane	5000	4800	96	8	25	70-130	
1,2-Dichloropropane	5000	5890	118	10	25	70-130	
1,3,5-Trimethylbenzene	5000	5690	114	8	25	70-130	
1,3-Dichlorobenzene	5000	5320	106	8	25	70-130	
1,3-Dichloropropane	5000	4370	87	10	25	70-130	
1,4-Dichlorobenzene	5000	5190	104	9	25	70-130	
1,4-Dioxane	50000	47200	94	13	25	70-130	
2,2-Dichloropropane	5000	5660	113	5	25	70-130	
2,4,4-Trimethyl-1-pentene	5000	6950	139	4	25	70-130	*
2,4,4-Trimethyl-2-pentene	5000	6290	126	1	25	70-130	
2-Chlorotoluene	5000	5450	109	9	25	70-130	
2-Hexanone	50000	38800	78	9	25	70-130	
4-Chlorotoluene	5000	5490	110	8	25	70-130	
Acetone	50000	28100	56	14	25	70-130	*
Benzene	5000	4890	98	8	25	70-130	
Bromobenzene	5000	5210	104	8	25	70-130	
Chlorobromomethane	5000	4630	93	9	25	70-130	
Dichlorobromomethane	5000	4870	97	9	25	70-130	
Bromoform	5000	4690	94	9	25	70-130	
Bromomethane	5000	5540	111	4	25	70-130	
n-Butylbenzene	5000	5780	116	7	25	70-130	
Carbon disulfide	5000	4970	99	5	25	70-130	
Carbon tetrachloride	5000	5690	114	11	25	70-130	
Chlorobenzene	5000	5180	104	8	25	70-130	
Chloroethane	5000	4250	85	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
3/26/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44528.D

Lab ID: LCSD 360-48289/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	5000	5280	106	5	25	70-130	
Chloromethane	5000	5360	107	5	25	70-130	
cis-1,2-Dichloroethene	5000	5070	101	8	25	70-130	
cis-1,3-Dichloropropene	5000	4500	90	7	25	70-130	
Cyclohexane	5000	5740	115	2	25	70-130	
Chlorodibromomethane	5000	4410	88	7	25	70-130	
Dibromomethane	5000	4540	91	7	25	70-130	
Dichlorodifluoromethane	5000	3830	77	6	25	70-130	
Ethyl ether	5000	4410	88	11	25	70-130	
Isopropyl ether	5000	4810	96	9	25	70-130	
Tert-butyl ethyl ether	5000	5240	105	9	25	70-130	
Ethylbenzene	5000	5780	116	9	25	70-130	
Hexachlorobutadiene	5000	5410	108	7	25	70-130	
Isopropylbenzene	5000	5800	116	7	25	70-130	
Methyl acetate	50000	45400	91	12	25	70-130	
2-Butanone (MEK)	50000	42300	85	8	25	70-130	
4-Methyl-2-pentanone (MIBK)	50000	48300	97	12	25	70-130	
Methyl tert-butyl ether	5000	4950	99	10	25	70-130	
Methylcyclohexane	5000	5800	116	1	25	70-130	
Methylene Chloride	5000	6710	134	8	25	70-130	*
m-Xylene & p-Xylene	10000	11600	116	9	25	70-130	
Naphthalene	5000	4700	94	9	25	70-130	
N-Propylbenzene	5000	5790	116	8	25	70-130	
o-Xylene	5000	5360	107	7	25	70-130	
4-Isopropyltoluene	5000	5960	119	6	25	70-130	
sec-Butylbenzene	5000	5930	119	8	25	70-130	
Styrene	5000	5170	103	10	25	70-130	
Tert-amyl methyl ether	5000	5110	102	8	25	70-130	
tert-Butylbenzene	5000	6090	122	9	25	70-130	
Tetrachloroethene	5000	5120	102	7	25	70-130	
Tetrahydrofuran	50000	49600	99	8	25	70-130	
Toluene	5000	4870	97	9	25	70-130	
trans-1,2-Dichloroethene	5000	4970	99	7	25	70-130	
trans-1,3-Dichloropropene	5000	4360	87	6	25	70-130	
Trichloroethene	5000	5130	103	9	25	70-130	
Trichlorofluoromethane	5000	5450	109	7	25	70-130	
Vinyl chloride	5000	5620	112	7	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 3/24/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44627.D

Lab ID: LCS 360-48405/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	88.7	89	70-130	
1,1,1,2-Tetrachloroethane	100	103	103	70-130	
1,1,2,2-Tetrachloroethane	100	101	101	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	82.5	82	70-130	
1,1,2-Trichloroethane	100	84.8	85	70-130	
1,1-Dichloroethane	100	107	107	70-130	
1,1-Dichloroethene	100	93.3	93	70-130	
1,1-Dichloropropene	100	96.3	96	70-130	
1,2,3-Trichlorobenzene	100	108	108	70-130	
1,2,3-Trichloropropane	100	100	100	70-130	
1,2,4-Trichlorobenzene	100	106	106	70-130	
1,2,4-Trimethylbenzene	100	99.4	99	70-130	
1,2-Dibromo-3-Chloropropane	100	97.8	98	70-130	
Ethylene Dibromide	100	79.3	79	70-130	
1,2-Dichlorobenzene	100	100	100	70-130	
1,2-Dichloroethane	100	95.9	96	70-130	
1,2-Dichloropropane	100	116	116	70-130	
1,3,5-Trimethylbenzene	100	104	104	70-130	
1,3-Dichlorobenzene	100	95.8	96	70-130	
1,3-Dichloropropane	100	86.1	86	70-130	
1,4-Dichlorobenzene	100	98.3	98	70-130	
1,4-Dioxane	1000	956	96	70-130	
2,2-Dichloropropane	100	81.8	82	70-130	
2,4,4-Trimethyl-1-pentene	100	104	104	70-130	
2,4,4-Trimethyl-2-pentene	100	93.0	93	70-130	
2-Chlorotoluene	100	103	103	70-130	
2-Hexanone	1000	745	75	70-130	
4-Chlorotoluene	100	99.9	100	70-130	
Acetone	1000	617	62	70-130	*
Benzene	100	94.9	95	70-130	
Bromobenzene	100	99.9	100	70-130	
Chlorobromomethane	100	87.1	87	70-130	
Dichlorobromomethane	100	93.9	94	70-130	
Bromoform	100	89.1	89	70-130	
Bromomethane	100	95.3	95	70-130	
n-Butylbenzene	100	108	108	70-130	
Carbon disulfide	100	94.6	95	70-130	
Carbon tetrachloride	100	92.5	92	70-130	
Chlorobenzene	100	98.2	98	70-130	
Chloroethane	100	91.7	92	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

* UJ Qual associated

TC 3/26/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44627.D

Lab ID: LCS 360-48405/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	101	101	70-130	
Chloromethane	100	89.4	89	70-130	
cis-1,2-Dichloroethene	100	98.6	99	70-130	
cis-1,3-Dichloropropene	100	87.5	87	70-130	
Cyclohexane	100	89.5	89	70-130	
Chlorodibromomethane	100	80.1	80	70-130	
Dibromomethane	100	91.0	91	70-130	
Dichlorodifluoromethane	100	47.3	47	70-130	*
Ethyl ether	100	96.9	97	70-130	
Isopropyl ether	100	95.0	95	70-130	
Tert-butyl ethyl ether	100	102	102	70-130	
Ethylbenzene	100	109	109	70-130	
Hexachlorobutadiene	100	101	101	70-130	
Isopropylbenzene	100	105	105	70-130	
Methyl acetate	1000	963	96	70-130	
2-Butanone (MEK)	1000	851	85	70-130	
4-Methyl-2-pentanone (MIBK)	1000	926	93	70-130	
Methyl tert-butyl ether	100	96.8	97	70-130	
Methylcyclohexane	100	88.0	88	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	219	109	70-130	
Naphthalene	100	100	100	70-130	
N-Propylbenzene	100	104	104	70-130	
o-Xylene	100	103	103	70-130	
4-Isopropyltoluene	100	106	106	70-130	
sec-Butylbenzene	100	104	104	70-130	
Styrene	100	94.8	95	70-130	
Tert-amyl methyl ether	100	99.6	100	70-130	
tert-Butylbenzene	100	107	107	70-130	
Tetrachloroethene	100	84.3	84	70-130	
Tetrahydrofuran	1000	1040	104	70-130	
Toluene	100	89.9	90	70-130	
trans-1,2-Dichloroethene	100	92.0	92	70-130	
trans-1,3-Dichloropropene	100	83.8	84	70-130	
Trichloroethene	100	96.0	96	70-130	
Trichlorofluoromethane	100	78.0	78	70-130	
Vinyl chloride	100	85.5	85	70-130	

* UV Qual Associated TC 3/26/10

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44628.D

Lab ID: LCSD 360-48405/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	88.6	89	0	25	70-130	
1,1,1,2-Tetrachloroethane	100	102	102	1	25	70-130	
1,1,2,2-Tetrachloroethane	100	104	104	3	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	81.9	82	1	25	70-130	
1,1,2-Trichloroethane	100	88.0	88	4	25	70-130	
1,1-Dichloroethane	100	108	108	0	25	70-130	
1,1-Dichloroethene	100	94.1	94	1	25	70-130	
1,1-Dichloropropene	100	97.6	98	1	25	70-130	
1,2,3-Trichlorobenzene	100	102	102	5	25	70-130	
1,2,3-Trichloropropane	100	103	103	2	25	70-130	
1,2,4-Trichlorobenzene	100	102	102	4	25	70-130	
1,2,4-Trimethylbenzene	100	98.6	99	1	25	70-130	
1,2-Dibromo-3-Chloropropane	100	96.2	96	2	25	70-130	
Ethylene Dibromide	100	84.1	84	6	25	70-130	
1,2-Dichlorobenzene	100	99.7	100	1	25	70-130	
1,2-Dichloroethane	100	96.7	97	1	25	70-130	
1,2-Dichloropropane	100	120	120	3	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	2	25	70-130	
1,3-Dichlorobenzene	100	94.4	94	1	25	70-130	
1,3-Dichloropropane	100	88.1	88	2	25	70-130	
1,4-Dichlorobenzene	100	98.3	98	0	25	70-130	
1,4-Dioxane	1000	1050	105	9	25	70-130	
2,2-Dichloropropane	100	82.9	83	1	25	70-130	
2,4,4-Trimethyl-1-pentene	100	105	105	2	25	70-130	
2,4,4-Trimethyl-2-pentene	100	91.1	91	2	25	70-130	
2-Chlorotoluene	100	101	101	2	25	70-130	
2-Hexanone	1000	794	79	6	25	70-130	
4-Chlorotoluene	100	101	101	1	25	70-130	
Acetone	1000	721	72	16	25	70-130	
Benzene	100	96.1	96	1	25	70-130	
Bromobenzene	100	101	101	1	25	70-130	
Chlorobromomethane	100	88.8	89	2	25	70-130	
Dichlorobromomethane	100	94.9	95	1	25	70-130	
Bromoform	100	94.6	95	6	25	70-130	
Bromomethane	100	97.3	97	2	25	70-130	
n-Butylbenzene	100	106	106	2	25	70-130	
Carbon disulfide	100	94.6	95	0	25	70-130	
Carbon tetrachloride	100	92.1	92	0	25	70-130	
Chlorobenzene	100	98.3	98	0	25	70-130	
Chloroethane	100	92.9	93	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 3/26/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Matrix: Solid Level: Low Lab File ID: V44628.D

Lab ID: LCSD 360-48405/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	101	101	0	25	70-130	
Chloromethane	100	91.5	92	2	25	70-130	
cis-1,2-Dichloroethene	100	100	100	2	25	70-130	
cis-1,3-Dichloropropene	100	88.5	88	1	25	70-130	
Cyclohexane	100	90.0	90	1	25	70-130	
Chlorodibromomethane	100	84.0	84	5	25	70-130	
Dibromomethane	100	92.3	92	1	25	70-130	
Dichlorodifluoromethane	100	48.8	49	3	25	70-130	*
Ethyl ether	100	98.8	99	2	25	70-130	
Isopropyl ether	100	97.3	97	2	25	70-130	
Tert-butyl ethyl ether	100	106	106	4	25	70-130	
Ethylbenzene	100	107	107	2	25	70-130	
Hexachlorobutadiene	100	97.1	97	4	25	70-130	
Isopropylbenzene	100	104	104	1	25	70-130	
Methyl acetate	1000	983	98	2	25	70-130	
2-Butanone (MEK)	1000	889	89	4	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	973	97	5	25	70-130	
Methyl tert-butyl ether	100	101	101	4	25	70-130	
Methylcyclohexane	100	88.5	89	1	25	70-130	
Methylene Chloride	100	104	104	0	25	70-130	
m-Xylene & p-Xylene	200	215	108	2	25	70-130	
Naphthalene	100	97.1	97	3	25	70-130	
N-Propylbenzene	100	103	103	1	25	70-130	
o-Xylene	100	101	101	2	25	70-130	
4-Isopropyltoluene	100	103	103	3	25	70-130	
sec-Butylbenzene	100	102	102	2	25	70-130	
Styrene	100	95.0	95	0	25	70-130	
Tert-amyl methyl ether	100	102	102	3	25	70-130	
tert-Butylbenzene	100	105	105	2	25	70-130	
Tetrachloroethene	100	86.2	86	2	25	70-130	
Tetrahydrofuran	1000	1090	109	5	25	70-130	
Toluene	100	90.7	91	1	25	70-130	
trans-1,2-Dichloroethene	100	92.7	93	1	25	70-130	
trans-1,3-Dichloropropene	100	84.9	85	1	25	70-130	
Trichloroethene	100	95.6	96	0	25	70-130	
Trichlorofluoromethane	100	79.5	80	2	25	70-130	
Vinyl chloride	100	88.0	88	3	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 3/26/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Sample No.: CCVIS 360-48228/2 Date Analyzed: 08/26/2009 17:07

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06422.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		27869	6.15	568644	6.46	284222	9.52
UPPER LIMIT		55738	6.65	1137288	6.96	568444	10.02
LOWER LIMIT		13935	5.65	284322	5.96	142111	9.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48228/3		28249	6.15	595098	6.46	284224	9.52
LCSD 360-48228/4		27129	6.15	571496	6.46	278232	9.52
MB 360-48228/6		24791	6.15	481829	6.46	225631	9.52
360-24244-14	OC-EBK-003	24912	6.15	455579	6.46	217822	9.52

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

09/22/2009

TC 3/26/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Sample No.: CCVIS 360-48228/2 Date Analyzed: 08/26/2009 17:07

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06422.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		124467	11.49				
UPPER LIMIT		248934	11.99				
LOWER LIMIT		62234	10.99				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48228/3		120756	11.49				
LCSD 360-48228/4		121040	11.49				
MB 360-48228/6		82171	11.49				
360-24244-14	OC-EBK-003	75330	11.49				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 3/26/10

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Sample No.: CCVIS 360-48231/2 Date Analyzed: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44503.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		19402	5.68	442711	5.90	266996	8.35
UPPER LIMIT		38804	6.18	885422	6.40	533992	8.85
LOWER LIMIT		9701	5.18	221356	5.40	133498	7.85
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48229/1-A		21631	5.68	447786	5.90	272552	8.35
LCSD 360-48229/2-A		20345	5.68	464081	5.90	284765	8.35
MB 360-48229/3-A		17128	5.67	400582	5.90	245529	8.34
360-24244-6	OC-SB-443-6.0/8.0-XXX	20024	5.67	438887	5.90	281121	8.34
360-24244-9	OC-SB-445-8.0/10-XXX	19952	5.68	428944	5.90	263006	8.34
360-24244-12	OC-SB-437-5.0/7.0-XXX	20919	5.68	439126	5.90	274445	8.34

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 3/26/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Sample No.: CCVIS 360-48231/2 Date Analyzed: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44503.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		141134	10.16				
UPPER LIMIT		282268	10.66				
LOWER LIMIT		70567	9.66				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48229/1-A		143776	10.16				
LCSD 360-48229/2-A		150803	10.16				
MB 360-48229/3-A		133434	10.15				
360-24244-6	OC-SB-443-6.0/8.0-XXX	145093	10.15				
360-24244-9	OC-SB-445-8.0/10-XXX	147746	10.15				
360-24244-12	OC-SB-437-5.0/7.0-XXX	151444	10.16				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/26/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Sample No.: CCVIS 360-48296/2 Date Analyzed: 08/27/2009 17:26

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44526.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20699	5.67	452998	5.90	284315	8.34
UPPER LIMIT		41398	6.17	905996	6.40	568630	8.84
LOWER LIMIT		10350	5.17	226499	5.40	142158	7.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48289/1-A		21258	5.67	468086	5.89	288080	8.34
LCSD 360-48289/2-A		19693	5.66	442536	5.89	269323	8.34
MB 360-48289/3-A		20294	5.66	441641	5.89	281012	8.33
360-24244-1	OC-SB-432-0.0/1.0-XXX	18358	5.66	395029	5.88	244300	8.33
360-24244-2	OC-SB-432-14/16-XXX	18948	5.65	392739	5.88	222038	8.33
360-24244-3	OC-SB-432-5.0/7.0-XXX	18781	5.66	383279	5.88	234953	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 3/26/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Sample No.: CCVIS 360-48296/2 Date Analyzed: 08/27/2009 17:26

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44526.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		148825	10.15				
UPPER LIMIT		297650	10.65				
LOWER LIMIT		74413	9.65				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48289/1-A		155421	10.15				
LCSD 360-48289/2-A		145752	10.15				
MB 360-48289/3-A		153148	10.15				
360-24244-1	OC-SB-432-0.0/1.0-XXX	135169	10.14				
360-24244-2	OC-SB-432-14/16-XXX	121510	10.14				
360-24244-3	OC-SB-432-5.0/7.0-XXX	110953	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 3/26/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Sample No.: CCVIS 360-48407/2 Date Analyzed: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44626.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22012	5.65	503638	5.88	293455	8.32
UPPER LIMIT		44024	6.15	1007276	6.38	586910	8.82
LOWER LIMIT		11006	5.15	251819	5.38	146728	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48405/1-A		23323	5.65	505359	5.88	285506	8.33
LCSD 360-48405/2-A		24645	5.65	518108	5.88	303717	8.32
MB 360-48405/3-A		18902	5.65	416254	5.88	243617	8.32
360-24244-4	OC-SB-443-0.0/1.0-XXX	20975	5.65	448336	5.88	260655	8.32
360-24244-7	OC-SB-445-0.0/1.0-XXX	20037	5.65	439605	5.88	260552	8.32
360-24244-10	OC-SB-437-0.0/1.0-XXX	21250	5.65	460174	5.88	268709	8.32
360-24244-13	OC-TBK-005	20422	5.65	419118	5.87	249637	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 3/26/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Sample No.: CCVIS 360-48407/2 Date Analyzed: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44626.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		152860	10.14				
UPPER LIMIT		305720	10.64				
LOWER LIMIT		76430	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48405/1-A		148470	10.14				
LCSD 360-48405/2-A		155061	10.14				
MB 360-48405/3-A		135048	10.14				
360-24244-4	OC-SB-443-0.0/1.0-XXX	138675	10.14				
360-24244-7	OC-SB-445-0.0/1.0-XXX	140078	10.13				
360-24244-10	OC-SB-437-0.0/1.0-XXX	141435	10.13				
360-24244-13	OC-TBK-005	137151	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 3/26/10

FORM VIII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Lin1		0.3185		80.5	100	-19.5	30.0	
Chloromethane	Lin		0.6163	0.1000	105	100	5.0	30.0	
Vinyl chloride	Lin		0.4966		114	100	14.2	30.0	
Bromomethane	Lin		0.3408		119	100	19.2	30.0	
Chloroethane	Lin		0.2747		116	100	16.2	30.0	
Trichlorofluoromethane	Lin		0.5399		123	100	22.5	30.0	
Ethyl ether	Ave	0.1998	0.1939		97.1	100	-2.9	30.0	
1,1-Dichloroethene	Lin		0.3745		118	100	18.5	30.0	
Carbon disulfide	Ave	1.172	1.267		108	100	8.1	30.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2479		123	100	23.1	30.0	
Acrolein	Lin1		0.5439		5400	5000	8.1	30.0	
Methylene Chloride	Lin		0.4442		135	100	35.2*	30.0	*
Acetone	Qua		0.0317		539	1000	-46.1*	30.0	**
trans-1,2-Dichloroethene	Ave	0.5280	0.5291		100	100	0.2	30.0	
Methyl acetate	Lin		0.1085		771	1000	-22.9	30.0	
Methyl tert-butyl ether	Lin		0.5479		100	100	0.2	30.0	
2-Methyl-2-propanol	Lin1		0.2589		1020	1000	1.8	30.0	
Isopropyl ether	Ave	1.438	1.368		95.1	100	-4.9	30.0	
1,1-Dichloroethane	Lin		0.6061	0.1000	111	100	10.8	30.0	
Acrylonitrile	Lin2		0.0506		98.6	100	-1.4	30.0	
Tert-butyl ethyl ether	Lin		0.8849		105	100	4.9	30.0	
Vinyl acetate	Lin1		0.3114		1000	1000	0.1	30.0	
cis-1,2-Dichloroethene	Ave	0.4581	0.4686		102	100	2.3	30.0	
2,2-Dichloropropane	Qua		0.4611		113	100	12.6	30.0	
Chlorobromomethane	Ave	0.1791	0.1703		95.1	100	-4.9	30.0	
Cyclohexane	Ave	0.6383	0.6885		108	100	7.9	30.0	
Chloroform	Lin		0.5459		106	100	6.2	30.0	
Carbon tetrachloride	Ave	0.3593	0.4289		119	100	19.3	30.0	
Tetrahydrofuran	Lin1		0.0493		1020	1000	1.7	30.0	
1,1,1-Trichloroethane	Ave	0.4934	0.5271		107	100	6.8	30.0	
2-Butanone (MEK)	Ave	0.0653	0.0531		813	1000	-18.7	30.0	
1,1-Dichloropropene	Ave	0.3849	0.4270		111	100	10.9	30.0	
Benzene	Ave	1.175	1.190		101	100	1.3	30.0	
Tert-amyl methyl ether	Lin		0.6404		103	100	3.5	30.0	
1,2-Dichloroethane	Ave	0.2398	0.2374		99.0	100	-1.0	30.0	
2,4,4-Trimethyl-1-pentene	Lin1		0.3042		136	100	36.3*	30.0	*
Methylcyclohexane	Ave	0.5730	0.6256		109	100	9.2	30.0	
Trichloroethene	Ave	0.2943	0.3095		105	100	5.2	30.0	
2,4,4-Trimethyl-2-pentene	Lin1		0.2507		130	100	29.7	30.0	
Dibromomethane	Ave	0.1115	0.1095		98.2	100	-1.8	30.0	

* J Qual hits only
** UJ/J Results

TC 3/26/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2172		120	100	20.1	30.0
Dichlorobromomethane	Ave	0.2830	0.2959		105	100	4.6	30.0
Methyl methacrylate	Ave	0.0593	0.0596		100	100	0.4	30.0
1,4-Dioxane	Ave	0.0211	0.0238		1130	1000	12.9	30.0
2-Chloroethyl vinyl ether	Lin1		0.0457		1040	1000	4.0	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.3015		102	100	1.7	30.0
Toluene	Ave	0.6775	0.7042		104	100	3.9	30.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1246		924	1000	-7.6	30.0
Tetrachloroethene	Ave	0.2090	0.2387		114	100	14.2	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.2257		106	100	6.3	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.1083		99.4	100	-0.6	30.0
Chlorodibromomethane	Ave	0.1624	0.1640		101	100	1.0	30.0
1,3-Dichloropropane	Ave	0.2134	0.2176		102	100	2.0	30.0
Ethylene Dibromide	Ave	0.1323	0.1370		104	100	3.6	30.0
2-Hexanone	Ave	0.0865	0.0728		842	1000	-15.8	30.0
Chlorobenzene	Ave	1.083	1.142	0.3000	106	100	5.5	30.0
Ethylbenzene	Lin		2.057		112	100	12.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3851		101	100	1.0	30.0
m-Xylene & p-Xylene	Lin1		1.586		227	200	13.4	30.0
o-Xylene	Ave	1.735	1.765		102	100	1.7	30.0
Styrene	Ave	1.258	1.318		105	100	4.8	30.0
Bromoform	Ave	0.2952	0.3166	0.1000	107	100	7.3	30.0
Isopropylbenzene	Ave	2.247	2.440		109	100	8.6	30.0
Bromobenzene	Ave	0.7726	0.7757		100	100	0.4	30.0
N-Propylbenzene	Ave	2.529	2.794		110	100	10.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5123	0.3000	99.3	100	-0.7	30.0
2-Chlorotoluene	Ave	1.717	1.772		103	100	3.2	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.983		106	100	5.5	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0707		103	100	3.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0702		96.7	100	-3.3	30.0
4-Chlorotoluene	Ave	1.492	1.571		105	100	5.3	30.0
tert-Butylbenzene	Ave	1.551	1.727		111	100	11.3	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.952		100	100	0.0	30.0
sec-Butylbenzene	Ave	2.541	2.791		110	100	9.9	30.0
4-Isopropyltoluene	Ave	2.050	2.298		112	100	12.1	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9764		99.5	100	-0.5	30.0
1,4-Dichlorobenzene	Ave	1.821	1.930		106	100	6.0	30.0
n-Butylbenzene	Ave	3.711	4.335		117	100	16.8	30.0
1,2-Dichlorobenzene	Ave	1.574	1.619		103	100	2.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0817		99.0	100	-1.0	30.0
Hexachlorobutadiene	Ave	0.5157	0.5799		112	100	12.4	30.0

TC
3/26/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.146		107	100	6.6	30.0
Naphthalene	Ave	1.428	1.359		95.2	100	-4.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.8481		105	100	5.0	30.0
Dibromofluoromethane	Ave	0.2595	0.2484		95.7	100	-4.3	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.9048		101	100	1.4	30.0
4-Bromofluorobenzene	Ave	0.5061	0.4900		96.8	100	-3.2	30.0

TC
3/22/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Lin1		0.4755		24.2	20.0	21.2	30.0	
Chloromethane	Lin		0.6337	0.1000	21.7	20.0	8.3	30.0	
Vinyl chloride	Lin		0.5083		23.4	20.0	17.2	20.0	
Bromomethane	Lin		0.3189		22.1	20.0	10.7	30.0	
Chloroethane	Lin		0.2750		23.3	20.0	16.3	30.0	
Trichlorofluoromethane	Lin		0.5150		23.3	20.0	16.5	30.0	
Ethyl ether	Ave	0.1998	0.1719		17.2	20.0	-14.0	30.0	
1,1-Dichloroethene	Lin		0.3611		22.8	20.0	13.9	20.0	
Carbon disulfide	Ave	1.172	1.201		20.5	20.0	2.4	30.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2408		23.9	20.0	19.3	30.0	
Acrolein	Lin1		0.5343		1060	1000	6.1	30.0	
Methylene Chloride	Lin		0.4088		24.6	20.0	23.1	30.0	
Acetone	Qua		0.0364		130	200	-35.2*	30.0	*
trans-1,2-Dichloroethene	Ave	0.5280	0.5120		19.4	20.0	-3.0	30.0	
Methyl acetate	Lin		0.0991		139	200	-30.4*	30.0	*
Methyl tert-butyl ether	Lin		0.5152		18.8	20.0	-6.2	30.0	
2-Methyl-2-propanol	Lin1		0.2364		186	200	-7.1	30.0	
Isopropyl ether	Ave	1.438	1.327		18.4	20.0	-7.8	30.0	
1,1-Dichloroethane	Lin		0.5648	0.1000	20.6	20.0	2.8	30.0	
Acrylonitrile	Lin2		0.0457		17.8	20.0	-11.1	30.0	
Tert-butyl ethyl ether	Lin		0.8428		19.9	20.0	-0.5	30.0	
Vinyl acetate	Lin1		0.3408		219	200	9.5	30.0	
cis-1,2-Dichloroethene	Ave	0.4581	0.4346		19.0	20.0	-5.1	30.0	
2,2-Dichloropropane	Qua		0.4508		22.0	20.0	9.8	30.0	
Cyclohexane	Ave	0.6383	0.7200		22.6	20.0	12.8	30.0	
Chlorobromomethane	Ave	0.1791	0.1542		17.2	20.0	-13.9	30.0	
Chloroform	Lin		0.4979		19.3	20.0	-3.5	20.0	
Carbon tetrachloride	Ave	0.3593	0.4011		22.3	20.0	11.6	30.0	
Tetrahydrofuran	Lin1		0.0434		179	200	-10.6	30.0	
1,1,1-Trichloroethane	Ave	0.4934	0.5014		20.3	20.0	1.6	30.0	
2-Butanone (MEK)	Ave	0.0653	0.0541		166	200	-17.2	30.0	
1,1-Dichloropropene	Ave	0.3849	0.4021		20.9	20.0	4.5	30.0	
Benzene	Ave	1.175	1.143		19.5	20.0	-2.7	30.0	
Tert-amyl methyl ether	Lin		0.6036		19.4	20.0	-2.8	30.0	
1,2-Dichloroethane	Ave	0.2398	0.2175		18.1	20.0	-9.3	30.0	
2,4,4-Trimethyl-1-pentene	Lin1		0.2900		26.0	20.0	29.8	30.0	
Methylcyclohexane	Ave	0.5730	0.6582		23.0	20.0	14.9	30.0	
Trichloroethene	Ave	0.2943	0.2899		19.7	20.0	-1.5	30.0	
2,4,4-Trimethyl-2-pentene	Lin1		0.2346		24.3	20.0	21.4	30.0	
Dibromomethane	Ave	0.1115	0.0971		17.4	20.0	-12.9	30.0	

FORM VII 8260B

UJ all Associated TC 3/6/10

09/22/2009

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2003		22.0	20.0	9.8	20.0
Dichlorobromomethane	Ave	0.2830	0.2588		18.3	20.0	-8.6	30.0
Methyl methacrylate	Ave	0.0593	0.0499		16.8	20.0	-15.8	30.0
1,4-Dioxane	Ave	0.0211	0.0214		203	200	1.5	30.0
2-Chloroethyl vinyl ether	Lin1		0.0409		186	200	-6.9	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2665		18.0	20.0	-10.2	30.0
Toluene	Ave	0.6775	0.6653		19.6	20.0	-1.8	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1253		186	200	-7.0	30.0
Tetrachloroethene	Ave	0.2090	0.2061		19.7	20.0	-1.4	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1800		17.0	20.0	-15.2	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0918		16.9	20.0	-15.7	30.0
Chlorodibromomethane	Ave	0.1624	0.1429		17.6	20.0	-12.0	30.0
1,3-Dichloropropane	Ave	0.2134	0.1800		16.9	20.0	-15.7	30.0
Ethylene Dibromide	Ave	0.1323	0.1103		16.7	20.0	-16.6	30.0
2-Hexanone	Ave	0.0865	0.0668		155	200	-22.7	30.0
Chlorobenzene	Ave	1.083	1.084	0.3000	20.0	20.0	0.1	30.0
Ethylbenzene	Lin		2.128		23.3	20.0	16.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3981		20.9	20.0	4.4	30.0
m-Xylene & p-Xylene	Lin1		1.636		46.8	40.0	17.0	30.0
o-Xylene	Ave	1.735	1.860		21.4	20.0	7.2	30.0
Styrene	Ave	1.258	1.277		20.3	20.0	1.5	30.0
Bromoform	Ave	0.2952	0.2639	0.1000	17.9	20.0	-10.6	20.0
Isopropylbenzene	Ave	2.247	2.540		22.6	20.0	13.1	30.0
Bromobenzene	Ave	0.7726	0.7796		20.2	20.0	0.9	30.0
N-Propylbenzene	Ave	2.529	2.852		22.6	20.0	12.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.4897	0.3000	19.0	20.0	-5.1	30.0
2-Chlorotoluene	Ave	1.717	1.831		21.3	20.0	6.6	30.0
1,3,5-Trimethylbenzene	Ave	1.879	2.070		22.0	20.0	10.2	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0632		18.5	20.0	-7.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0648		17.8	20.0	-10.8	30.0
4-Chlorotoluene	Ave	1.492	1.554		20.8	20.0	4.1	30.0
tert-Butylbenzene	Ave	1.551	1.832		23.6	20.0	18.1	30.0
1,2,4-Trimethylbenzene	Ave	1.951	2.132		21.8	20.0	9.2	30.0
sec-Butylbenzene	Ave	2.541	2.935		23.1	20.0	15.5	30.0
4-Isopropyltoluene	Ave	2.050	2.355		23.0	20.0	14.9	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9928		20.2	20.0	1.2	30.0
1,4-Dichlorobenzene	Ave	1.821	1.802		19.8	20.0	-1.0	30.0
n-Butylbenzene	Ave	3.711	4.252		22.9	20.0	14.6	30.0
1,2-Dichlorobenzene	Ave	1.574	1.566		19.9	20.0	-0.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0736		17.8	20.0	-10.8	30.0
Hexachlorobutadiene	Ave	0.5157	0.5656		21.9	20.0	9.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.057		19.7	20.0	-1.7	30.0
Naphthalene	Ave	1.428	1.340		18.8	20.0	-6.1	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7929		19.6	20.0	-1.8	30.0
Dibromofluoromethane	Ave	0.2595	0.2471		19.0	20.0	-4.8	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8686		19.5	20.0	-2.7	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5114		20.2	20.0	1.1	30.0

TC 3/26/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: CCVIS 360-48296/2 Calibration Date: 08/27/2009 17:26

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4554		23.2	20.0	16.0	30.0
Chloromethane	Lin		0.6431	0.1000	22.0	20.0	10.0	30.0
Vinyl chloride	Lin		0.4945		22.7	20.0	13.7	20.0
Bromomethane	Lin		0.3306		23.1	20.0	15.3	30.0
Chloroethane	Lin		0.2747		23.2	20.0	16.2	30.0
Trichlorofluoromethane	Lin		0.5253		23.8	20.0	19.0	30.0
Ethyl ether	Ave	0.1998	0.1703		17.0	20.0	-14.8	30.0
1,1-Dichloroethene	Lin		0.3567		22.5	20.0	12.4	20.0
Carbon disulfide	Ave	1.172	1.174		20.0	20.0	0.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2404		23.8	20.0	19.1	30.0
Acrolein	Lin1		0.5262		1050	1000	4.5	30.0
Methylene Chloride	Lin		0.4212		25.5	20.0	27.3	30.0
Acetone	Qua		0.0424		158	200	-20.9	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5056		19.2	20.0	-4.2	30.0
Methyl acetate	Lin		0.0951		133	200	-33.5*	30.0
Methyl tert-butyl ether	Lin		0.5212		19.0	20.0	-5.0	30.0
2-Methyl-2-propanol	Lin1		0.2428		191	200	-4.6	30.0
Isopropyl ether	Ave	1.438	1.320		18.4	20.0	-8.2	30.0
1,1-Dichloroethane	Lin		0.5672	0.1000	20.7	20.0	3.3	30.0
Acrylonitrile	Lin2		0.0450		17.5	20.0	-12.4	30.0
Tert-butyl ethyl ether	Lin		0.8421		19.9	20.0	-0.6	30.0
Vinyl acetate	Lin1		0.3484		224	200	11.9	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4364		19.1	20.0	-4.7	30.0
2,2-Dichloropropane	Qua		0.4450		21.6	20.0	8.2	30.0
Cyclohexane	Ave	0.6383	0.6889		21.6	20.0	7.9	30.0
Chlorobromomethane	Ave	0.1791	0.1585		17.7	20.0	-11.5	30.0
Chloroform	Lin		0.5136		19.9	20.0	-0.3	20.0
Carbon tetrachloride	Ave	0.3593	0.3884		21.6	20.0	8.1	30.0
Tetrahydrofuran	Lin1		0.0446		183	200	-8.3	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4931		20.0	20.0	0.1	30.0
2-Butanone (MEK)	Ave	0.0653	0.0554		169	200	-15.3	30.0
1,1-Dichloropropene	Ave	0.3849	0.3961		20.6	20.0	2.9	30.0
Benzene	Ave	1.175	1.107		18.8	20.0	-5.8	30.0
Tert-amyl methyl ether	Lin		0.6045		19.5	20.0	-2.6	30.0
1,2-Dichloroethane	Ave	0.2398	0.2160		18.0	20.0	-9.9	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2850		25.5	20.0	27.5	30.0
Methylcyclohexane	Ave	0.5730	0.6373		22.2	20.0	11.2	30.0
Trichloroethene	Ave	0.2943	0.2799		19.0	20.0	-4.9	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.2259		23.4	20.0	16.8	30.0
Dibromomethane	Ave	0.1115	0.0977		17.5	20.0	-12.4	30.0

TC 3/26/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: CCVIS 360-48296/2 Calibration Date: 08/27/2009 17:26

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2023		22.2	20.0	11.0	20.0
Dichlorobromomethane	Ave	0.2830	0.2615		18.5	20.0	-7.6	30.0
Methyl methacrylate	Ave	0.0593	0.0517		17.4	20.0	-12.9	30.0
1,4-Dioxane	Ave	0.0211	0.0198		188	200	-6.0	30.0
2-Chloroethyl vinyl ether	Lin1		0.0434		197	200	-1.3	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2685		18.1	20.0	-9.5	30.0
Toluene	Ave	0.6775	0.6458		19.1	20.0	-4.7	20.0
Tetrachloroethene	Ave	0.2090	0.2054		19.6	20.0	-1.8	30.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1273		189	200	-5.4	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1845		17.4	20.0	-13.1	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0941		17.3	20.0	-13.6	30.0
Chlorodibromomethane	Ave	0.1624	0.1452		17.9	20.0	-10.6	30.0
1,3-Dichloropropane	Ave	0.2134	0.1825		17.1	20.0	-14.5	30.0
Ethylene Dibromide	Ave	0.1323	0.1147		17.3	20.0	-13.3	30.0
2-Hexanone	Ave	0.0865	0.0692		160	200	-19.9	30.0
Chlorobenzene	Ave	1.083	1.049	0.3000	19.4	20.0	-3.1	30.0
Ethylbenzene	Lin		2.002		21.8	20.0	9.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3857		20.2	20.0	1.2	30.0
m-Xylene & p-Xylene	Lin1		1.544		44.1	40.0	10.3	30.0
o-Xylene	Ave	1.735	1.748		20.1	20.0	0.7	30.0
Styrene	Ave	1.258	1.204		19.1	20.0	-4.3	30.0
Bromoform	Ave	0.2952	0.2696	0.1000	18.3	20.0	-8.7	20.0
Isopropylbenzene	Ave	2.247	2.398		21.4	20.0	6.8	30.0
Bromobenzene	Ave	0.7726	0.7434		19.2	20.0	-3.8	30.0
N-Propylbenzene	Ave	2.529	2.670		21.1	20.0	5.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.4800	0.3000	18.6	20.0	-7.0	30.0
2-Chlorotoluene	Ave	1.717	1.713		20.0	20.0	-0.2	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.951		20.8	20.0	3.8	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0591		17.3	20.0	-13.5	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0693		19.1	20.0	-4.5	30.0
4-Chlorotoluene	Ave	1.492	1.478		19.8	20.0	-0.9	30.0
tert-Butylbenzene	Ave	1.551	1.709		22.0	20.0	10.2	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.980		20.3	20.0	1.5	30.0
sec-Butylbenzene	Ave	2.541	2.761		21.7	20.0	8.7	30.0
4-Isopropyltoluene	Ave	2.050	2.203		21.5	20.0	7.5	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9414		19.2	20.0	-4.1	30.0
1,4-Dichlorobenzene	Ave	1.821	1.744		19.2	20.0	-4.2	30.0
n-Butylbenzene	Ave	3.711	4.002		21.6	20.0	7.9	30.0
1,2-Dichlorobenzene	Ave	1.574	1.501		19.1	20.0	-4.6	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0739		17.9	20.0	-10.4	30.0
Hexachlorobutadiene	Ave	0.5157	0.5269		20.4	20.0	2.2	30.0

TC 3/26/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: CCVIS 360-48296/2 Calibration Date: 08/27/2009 17:26

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.013		18.8	20.0	-5.8	30.0
Naphthalene	Ave	1.428	1.287		18.0	20.0	-9.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7630		18.9	20.0	-5.5	30.0
Dibromofluoromethane	Ave	0.2595	0.2562		19.7	20.0	-1.3	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8787		19.7	20.0	-1.5	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5023		19.9	20.0	-0.7	30.0

TC 3/26/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: CCVIS 360-48407/2 Calibration Date: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44626.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.1778		8.82	20.0	-55.9*	30.0
Chloromethane	Lin		0.5834	0.1000	19.8	20.0	-1.1	30.0
Vinyl chloride	Lin		0.4346		19.7	20.0	-1.5	20.0
Bromomethane	Lin		0.2743		18.7	20.0	-6.6	30.0
Chloroethane	Lin		0.2402		19.9	20.0	-0.3	30.0
Trichlorofluoromethane	Lin		0.3846		17.0	20.0	-14.8	30.0
Ethyl ether	Ave	0.1998	0.1791		17.9	20.0	-10.4	30.0
1,1-Dichloroethene	Lin		0.3132		19.6	20.0	-2.2	20.0
Carbon disulfide	Ave	1.172	1.105		18.8	20.0	-5.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.1808		17.5	20.0	-12.4	30.0
Acrolein	Lin1		0.5376		1070	1000	6.8	30.0
Methylene Chloride	Lin		0.3597		21.3	20.0	6.5	30.0
Acetone	Qua		0.0387		140	200	-29.9	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5127		19.4	20.0	-2.9	30.0
Methyl acetate	Lin		0.1131		161	200	-19.4	30.0
Methyl tert-butyl ether	Lin		0.5337		19.5	20.0	-2.6	30.0
2-Methyl-2-propanol	Lin1		0.2427		191	200	-4.6	30.0
Isopropyl ether	Ave	1.438	1.400		19.5	20.0	-2.7	30.0
1,1-Dichloroethane	Lin		0.5967	0.1000	21.8	20.0	8.9	30.0
Acrylonitrile	Lin2		0.0492		19.1	20.0	-4.3	30.0
Tert-butyl ethyl ether	Lin		0.8692		20.6	20.0	2.9	30.0
Vinyl acetate	Lin1		0.3622		233	200	16.3	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4565		19.9	20.0	-0.4	30.0
2,2-Dichloropropane	Qua		0.3573		17.0	20.0	-15.2	30.0
Cyclohexane	Ave	0.6383	0.5715		17.9	20.0	-10.5	30.0
Chlorobromomethane	Ave	0.1791	0.1564		17.5	20.0	-12.7	30.0
Chloroform	Lin		0.5242		20.4	20.0	1.8	20.0
Carbon tetrachloride	Ave	0.3593	0.3383		18.8	20.0	-5.8	30.0
Tetrahydrofuran	Lin1		0.0485		200	200	0.1	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4574		18.5	20.0	-7.3	30.0
2-Butanone (MEK)	Ave	0.0653	0.0568		174	200	-13.1	30.0
1,1-Dichloropropene	Ave	0.3849	0.3919		20.4	20.0	1.8	30.0
Benzene	Ave	1.175	1.151		19.6	20.0	-2.0	30.0
Tert-amyl methyl ether	Lin		0.6290		20.3	20.0	1.5	30.0
1,2-Dichloroethane	Ave	0.2398	0.2236		18.6	20.0	-6.8	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2355		21.0	20.0	5.0	30.0
Methylcyclohexane	Ave	0.5730	0.5104		17.8	20.0	-10.9	30.0
Trichloroethene	Ave	0.2943	0.2901		19.7	20.0	-1.4	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1817		18.8	20.0	-6.2	30.0
Dibromomethane	Ave	0.1115	0.1020		18.3	20.0	-8.6	30.0

TC 3/26/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: CCVIS 360-48407/2 Calibration Date: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44626.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2201		24.4	20.0	21.9*	20.0
Dichlorobromomethane	Ave	0.2830	0.2684		19.0	20.0	-5.2	30.0
Methyl methacrylate	Ave	0.0593	0.0543		18.3	20.0	-8.5	30.0
1,4-Dioxane	Ave	0.0211	0.0216		205	200	2.6	30.0
2-Chloroethyl vinyl ether	Lin1		0.0397		181	200	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2735		18.4	20.0	-7.8	30.0
Toluene	Ave	0.6775	0.6464		19.1	20.0	-4.6	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1330		198	200	-0.9	30.0
Tetrachloroethene	Ave	0.2090	0.1879		18.0	20.0	-10.1	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1805		17.0	20.0	-15.0	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0973		17.9	20.0	-10.6	30.0
Chlorodibromomethane	Ave	0.1624	0.1416		17.4	20.0	-12.8	30.0
1,3-Dichloropropane	Ave	0.2134	0.1902		17.8	20.0	-10.9	30.0
Ethylene Dibromide	Ave	0.1323	0.1108		16.7	20.0	-16.3	30.0
2-Hexanone	Ave	0.0865	0.0707		163	200	-18.3	30.0
Chlorobenzene	Ave	1.083	1.097	0.3000	20.3	20.0	1.3	30.0
Ethylbenzene	Lin		2.095		22.9	20.0	14.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3979		20.9	20.0	4.4	30.0
m-Xylene & p-Xylene	Lin1		1.593		45.6	40.0	13.9	30.0
o-Xylene	Ave	1.735	1.848		21.3	20.0	6.5	30.0
Styrene	Ave	1.258	1.264		20.1	20.0	0.4	30.0
Bromoform	Ave	0.2952	0.2751	0.1000	18.6	20.0	-6.8	20.0
Isopropylbenzene	Ave	2.247	2.468		22.0	20.0	9.9	30.0
Bromobenzene	Ave	0.7726	0.8008		20.7	20.0	3.6	30.0
N-Propylbenzene	Ave	2.529	2.757		21.8	20.0	9.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5241	0.3000	20.3	20.0	1.6	30.0
2-Chlorotoluene	Ave	1.717	1.833		21.3	20.0	6.7	30.0
1,3,5-Trimethylbenzene	Ave	1.879	2.039		21.7	20.0	8.5	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0629		18.4	20.0	-8.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0633		17.4	20.0	-12.8	30.0
4-Chlorotoluene	Ave	1.492	1.563		21.0	20.0	4.8	30.0
tert-Butylbenzene	Ave	1.551	1.722		22.2	20.0	11.0	30.0
1,2,4-Trimethylbenzene	Ave	1.951	2.047		21.0	20.0	4.9	30.0
sec-Butylbenzene	Ave	2.541	2.761		21.7	20.0	8.7	30.0
4-Isopropyltoluene	Ave	2.050	2.204		21.5	20.0	7.5	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9706		19.8	20.0	-1.1	30.0
1,4-Dichlorobenzene	Ave	1.821	1.808		19.9	20.0	-0.7	30.0
n-Butylbenzene	Ave	3.711	4.131		22.3	20.0	11.3	30.0
1,2-Dichlorobenzene	Ave	1.574	1.575		20.0	20.0	0.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0772		18.7	20.0	-6.5	30.0
Hexachlorobutadiene	Ave	0.5157	0.5371		20.8	20.0	4.1	30.0

TC 3/26/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab Sample ID: CCVIS 360-48407/2 Calibration Date: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44626.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.102		20.5	20.0	2.5	30.0
Naphthalene	Ave	1.428	1.421		19.9	20.0	-0.5	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.8332		20.6	20.0	3.1	30.0
Dibromofluoromethane	Ave	0.2595	0.2454		18.9	20.0	-5.4	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8491		19.0	20.0	-4.9	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5038		19.9	20.0	-0.4	30.0

TC
3/26/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: | Lab Sample ID: MB 360-48229/3-A

Matrix: Solid | Lab File ID: V44509.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/26/2009 19:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48231 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

TC 3/24/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: | Lab Sample ID: MB 360-48229/3-A

Matrix: Solid | Lab File ID: V44509.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/26/2009 19:26

Soil Aliquot Vol.: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48231 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	7.37	J	10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

X10 = 74 ug/kg
TC
3/24/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: | Lab Sample ID: MB 360-48229/3-A

Matrix: Solid | Lab File ID: V44509.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/26/2009 19:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48231 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	102	70-130	
1868-53-7	Dibromofluoromethane	98	70-130	
2037-26-5	Toluene-d8 (Surr)	95	70-130	

3/26/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield | Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: | Lab Sample ID: MB 360-48229/3-A

Matrix: Solid | Lab File ID: V44509.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/26/2009 19:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48231 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

TC 3/26/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: | Lab Sample ID: MB 360-48289/3-A

Matrix: Solid | Lab File ID: V44532.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(g) | Date Analyzed: 08/27/2009 19:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48296 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		120	50
630-20-6	1,1,1,2-Tetrachloroethane	ND		120	50
79-34-5	1,1,2,2-Tetrachloroethane	ND		120	50
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		620	50
79-00-5	1,1,2-Trichloroethane	ND		120	50
75-34-3	1,1-Dichloroethane	ND		120	50
75-35-4	1,1-Dichloroethene	ND		120	50
563-58-6	1,1-Dichloropropene	ND		120	50
87-61-6	1,2,3-Trichlorobenzene	ND		120	50
96-18-4	1,2,3-Trichloropropane	ND		120	74
120-82-1	1,2,4-Trichlorobenzene	ND		120	50
95-63-6	1,2,4-Trimethylbenzene	ND		120	50
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1200	90
106-93-4	Ethylene Dibromide	ND		120	50
95-50-1	1,2-Dichlorobenzene	ND		120	50
107-06-2	1,2-Dichloroethane	ND		120	50
78-87-5	1,2-Dichloropropane	ND		120	50
108-67-8	1,3,5-Trimethylbenzene	ND		120	50
541-73-1	1,3-Dichlorobenzene	ND		120	50
142-28-9	1,3-Dichloropropane	ND		120	50
106-46-7	1,4-Dichlorobenzene	ND		120	50
123-91-1	1,4-Dioxane	ND		12000	1600
594-20-7	2,2-Dichloropropane	ND		120	50
107-39-1	2,4,4-Trimethyl-1-pentene	ND		250	50
107-40-4	2,4,4-Trimethyl-2-pentene	ND		250	50
95-49-8	2-Chlorotoluene	ND		120	50
591-78-6	2-Hexanone	ND		1200	260
106-43-4	4-Chlorotoluene	ND		120	50
67-64-1	Acetone	ND		12000	900
71-43-2	Benzene	ND		120	50
108-86-1	Bromobenzene	ND		120	50
74-97-5	Chlorobromomethane	ND		120	50
75-27-4	Dichlorobromomethane	ND		120	50
75-25-2	Bromoform	ND		120	50
74-83-9	Bromomethane	ND		250	50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: | Lab Sample ID: MB 360-48289/3-A

Matrix: Solid | Lab File ID: V44532.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(g) | Date Analyzed: 08/27/2009 19:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48296 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		120	50
75-15-0	Carbon disulfide	ND		120	50
56-23-5	Carbon tetrachloride	ND		120	50
108-90-7	Chlorobenzene	ND		120	50
75-00-3	Chloroethane	ND		250	50
67-66-3	Chloroform	ND		120	50
74-87-3	Chloromethane	ND		250	50
156-59-2	cis-1,2-Dichloroethene	ND		120	50
10061-01-5	cis-1,3-Dichloropropene	ND		120	50
110-82-7	Cyclohexane	ND		1200	130
124-48-1	Chlorodibromomethane	ND		120	50
74-95-3	Dibromomethane	ND		120	50
75-71-8	Dichlorodifluoromethane	ND		250	50
60-29-7	Ethyl ether	ND		120	50
108-20-3	Isopropyl ether	ND		120	50
637-92-3	Tert-butyl ethyl ether	ND		120	120
100-41-4	Ethylbenzene	ND		120	50
87-68-3	Hexachlorobutadiene	ND		120	50
98-82-8	Isopropylbenzene	ND		120	50
79-20-9	Methyl acetate	ND		2500	810
78-93-3	2-Butanone (MEK)	ND		1200	340
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1200	260
1634-04-4	Methyl tert-butyl ether	ND		120	50
108-87-2	Methylcyclohexane	ND		120	50
75-09-2	Methylene Chloride	568		500	240
136777-61-2	m-Xylene & p-Xylene	ND		250	50
91-20-3	Naphthalene	ND		1200	50
103-65-1	N-Propylbenzene	ND		120	50
95-47-6	o-Xylene	ND		120	50
99-87-6	4-Isopropyltoluene	ND		120	50
135-98-8	sec-Butylbenzene	ND		120	50
100-42-5	Styrene	ND		120	50
994-05-8	Tert-amyl methyl ether	ND		120	50
98-06-6	tert-Butylbenzene	ND		120	50
127-18-4	Tetrachloroethene	ND		120	50
109-99-9	Tetrahydrofuran	ND		1200	280

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: | Lab Sample ID: MB 360-48289/3-A

Matrix: Solid | Lab File ID: V44532.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(g) | Date Analyzed: 08/27/2009 19:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48296 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		120	50
156-60-5	trans-1,2-Dichloroethene	ND		120	50
10061-02-6	trans-1,3-Dichloropropene	ND		120	50
79-01-6	Trichloroethene	ND		120	50
75-69-4	Trichlorofluoromethane	ND		250	50
75-01-4	Vinyl chloride	ND		120	50

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	100	70-130	
1868-53-7	Dibromofluoromethane	101	70-130	
2037-26-5	Toluene-d8 (Surr)	96	70-130	

3/26/10
TC 09/22/2009

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: Lab Sample ID: MB 360-48289/3-A

Matrix: Solid Lab File ID: V44532.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 10(g) Date Analyzed: 08/27/2009 19:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48296 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 213

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	15.22	213	T J

TC
3/26/10

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\V44532.D
Lims ID: MB 360-48289/3-A
Client ID:
Inject. Date: 27-Aug-2009 19:50:30
Dil. Factor: 1.0000
Sample Type: MB, Method Blank
Sample ID: MB 360-48289/3-A
Misc. Info.: 360-0000992-006
Operator: CR
Instrument ID: HP #1 GC/MS
Vol. Injected: 1.0000
ALS Bottle#: 8
Lims Batch ID: 48296
Lims Sample ID: 6
Detector: MS SCAN

Method: \\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\WES1SOIL.m
Last Update: 28-Aug-2009 08:59:55
Calib Date: 24-Aug-2009 20:37:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D
Limit Group: VMS - 8260 VOA Calibration
Integrator: RTE
Process Host: WESVOAJESS

Reviewed By: rouleauc
Date: 28-Aug-2009 09:01:40

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.634				1
2 Chloromethane	50		1.814				1
3 Vinyl chloride	62		1.913				1
4 Bromomethane	94		2.269				479
5 Chloroethane	64		2.404				1
6 Trichlorofluoromethane	101		2.548				1
7 Ethyl ether	59		2.869				1
8 1,1-Dichloroethene	96		3.065				1
9 Ethanol	45		3.070				79
10 Carbon disulfide	76		3.075				479
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.132				1
12 Acrolein	56		3.401				7
13 Isopropyl alcohol	45		3.566				
14 Methylene Chloride	84	3.632	3.634	-0.002	35281	2.27	
15 Acetone	43		3.685				7
16 trans-1,2-Dichloroethene	61		3.783				1
17 Methyl acetate	43		3.809				1
18 Hexane	57		3.861				7
19 Methyl tert-butyl ether	73		3.887				1
20 2-Methyl-2-propanol	59		3.985				1
21 Isopropyl ether	45		4.233				1
22 1,1-Dichloroethane	63		4.347				1
23 Acrylonitrile	53		4.404				1
24 Tert-butyl ethyl ether	59		4.559				1
25 Vinyl acetate	43		4.574				1
26 cis-1,2-Dichloroethene	61		4.822				1
27 2,2-Dichloropropane	77		4.915				1
28 Cyclohexane	56		4.987				1
29 Chlorobromomethane	130		4.993				1
30 Chloroform	83		5.055				1
31 Ethyl acetate	43		5.163				1

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
32 Carbon tetrachloride	117		5.168				1
33 Tetrahydrofuran	42		5.189				79
34 sec-Butyl Alcohol	45		5.199				1
$ 35 Dibromofluoromethane	113	5.208	5.210	-0.002	116278	20.3	
36 1,1,1-Trichloroethane	97		5.236				1
37 2-Butanone (MEK)	43		5.329				1
38 1,1-Dichloropropene	75		5.334				1
39 n-Heptane	43		5.509				1
40 Benzene	78		5.551				79
41 Tert-amyl methyl ether	73		5.644				1
* 42 1,2-Dichloroethane-d4 ISTD	102	5.663	5.670	-0.007	20294	20.0	
43 1,2-Dichloroethane	62		5.726				1
* 44 Fluorobenzene	96	5.890	5.897	-0.007	441641	20.0	
45 2,4,4-Trimethyl-1-pentene	55		5.918				
46 Isopropyl acetate	43		5.923				1
47 Methylcyclohexane	83		6.021				1
48 Trichloroethene	95		6.026				1
49 2,4,4-Trimethyl-2-pentene	112		6.057				1
50 Dibromomethane	93		6.372				1
51 1,2-Dichloropropane	63		6.455				1
52 Dichlorobromomethane	83		6.497				1
53 Methyl methacrylate	69		6.621				1
54 1,4-Dioxane	88		6.672				1
55 n-Propyl acetate	43		6.734				1
56 2-Chloroethyl vinyl ether	63		6.946				1
57 cis-1,3-Dichloropropene	75		6.998				1
$ 58 Toluene-d8 (Surr)	98	7.141	7.142	-0.001	379733	19.3	
59 Toluene	92		7.184				1
60 Tetrachloroethene	164		7.473				1
61 4-Methyl-2-pentanone (MIBK)	43		7.478				1
62 trans-1,3-Dichloropropene	75		7.504				1
63 Isobutyl acetate	43	7.564	7.561	0.003	1117	0.1361	
64 1,1,2-Trichloroethane	83		7.628				1
65 Chlorodibromomethane	129		7.763				1
66 1,3-Dichloropropane	76		7.840				1
67 Ethylene Dibromide	107		7.954				1
68 n-Butyl acetate	43	8.030	8.031	-0.001	1612	1.91	
69 2-Hexanone	43	8.112	8.114	-0.002	1812	0.9489	
* 70 Chlorobenzene-d5	117	8.334	8.336	-0.002	281012	20.0	
71 Chlorobenzene	112		8.352				479
72 Ethylbenzene	91		8.367				1
73 1,1,1,2-Tetrachloroethane	131		8.398				1
74 m-Xylene & p-Xylene	91		8.476				1
75 o-Xylene	91		8.812				1
76 Styrene	104		8.853				1
77 Bromoform	173		8.874				1
78 Isopropylbenzene	105		9.049				1
$ 80 4-Bromofluorobenzene	95	9.270	9.272	-0.002	142120	20.0	
$ 79 BFB	95	9.270	9.278	-0.008	142047		
81 Bromobenzene	77		9.360				1
82 N-Propylbenzene	91		9.370				1
83 1,1,2,2-Tetrachloroethane	83		9.422				1

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
84 2-Chlorotoluene	91		9.499				7
85 1,3,5-Trimethylbenzene	105		9.520				1
86 1,2,3-Trichloropropane	110		9.540				1
87 trans-1,4-Dichloro-2-butene	53		9.566				1
88 4-Chlorotoluene	91		9.628				1
89 tert-Butylbenzene	119		9.773				1
90 1,2,4-Trimethylbenzene	105		9.825				1
91 sec-Butylbenzene	105		9.912				1
92 4-Isopropyltoluene	119		10.021				1
93 1,3-Dichlorobenzene	146		10.088				479
* 94 1,4-Dichlorobenzene-d4	152	10.148	10.150	-0.002	153148	20.0	
95 1,4-Dichlorobenzene	146		10.161				479
96 n-Butylbenzene	91		10.367				1
97 1,2-Dichlorobenzene	146		10.517				1
98 1,2-Dibromo-3-Chloropropane	157		11.297				1
99 1,3,5-Trichlorobenzene	180	11.322	11.323	-0.001	711	0.0648	
100 Hexachlorobutadiene	225		12.052				1
101 1,2,4-Trichlorobenzene	180	12.102	12.098	0.004	904	0.1098	
102 Naphthalene	128	12.572	12.569	0.003	2013	0.1841	
103 1,2,3-Trichlorobenzene	180		12.848				1

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

TestAmerica Laboratories
Tentatively Identified Quantitation Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\V44532.D		
Lims ID:	MB 360-48289/3-A	Client ID:	
Inject. Date:	27-Aug-2009 19:50:30	Dil. Factor:	1.0000
Sample Type:	MB, Method Blank		
Sample ID:	MB 360-48289/3-A		
Misc. Info.:	360-0000992-006		
Operator:	CR	Instrument ID:	HP #1 GC/MS
Vol. Injected:	1.0000	ALS Bottle#:	8
Lims Batch ID:	48296	Lims Sample ID:	6
Detector:	MS SCAN		
Method:	\\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\WES1SOIL.m		
Last Update:	28-Aug-2009 08:59:55	Calib Date:	24-Aug-2009 20:37:30
Tic RT Window:	0.000 -0.000	Response:	area
Quant By:	Nearest ISTD	Quant LOD:	10.00000
MS Library:	\\wessvr06\chromdata\DATABASE\NIST98.L		
Min. Match:	50		
Process Host:	WESVOAJESS		
Reviewed By:	rouleauc	Date:	28-Aug-2009 09:01:40

Tentative Identified Compound Results

RT	Response	Amount ug/L	Quant Cpnd	Qual	Lib Entry	Flags
	Unknown					
15.218	40088	0.8504	94			

Quantitation Compounds

Compound	RT	Response	Amount ug/L
* 94 1,4-Dichlorobenzene-d4	10.148	942855	20.0

QC Flag Legend

Processing Flags

Report Date: 28-Aug-2009 09:01:40 Chrom Revision: 1.0.2009.827

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\V44532.D

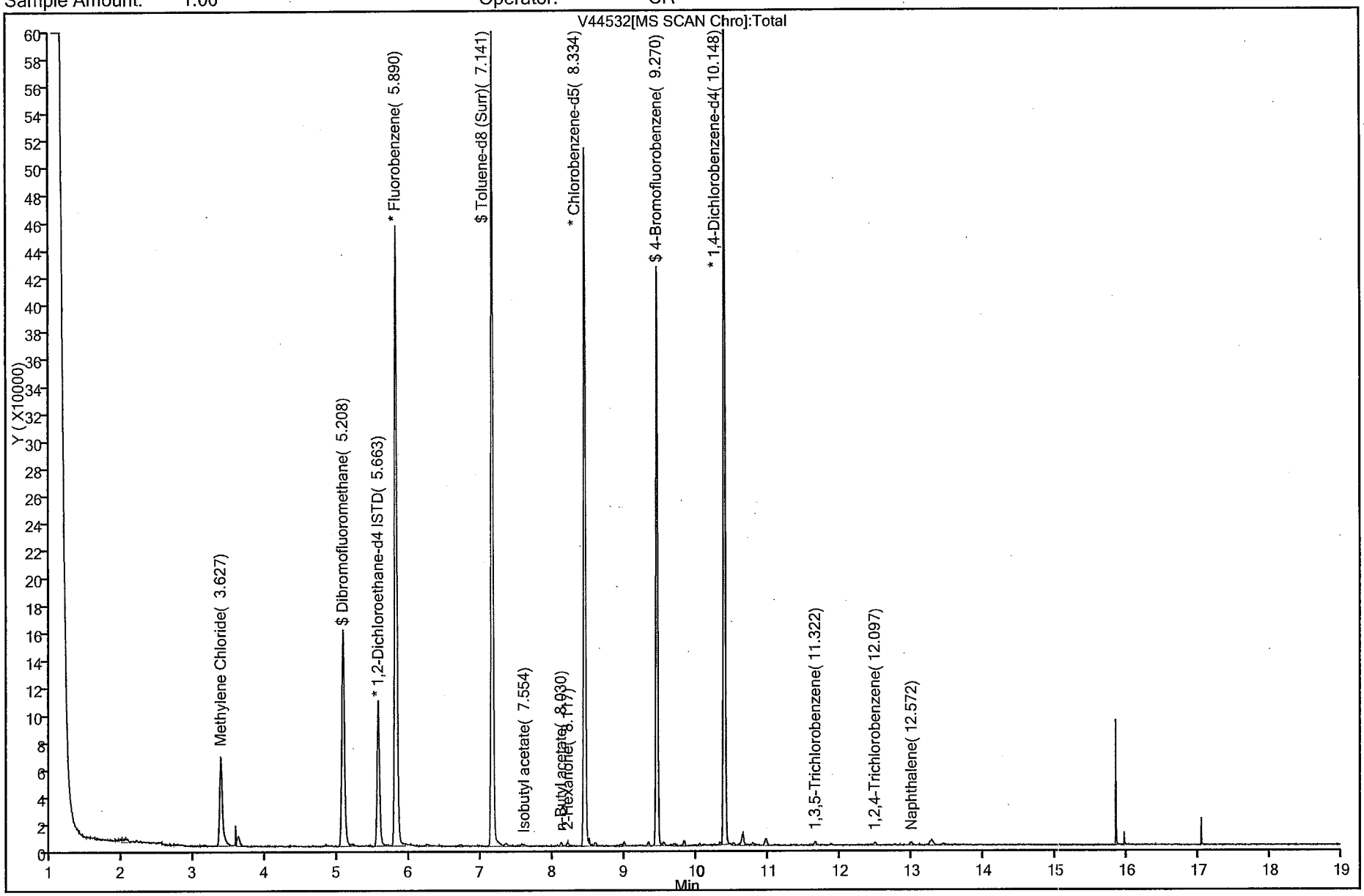
Inj Date: 27-Aug-2009 19:50:30 Limit Group: VMS - 8260 VOA Calibration

Lims Batch ID: 48296 Lims Sample ID: 6

Client ID: Instrument: HP #1 GC/MS

Sample Info: MB 360-48289/3-A

Sample Amount: 1.00 Operator: CR



Report Date: 28-Aug-2009 09:01:40 Chrom Revision: 1.0.2009.827

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\V44532.D

Inj Date: 27-Aug-2009 19:50:30 Limit Group: VMS - 8260 VOA Calibration

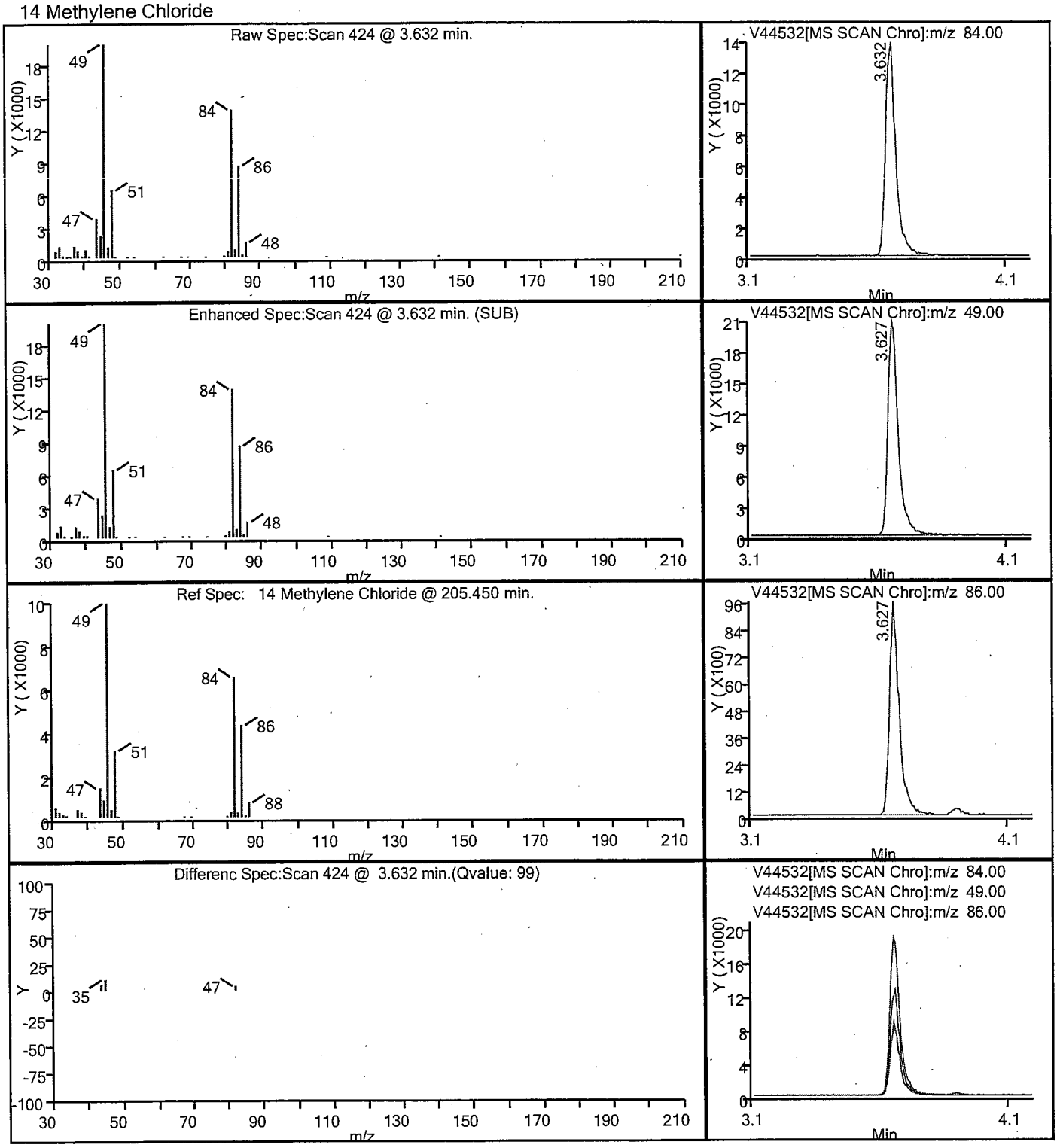
Lims Batch ID: 48296 Lims Sample ID: 6

Client ID: Instrument: HP #1 GC/MS

Sample Info: MB 360-48289/3-A

Sample Amount: 1.00 Operator: CR

14 Methylene Chloride



Report Date: 28-Aug-2009 09:01:40 Chrom Revision: 1.0.2009.827

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090827-1.b\V44532.D

Inj Date: 27-Aug-2009 19:50:30 Limit Group: VMS - 8260 VOA Calibration

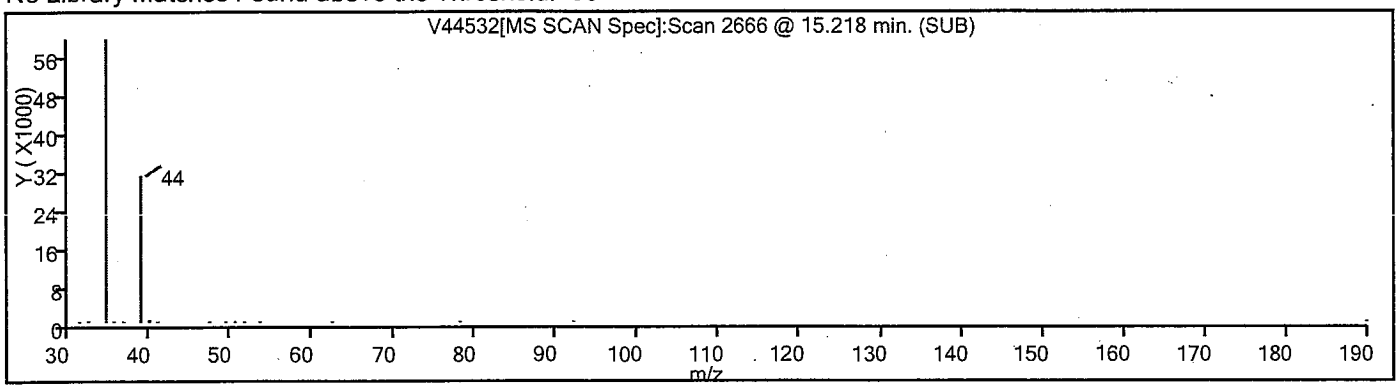
Lims Batch ID: 48296 Lims Sample ID: 6

Client ID: Instrument: HP #1 GC/MS

Sample Info: MB 360-48289/3-A

Sample Amount: 1.00 Operator: CR

No Library Matches Found above the Threshold: 50



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: | Lab Sample ID: MB 360-48405/3-A

Matrix: Solid | Lab File ID: V44632.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48407 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: Lab Sample ID: MB 360-48405/3-A

Matrix: Solid Lab File ID: V44632.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48407 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: | Lab Sample ID: MB 360-48405/3-A

Matrix: Solid | Lab File ID: V44632.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48407 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	104	70-130	
1868-53-7	Dibromofluoromethane	105	70-130	
2037-26-5	Toluene-d8 (Surr)	93	70-130	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Client Sample ID: Lab Sample ID: MB 360-48405/3-A

Matrix: Solid Lab File ID: V44632.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48407 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090831-2.b\V44632.D		
Lims ID:	MB 360-48405/3-A	Client ID:	
Inject. Date:	01-Sep-2009 05:33:30	Dil. Factor:	1.0000
Sample Type:	MB, Method Blank		
Sample ID:	MB 360-48405/3-A		
Misc. Info.:	360-0001016-008		
Operator:	CR	Instrument ID:	HP #1 GC/MS
Vol. Injected:	1.0000	ALS Bottle#:	35
Lims Batch ID:	48407	Lims Sample ID:	8
Detector:	MS SCAN		
Method:	\\wessvr06\chromdata\HPGCMS1.i\20090831-2.b\WES1SOIL.m		
Last Update:	01-Sep-2009 10:23:26	Calib Date:	24-Aug-2009 20:37:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\wessvr06\chromdata\HPGCMS1.i\20090824-2.b\V44426.D		
Limit Group:	VMS - 8260 VOA Calibration		
Integrator:	RTE		
Process Host:	WESVOAJESS		
Reviewed By:	rouleauc	Date:	01-Sep-2009 10:24:10

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85		1.630				1
2 Chloromethane	50		1.816				1
3 Vinyl chloride	62		1.914				1
4 Bromomethane	94		2.276				1
5 Chloroethane	64		2.384				1
6 Trichlorofluoromethane	101		2.534				1
7 Ethyl ether	59		2.860				1
8 1,1-Dichloroethene	96		3.051				1
9 Ethanol	45		3.061				79
10 Carbon disulfide	76		3.066				479
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.123				1
12 Acrolein	56		3.392				7
13 Isopropyl alcohol	45		3.547				
14 Methylene Chloride	84		3.614				7
15 Acetone	43		3.671				7
16 trans-1,2-Dichloroethene	61		3.769				1
17 Methyl acetate	43		3.790				1
18 Hexane	57		3.842				1
19 Methyl tert-butyl ether	73		3.873				1
20 2-Methyl-2-propanol	59		3.966				79
21 Isopropyl ether	45		4.219				1
22 1,1-Dichloroethane	63		4.327				1
23 Acrylonitrile	53		4.384				1
24 Tert-butyl ethyl ether	59		4.539				1
25 Vinyl acetate	43		4.560				1
26 cis-1,2-Dichloroethene	61		4.803				1
27 2,2-Dichloropropane	77		4.901				1
28 Cyclohexane	56		4.968				1
29 Chlorobromomethane	130		4.973				1
30 Chloroform	83		5.035				1
31 Ethyl acetate	43		5.149				1

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab File ID: V06326.D BFB Injection Date: 08/24/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 11:51

Analysis Batch No.: 48065

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.8	
75	30.0 - 60.0 % of mass 95	53.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.5	(0.9)1
174	50.0 - 120.00 % of mass 95	61.5	
175	5.0 - 9.0 % of mass 174	4.5	(7.3)1
176	95.0 - 101.0 % of mass 174	59.3	(96.5)1
177	5.0 - 9.0 % of mass 176	3.8	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48065/2	V06327.D	08/24/2009	12:12
	STD03 360-48065/4	V06329.D	08/24/2009	12:54
	STD05 360-48065/5	V06330.D	08/24/2009	13:15
	STD1 360-48065/6	V06331.D	08/24/2009	13:37
	STD5 360-48065/7	V06332.D	08/24/2009	13:58
	STD10 360-48065/8	V06333.D	08/24/2009	14:19
	STD40 360-48065/9	V06334.D	08/24/2009	14:40
	STD80 360-48065/10	V06335.D	08/24/2009	15:01
	STD160 360-48065/11	V06336.D	08/24/2009	15:22

TC 3/26/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab File ID: V06421.D BFB Injection Date: 08/26/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:46

Analysis Batch No.: 48228

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.0	
75	30.0 - 60.0 % of mass 95	52.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.7	(0.9)1
174	50.0 - 120.00 % of mass 95	74.3	
175	5.0 - 9.0 % of mass 174	5.4	(7.3)1
176	95.0 - 101.0 % of mass 174	71.1	(95.7)1
177	5.0 - 9.0 % of mass 176	4.7	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48228/2	V06422.D	08/26/2009	17:07
	LCS 360-48228/3	V06423.D	08/26/2009	17:27
	LCSD 360-48228/4	V06424.D	08/26/2009	17:48
	MB 360-48228/6	V06426.D	08/26/2009	18:30
OC-EBK-003	360-24244-14	V06440.D	08/26/2009	23:24

TC 3/26/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab File ID: V44418.D BFB Injection Date: 08/24/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 17:23

Analysis Batch No.: 48090

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	42.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	76.7	
175	5.0 - 9.0 % of mass 174	6.0	(7.8)1
176	95.0 - 101.0 % of mass 174	75.2	(98.1)1
177	5.0 - 9.0 % of mass 176	5.0	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48090/2	V44419.D	08/24/2009	17:47
	STD0005 360-48090/3	V44421.D	08/24/2009	18:35
	STD001 360-48090/4	V44422.D	08/24/2009	18:59
	STD005 360-48090/5	V44423.D	08/24/2009	19:24
	STD010 360-48090/6	V44424.D	08/24/2009	19:48
	STD040 360-48090/7	V44425.D	08/24/2009	20:13
	STD080 360-48090/8	V44426.D	08/24/2009	20:37
	ICV 360-48090/10	V44456.D	08/25/2009	15:29

TC 3/20/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab File ID: V44502.D BFB Injection Date: 08/26/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:39

Analysis Batch No.: 48231

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.6	
75	30.0 - 60.0 % of mass 95	42.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	75.7	
175	5.0 - 9.0 % of mass 174	5.9	(7.8)1
176	95.0 - 101.0 % of mass 174	73.2	(96.6)1
177	5.0 - 9.0 % of mass 176	4.9	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48231/2	V44503.D	08/26/2009	17:03
	LCS 360-48229/1-A	V44504.D	08/26/2009	17:27
	LCSD 360-48229/2-A	V44505.D	08/26/2009	17:51
	MB 360-48229/3-A	V44509.D	08/26/2009	19:26
OC-SB-443-6.0/8.0-XXX	360-24244-6	V44511.D	08/26/2009	20:15
OC-SB-445-8.0/10-XXX	360-24244-9	V44512.D	08/26/2009	20:40
OC-SB-437-5.0/7.0-XXX	360-24244-12	V44513.D	08/26/2009	21:05

3/26/10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab File ID: V44525.D BFB Injection Date: 08/27/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 17:02

Analysis Batch No.: 48296

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.1	
75	30.0 - 60.0 % of mass 95	42.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	76.1	
175	5.0 - 9.0 % of mass 174	5.8	(7.7)1
176	95.0 - 101.0 % of mass 174	74.2	(97.5)1
177	5.0 - 9.0 % of mass 176	4.7	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48296/2	V44526.D	08/27/2009	17:26
	LCS 360-48289/1-A	V44527.D	08/27/2009	17:50
	LCSD 360-48289/2-A	V44528.D	08/27/2009	18:14
	MB 360-48289/3-A	V44532.D	08/27/2009	19:50
OC-SB-432-0.0/1.0-XXX	360-24244-1	V44548.D	08/28/2009	02:15
OC-SB-432-14/16-XXX	360-24244-2	V44549.D	08/28/2009	02:39
OC-SB-432-5.0/7.0-XXX	360-24244-3	V44550.D	08/28/2009	03:03

3/26/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24244-1

SDG No.: OCRI-04

Lab File ID: V44625.D BFB Injection Date: 09/01/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 02:45

Analysis Batch No.: 48407

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.3	
75	30.0 - 60.0 % of mass 95	44.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	77.3	
175	5.0 - 9.0 % of mass 174	5.8	(7.6)1
176	95.0 - 101.0 % of mass 174	75.7	(97.9)1
177	5.0 - 9.0 % of mass 176	5.0	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48407/2	V44626.D	09/01/2009	03:09
	LCS 360-48405/1-A	V44627.D	09/01/2009	03:33
	LCSD 360-48405/2-A	V44628.D	09/01/2009	03:57
	MB 360-48405/3-A	V44632.D	09/01/2009	05:33
OC-SB-443-0.0/1.0-XXX	360-24244-4	V44635.D	09/01/2009	06:45
OC-SB-445-0.0/1.0-XXX	360-24244-7	V44636.D	09/01/2009	07:09
OC-SB-437-0.0/1.0-XXX	360-24244-10	V44637.D	09/01/2009	07:34
OC-TBK-005	360-24244-13	V44638.D	09/01/2009	07:58

3/26/10
TC

OCRI-05

22 Samples
x 77 compounds
1694

1694/h EDD ✓

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360-24251-1

LAB #: TAL Westfield

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Data completeness				
☑	☐	☐	All data summaries, QC forms and raw data available from hard copy or electronic data package	Contact lab if missing data. Lab to respond with 24 hours.
☑	☐	☐	Data summaries match EDD	
Holding Times and Preservation				
☑	☑	☐	Hold times met (14 days with preservation)	OC-SB-440-23/25-XXX analyzed on day 15 of the 14 day Hold time all compounds Qualified estimated.
☑	☐	☐	Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune)				
☑	☐	☐	Tune available for each 12-hour period samples were analyzed	
☑	☐	☐	Appropriate number of significant figures reported (at least 2)	
☑	☐	☐	Mass/Charge list (m/z) criteria met	
Initial Calibration				I-cal 8/24/09 HP#1 UJ all 1,4-Dioxane (see OC-RI 4)
☑	☐	☐	%RSD less than or equal to 30%	
☐	☑	☐	RRF greater than or equal to 0.05	I-cal 9/4/09 HP#3 <0.05 tetrahydrofuran .03 2-butanone 0.042 1,4-Dioxane 0.0009 Reject 1,4Dioxane (UJ)
Continuing Calibration				ICV 8/24/09 see attached
☐	☑	☐	%D less than or equal to 25%	
☑	☐	☐	RRF greater than or equal to 0.05.	
Blank Contamination				Evaluate all blanks for contamination. Highest contaminant level used for action level.
☑	☐	☐	Method blank contamination	Not associated w/ field samples
☑	☐	☐	Trip blank contamination	
☐	☑	☐	Equipment/Rinseate blank contamination	

OC-TBK-006 $MeCl_2$ @ 9.3 ug/kg X10 = 93 ug/kg
(U) Qualified $MeCl_2$ in samples
OCSB-433-0.0/1.0-XXX
OCSB-439-00/1.0-XXX
OCSB-439-8.0/10-XXX
OC-SB-440-00/1.0

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes No N/A — TIER I / II / III (circle one)

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples ☐ ☑ ☐ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☑ ☐ ☐ MS/MSD RPD criteria met (water and soil <30%) ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	See attached Form V See attached Form V for LCS out of control
Field Duplicates ☑ ☐ ☐ RPD criteria (water <30%, soils <50%) met	no detects in Field Dups & Samples
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	Remove Unknown @ 3.60 in OC-SB-440-23/2.25 due to Blank contamination XSY

Validator's Signature: _____

Date: 3/28/10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-433-0.0/1.0-XXX**

Lab Sample ID: 360-24251-1
Client Matrix: Solid % Moisture: 7.2

Date Sampled: 08/24/2009 0815
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44675.D
Dilution:	1.0			Initial Weight/Volume:	4.91 g
Date Analyzed:	09/02/2009 0413			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		2.0	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	20	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-433-0.0/1.0-XXX**

Lab Sample ID: 360-24251-1
Client Matrix: Solid
% Moisture: 7.2

Date Sampled: 08/24/2009 0815
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44675.D
Dilution:	1.0			Initial Weight/Volume:	4.91 g
Date Analyzed:	09/02/2009 0413			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.5
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND	*	18	55
2-Butanone (MEK)		ND		7.4	27
4-Methyl-2-pentanone (MIBK)		ND		5.7	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		8.4 U	J-	5.3	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	107		70 - 130
Dibromofluoromethane	107		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-433-0.0/1.0-XXX**

Lab Sample ID: 360-24251-1
Client Matrix: Solid % Moisture: 7.2

Date Sampled: 08/24/2009 0815
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44675.D
Dilution:	1.0			Initial Weight/Volume:	4.91 g
Date Analyzed:	09/02/2009 0413			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-433-5.0/7.0-DUP

Lab Sample ID: 360-24251-3
Client Matrix: Solid

% Moisture: 14.2

Date Sampled: 08/24/2009 0820
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/29/2009 0451
Date Prepared: 08/28/2009 1606

Analysis Batch: 360-48354
Prep Batch: 360-48353

Instrument ID: HP #1 GC/MS
Lab File ID: V44582.D
Initial Weight/Volume: 5.62 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	34	260
2,2-Dichloropropane		ND	J	1.0	2.6
2,4,4-Trimethyl-1-pentene		ND	J (TC)	1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-433-5.0/7.0-DUP**

Lab Sample ID: 360-24251-3
Client Matrix: Solid

% Moisture: 14.2

Date Sampled: 08/24/2009 0820
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44582.D
Dilution:	1.0			Initial Weight/Volume:	5.62 g
Date Analyzed:	08/29/2009 0451			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND J		17	52
2-Butanone (MEK)		ND		7.0	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-433-5.0/7.0-DUP

Lab Sample ID: 360-24251-3
Client Matrix: Solid
% Moisture: 14.2

Date Sampled: 08/24/2009 0820
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44582.D
Dilution:	1.0			Initial Weight/Volume:	5.62 g
Date Analyzed:	08/29/2009 0451			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	13.37	27	T J
	Unknown	13.65	15	T J
	Unknown	13.78	7.8	T J

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-433-5.0/7.0-XXX**

Lab Sample ID: 360-24251-4
Client Matrix: Solid
% Moisture: 14.0

Date Sampled: 08/24/2009 0820
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44515.D
Dilution:	1.0			Initial Weight/Volume:	5.79 g
Date Analyzed:	08/26/2009 2156			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND	*	1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-433-5.0/7.0-XXX**

Lab Sample ID: 360-24251-4
Client Matrix: Solid % Moisture: 14.0

Date Sampled: 08/24/2009 0820
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44515.D
Dilution:	1.0			Initial Weight/Volume:	5.79 g
Date Analyzed:	08/26/2009 2156			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	J	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND	J	16	50
2-Butanone (MEK)		ND		6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	95		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-433-5.0/7.0-XXX

Lab Sample ID: 360-24251-4
Client Matrix: Solid

% Moisture: 14.0

Date Sampled: 08/24/2009 0820
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44515.D
Dilution:	1.0			Initial Weight/Volume:	5.79 g
Date Analyzed:	08/26/2009 2156			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	13.38	29	T J
	Unknown	13.65	14	T J
	Unknown	13.78	6.5	T J

TC 5/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-439-0.0-1.0-XXX

Lab Sample ID: 360-24251-5
Client Matrix: Solid
% Moisture: 12.6

Date Sampled: 08/24/2009 0945
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44676.D
Dilution:	1.0			Initial Weight/Volume:	5.38 g
Date Analyzed:	09/02/2009 0437			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.7	27
Chlorodibromomethane		ND		1.1	2.7

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-439-0.0-1.0-XXX**

Lab Sample ID: 360-24251-5
Client Matrix: Solid
% Moisture: 12.6

Date Sampled: 08/24/2009 0945
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44676.D
Dilution:	1.0			Initial Weight/Volume:	5.38 g
Date Analyzed:	09/02/2009 0437			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.3
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND	*	17	53
2-Butanone (MEK)		ND		7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		~~5.8~~ 11 U	J	5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.8	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-439-0.0-1.0-XXX

Lab Sample ID: 360-24251-5
Client Matrix: Solid

% Moisture: 12.6

Date Sampled: 08/24/2009 0945
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44676.D
Dilution:	1.0			Initial Weight/Volume:	5.38 g
Date Analyzed:	09/02/2009 0437			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.84	22	T J

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-439-8.0/10-XXX**

Lab Sample ID: 360-24251-7
Client Matrix: Solid
% Moisture: 19.8

Date Sampled: 08/24/2009 0950
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48140		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48139		Lab File ID:	V44473.D
Dilution:	1.0			Initial Weight/Volume:	11.26 g
Date Analyzed:	08/25/2009 2223			Final Weight/Volume:	10 g
Date Prepared:	08/25/2009 1455				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		55	140
1,1,1-Trichloroethane		ND		55	140
1,1,2,2-Tetrachloroethane		ND		55	140
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		55	690
1,1,2-Trichloroethane		ND		55	140
1,1-Dichloroethane		ND		55	140
1,1-Dichloroethene		ND		55	140
1,1-Dichloropropene		ND		55	140
1,2,3-Trichlorobenzene		ND		55	140
1,2,3-Trichloropropane		ND		82	140
1,2,4-Trichlorobenzene		ND		55	140
1,2,4-Trimethylbenzene		ND		55	140
1,2-Dibromo-3-Chloropropane		ND		99	1400
Ethylene Dibromide		ND		55	140
1,2-Dichlorobenzene		ND		55	140
1,2-Dichloroethane		ND		55	140
Acetone		ND J	*	990	14000
1,2-Dichloropropane		ND		55	140
1,3,5-Trimethylbenzene		ND		55	140
1,3-Dichlorobenzene		ND		55	140
1,3-Dichloropropane		ND		55	140
1,4-Dichlorobenzene		ND		55	140
1,4-Dioxane		ND J		1800	14000
2,2-Dichloropropane		ND		55	140
2,4,4-Trimethyl-1-pentene		ND J		55	280
2,4,4-Trimethyl-2-pentene		ND		55	280
2-Chlorotoluene		ND		55	140
2-Hexanone		ND		280	1400
4-Chlorotoluene		ND		55	140
Benzene		ND		55	140
Bromobenzene		ND		55	140
Chlorobromomethane		ND		55	140
Dichlorobromomethane		ND		55	140
Bromoform		ND		55	140
Bromomethane		ND		55	280
n-Butylbenzene		ND		55	140
Carbon disulfide		ND		55	140
Carbon tetrachloride		ND		55	140
Chlorobenzene		ND		55	140
Chloroethane		ND		55	280
Chloroform		ND		55	140
Chloromethane		ND		55	280
cis-1,2-Dichloroethene		ND		55	140
cis-1,3-Dichloropropene		ND		55	140
Cyclohexane		ND		140	1400
Chlorodibromomethane		ND		55	140

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-439-8.0/10-XXX

Lab Sample ID: 360-24251-7
Client Matrix: Solid

% Moisture: 19.8

Date Sampled: 08/24/2009 0950
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48140		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48139		Lab File ID:	V44473.D
Dilution:	1.0			Initial Weight/Volume:	11.26 g
Date Analyzed:	08/25/2009 2223			Final Weight/Volume:	10 g
Date Prepared:	08/25/2009 1455				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		55	140
Dichlorodifluoromethane		ND J		55	280
Ethyl ether		ND		55	140
Isopropyl ether		ND		55	140
Tert-butyl ethyl ether		ND		140	140
Ethylbenzene		ND		55	140
Hexachlorobutadiene		ND		55	140
Isopropylbenzene		ND		55	140
Methyl acetate		ND J		900	2800
2-Butanone (MEK)		ND		370	1400
4-Methyl-2-pentanone (MIBK)		ND		290	1400
Methyl tert-butyl ether		ND		55	140
Methylcyclohexane		ND		55	140
Methylene Chloride		~~500~~ 550 U	d	270	550
m-Xylene & p-Xylene		ND		55	280
Naphthalene		ND		55	1400
N-Propylbenzene		ND		55	140
o-Xylene		ND		55	140
4-Isopropyltoluene		ND		55	140
sec-Butylbenzene		ND		55	140
Styrene		ND		55	140
Tert-amyl methyl ether		ND		55	140
tert-Butylbenzene		ND		55	140
Tetrachloroethene		ND		55	140
Tetrahydrofuran		ND		300	1400
Toluene		ND		55	140
trans-1,2-Dichloroethene		ND		55	140
trans-1,3-Dichloropropene		ND		55	140
Trichloroethene		ND		55	140
Trichlorofluoromethane		ND		55	280
Vinyl chloride		ND		55	140

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	95		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-439-8.0/10-XXX

Lab Sample ID: 360-24251-7
Client Matrix: Solid

% Moisture: 19.8

Date Sampled: 08/24/2009 0950
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48140		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48139		Lab File ID:	V44473.D
Dilution:	1.0			Initial Weight/Volume:	11.26 g
Date Analyzed:	08/25/2009 2223			Final Weight/Volume:	10 g
Date Prepared:	08/25/2009 1455				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-439-8.0/10-XXX

Lab Sample ID: 360-24251-7
Client Matrix: Solid

% Moisture: 19.8

Date Sampled: 08/24/2009 0950
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/29/2009 0516
Date Prepared: 08/28/2009 1606

Analysis Batch: 360-48354
Prep Batch: 360-48353

Instrument ID: HP #1 GC/MS
Lab File ID: V44583.D
Initial Weight/Volume: 5.91 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.6
1,1,1-Trichloroethane		ND		1.1	2.6
1,1,2,2-Tetrachloroethane		ND		1.1	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.6
1,1-Dichloroethane		ND		1.1	2.6
1,1-Dichloroethene		ND		1.1	2.6
1,1-Dichloropropene		ND		1.1	2.6
1,2,3-Trichlorobenzene		ND		1.1	2.6
1,2,3-Trichloropropane		ND		1.6	2.6
1,2,4-Trichlorobenzene		ND		1.1	2.6
1,2,4-Trimethylbenzene		ND		1.1	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.1	2.6
1,2-Dichlorobenzene		ND		1.1	2.6
1,2-Dichloroethane		ND		1.1	2.6
Acetone		ND		19	260
1,2-Dichloropropane		ND		1.1	2.6
1,3,5-Trimethylbenzene		ND		1.1	2.6
1,3-Dichlorobenzene		ND		1.1	2.6
1,3-Dichloropropane		ND		1.1	2.6
1,4-Dichlorobenzene		ND		1.1	2.6
1,4-Dioxane		ND		35	260
2,2-Dichloropropane		ND		1.1	2.6
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.1	2.6
Benzene		ND		1.1	2.6
Bromobenzene		ND		1.1	2.6
Chlorobromomethane		ND		1.1	2.6
Dichlorobromomethane		ND		1.1	2.6
Bromoform		ND		1.1	2.6
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.6
Carbon disulfide		ND		1.1	2.6
Carbon tetrachloride		ND		1.1	2.6
Chlorobenzene		ND		1.1	2.6
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.6
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.6
cis-1,3-Dichloropropene		ND		1.1	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.1	2.6

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-439-8.0/10-XXX

Lab Sample ID: 360-24251-7
Client Matrix: Solid

% Moisture: 19.8

Date Sampled: 08/24/2009 0950
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44583.D
Dilution:	1.0			Initial Weight/Volume:	5.91 g
Date Analyzed:	08/29/2009 0516			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.6
Dichlorodifluoromethane		ND J	*	1.1	5.3
Ethyl ether		ND		1.1	2.6
Isopropyl ether		ND		1.1	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.1	2.6
Hexachlorobutadiene		ND		1.1	2.6
Isopropylbenzene		ND		1.1	2.6
Methyl acetate		ND		17	53
2-Butanone (MEK)		ND		7.1	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.1	2.6
Methylcyclohexane		ND		1.1	2.6
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	26
N-Propylbenzene		ND		1.1	2.6
o-Xylene		ND		1.1	2.6
4-Isopropyltoluene		ND		1.1	2.6
sec-Butylbenzene		ND		1.1	2.6
Styrene		ND		1.1	2.6
Tert-amyl methyl ether		ND		1.1	2.6
tert-Butylbenzene		ND		1.1	2.6
Tetrachloroethene		ND		1.1	2.6
Tetrahydrofuran		ND		5.8	26
Toluene		ND		1.1	2.6
trans-1,2-Dichloroethene		ND		1.1	2.6
trans-1,3-Dichloropropene		ND		1.1	2.6
Trichloroethene		ND		1.1	2.6
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		70 - 130
Dibromofluoromethane	82		70 - 130
Toluene-d8 (Surr)	122		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-439-8.0/10-XXX**

Lab Sample ID: 360-24251-7
Client Matrix: Solid
% Moisture: 19.8

Date Sampled: 08/24/2009 0950
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44583.D
Dilution:	1.0			Initial Weight/Volume:	5.91 g
Date Analyzed:	08/29/2009 0516			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-440-0.0/1.0-XXX

Lab Sample ID: 360-24251-8
Client Matrix: Solid

% Moisture: 2.6

Date Sampled: 08/24/2009 1140
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44677.D
Dilution:	1.0			Initial Weight/Volume:	5.73 g
Date Analyzed:	09/02/2009 0501			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.90	2.2
1,1,1-Trichloroethane		ND		0.90	2.2
1,1,2,2-Tetrachloroethane		ND		0.90	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.90	11
1,1,2-Trichloroethane		ND		0.90	2.2
1,1-Dichloroethane		ND		0.90	2.2
1,1-Dichloroethene		ND		0.90	2.2
1,1-Dichloropropene		ND		0.90	2.2
1,2,3-Trichlorobenzene		ND		0.90	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.90	2.2
1,2,4-Trimethylbenzene		ND		0.90	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.90	2.2
1,2-Dichlorobenzene		ND		0.90	2.2
1,2-Dichloroethane		ND		0.90	2.2
Acetone		ND J	*	16	220
1,2-Dichloropropane		ND		0.90	2.2
1,3,5-Trimethylbenzene		ND		0.90	2.2
1,3-Dichlorobenzene		ND		0.90	2.2
1,3-Dichloropropane		ND		0.90	2.2
1,4-Dichlorobenzene		ND		0.90	2.2
1,4-Dioxane		ND J		30	220
2,2-Dichloropropane		ND		0.90	2.2
2,4,4-Trimethyl-1-pentene		ND		0.90	4.5
2,4,4-Trimethyl-2-pentene		ND		0.90	4.5
2-Chlorotoluene		ND		0.90	2.2
2-Hexanone		ND		4.6	22
4-Chlorotoluene		ND		0.90	2.2
Benzene		ND		0.90	2.2
Bromobenzene		ND		0.90	2.2
Chlorobromomethane		ND		0.90	2.2
Dichlorobromomethane		ND		0.90	2.2
Bromoform		ND		0.90	2.2
Bromomethane		ND		0.90	4.5
n-Butylbenzene		ND		0.90	2.2
Carbon disulfide		ND		0.90	2.2
Carbon tetrachloride		ND		0.90	2.2
Chlorobenzene		ND		0.90	2.2
Chloroethane		ND		0.90	4.5
Chloroform		ND		0.90	2.2
Chloromethane		ND		0.90	4.5
cis-1,2-Dichloroethene		ND		0.90	2.2
cis-1,3-Dichloropropene		ND		0.90	2.2
Cyclohexane		ND		2.3	22
Chlorodibromomethane		ND		0.90	2.2

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-440-0.0/1.0-XXX

Lab Sample ID: 360-24251-8
Client Matrix: Solid

% Moisture: 2.6

Date Sampled: 08/24/2009 1140
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44677.D
Dilution:	1.0			Initial Weight/Volume:	5.73 g
Date Analyzed:	09/02/2009 0501			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.90	2.2
Dichlorodifluoromethane		ND J	*	0.90	4.5
Ethyl ether		ND		0.90	2.2
Isopropyl ether		ND		0.90	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.90	2.2
Hexachlorobutadiene		ND		0.90	2.2
Isopropylbenzene		ND		0.90	2.2
Methyl acetate		ND	*	15	45
2-Butanone (MEK)		ND		6.0	22
4-Methyl-2-pentanone (MIBK)		ND		4.6	22
Methyl tert-butyl ether		ND		0.90	2.2
Methylcyclohexane		ND		0.90	2.2
Methylene Chloride		~~6.1~~ 9.0 U	~~J~~	4.3	9.0
m-Xylene & p-Xylene		ND		0.90	4.5
Naphthalene		ND		0.90	22
N-Propylbenzene		ND		0.90	2.2
o-Xylene		ND		0.90	2.2
4-Isopropyltoluene		ND		0.90	2.2
sec-Butylbenzene		ND		0.90	2.2
Styrene		ND		0.90	2.2
Tert-amyl methyl ether		ND		0.90	2.2
tert-Butylbenzene		ND		0.90	2.2
Tetrachloroethene		ND		0.90	2.2
Tetrahydrofuran		ND		4.9	22
Toluene		ND		0.90	2.2
trans-1,2-Dichloroethene		ND		0.90	2.2
trans-1,3-Dichloropropene		ND		0.90	2.2
Trichloroethene		ND		0.90	2.2
Trichlorofluoromethane		ND		0.90	4.5
Vinyl chloride		ND		0.90	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-440-0.0/1.0-XXX

Lab Sample ID: 360-24251-8
Client Matrix: Solid
% Moisture: 2.6

Date Sampled: 08/24/2009 1140
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44677.D
Dilution:	1.0			Initial Weight/Volume:	5.73 g
Date Analyzed:	09/02/2009 0501			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.04	2.6	T J

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-440-23/25-XXX

Lab Sample ID: 360-24251-9
Client Matrix: Solid

% Moisture: 8.7

Date Sampled: 08/24/2009 1230
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/08/2009 1144
Date Prepared: 09/06/2009 1657

Analysis Batch: 360-48655
Prep Batch: 360-48654

Instrument ID: HP #3 GC/MS
Lab File ID: V07513.D
Initial Weight/Volume: 6.22 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND	H	0.88	2.2
1,1,1-Trichloroethane		ND	H	0.88	2.2
1,1,2,2-Tetrachloroethane		ND	H	0.88	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	H	0.88	11
1,1,2-Trichloroethane		ND	H	0.88	2.2
1,1-Dichloroethane		ND	H	0.88	2.2
1,1-Dichloroethene		ND	H	0.88	2.2
1,1-Dichloropropene		ND	H	0.88	2.2
1,2,3-Trichlorobenzene		ND	H	0.88	2.2
1,2,3-Trichloropropane		ND	H	1.3	2.2
1,2,4-Trichlorobenzene		ND	H	0.88	2.2
1,2,4-Trimethylbenzene		ND	H	0.88	2.2
1,2-Dibromo-3-Chloropropane		ND	H	1.6	22
Ethylene Dibromide		ND	H	0.88	2.2
1,2-Dichlorobenzene		ND	H	0.88	2.2
1,2-Dichloroethane		ND	H	0.88	2.2
Acetone		ND	H	16	220
1,2-Dichloropropane		ND	H	0.88	2.2
1,3,5-Trimethylbenzene		ND	H	0.88	2.2
1,3-Dichlorobenzene		ND	H	0.88	2.2
1,3-Dichloropropane		ND	H	0.88	2.2
1,4-Dichlorobenzene		ND	H	0.88	2.2
1,4-Dioxane		~~ND~~	H *	29	220
2,2-Dichloropropane		ND	H	0.88	2.2
2,4,4-Trimethyl-1-pentene		ND	H	0.88	4.4
2,4,4-Trimethyl-2-pentene		ND	H	0.88	4.4
2-Chlorotoluene		ND	H	0.88	2.2
2-Hexanone		ND	H	4.5	22
4-Chlorotoluene		ND	H	0.88	2.2
Benzene		ND	H	0.88	2.2
Bromobenzene		ND	H	0.88	2.2
Chlorobromomethane		ND	H	0.88	2.2
Dichlorobromomethane		ND	H	0.88	2.2
Bromoform		ND	H	0.88	2.2
Bromomethane		ND	H	0.88	4.4
n-Butylbenzene		ND	H	0.88	2.2
Carbon disulfide		ND	H	0.88	2.2
Carbon tetrachloride		ND	H	0.88	2.2
Chlorobenzene		ND	H	0.88	2.2
Chloroethane		ND	H	0.88	4.4
Chloroform		ND	H	0.88	2.2
Chloromethane		ND	H	0.88	4.4
cis-1,2-Dichloroethene		ND	H	0.88	2.2
cis-1,3-Dichloropropene		ND	H	0.88	2.2
Cyclohexane		ND	H	2.3	22
Chlorodibromomethane		ND	H	0.88	2.2

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-440-23/25-XXX**

Lab Sample ID: 360-24251-9
Client Matrix: Solid

% Moisture: 8.7

Date Sampled: 08/24/2009 1230
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48655		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48654		Lab File ID:	V07513.D
Dilution:	1.0			Initial Weight/Volume:	6.22 g
Date Analyzed:	09/08/2009 1144			Final Weight/Volume:	5 g
Date Prepared:	09/06/2009 1657				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND J	H	0.88	2.2
Dichlorodifluoromethane		ND	H *	0.88	4.4
Ethyl ether		ND	H	0.88	2.2
Isopropyl ether		ND	H	0.88	2.2
Tert-butyl ethyl ether		ND	H	2.2	2.2
Ethylbenzene		ND	H	0.88	2.2
Hexachlorobutadiene		ND	H *	0.88	2.2
Isopropylbenzene		ND	H	0.88	2.2
Methyl acetate		ND	H	14	44
2-Butanone (MEK)		ND	H	5.9	22
4-Methyl-2-pentanone (MIBK)		ND	H	4.5	22
Methyl tert-butyl ether		ND	H	0.88	2.2
Methylcyclohexane		ND	H	0.88	2.2
Methylene Chloride		ND	H	4.3	8.8
m-Xylene & p-Xylene		ND	H	0.88	4.4
Naphthalene		ND	H	0.88	22
N-Propylbenzene		ND	H	0.88	2.2
o-Xylene		ND	H	0.88	2.2
4-Isopropyltoluene		ND	H	0.88	2.2
sec-Butylbenzene		ND	H	0.88	2.2
Styrene		ND	H	0.88	2.2
Tert-amyl methyl ether		ND	H	0.88	2.2
tert-Butylbenzene		ND	H	0.88	2.2
Tetrachloroethene		ND	H	0.88	2.2
Tetrahydrofuran		ND	H	4.8	22
Toluene		ND	H	0.88	2.2
trans-1,2-Dichloroethene		ND	H	0.88	2.2
trans-1,3-Dichloropropene		ND	H	0.88	2.2
Trichloroethene		ND	H	0.88	2.2
Trichlorofluoromethane		ND	H	0.88	4.4
Vinyl chloride		ND	H	0.88	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-440-23/25-XXX**

Lab Sample ID: 360-24251-9
Client Matrix: Solid % Moisture: 8.7

Date Sampled: 08/24/2009 1230
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48655		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48654		Lab File ID:	V07513.D
Dilution:	1.0			Initial Weight/Volume:	6.22 g
Date Analyzed:	09/08/2009 1144			Final Weight/Volume:	5 g
Date Prepared:	09/06/2009 1657				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
~~Unknown~~		~~3.00~~	~~5.0~~	~~T H J~~
827-54-3	Naphthalene, 2-ethenyl-	15.02	50	T H J N
101-84-8	Diphenyl ether	15.14	99	T H J N

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-440-6.0/8.0-XXX**

Lab Sample ID: 360-24251-10
Client Matrix: Solid

% Moisture: 9.6

Date Sampled: 08/24/2009 1150
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44517.D
Dilution:	1.0			Initial Weight/Volume:	5.11 g
Date Analyzed:	08/26/2009 2247			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	*	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND		36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND	*	1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-440-6.0/8.0-XXX**

Lab Sample ID: 360-24251-10
Client Matrix: Solid % Moisture: 9.6

Date Sampled: 08/24/2009 1150
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44517.D
Dilution:	1.0			Initial Weight/Volume:	5.11 g
Date Analyzed:	08/26/2009 2247			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND		1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND	J	18	54
2-Butanone (MEK)		ND		7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	107		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-440-6.0/8.0-XXX**

Lab Sample ID: 360-24251-10
Client Matrix: Solid
% Moisture: 9.6

Date Sampled: 08/24/2009 1150
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48231		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48229		Lab File ID:	V44517.D
Dilution:	1.0			Initial Weight/Volume:	5.11 g
Date Analyzed:	08/26/2009 2247			Final Weight/Volume:	5 g
Date Prepared:	08/26/2009 1610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.39	3.5	T J

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-TBK-006

Lab Sample ID: 360-24251-11
Client Matrix: Solid

Date Sampled: 08/24/2009 1430
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44678.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/02/2009 0526			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-TBK-006**

Lab Sample ID: 360-24251-11
Client Matrix: Solid

Date Sampled: 08/24/2009 1430
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44678.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/02/2009 0526			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND	*	16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		9.3	J	4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-TBK-006**

Lab Sample ID: 360-24251-11
Client Matrix: Solid

Date Sampled: 08/24/2009 1430
Date Received: 08/24/2009 1910

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44678.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/02/2009 0526			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-438-5.0/7.0-XXX**

Lab Sample ID: 360-24251-12
Client Matrix: Solid % Moisture: 12.8

Date Sampled: 08/24/2009 1650
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44584.D
Dilution:	1.0			Initial Weight/Volume:	5.69 g
Date Analyzed:	08/29/2009 0539			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-438-5.0/7.0-XXX

Lab Sample ID: 360-24251-12
Client Matrix: Solid

% Moisture: 12.8

Date Sampled: 08/24/2009 1650
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44584.D
Dilution:	1.0			Initial Weight/Volume:	5.69 g
Date Analyzed:	08/29/2009 0539			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	108		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-438-5.0/7.0-XXX

Lab Sample ID: 360-24251-12
Client Matrix: Solid

% Moisture: 12.8

Date Sampled: 08/24/2009 1650
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44584.D
Dilution:	1.0			Initial Weight/Volume:	5.69 g
Date Analyzed:	08/29/2009 0539			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

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Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-441-0.0/1.0-XXX**

Lab Sample ID: 360-24251-13
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 08/24/2009 1450
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44679.D
Dilution:	1.0			Initial Weight/Volume:	5.32 g
Date Analyzed:	09/02/2009 0549			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.97	2.4
1,1,1-Trichloroethane		ND		0.97	2.4
1,1,2,2-Tetrachloroethane		ND		0.97	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.97	12
1,1,2-Trichloroethane		ND		0.97	2.4
1,1-Dichloroethane		ND		0.97	2.4
1,1-Dichloroethene		ND		0.97	2.4
1,1-Dichloropropene		ND		0.97	2.4
1,2,3-Trichlorobenzene		ND		0.97	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.97	2.4
1,2,4-Trimethylbenzene		ND		0.97	2.4
1,2-Dibromo-3-Chloropropane		ND		1.8	24
Ethylene Dibromide		ND		0.97	2.4
1,2-Dichlorobenzene		ND		0.97	2.4
1,2-Dichloroethane		ND		0.97	2.4
Acetone		ND	J	17	240
1,2-Dichloropropane		ND		0.97	2.4
1,3,5-Trimethylbenzene		ND		0.97	2.4
1,3-Dichlorobenzene		ND		0.97	2.4
1,3-Dichloropropane		ND		0.97	2.4
1,4-Dichlorobenzene		ND		0.97	2.4
1,4-Dioxane		ND	J	32	240
2,2-Dichloropropane		ND		0.97	2.4
2,4,4-Trimethyl-1-pentene		ND		0.97	4.9
2,4,4-Trimethyl-2-pentene		ND		0.97	4.9
2-Chlorotoluene		ND		0.97	2.4
2-Hexanone		ND		5.0	24
4-Chlorotoluene		ND		0.97	2.4
Benzene		ND		0.97	2.4
Bromobenzene		ND		0.97	2.4
Chlorobromomethane		ND		0.97	2.4
Dichlorobromomethane		ND		0.97	2.4
Bromoform		ND		0.97	2.4
Bromomethane		ND		0.97	4.9
n-Butylbenzene		ND		0.97	2.4
Carbon disulfide		ND		0.97	2.4
Carbon tetrachloride		ND		0.97	2.4
Chlorobenzene		ND		0.97	2.4
Chloroethane		ND		0.97	4.9
Chloroform		ND		0.97	2.4
Chloromethane		ND		0.97	4.9
cis-1,2-Dichloroethene		ND		0.97	2.4
cis-1,3-Dichloropropene		ND		0.97	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.97	2.4

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Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-441-0.0/1.0-XXX

Lab Sample ID: 360-24251-13
Client Matrix: Solid

% Moisture: 3.5

Date Sampled: 08/24/2009 1450
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475	Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473	Lab File ID:	V44679.D
Dilution:	1.0		Initial Weight/Volume:	5.32 g
Date Analyzed:	09/02/2009 0549		Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.97	2.4
Dichlorodifluoromethane		ND J	*	0.97	4.9
Ethyl ether		ND		0.97	2.4
Isopropyl ether		ND		0.97	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.97	2.4
Hexachlorobutadiene		ND		0.97	2.4
Isopropylbenzene		ND		0.97	2.4
Methyl acetate		ND	*	16	49
2-Butanone (MEK)		ND		6.6	24
4-Methyl-2-pentanone (MIBK)		ND		5.0	24
Methyl tert-butyl ether		ND		0.97	2.4
Methylcyclohexane		ND		0.97	2.4
Methylene Chloride		ND		4.7	9.7
m-Xylene & p-Xylene		ND		0.97	4.9
Naphthalene		ND		0.97	24
N-Propylbenzene		ND		0.97	2.4
o-Xylene		ND		0.97	2.4
4-Isopropyltoluene		ND		0.97	2.4
sec-Butylbenzene		ND		0.97	2.4
Styrene		ND		0.97	2.4
Tert-amyl methyl ether		ND		0.97	2.4
tert-Butylbenzene		ND		0.97	2.4
Tetrachloroethene		ND		0.97	2.4
Tetrahydrofuran		ND		5.4	24
Toluene		ND		0.97	2.4
trans-1,2-Dichloroethene		ND		0.97	2.4
trans-1,3-Dichloropropene		ND		0.97	2.4
Trichloroethene		ND		0.97	2.4
Trichlorofluoromethane		ND		0.97	4.9
Vinyl chloride		ND		0.97	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	91		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-441-0.0/1.0-XXX

Lab Sample ID: 360-24251-13
Client Matrix: Solid

% Moisture: 3.5

Date Sampled: 08/24/2009 1450
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44679.D
Dilution:	1.0			Initial Weight/Volume:	5.32 g
Date Analyzed:	09/02/2009 0549			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.04	2.7	T J

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-441-8.0/10-XXX

Lab Sample ID: 360-24251-15
Client Matrix: Solid % Moisture: 11.0

Date Sampled: 08/24/2009 1455
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44585.D
Dilution:	1.0			Initial Weight/Volume:	5.97 g
Date Analyzed:	08/29/2009 0604			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.94	2.4
1,1,1-Trichloroethane		ND		0.94	2.4
1,1,2,2-Tetrachloroethane		ND		0.94	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.94	12
1,1,2-Trichloroethane		ND		0.94	2.4
1,1-Dichloroethane		ND		0.94	2.4
1,1-Dichloroethene		ND		0.94	2.4
1,1-Dichloropropene		ND		0.94	2.4
1,2,3-Trichlorobenzene		ND		0.94	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.94	2.4
1,2,4-Trimethylbenzene		ND		0.94	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.94	2.4
1,2-Dichlorobenzene		ND		0.94	2.4
1,2-Dichloroethane		ND		0.94	2.4
Acetone		ND J	*	17	240
1,2-Dichloropropane		ND		0.94	2.4
1,3,5-Trimethylbenzene		ND		0.94	2.4
1,3-Dichlorobenzene		ND		0.94	2.4
1,3-Dichloropropane		ND		0.94	2.4
1,4-Dichlorobenzene		ND		0.94	2.4
1,4-Dioxane		ND J		31	240
2,2-Dichloropropane		ND J		0.94	2.4
2,4,4-Trimethyl-1-pentene		ND		0.94	4.7
2,4,4-Trimethyl-2-pentene		ND		0.94	4.7
2-Chlorotoluene		ND		0.94	2.4
2-Hexanone		ND		4.8	24
4-Chlorotoluene		ND		0.94	2.4
Benzene		ND		0.94	2.4
Bromobenzene		ND		0.94	2.4
Chlorobromomethane		ND		0.94	2.4
Dichlorobromomethane		ND		0.94	2.4
Bromoform		ND		0.94	2.4
Bromomethane		ND		0.94	4.7
n-Butylbenzene		ND		0.94	2.4
Carbon disulfide		ND		0.94	2.4
Carbon tetrachloride		ND		0.94	2.4
Chlorobenzene		ND		0.94	2.4
Chloroethane		ND		0.94	4.7
Chloroform		ND		0.94	2.4
Chloromethane		ND		0.94	4.7
cis-1,2-Dichloroethene		ND		0.94	2.4
cis-1,3-Dichloropropene		ND		0.94	2.4
Cyclohexane		ND		2.4	24
Chlorodibromomethane		ND		0.94	2.4

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Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-441-8.0/10-XXX

Lab Sample ID: 360-24251-15
Client Matrix: Solid

% Moisture: 11.0

Date Sampled: 08/24/2009 1455
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/29/2009 0604
Date Prepared: 08/28/2009 1606

Analysis Batch: 360-48354
Prep Batch: 360-48353

Instrument ID: HP #1 GC/MS
Lab File ID: V44585.D
Initial Weight/Volume: 5.97 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.94	2.4
Dichlorodifluoromethane		ND J	*	0.94	4.7
Ethyl ether		ND		0.94	2.4
Isopropyl ether		ND		0.94	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.94	2.4
Hexachlorobutadiene		ND		0.94	2.4
Isopropylbenzene		ND		0.94	2.4
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.3	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.94	2.4
Methylcyclohexane		ND		0.94	2.4
Methylene Chloride		ND		4.6	9.4
m-Xylene & p-Xylene		ND		0.94	4.7
Naphthalene		ND		0.94	24
N-Propylbenzene		ND		0.94	2.4
o-Xylene		ND		0.94	2.4
4-Isopropyltoluene		ND		0.94	2.4
sec-Butylbenzene		ND		0.94	2.4
Styrene		ND		0.94	2.4
Tert-amyl methyl ether		ND		0.94	2.4
tert-Butylbenzene		ND		0.94	2.4
Tetrachloroethene		ND		0.94	2.4
Tetrahydrofuran		ND		5.2	24
Toluene		ND		0.94	2.4
trans-1,2-Dichloroethene		ND		0.94	2.4
trans-1,3-Dichloropropene		ND		0.94	2.4
Trichloroethene		ND		0.94	2.4
Trichlorofluoromethane		ND		0.94	4.7
Vinyl chloride		ND		0.94	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	107		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-441-8.0/10-XXX

Lab Sample ID: 360-24251-15
Client Matrix: Solid

% Moisture: 11.0

Date Sampled: 08/24/2009 1455
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44585.D
Dilution:	1.0			Initial Weight/Volume:	5.97 g
Date Analyzed:	08/29/2009 0604			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 8/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-446-0.0/1.0-XXX

Lab Sample ID: 360-24251-16
Client Matrix: Solid % Moisture: 5.1

Date Sampled: 08/25/2009 0805
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44680.D
Dilution:	1.0			Initial Weight/Volume:	4.88 g
Date Analyzed:	09/02/2009 0613			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-446-0.0/1.0-XXX

Lab Sample ID: 360-24251-16
Client Matrix: Solid

% Moisture: 5.1

Date Sampled: 08/25/2009 0805
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44680.D
Dilution:	1.0			Initial Weight/Volume:	4.88 g
Date Analyzed:	09/02/2009 0613			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND	*	18	54
2-Butanone (MEK)		ND		7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	91		70 - 130

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-446-0.0/1.0-XXX

Lab Sample ID: 360-24251-16
Client Matrix: Solid % Moisture: 5.1

Date Sampled: 08/25/2009 0805
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44680.D
Dilution:	1.0			Initial Weight/Volume:	4.88 g
Date Analyzed:	09/02/2009 0613			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-446-5.0/7.0-DUP**

Lab Sample ID: 360-24251-18
Client Matrix: Solid % Moisture: 18.3

Date Sampled: 08/25/2009 0820
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44586.D
Dilution:	1.0			Initial Weight/Volume:	5.97 g
Date Analyzed:	08/29/2009 0628			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.8	26
Ethylene Dibromide		ND	4	1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	4	18	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	4	34	260
2,2-Dichloropropane		ND	4	1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND	4	5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.6	26
Chlorodibromomethane		ND		1.0	2.6

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Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-446-5.0/7.0-DUP

Lab Sample ID: 360-24251-18
Client Matrix: Solid
% Moisture: 18.3

Date Sampled: 08/25/2009 0820
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44586.D
Dilution:	1.0			Initial Weight/Volume:	5.97 g
Date Analyzed:	08/29/2009 0628			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.1
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND J		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	51
2-Butanone (MEK)		ND		6.9	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.6	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND J		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	90		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-446-5.0/7.0-DUP**

Lab Sample ID: 360-24251-18
Client Matrix: Solid

% Moisture: 18.3

Date Sampled: 08/25/2009 0820
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44586.D
Dilution:	1.0			Initial Weight/Volume:	5.97 g
Date Analyzed:	08/29/2009 0628			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.06	2.2	T J

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Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-446-5.0/7.0-XXX

Lab Sample ID: 360-24251-19
Client Matrix: Solid

% Moisture: 21.4

Date Sampled: 08/25/2009 0820
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44587.D
Dilution:	1.0			Initial Weight/Volume:	5.82 g
Date Analyzed:	08/29/2009 0652			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		2.0	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND		20	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND		36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

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Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-446-5.0/7.0-XXX

Lab Sample ID: 360-24251-19
Client Matrix: Solid

% Moisture: 21.4

Date Sampled: 08/25/2009 0820
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44587.D
Dilution:	1.0			Initial Weight/Volume:	5.82 g
Date Analyzed:	08/29/2009 0652			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.5
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND J		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		18	55
2-Butanone (MEK)		ND		7.4	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.3	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND J		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-446-5.0/7.0-XXX

Lab Sample ID: 360-24251-19
Client Matrix: Solid

% Moisture: 21.4

Date Sampled: 08/25/2009 0820
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44587.D
Dilution:	1.0			Initial Weight/Volume:	5.82 g
Date Analyzed:	08/29/2009 0652			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.69	3.1	T J

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-448-0.0/1.0-XXX

Lab Sample ID: 360-24251-20
Client Matrix: Solid

% Moisture: 5.4

Date Sampled: 08/25/2009 1005
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/02/2009 0637
Date Prepared: 09/01/2009 1635

Analysis Batch: 360-48475
Prep Batch: 360-48473

Instrument ID: HP #1 GC/MS
Lab File ID: V44681.D
Initial Weight/Volume: 5.16 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.8	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND CJ	*	18	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND J		34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.6	26
Chlorodibromomethane		ND		1.0	2.6

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-448-0.0/1.0-XXX**

Lab Sample ID: 360-24251-20
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 08/25/2009 1005
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44681.D
Dilution:	1.0			Initial Weight/Volume:	5.16 g
Date Analyzed:	09/02/2009 0637			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.1
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND	*	17	51
2-Butanone (MEK)		ND		6.9	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.6	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	94		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-448-0.0/1.0-XXX**

Lab Sample ID: 360-24251-20
Client Matrix: Solid % Moisture: 5.4

Date Sampled: 08/25/2009 1005
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44681.D
Dilution:	1.0			Initial Weight/Volume:	5.16 g
Date Analyzed:	09/02/2009 0637			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
15220-85-6	1-Propene, 2-methyl-, tetramer	13.34	12	T J N
	Unknown	13.62	6.7	T J

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-448-17/19-XXX

Lab Sample ID: 360-24251-21
Client Matrix: Solid
% Moisture: 8.7

Date Sampled: 08/25/2009 1045
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44682.D
Dilution:	1.0			Initial Weight/Volume:	6.25 g
Date Analyzed:	09/02/2009 0702			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.88	2.2
1,1,1-Trichloroethane		ND		0.88	2.2
1,1,2,2-Tetrachloroethane		ND		0.88	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.88	11
1,1,2-Trichloroethane		ND		0.88	2.2
1,1-Dichloroethane		ND		0.88	2.2
1,1-Dichloroethene		ND		0.88	2.2
1,1-Dichloropropene		ND		0.88	2.2
1,2,3-Trichlorobenzene		ND		0.88	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.88	2.2
1,2,4-Trimethylbenzene		ND		0.88	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.88	2.2
1,2-Dichlorobenzene		ND		0.88	2.2
1,2-Dichloroethane		ND		0.88	2.2
Acetone		ND	J	16	220
1,2-Dichloropropane		ND		0.88	2.2
1,3,5-Trimethylbenzene		ND		0.88	2.2
1,3-Dichlorobenzene		ND		0.88	2.2
1,3-Dichloropropane		ND		0.88	2.2
1,4-Dichlorobenzene		ND		0.88	2.2
1,4-Dioxane		ND	J	29	220
2,2-Dichloropropane		ND		0.88	2.2
2,4,4-Trimethyl-1-pentene		ND		0.88	4.4
2,4,4-Trimethyl-2-pentene		ND		0.88	4.4
2-Chlorotoluene		ND		0.88	2.2
2-Hexanone		ND		4.5	22
4-Chlorotoluene		ND		0.88	2.2
Benzene		ND		0.88	2.2
Bromobenzene		ND		0.88	2.2
Chlorobromomethane		ND		0.88	2.2
Dichlorobromomethane		ND		0.88	2.2
Bromoform		ND		0.88	2.2
Bromomethane		ND		0.88	4.4
n-Butylbenzene		ND		0.88	2.2
Carbon disulfide		ND		0.88	2.2
Carbon tetrachloride		ND		0.88	2.2
Chlorobenzene		ND		0.88	2.2
Chloroethane		ND		0.88	4.4
Chloroform		ND		0.88	2.2
Chloromethane		ND		0.88	4.4
cis-1,2-Dichloroethene		ND		0.88	2.2
cis-1,3-Dichloropropene		ND		0.88	2.2
Cyclohexane		ND		2.3	22
Chlorodibromomethane		ND		0.88	2.2

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: OC-SB-448-17/19-XXX

Lab Sample ID: 360-24251-21
Client Matrix: Solid

% Moisture: 8.7

Date Sampled: 08/25/2009 1045
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44682.D
Dilution:	1.0			Initial Weight/Volume:	6.25 g
Date Analyzed:	09/02/2009 0702			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.88	2.2
Dichlorodifluoromethane		ND J	*	0.88	4.4
Ethyl ether		ND		0.88	2.2
Isopropyl ether		ND		0.88	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.88	2.2
Hexachlorobutadiene		ND		0.88	2.2
Isopropylbenzene		ND		0.88	2.2
Methyl acetate		ND	*	14	44
2-Butanone (MEK)		ND		5.9	22
4-Methyl-2-pentanone (MIBK)		ND		4.5	22
Methyl tert-butyl ether		ND		0.88	2.2
Methylcyclohexane		ND		0.88	2.2
Methylene Chloride		ND		4.2	8.8
m-Xylene & p-Xylene		ND		0.88	4.4
Naphthalene		ND		0.88	22
N-Propylbenzene		ND		0.88	2.2
o-Xylene		ND		0.88	2.2
4-Isopropyltoluene		ND		0.88	2.2
sec-Butylbenzene		ND		0.88	2.2
Styrene		ND		0.88	2.2
Tert-amyl methyl ether		ND		0.88	2.2
tert-Butylbenzene		ND		0.88	2.2
Tetrachloroethene		ND		0.88	2.2
Tetrahydrofuran		ND		4.8	22
Toluene		ND		0.88	2.2
trans-1,2-Dichloroethene		ND		0.88	2.2
trans-1,3-Dichloropropene		ND		0.88	2.2
Trichloroethene		ND		0.88	2.2
Trichlorofluoromethane		ND		0.88	4.4
Vinyl chloride		ND		0.88	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-448-17/19-XXX**

Lab Sample ID: 360-24251-21
Client Matrix: Solid % Moisture: 8.7

Date Sampled: 08/25/2009 1045
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44682.D
Dilution:	1.0			Initial Weight/Volume:	6.25 g
Date Analyzed:	09/02/2009 0702			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

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Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-448-8.0/10-XXX**

Lab Sample ID: 360-24251-22
Client Matrix: Solid

% Moisture: 11.6

Date Sampled: 08/25/2009 1030
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44588.D
Dilution:	1.0			Initial Weight/Volume:	7.05 g
Date Analyzed:	08/29/2009 0716			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.80	2.0
1,1,1-Trichloroethane		ND		0.80	2.0
1,1,2,2-Tetrachloroethane		ND		0.80	2.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.80	10
1,1,2-Trichloroethane		ND		0.80	2.0
1,1-Dichloroethane		ND		0.80	2.0
1,1-Dichloroethene		ND		0.80	2.0
1,1-Dichloropropene		ND		0.80	2.0
1,2,3-Trichlorobenzene		ND		0.80	2.0
1,2,3-Trichloropropane		ND		1.2	2.0
1,2,4-Trichlorobenzene		ND		0.80	2.0
1,2,4-Trimethylbenzene		ND		0.80	2.0
1,2-Dibromo-3-Chloropropane		ND		1.4	20
Ethylene Dibromide		ND		0.80	2.0
1,2-Dichlorobenzene		ND		0.80	2.0
1,2-Dichloroethane		ND		0.80	2.0
Acetone		ND	*	14	200
1,2-Dichloropropane		ND		0.80	2.0
1,3,5-Trimethylbenzene		ND		0.80	2.0
1,3-Dichlorobenzene		ND		0.80	2.0
1,3-Dichloropropane		ND		0.80	2.0
1,4-Dichlorobenzene		ND		0.80	2.0
1,4-Dioxane		ND		26	200
2,2-Dichloropropane		ND		0.80	2.0
2,4,4-Trimethyl-1-pentene		ND		0.80	4.0
2,4,4-Trimethyl-2-pentene		ND		0.80	4.0
2-Chlorotoluene		ND		0.80	2.0
2-Hexanone		ND		4.1	20
4-Chlorotoluene		ND		0.80	2.0
Benzene		ND		0.80	2.0
Bromobenzene		ND		0.80	2.0
Chlorobromomethane		ND		0.80	2.0
Dichlorobromomethane		ND		0.80	2.0
Bromoform		ND		0.80	2.0
Bromomethane		ND		0.80	4.0
n-Butylbenzene		ND		0.80	2.0
Carbon disulfide		1.3	J	0.80	2.0
Carbon tetrachloride		ND		0.80	2.0
Chlorobenzene		ND		0.80	2.0
Chloroethane		ND		0.80	4.0
Chloroform		ND		0.80	2.0
Chloromethane		ND		0.80	4.0
cis-1,2-Dichloroethene		ND		0.80	2.0
cis-1,3-Dichloropropene		ND		0.80	2.0
Cyclohexane		ND		2.1	20
Chlorodibromomethane		ND		0.80	2.0

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-448-8.0/10-XXX**

Lab Sample ID: 360-24251-22
Client Matrix: Solid
% Moisture: 11.6

Date Sampled: 08/25/2009 1030
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44588.D
Dilution:	1.0			Initial Weight/Volume:	7.05 g
Date Analyzed:	08/29/2009 0716			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.80	2.0
Dichlorodifluoromethane		ND J	*	0.80	4.0
Ethyl ether		ND		0.80	2.0
Isopropyl ether		ND		0.80	2.0
Tert-butyl ethyl ether		ND		2.0	2.0
Ethylbenzene		ND		0.80	2.0
Hexachlorobutadiene		ND		0.80	2.0
Isopropylbenzene		ND		0.80	2.0
Methyl acetate		ND		13	40
2-Butanone (MEK)		ND		5.4	20
4-Methyl-2-pentanone (MIBK)		ND		4.1	20
Methyl tert-butyl ether		ND		0.80	2.0
Methylcyclohexane		ND		0.80	2.0
Methylene Chloride		ND		3.9	8.0
m-Xylene & p-Xylene		ND		0.80	4.0
Naphthalene		ND		0.80	20
N-Propylbenzene		ND		0.80	2.0
o-Xylene		ND		0.80	2.0
4-Isopropyltoluene		ND		0.80	2.0
sec-Butylbenzene		ND		0.80	2.0
Styrene		ND		0.80	2.0
Tert-amyl methyl ether		ND		0.80	2.0
tert-Butylbenzene		ND		0.80	2.0
Tetrachloroethene		ND		0.80	2.0
Tetrahydrofuran		ND		4.4	20
Toluene		ND		0.80	2.0
trans-1,2-Dichloroethene		ND		0.80	2.0
trans-1,3-Dichloropropene		ND		0.80	2.0
Trichloroethene		ND		0.80	2.0
Trichlorofluoromethane		ND		0.80	4.0
Vinyl chloride		ND		0.80	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-448-8.0/10-XXX**

Lab Sample ID: 360-24251-22
Client Matrix: Solid
% Moisture: 11.6

Date Sampled: 08/25/2009 1030
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44588.D
Dilution:	1.0			Initial Weight/Volume:	7.05 g
Date Analyzed:	08/29/2009 0716			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	11.43	6.8	T J
92-52-4	Biphenyl	16.14	13	T J N
101-84-8	Diphenyl ether	16.45	12	T J N

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-438-0.0/1.0-XXX**

Lab Sample ID: 360-24251-23
Client Matrix: Solid
% Moisture: 5.6

Date Sampled: 08/24/2009 1645
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44683.D
Dilution:	1.0			Initial Weight/Volume:	4.90 g
Date Analyzed:	09/02/2009 0726			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J *	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-438-0.0/1.0-XXX**

Lab Sample ID: 360-24251-23
Client Matrix: Solid
% Moisture: 5.6

Date Sampled: 08/24/2009 1645
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44683.D
Dilution:	1.0			Initial Weight/Volume:	4.90 g
Date Analyzed:	09/02/2009 0726			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND	*	18	54
2-Butanone (MEK)		ND		7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	91		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-438-0.0/1.0-XXX**

Lab Sample ID: 360-24251-23
Client Matrix: Solid
% Moisture: 5.6

Date Sampled: 08/24/2009 1645
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44683.D
Dilution:	1.0			Initial Weight/Volume:	4.90 g
Date Analyzed:	09/02/2009 0726			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-438-20/22-XXX**

Lab Sample ID: 360-24251-24
Client Matrix: Solid

% Moisture: 8.2

Date Sampled: 08/24/2009 1720
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44684.D
Dilution:	1.0			Initial Weight/Volume:	6.41 g
Date Analyzed:	09/02/2009 0750			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.85	2.1
1,1,1-Trichloroethane		ND		0.85	2.1
1,1,2,2-Tetrachloroethane		ND		0.85	2.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.85	11
1,1,2-Trichloroethane		ND		0.85	2.1
1,1-Dichloroethane		ND		0.85	2.1
1,1-Dichloroethene		ND		0.85	2.1
1,1-Dichloropropene		ND		0.85	2.1
1,2,3-Trichlorobenzene		ND		0.85	2.1
1,2,3-Trichloropropane		ND		1.3	2.1
1,2,4-Trichlorobenzene		ND		0.85	2.1
1,2,4-Trimethylbenzene		ND		0.85	2.1
1,2-Dibromo-3-Chloropropane		ND		1.5	21
Ethylene Dibromide		ND		0.85	2.1
1,2-Dichlorobenzene		ND		0.85	2.1
1,2-Dichloroethane		ND		0.85	2.1
Acetone		ND J	*	15	210
1,2-Dichloropropane		ND		0.85	2.1
1,3,5-Trimethylbenzene		ND		0.85	2.1
1,3-Dichlorobenzene		ND		0.85	2.1
1,3-Dichloropropane		ND		0.85	2.1
1,4-Dichlorobenzene		ND		0.85	2.1
1,4-Dioxane		ND J		28	210
2,2-Dichloropropane		ND		0.85	2.1
2,4,4-Trimethyl-1-pentene		ND		0.85	4.2
2,4,4-Trimethyl-2-pentene		ND		0.85	4.2
2-Chlorotoluene		ND		0.85	2.1
2-Hexanone		ND		4.4	21
4-Chlorotoluene		ND		0.85	2.1
Benzene		ND		0.85	2.1
Bromobenzene		ND		0.85	2.1
Chlorobromomethane		ND		0.85	2.1
Dichlorobromomethane		ND		0.85	2.1
Bromoform		ND		0.85	2.1
Bromomethane		ND		0.85	4.2
n-Butylbenzene		ND		0.85	2.1
Carbon disulfide		ND		0.85	2.1
Carbon tetrachloride		ND		0.85	2.1
Chlorobenzene		ND		0.85	2.1
Chloroethane		ND		0.85	4.2
Chloroform		ND		0.85	2.1
Chloromethane		ND		0.85	4.2
cis-1,2-Dichloroethene		ND		0.85	2.1
cis-1,3-Dichloropropene		ND		0.85	2.1
Cyclohexane		ND		2.2	21
Chlorodibromomethane		ND		0.85	2.1

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Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-438-20/22-XXX**

Lab Sample ID: 360-24251-24
Client Matrix: Solid % Moisture: 8.2

Date Sampled: 08/24/2009 1720
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44684.D
Dilution:	1.0			Initial Weight/Volume:	6.41 g
Date Analyzed:	09/02/2009 0750			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.85	2.1
Dichlorodifluoromethane		ND J	*	0.85	4.2
Ethyl ether		ND		0.85	2.1
Isopropyl ether		ND		0.85	2.1
Tert-butyl ethyl ether		ND		2.1	2.1
Ethylbenzene		ND		0.85	2.1
Hexachlorobutadiene		ND		0.85	2.1
Isopropylbenzene		ND		0.85	2.1
Methyl acetate		ND	*	14	42
2-Butanone (MEK)		ND		5.7	21
4-Methyl-2-pentanone (MIBK)		ND		4.4	21
Methyl tert-butyl ether		ND		0.85	2.1
Methylcyclohexane		ND		0.85	2.1
Methylene Chloride		ND		4.1	8.5
m-Xylene & p-Xylene		ND		0.85	4.2
Naphthalene		ND		0.85	21
N-Propylbenzene		ND		0.85	2.1
o-Xylene		ND		0.85	2.1
4-Isopropyltoluene		ND		0.85	2.1
sec-Butylbenzene		ND		0.85	2.1
Styrene		ND		0.85	2.1
Tert-amyl methyl ether		ND		0.85	2.1
tert-Butylbenzene		ND		0.85	2.1
Tetrachloroethene		ND		0.85	2.1
Tetrahydrofuran		ND		4.7	21
Toluene		ND		0.85	2.1
trans-1,2-Dichloroethene		ND		0.85	2.1
trans-1,3-Dichloropropene		ND		0.85	2.1
Trichloroethene		ND		0.85	2.1
Trichlorofluoromethane		ND		0.85	4.2
Vinyl chloride		ND		0.85	2.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-SB-438-20/22-XXX**

Lab Sample ID: 360-24251-24
Client Matrix: Solid
% Moisture: 8.2

Date Sampled: 08/24/2009 1720
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44684.D
Dilution:	1.0			Initial Weight/Volume:	6.41 g
Date Analyzed:	09/02/2009 0750			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-TBK-007**

Lab Sample ID: 360-24251-25
Client Matrix: Solid

Date Sampled: 08/25/2009 1450
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44685.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/02/2009 0813			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-TBK-007**

Lab Sample ID: 360-24251-25
Client Matrix: Solid

Date Sampled: 08/25/2009 1450
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44685.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/02/2009 0813			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND	*	16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-TBK-007**

Lab Sample ID: 360-24251-25
Client Matrix: Solid

Date Sampled: 08/25/2009 1450
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44685.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/02/2009 0813			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	1.1	T J

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-EBK-004**

Lab Sample ID: 360-24251-26
Client Matrix: Water

Date Sampled: 08/24/2009 1820
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/03/2009 0713
Date Prepared: 09/03/2009 0713

Analysis Batch: 360-48523

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06674.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND	*	0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND	*	0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND	*	0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	4.1		0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

TC 3/28/10

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-EBK-004**

Lab Sample ID: 360-24251-26
Client Matrix: Water

Date Sampled: 08/24/2009 1820
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/03/2009 0713
Date Prepared: 09/03/2009 0713

Analysis Batch: 360-48523

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06674.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND	*	0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	83		70 - 130
Dibromofluoromethane	129		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Olin Corporation

Job Number: 360-24251-1
Sdg Number: OCRI-05

Client Sample ID: **OC-EBK-004**

Lab Sample ID: 360-24251-26
Client Matrix: Water

Date Sampled: 08/24/2009 1820
Date Received: 08/25/2009 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48523		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06674.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	09/03/2009 0713			Final Weight/Volume:	5 mL
Date Prepared:	09/03/2009 0713				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	2.00	2.5	T J
	Unknown	2.96	0.97	T J

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab File ID: V06326.D BFB Injection Date: 08/24/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 11:51

Analysis Batch No.: 48065

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.8	
75	30.0 - 60.0 % of mass 95	53.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.5	(0.9)1
174	50.0 - 120.00 % of mass 95	61.5	
175	5.0 - 9.0 % of mass 174	4.5	(7.3)1
176	95.0 - 101.0 % of mass 174	59.3	(96.5)1
177	5.0 - 9.0 % of mass 176	3.8	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48065/2	V06327.D	08/24/2009	12:12
	STD03 360-48065/4	V06329.D	08/24/2009	12:54
	STD05 360-48065/5	V06330.D	08/24/2009	13:15
	STD1 360-48065/6	V06331.D	08/24/2009	13:37
	STD5 360-48065/7	V06332.D	08/24/2009	13:58
	STD10 360-48065/8	V06333.D	08/24/2009	14:19
	STD40 360-48065/9	V06334.D	08/24/2009	14:40
	STD80 360-48065/10	V06335.D	08/24/2009	15:01
	STD160 360-48065/11	V06336.D	08/24/2009	15:22

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FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab File ID: V06655.D BFB Injection Date: 09/03/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 00:36

Analysis Batch No.: 48523

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.8	
75	30.0 - 60.0 % of mass 95	55.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.4	(0.7)1
174	50.0 - 120.00 % of mass 95	60.6	
175	5.0 - 9.0 % of mass 174	4.4	(7.3)1
176	95.0 - 101.0 % of mass 174	58.1	(95.9)1
177	5.0 - 9.0 % of mass 176	3.8	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48523/2	V06656.D	09/03/2009	00:57
	LCS 360-48523/3	V06657.D	09/03/2009	01:18
	LCSD 360-48523/4	V06658.D	09/03/2009	01:39
	MB 360-48523/6	V06660.D	09/03/2009	02:21
OC-EBK-004	360-24251-26	V06674.D	09/03/2009	07:13

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T2

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab File ID: V44418.D BFB Injection Date: 08/24/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 17:23

Analysis Batch No.: 48090

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	42.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	76.7	
175	5.0 - 9.0 % of mass 174	6.0	(7.8)1
176	95.0 - 101.0 % of mass 174	75.2	(98.1)1
177	5.0 - 9.0 % of mass 176	5.0	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48090/2	V44419.D	08/24/2009	17:47
	STD0005 360-48090/3	V44421.D	08/24/2009	18:35
	STD001 360-48090/4	V44422.D	08/24/2009	18:59
	STD005 360-48090/5	V44423.D	08/24/2009	19:24
	STD010 360-48090/6	V44424.D	08/24/2009	19:48
	STD040 360-48090/7	V44425.D	08/24/2009	20:13
	STD080 360-48090/8	V44426.D	08/24/2009	20:37
	ICV 360-48090/10	V44456.D	08/25/2009	15:29

3/28/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab File ID: V44454.D BFB Injection Date: 08/25/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 14:41

Analysis Batch No.: 48140

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.3	
75	30.0 - 60.0 % of mass 95	43.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	75.8	
175	5.0 - 9.0 % of mass 174	5.6	(7.4)1
176	95.0 - 101.0 % of mass 174	74.4	(98.1)1
177	5.0 - 9.0 % of mass 176	5.0	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48140/2	V44455.D	08/25/2009	15:05
	LCS 360-48139/1-A	V44457.D	08/25/2009	15:54
	LCSD 360-48139/2-A	V44458.D	08/25/2009	16:18
	MB 360-48139/3-A	V44462.D	08/25/2009	17:56
OC-SB-439-8.0/10-XXX	360-24251-7	V44473.D	08/25/2009	22:23

Acetone @ 51% UJ associated

Acetone @ 61% UJ associated

CCV

Dichlorodifluoromethae 27.1

Acetone -27.7

Methyl Acetate -31

2 4 4 trimethyl -1- pentene 25.5

} UJ All Associated

3/29/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab File ID: V44502.D BFB Injection Date: 08/26/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:39

Analysis Batch No.: 48231

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.6	
75	30.0 - 60.0 % of mass 95	42.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	75.7	
175	5.0 - 9.0 % of mass 174	5.9	(7.8)1
176	95.0 - 101.0 % of mass 174	73.2	(96.6)1
177	5.0 - 9.0 % of mass 176	4.9	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48231/2	V44503.D	08/26/2009	17:03
	LCS 360-48229/1-A	V44504.D	08/26/2009	17:27
	LCSD 360-48229/2-A	V44505.D	08/26/2009	17:51
OC-SB-433-5.0/7.0-XXX MS	360-24251-4 MS	V44506.D	08/26/2009	18:15
OC-SB-433-5.0/7.0-XXX MSD	360-24251-4 MSD	V44507.D	08/26/2009	18:39
	MB 360-48229/3-A	V44509.D	08/26/2009	19:26
OC-SB-433-5.0/7.0-XXX	360-24251-4	V44515.D	08/26/2009	21:56
OC-SB-440-6.0/8.0-XXX	360-24251-10	V44517.D	08/26/2009	22:47

CCV (UJ)
Acetone -35.2
Methyl Acetate -30.4
244TMP-1 29.8

Acetone @ 52% UJ Qual associated

MS/MSD outliers

MS/MSD
Acetone 66%/67%
Dichlorodifluoromethane MSD 68% } UJ unspiked and Field dup

3/28/10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab File ID: V44574.D BFB Injection Date: 08/29/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 01:39

Analysis Batch No.: 48354

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	42.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	81.4	
175	5.0 - 9.0 % of mass 174	6.3	(7.8)1
176	95.0 - 101.0 % of mass 174	78.4	(96.2)1
177	5.0 - 9.0 % of mass 176	5.2	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48354/2	V44575.D	08/29/2009	02:03
	LCS 360-48353/1-A	V44576.D	08/29/2009	02:27
	LCSD 360-48353/2-A	V44577.D	08/29/2009	02:51
OC-SB-446-5.0/7.0-XXX MS	360-24251-19 MS	V44578.D	08/29/2009	03:15
OC-SB-446-5.0/7.0-XXX MSD	360-24251-19 MSD	V44579.D	08/29/2009	03:39
	MB 360-48353/3-A	V44581.D	08/29/2009	04:27
OC-SB-433-5.0/7.0-DUP	360-24251-3	V44582.D	08/29/2009	04:51
OC-SB-439-8.0/10-XXX	360-24251-7	V44583.D	08/29/2009	05:16
OC-SB-438-5.0/7.0-XXX	360-24251-12	V44584.D	08/29/2009	05:39
OC-SB-441-8.0/10-XXX	360-24251-15	V44585.D	08/29/2009	06:04
OC-SB-446-5.0/7.0-DUP	360-24251-18	V44586.D	08/29/2009	06:28
OC-SB-446-5.0/7.0-XXX	360-24251-19	V44587.D	08/29/2009	06:52
OC-SB-448-8.0/10-XXX	360-24251-22	V44588.D	08/29/2009	07:16

MS/MSD %Rec out

Compound	MS	MSD
Ethylene dibromide	68	67
Acetone	57	56
2-hexanone	65	63
Dichlorodifluoromethane	65	
Hexachlorobutadiene	64	
trans 1,3-dichloropropene	69	69

UJ in unspiked and Dup?

LCS/LCSD Acetone 68%/61%

Dichlorodifluoromethane 57%/50%

no hits UJ associated

CCV %D	UJ All
2,2-Dichloropropane	-25.9

3/28/10 TV

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab File ID: V44666.D BFB Injection Date: 09/02/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 00:36

Analysis Batch No.: 48475

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.2	
75	30.0 - 60.0 % of mass 95	45.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	76.1	
175	5.0 - 9.0 % of mass 174	5.8	(7.6)1
176	95.0 - 101.0 % of mass 174	74.5	(97.9)1
177	5.0 - 9.0 % of mass 176	4.8	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48475/2	V44667.D	09/02/2009	01:00
	LCS 360-48473/1-A	V44668.D	09/02/2009	01:24
	LCSD 360-48473/2-A	V44669.D	09/02/2009	01:48
	MB 360-48473/3-A	V44673.D	09/02/2009	03:25
OC-SB-433-0.0/1.0-XXX	360-24251-1	V44675.D	09/02/2009	04:13
OC-SB-439-0.0-1.0-XXX	360-24251-5	V44676.D	09/02/2009	04:37
OC-SB-440-0.0/1.0-XXX	360-24251-8	V44677.D	09/02/2009	05:01
OC-TBK-006	360-24251-11	V44678.D	09/02/2009	05:26
OC-SB-441-0.0/1.0-XXX	360-24251-13	V44679.D	09/02/2009	05:49
OC-SB-446-0.0/1.0-XXX	360-24251-16	V44680.D	09/02/2009	06:13
OC-SB-448-0.0/1.0-XXX	360-24251-20	V44681.D	09/02/2009	06:37
OC-SB-448-17/19-XXX	360-24251-21	V44682.D	09/02/2009	07:02
OC-SB-438-0.0/1.0-XXX	360-24251-23	V44683.D	09/02/2009	07:26
OC-SB-438-20/22-XXX	360-24251-24	V44684.D	09/02/2009	07:50
OC-TBK-007	360-24251-25	V44685.D	09/02/2009	08:13

% Recovery
LCS/LCSD
Acetone 66/56
Dichlorodifluoromethane 51/49 } UJ Associated

TC
3/28/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab File ID: V07455.D BFB Injection Date: 09/04/2009

Instrument ID: HP #3 GC/MS BFB Injection Time: 14:59

Analysis Batch No.: 48619

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	57.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.6	
175	5.0 - 9.0 % of mass 174	6.3	(7.0)1
176	95.0 - 101.0 % of mass 174	88.6	(97.9)1
177	5.0 - 9.0 % of mass 176	5.6	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48619/2	V07456.D	09/04/2009	15:22
	STD0005 360-48619/3	V07458.D	09/04/2009	16:08
	STD001 360-48619/4	V07459.D	09/04/2009	16:31
	STD005 360-48619/5	V07460.D	09/04/2009	16:53
	STD010 360-48619/6	V07461.D	09/04/2009	17:16
	STD040 360-48619/7	V07462.D	09/04/2009	17:39
	STD080 360-48619/8	V07463.D	09/04/2009	18:02

3/28/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab File ID: V07507.D BFB Injection Date: 09/08/2009

Instrument ID: HP #3 GC/MS BFB Injection Time: 09:28

Analysis Batch No.: 48655

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.6	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.7	
175	5.0 - 9.0 % of mass 174	6.6	(7.3)1
176	95.0 - 101.0 % of mass 174	90.0	(99.2)1
177	5.0 - 9.0 % of mass 176	5.9	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48655/2	V07508.D	09/08/2009	09:51
	LCS 360-48654/1-A	V07509.D	09/08/2009	10:14
	LCSD 360-48654/2-A	V07510.D	09/08/2009	10:36
	MB 360-48654/3-A	V07512.D	09/08/2009	11:21
OC-SB-440-23/25-XXX	360-24251-9	V07513.D	09/08/2009	11:44

Dichlorodifluoromethane 61% in LCSD
UJ associated

CCV %D
1,4-Dioxane 57.3% Rejected from I-cal
Hexachlorobutadiene 36.8

3/28/10
TC

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-433-0.0/1.0-XXX	360-24251-1	107	93	107
OC-SB-433-5.0/7.0-DUP	360-24251-3	104	92	104
OC-SB-433-5.0/7.0-XXX	360-24251-4	105	95	98
OC-SB-439-0.0-1.0-XXX	360-24251-5	105	92	100
OC-SB-439-8.0/10-XXX	360-24251-7	104	95	103
OC-SB-439-8.0/10-XXX	360-24251-7	82	122	89
OC-SB-440-0.0/1.0-XXX	360-24251-8	105	92	105
OC-SB-440-23/25-XXX	360-24251-9	103	97	102
OC-SB-440-6.0/8.0-XXX	360-24251-10	107	97	95
OC-TBK-006	360-24251-11	105	92	105
OC-SB-438-5.0/7.0-XXX	360-24251-12	108	92	103
OC-SB-441-0.0/1.0-XXX	360-24251-13	104	91	104
OC-SB-441-8.0/10-XXX	360-24251-15	107	93	103
OC-SB-446-0.0/1.0-XXX	360-24251-16	101	91	104
OC-SB-446-5.0/7.0-DUP	360-24251-18	103	90	103
OC-SB-446-5.0/7.0-XXX	360-24251-19	103	94	101
OC-SB-448-0.0/1.0-XXX	360-24251-20	106	94	104
OC-SB-448-17/19-XXX	360-24251-21	103	92	102
OC-SB-448-8.0/10-XXX	360-24251-22	106	92	104
OC-SB-438-0.0/1.0-XXX	360-24251-23	103	91	104
OC-SB-438-20/22-XXX	360-24251-24	103	92	104
OC-TBK-007	360-24251-25	106	92	105
	MB 360-48139/3-A	103	97	103
	MB 360-48229/3-A	98	95	102
	MB 360-48353/3-A	103	92	103
	MB 360-48473/3-A	104	95	101

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

09/23/2009

3/28/10

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48523/2 Date Analyzed: 09/03/2009 00:57

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06656.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		21284	6.15	432844	6.46	216376	9.52
UPPER LIMIT		42568	6.65	865688	6.96	432752	10.02
LOWER LIMIT		10642	5.65	216422	5.96	108188	9.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48523/3		20577	6.15	429990	6.46	216284	9.52
LCSD 360-48523/4		21900	6.15	437078	6.46	218060	9.52
MB 360-48523/6		18721	6.15	359895	6.46	169886	9.52
360-24251-26	OC-EBK-004	18264	6.15	312558	6.46	154670	9.52

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/25/10 TC

FORM VIII 8260B

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48523/2 Date Analyzed: 09/03/2009 00:57

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06656.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		93492	11.49				
UPPER LIMIT		186984	11.99				
LOWER LIMIT		46746	10.99				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48523/3		93251	11.49				
LCSD 360-48523/4		94181	11.49				
MB 360-48523/6		60063	11.49				
360-24251-26	OC-EBK-004	53338	11.49				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 3/25/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48140/2 Date Analyzed: 08/25/2009 15:05

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44455.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20990	5.67	455463	5.90	299938	8.34
UPPER LIMIT		41980	6.17	910926	6.40	599876	8.84
LOWER LIMIT		10495	5.17	227732	5.40	149969	7.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48139/1-A		19721	5.68	457051	5.90	291744	8.34
LCSD 360-48139/2-A		20003	5.67	449961	5.90	293775	8.34
MB 360-48139/3-A		18333	5.66	405364	5.90	259938	8.34
360-24251-7	OC-SB-439-8.0/10-XXX	19136	5.67	403567	5.90	257722	8.34

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 3/28/10

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48140/2 Date Analyzed: 08/25/2009 15:05

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44455.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		153267	10.15				
UPPER LIMIT		306534	10.65				
LOWER LIMIT		76634	9.65				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48139/1-A		153428	10.15				
LCSD 360-48139/2-A		154520	10.15				
MB 360-48139/3-A		152014	10.15				
360-24251-7	OC-SB-439-8.0/10-XXX	150838	10.15				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/28/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48231/2 Date Analyzed: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44503.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		19402	5.68	442711	5.90	266996	8.35
UPPER LIMIT		38804	6.18	885422	6.40	533992	8.85
LOWER LIMIT		9701	5.18	221356	5.40	133498	7.85
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48229/1-A		21631	5.68	447786	5.90	272552	8.35
LCSD 360-48229/2-A		20345	5.68	464081	5.90	284765	8.35
360-24251-4 MS	OC-SB-433-5.0/7.0-XXX MS	19363	5.68	434112	5.90	263936	8.34
360-24251-4 MSD	OC-SB-433-5.0/7.0-XXX MSD	20776	5.67	436967	5.90	262961	8.35
MB 360-48229/3-A		17128	5.67	400582	5.90	245529	8.34
360-24251-4	OC-SB-433-5.0/7.0-XXX	19633	5.67	427576	5.90	268316	8.34
360-24251-10	OC-SB-440-6.0/8.0-XXX	20655	5.68	425016	5.90	275150	8.34

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/28/10
TC

FORM VIII 8260B

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48231/2 Date Analyzed: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44503.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		141134	10.16				
UPPER LIMIT		282268	10.66				
LOWER LIMIT		70567	9.66				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48229/1-A		143776	10.16				
LCSD 360-48229/2-A		150803	10.16				
360-24251-4 MS	OC-SB-433-5.0/7.0-XXX MS	139985	10.16				
360-24251-4 MSD	OC-SB-433-5.0/7.0-XXX MSD	135742	10.15				
MB 360-48229/3-A		133434	10.15				
360-24251-4	OC-SB-433-5.0/7.0-XXX	150560	10.16				
360-24251-10	OC-SB-440-6.0/8.0-XXX	148980	10.16				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/28/10 TC

FORM VIII 8260B

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48354/2 Date Analyzed: 08/29/2009 02:03

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44575.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		21627	5.66	482491	5.89	292934	8.34
UPPER LIMIT		43254	6.16	964982	6.39	585868	8.84
LOWER LIMIT		10814	5.16	241246	5.39	146467	7.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48353/1-A		20763	5.66	459717	5.89	265477	8.34
LCSD 360-48353/2-A		21337	5.67	477090	5.89	299190	8.34
360-24251-19 MS	OC-SB-446-5.0/7.0-XXX MS	19790	5.67	456365	5.89	255125	8.34
360-24251-19 MSD	OC-SB-446-5.0/7.0-XXX MSD	19611	5.66	459866	5.89	252621	8.34
MB 360-48353/3-A		18849	5.66	410877	5.89	244301	8.34
360-24251-3	OC-SB-433-5.0/7.0-DUP	17708	5.67	391637	5.89	229390	8.34
360-24251-7	OC-SB-439-8.0/10-XXX	2307*	5.67	46714*	5.89	37849*	8.34
360-24251-12	OC-SB-438-5.0/7.0-XXX	18934	5.67	392739	5.89	230968	8.34
360-24251-15	OC-SB-441-8.0/10-XXX	19400	5.67	398426	5.90	236026	8.34
360-24251-18	OC-SB-446-5.0/7.0-DUP	17280	5.66	398103	5.90	224112	8.34
360-24251-19	OC-SB-446-5.0/7.0-XXX	18809	5.67	408649	5.90	246448	8.34
360-24251-22	OC-SB-448-8.0/10-XXX	18686	5.67	403712	5.90	236094	8.34

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/28/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48354/2 Date Analyzed: 08/29/2009 02:03

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44575.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		148962	10.15				
UPPER LIMIT		297924	10.65				
LOWER LIMIT		74481	9.65				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48353/1-A		143884	10.15				
LCSD 360-48353/2-A		146782	10.15				
360-24251-19 MS	OC-SB-446-5.0/7.0-XXX MS	133188	10.15				
360-24251-19 MSD	OC-SB-446-5.0/7.0-XXX MSD	132421	10.15				
MB 360-48353/3-A		136660	10.15				
360-24251-3	OC-SB-433-5.0/7.0-DUP	132626	10.15				
360-24251-7	OC-SB-439-8.0/10-XXX	14439*	10.15				
360-24251-12	OC-SB-438-5.0/7.0-XXX	131392	10.15				
360-24251-15	OC-SB-441-8.0/10-XXX	137386	10.15				
360-24251-18	OC-SB-446-5.0/7.0-DUP	129127	10.15				
360-24251-19	OC-SB-446-5.0/7.0-XXX	136460	10.15				
360-24251-22	OC-SB-448-8.0/10-XXX	136623	10.15				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/28/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48475/2 Date Analyzed: 09/02/2009 01:00

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44667.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		24474	5.65	508694	5.88	280482	8.32
UPPER LIMIT		48948	6.15	1017388	6.38	560964	8.82
LOWER LIMIT		12237	5.15	254347	5.38	140241	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48473/1-A		21993	5.65	493097	5.88	271829	8.32
LCSD 360-48473/2-A		23469	5.64	510686	5.87	282596	8.32
MB 360-48473/3-A		22258	5.65	476523	5.88	284068	8.32
360-24251-1	OC-SB-433-0.0/1.0-XXX	19497	5.65	418273	5.87	237582	8.32
360-24251-5	OC-SB-439-0.0-1.0-XXX	20405	5.65	441999	5.88	248678	8.32
360-24251-8	OC-SB-440-0.0/1.0-XXX	19513	5.64	426354	5.87	238403	8.32
360-24251-11	OC-TBK-006	20359	5.65	438161	5.88	246292	8.32
360-24251-13	OC-SB-441-0.0/1.0-XXX	21299	5.64	447047	5.87	248914	8.32
360-24251-16	OC-SB-446-0.0/1.0-XXX	18919	5.64	424661	5.87	235674	8.32
360-24251-20	OC-SB-448-0.0/1.0-XXX	20673	5.65	446859	5.87	260900	8.32
360-24251-21	OC-SB-448-17/19-XXX	21407	5.65	463596	5.87	263459	8.32
360-24251-23	OC-SB-438-0.0/1.0-XXX	20198	5.64	445488	5.87	251140	8.32
360-24251-24	OC-SB-438-20/22-XXX	20203	5.64	448710	5.88	258984	8.32
360-24251-25	OC-TBK-007	19718	5.64	422686	5.87	244566	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/28/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48475/2 Date Analyzed: 09/02/2009 01:00

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44667.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		150904	10.14				
UPPER LIMIT		301808	10.64				
LOWER LIMIT		75452	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48473/1-A		147714	10.14				
LCSD 360-48473/2-A		153655	10.14				
MB 360-48473/3-A		155743	10.14				
360-24251-1	OC-SB-433-0.0/1.0-XXX	130625	10.13				
360-24251-5	OC-SB-439-0.0-1.0-XXX	126448	10.14				
360-24251-8	OC-SB-440-0.0/1.0-XXX	129397	10.14				
360-24251-11	OC-TBK-006	135972	10.13				
360-24251-13	OC-SB-441-0.0/1.0-XXX	132300	10.14				
360-24251-16	OC-SB-446-0.0/1.0-XXX	125419	10.13				
360-24251-20	OC-SB-448-0.0/1.0-XXX	139723	10.13				
360-24251-21	OC-SB-448-17/19-XXX	137955	10.13				
360-24251-23	OC-SB-438-0.0/1.0-XXX	139250	10.13				
360-24251-24	OC-SB-438-20/22-XXX	141509	10.13				
360-24251-25	OC-TBK-007	136095	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/28/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48655/2 Date Analyzed: 09/08/2009 09:51

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V07508.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		7275	6.10	205554	6.41	169400	9.47
UPPER LIMIT		14550	6.60	411108	6.91	338800	9.97
LOWER LIMIT		3638	5.60	102777	5.91	84700	8.97
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48654/1-A		7306	6.10	210853	6.42	169260	9.47
LCSD 360-48654/2-A		7284	6.09	212082	6.41	176894	9.47
MB 360-48654/3-A		6262	6.10	181354	6.42	148433	9.47
360-24251-9	OC-SB-440-23/25-XXX	6019	6.10	176529	6.42	141961	9.47

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/28/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Sample No.: CCVIS 360-48655/2 Date Analyzed: 09/08/2009 09:51

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V07508.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		98290	11.44				
UPPER LIMIT		196580	11.94				
LOWER LIMIT		49145	10.94				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48654/1-A		98328	11.44				
LCSD 360-48654/2-A		104242	11.43				
MB 360-48654/3-A		86323	11.44				
360-24251-9	OC-SB-440-23/25-XXX	81673	11.43				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/28/10
TC

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield
Job No.: 360-24251-1
SDG No.: OCRI-05
Client Sample ID:
Lab Sample ID: MB 360-48654/3-A
Matrix: Solid
Lab File ID: V07512.D
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 09/08/2009 11:21
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: RTX-VMS ID: 0.25(um)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 48655
Units: ug/Kg
Number TICs Found: 1
TIC Result Total: 6.86

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	3.59	6.86	T J

Remove Unknown in Associated sample OC-SB-440-23/25-XXX

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44457.D

Lab ID: LCS 360-48139/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	4990	100	70-130	
1,1,1,2-Tetrachloroethane	5000	5110	102	70-130	
1,1,2,2-Tetrachloroethane	5000	4640	93	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	5570	111	70-130	
1,1,2-Trichloroethane	5000	4560	91	70-130	
1,1-Dichloroethane	5000	5270	105	70-130	
1,1-Dichloroethene	5000	5370	107	70-130	
1,1-Dichloropropene	5000	5230	105	70-130	
1,2,3-Trichlorobenzene	5000	5160	103	70-130	
1,2,3-Trichloropropane	5000	4940	99	70-130	
1,2,4-Trichlorobenzene	5000	5250	105	70-130	
1,2,4-Trimethylbenzene	5000	5120	102	70-130	
1,2-Dibromo-3-Chloropropane	5000	4620	92	70-130	
Ethylene Dibromide	5000	4660	93	70-130	
1,2-Dichlorobenzene	5000	4950	99	70-130	
1,2-Dichloroethane	5000	4720	94	70-130	
1,2-Dichloropropane	5000	5800	116	70-130	
1,3,5-Trimethylbenzene	5000	5380	108	70-130	
1,3-Dichlorobenzene	5000	5150	103	70-130	
1,3-Dichloropropane	5000	4720	94	70-130	
1,4-Dichlorobenzene	5000	5110	102	70-130	
1,4-Dioxane	50000	53600	107	70-130	
2,2-Dichloropropane	5000	5390	108	70-130	
2,4,4-Trimethyl-1-pentene	5000	6280	126	70-130	
2,4,4-Trimethyl-2-pentene	5000	5840	117	70-130	
2-Chlorotoluene	5000	5210	104	70-130	
2-Hexanone	50000	38300	77	70-130	
4-Chlorotoluene	5000	5320	~~106~~	70-130	
Acetone	50000	30600	61	70-130	*
Benzene	5000	4800	~~96~~	70-130	
Bromobenzene	5000	5040	101	70-130	
Chlorobromomethane	5000	4590	92	70-130	
Dichlorobromomethane	5000	4860	97	70-130	
Bromoform	5000	4780	96	70-130	
Bromomethane	5000	5630	113	70-130	
n-Butylbenzene	5000	5600	112	70-130	
Carbon disulfide	5000	4870	97	70-130	
Carbon tetrachloride	5000	5250	105	70-130	
Chlorobenzene	5000	5190	104	70-130	
Chloroethane	5000	4250	85	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44457.D

Lab ID: LCS 360-48139/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	5000	4980	100	70-130	
Chloromethane	5000	5290	106	70-130	
cis-1,2-Dichloroethene	5000	4870	97	70-130	
cis-1,3-Dichloropropene	5000	4800	96	70-130	
Cyclohexane	5000	5250	105	70-130	
Chlorodibromomethane	5000	4700	94	70-130	
Dibromomethane	5000	4580	92	70-130	
Dichlorodifluoromethane	5000	3890	78	70-130	
Ethyl ether	5000	4200	84	70-130	
Isopropyl ether	5000	4490	90	70-130	
Tert-butyl ethyl ether	5000	4930	99	70-130	
Ethylbenzene	5000	5590	112	70-130	
Hexachlorobutadiene	5000	5530	111	70-130	
Isopropylbenzene	5000	5470	109	70-130	
Methyl acetate	50000	36700	73	70-130	
2-Butanone (MEK)	50000	38500	77	70-130	
4-Methyl-2-pentanone (MIBK)	50000	43300	87	70-130	
Methyl tert-butyl ether	5000	4670	93	70-130	
Methylcyclohexane	5000	5340	107	70-130	
Methylene Chloride	5000	6070	121	70-130	
m-Xylene & p-Xylene	10000	11300	113	70-130	
Naphthalene	5000	4700	94	70-130	
N-Propylbenzene	5000	5550	111	70-130	
o-Xylene	5000	5120	102	70-130	
4-Isopropyltoluene	5000	5730	115	70-130	
sec-Butylbenzene	5000	5550	111	70-130	
Styrene	5000	5110	102	70-130	
Tert-amyl methyl ether	5000	4850	97	70-130	
tert-Butylbenzene	5000	5680	114	70-130	
Tetrachloroethene	5000	5400	108	70-130	
Tetrahydrofuran	50000	48300	97	70-130	
Toluene	5000	4920	98	70-130	
trans-1,2-Dichloroethene	5000	4760	95	70-130	
trans-1,3-Dichloropropene	5000	4870	97	70-130	
Trichloroethene	5000	5090	102	70-130	
Trichlorofluoromethane	5000	5440	109	70-130	
Vinyl chloride	5000	5590	112	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
3/28/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44458.D

Lab ID: LCSD 360-48139/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	5010	100	0	25	70-130	
1,1,1,2-Tetrachloroethane	5000	5070	101	1	25	70-130	
1,1,2,2-Tetrachloroethane	5000	4690	94	1	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	5740	115	3	25	70-130	
1,1,2-Trichloroethane	5000	4650	93	2	25	70-130	
1,1-Dichloroethane	5000	5260	105	0	25	70-130	
1,1-Dichloroethene	5000	5340	107	1	25	70-130	
1,1-Dichloropropene	5000	5200	104	1	25	70-130	
1,2,3-Trichlorobenzene	5000	5360	107	4	25	70-130	
1,2,3-Trichloropropane	5000	5010	100	1	25	70-130	
1,2,4-Trichlorobenzene	5000	5280	106	1	25	70-130	
1,2,4-Trimethylbenzene	5000	5050	101	1	25	70-130	
1,2-Dibromo-3-Chloropropane	5000	4850	97	5	25	70-130	
Ethylene Dibromide	5000	4680	94	0	25	70-130	
1,2-Dichlorobenzene	5000	4980	100	1	25	70-130	
1,2-Dichloroethane	5000	4780	96	1	25	70-130	
1,2-Dichloropropane	5000	5730	115	1	25	70-130	
1,3,5-Trimethylbenzene	5000	5310	106	1	25	70-130	
1,3-Dichlorobenzene	5000	5100	102	1	25	70-130	
1,3-Dichloropropane	5000	4710	94	0	25	70-130	
1,4-Dichlorobenzene	5000	5120	102	0	25	70-130	
1,4-Dioxane	50000	46100	92	15	25	70-130	
2,2-Dichloropropane	5000	5340	107	1	25	70-130	
2,4,4-Trimethyl-1-pentene	5000	6520	130	4	25	70-130	
2,4,4-Trimethyl-2-pentene	5000	6110	122	4	25	70-130	
2-Chlorotoluene	5000	5140	103	1	25	70-130	
2-Hexanone	50000	40000	80	4	25	70-130	
4-Chlorotoluene	5000	5270	105	1	25	70-130	
Acetone	50000	25600	51	18	25	70-130	*
Benzene	5000	4840	97	1	25	70-130	
Bromobenzene	5000	5040	101	0	25	70-130	
Chlorobromomethane	5000	4600	92	0	25	70-130	
Dichlorobromomethane	5000	4960	99	2	25	70-130	
Bromoform	5000	4780	96	0	25	70-130	
Bromomethane	5000	5620	112	0	25	70-130	
n-Butylbenzene	5000	5570	111	0	25	70-130	
Carbon disulfide	5000	4830	97	1	25	70-130	
Carbon tetrachloride	5000	5570	111	6	25	70-130	
Chlorobenzene	5000	5100	102	2	25	70-130	
Chloroethane	5000	4110	82	3	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44458.D

Lab ID: LCSD 360-48139/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	5000	5060	101	2	25	70-130	
Chloromethane	5000	5280	106	0	25	70-130	
cis-1,2-Dichloroethene	5000	5000	100	3	25	70-130	
cis-1,3-Dichloropropene	5000	4750	95	1	25	70-130	
Cyclohexane	5000	5490	110	5	25	70-130	
Chlorodibromomethane	5000	4730	95	1	25	70-130	
Dibromomethane	5000	4800	96	5	25	70-130	
Dichlorodifluoromethane	5000	3910	78	0	25	70-130	
Ethyl ether	5000	4340	87	3	25	70-130	
Isopropyl ether	5000	4660	93	4	25	70-130	
Tert-butyl ethyl ether	5000	5150	103	4	25	70-130	
Ethylbenzene	5000	5470	109	2	25	70-130	
Hexachlorobutadiene	5000	5460	109	1	25	70-130	
Isopropylbenzene	5000	5370	107	2	25	70-130	
Methyl acetate	50000	43300	87	17	25	70-130	
2-Butanone (MEK)	50000	41300	83	7	25	70-130	
4-Methyl-2-pentanone (MIBK)	50000	45000	90	4	25	70-130	
Methyl tert-butyl ether	5000	4880	98	5	25	70-130	
Methylcyclohexane	5000	5620	112	5	25	70-130	
Methylene Chloride	5000	6220	124	3	25	70-130	
m-Xylene & p-Xylene	10000	11100	111	2	25	70-130	
Naphthalene	5000	4840	97	3	25	70-130	
N-Propylbenzene	5000	5400	108	3	25	70-130	
o-Xylene	5000	5040	101	2	25	70-130	
4-Isopropyltoluene	5000	5660	113	1	25	70-130	
sec-Butylbenzene	5000	5480	110	1	25	70-130	
Styrene	5000	5010	100	2	25	70-130	
Tert-amyl methyl ether	5000	5080	102	5	25	70-130	
tert-Butylbenzene	5000	5600	112	1	25	70-130	
Tetrachloroethene	5000	5370	107	1	25	70-130	
Tetrahydrofuran	50000	50200	100	4	25	70-130	
Toluene	5000	4920	98	0	25	70-130	
trans-1,2-Dichloroethene	5000	4780	96	0	25	70-130	
trans-1,3-Dichloropropene	5000	4880	98	0	25	70-130	
Trichloroethene	5000	5070	101	0	25	70-130	
Trichlorofluoromethane	5000	5380	108	1	25	70-130	
Vinyl chloride	5000	5560	111	0	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44505.D

Lab ID: LCSD 360-48229/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	99.3	99	3	25	70-130	
1,1,1,2-Tetrachloroethane	100	101	101	6	25	70-130	
1,1,2,2-Tetrachloroethane	100	92.4	92	11	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	105	105	8	25	70-130	
1,1,2-Trichloroethane	100	83.3	83	8	25	70-130	
1,1-Dichloroethane	100	103	103	4	25	70-130	
1,1-Dichloroethene	100	107	107	2	25	70-130	
1,1-Dichloropropene	100	101	101	3	25	70-130	
1,2,3-Trichlorobenzene	100	94.1	94	14	25	70-130	
1,2,3-Trichloropropane	100	97.6	98	7	25	70-130	
1,2,4-Trichlorobenzene	100	96.8	97	11	25	70-130	
1,2,4-Trimethylbenzene	100	102	102	2	25	70-130	
1,2-Dibromo-3-Chloropropane	100	89.2	89	10	25	70-130	
Ethylene Dibromide	100	82.9	83	8	25	70-130	
1,2-Dichlorobenzene	100	96.0	96	6	25	70-130	
1,2-Dichloroethane	100	89.4	89	8	25	70-130	
1,2-Dichloropropane	100	111	111	7	25	70-130	
1,3,5-Trimethylbenzene	100	107	107	3	25	70-130	
1,3-Dichlorobenzene	100	99.3	99	4	25	70-130	
1,3-Dichloropropane	100	85.0	85	8	25	70-130	
1,4-Dichlorobenzene	100	99.1	99	5	25	70-130	
1,4-Dioxane	1000	921	92	11	25	70-130	
2,2-Dichloropropane	100	112	112	2	25	70-130	
2,4,4-Trimethyl-1-pentene	100	124	124	7	25	70-130	
2,4,4-Trimethyl-2-pentene	100	110	110	8	25	70-130	
2-Chlorotoluene	100	103	103	3	25	70-130	
2-Hexanone	1000	726	73	13	25	70-130	
4-Chlorotoluene	100	105	105	2	25	70-130	
Acetone	1000	521	52	29	25	70-130	*
Benzene	100	91.6	92	4	25	70-130	
Bromobenzene	100	99.6	100	5	25	70-130	
Chlorobromomethane	100	86.1	86	7	25	70-130	
Dichlorobromomethane	100	91.5	92	7	25	70-130	
Bromoform	100	89.0	89	8	25	70-130	
Bromomethane	100	119	119	4	25	70-130	
n-Butylbenzene	100	111	111	3	25	70-130	
Carbon disulfide	100	101	101	1	25	70-130	
Carbon tetrachloride	100	105	105	2	25	70-130	
Chlorobenzene	100	99.9	100	4	25	70-130	
Chloroethane	100	110	110	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44505.D

Lab ID: LCSD 360-48229/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	96.7	97	5	25	70-130	
Chloromethane	100	104	104	4	25	70-130	
cis-1,2-Dichloroethene	100	94.3	94	4	25	70-130	
cis-1,3-Dichloropropene	100	88.2	88	5	25	70-130	
Cyclohexane	100	107	107	0	25	70-130	
Chlorodibromomethane	100	84.9	85	7	25	70-130	
Dibromomethane	100	86.8	87	8	25	70-130	
Dichlorodifluoromethane	100	74.3	74	5	25	70-130	
Ethyl ether	100	86.4	86	9	25	70-130	
Isopropyl ether	100	89.6	90	7	25	70-130	
Tert-butyl ethyl ether	100	97.3	97	9	25	70-130	
Ethylbenzene	100	110	110	3	25	70-130	
Hexachlorobutadiene	100	102	102	5	25	70-130	
Isopropylbenzene	100	110	110	2	25	70-130	
Methyl acetate	1000	751	75	8	25	70-130	
2-Butanone (MEK)	1000	731	73	17	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	849	85	15	25	70-130	
Methyl tert-butyl ether	100	91.2	91	11	25	70-130	
Methylcyclohexane	100	110	110	1	25	70-130	
Methylene Chloride	100	125	125	3	25	70-130	
m-Xylene & p-Xylene	200	222	111	3	25	70-130	
Naphthalene	100	88.0	88	16	25	70-130	
N-Propylbenzene	100	110	110	2	25	70-130	
o-Xylene	100	101	101	4	25	70-130	
4-Isopropyltoluene	100	114	114	2	25	70-130	
sec-Butylbenzene	100	111	111	2	25	70-130	
Styrene	100	98.4	98	4	25	70-130	
Tert-amyl methyl ether	100	93.6	94	11	25	70-130	
tert-Butylbenzene	100	114	114	3	25	70-130	
Tetrachloroethene	100	97.4	97	2	25	70-130	
Tetrahydrofuran	1000	932	93	11	25	70-130	
Toluene	100	93.3	93	3	25	70-130	
trans-1,2-Dichloroethene	100	93.4	93	4	25	70-130	
trans-1,3-Dichloropropene	100	85.9	86	7	25	70-130	
Trichloroethene	100	95.7	96	3	25	70-130	
Trichlorofluoromethane	100	111	111	6	25	70-130	
Vinyl chloride	100	106	106	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44504.D

Lab ID: LCS 360-48229/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	102	102	70-130	
1,1,1,2-Tetrachloroethane	100	107	107	70-130	
1,1,2,2-Tetrachloroethane	100	103	103	70-130	
1,1,2-Trichloro-1,2,2-trifluor oethane	100	113	113	70-130	
1,1,2-Trichloroethane	100	90.3	90	70-130	
1,1-Dichloroethane	100	108	108	70-130	
1,1-Dichloroethene	100	109	109	70-130	
1,1-Dichloropropene	100	104	104	70-130	
1,2,3-Trichlorobenzene	100	108	108	70-130	
1,2,3-Trichloropropane	100	105	105	70-130	
1,2,4-Trichlorobenzene	100	108	108	70-130	
1,2,4-Trimethylbenzene	100	105	105	70-130	
1,2-Dibromo-3-Chloropropane	100	99.0	99	70-130	
Ethylene Dibromide	100	90.2	90	70-130	
1,2-Dichlorobenzene	100	102	102	70-130	
1,2-Dichloroethane	100	96.9	97	70-130	
1,2-Dichloropropane	100	119	119	70-130	
1,3,5-Trimethylbenzene	100	110	110	70-130	
1,3-Dichlorobenzene	100	103	103	70-130	
1,3-Dichloropropane	100	91.9	92	70-130	
1,4-Dichlorobenzene	100	104	104	70-130	
1,4-Dioxane	1000	1030	103	70-130	
2,2-Dichloropropane	100	115	115	70-130	
2,4,4-Trimethyl-1-pentene	100	133	133	70-130	*
2,4,4-Trimethyl-2-pentene	100	119	119	70-130	
2-Chlorotoluene	100	106	106	70-130	
2-Hexanone	1000	830	83	70-130	
4-Chlorotoluene	100	107	107	70-130	
Acetone	1000	699	70	70-130	
Benzene	100	95.5	96	70-130	
Bromobenzene	100	105	105	70-130	
Chlorobromomethane	100	92.0	92	70-130	
Dichlorobromomethane	100	97.8	98	70-130	
Bromoform	100	96.7	97	70-130	
Bromomethane	100	124	124	70-130	
n-Butylbenzene	100	114	114	70-130	
Carbon disulfide	100	103	103	70-130	
Carbon tetrachloride	100	107	107	70-130	
Chlorobenzene	100	104	104	70-130	
Chloroethane	100	116	116	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10
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FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44504.D

Lab ID: LCS 360-48229/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	101	101	70-130	
Chloromethane	100	109	109	70-130	
cis-1,2-Dichloroethene	100	98.5	99	70-130	
cis-1,3-Dichloropropene	100	93.0	93	70-130	
Cyclohexane	100	107	107	70-130	
Chlorodibromomethane	100	90.6	91	70-130	
Dibromomethane	100	94.4	94	70-130	
Dichlorodifluoromethane	100	78.3	78	70-130	
Ethyl ether	100	94.6	95	70-130	
Isopropyl ether	100	96.4	96	70-130	
Tert-butyl ethyl ether	100	106	106	70-130	
Ethylbenzene	100	113	113	70-130	
Hexachlorobutadiene	100	107	107	70-130	
Isopropylbenzene	100	113	113	70-130	
Methyl acetate	1000	810	81	70-130	
2-Butanone (MEK)	1000	867	87	70-130	
4-Methyl-2-pentanone (MIBK)	1000	985	98	70-130	
Methyl tert-butyl ether	100	101	101	70-130	
Methylcyclohexane	100	108	108	70-130	
Methylene Chloride	100	129	129	70-130	
m-Xylene & p-Xylene	200	228	114	70-130	
Naphthalene	100	103	103	70-130	
N-Propylbenzene	100	113	113	70-130	
o-Xylene	100	105	105	70-130	
4-Isopropyltoluene	100	116	116	70-130	
sec-Butylbenzene	100	114	114	70-130	
Styrene	100	103	103	70-130	
Tert-amyl methyl ether	100	104	104	70-130	
tert-Butylbenzene	100	117	117	70-130	
Tetrachloroethene	100	99.6	100	70-130	
Tetrahydrofuran	1000	1040	104	70-130	
Toluene	100	96.7	97	70-130	
trans-1,2-Dichloroethene	100	96.8	97	70-130	
trans-1,3-Dichloropropene	100	92.4	92	70-130	
Trichloroethene	100	98.9	99	70-130	
Trichlorofluoromethane	100	118	118	70-130	
Vinyl chloride	100	112	112	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44576.D

Lab ID: LCS 360-48353/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	90.7	91	70-130	
1,1,1,2-Tetrachloroethane	100	103	103	70-130	
1,1,2,2-Tetrachloroethane	100	93.2	93	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	88.9	89	70-130	
1,1,2-Trichloroethane	100	82.7	83	70-130	
1,1-Dichloroethane	100	105	105	70-130	
1,1-Dichloroethene	100	93.7	94	70-130	
1,1-Dichloropropene	100	96.4	96	70-130	
1,2,3-Trichlorobenzene	100	96.7	97	70-130	
1,2,3-Trichloropropane	100	98.5	98	70-130	
1,2,4-Trichlorobenzene	100	95.4	95	70-130	
1,2,4-Trimethylbenzene	100	101	101	70-130	
1,2-Dibromo-3-Chloropropane	100	91.5	92	70-130	
Ethylene Dibromide	100	77.3	77	70-130	
1,2-Dichlorobenzene	100	96.2	96	70-130	
1,2-Dichloroethane	100	91.1	91	70-130	
1,2-Dichloropropane	100	115	115	70-130	
1,3,5-Trimethylbenzene	100	105	105	70-130	
1,3-Dichlorobenzene	100	97.5	97	70-130	
1,3-Dichloropropane	100	81.2	81	70-130	
1,4-Dichlorobenzene	100	94.7	95	70-130	
1,4-Dioxane	1000	992	99	70-130	
2,2-Dichloropropane	100	87.0	87	70-130	
2,4,4-Trimethyl-1-pentene	100	107	107	70-130	
2,4,4-Trimethyl-2-pentene	100	95.1	95	70-130	
2-Chlorotoluene	100	102	102	70-130	
2-Hexanone	1000	763	76	70-130	
4-Chlorotoluene	100	101	101	70-130	
Acetone	1000	682	68	70-130	*
Benzene	100	92.8	93	70-130	
Bromobenzene	100	99.0	99	70-130	
Chlorobromomethane	100	86.9	87	70-130	
Dichlorobromomethane	100	93.5	94	70-130	
Bromoform	100	84.3	84	70-130	
Bromomethane	100	104	104	70-130	
n-Butylbenzene	100	102	102	70-130	
Carbon disulfide	100	90.9	91	70-130	
Carbon tetrachloride	100	94.4	94	70-130	
Chlorobenzene	100	96.7	97	70-130	
Chloroethane	100	103	103	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44576.D

Lab ID: LCS 360-48353/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	97.4	97	70-130	
Chloromethane	100	96.1	96	70-130	
cis-1,2-Dichloroethene	100	96.7	97	70-130	
cis-1,3-Dichloropropene	100	82.5	82	70-130	
Cyclohexane	100	88.7	89	70-130	
Chlorodibromomethane	100	78.8	79	70-130	
Dibromomethane	100	86.8	87	70-130	
Dichlorodifluoromethane	100	56.8	57	70-130	*
Ethyl ether	100	92.7	93	70-130	
Isopropyl ether	100	92.4	92	70-130	
Tert-butyl ethyl ether	100	101	101	70-130	
Ethylbenzene	100	107	107	70-130	
Hexachlorobutadiene	100	94.0	94	70-130	
Isopropylbenzene	100	106	106	70-130	
Methyl acetate	1000	1010	101	70-130	
2-Butanone (MEK)	1000	853	85	70-130	
4-Methyl-2-pentanone (MIBK)	1000	969	97	70-130	
Methyl tert-butyl ether	100	95.2	95	70-130	
Methylcyclohexane	100	88.3	88	70-130	
Methylene Chloride	100	110	110	70-130	
m-Xylene & p-Xylene	200	216	108	70-130	
Naphthalene	100	90.8	91	70-130	
N-Propylbenzene	100	104	104	70-130	
o-Xylene	100	102	102	70-130	
4-Isopropyltoluene	100	107	107	70-130	
sec-Butylbenzene	100	105	105	70-130	
Styrene	100	97.3	97	70-130	
Tert-amyl methyl ether	100	99.0	99	70-130	
tert-Butylbenzene	100	112	112	70-130	
Tetrachloroethene	100	84.0	84	70-130	
Tetrahydrofuran	1000	969	97	70-130	
Toluene	100	89.4	89	70-130	
trans-1,2-Dichloroethene	100	91.7	92	70-130	
trans-1,3-Dichloropropene	100	78.8	79	70-130	
Trichloroethene	100	92.0	92	70-130	
Trichlorofluoromethane	100	88.7	89	70-130	
Vinyl chloride	100	95.5	95	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44577.D

Lab ID: LCSD 360-48353/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	85.2	85	6	25	70-130	
1,1,1,2-Tetrachloroethane	100	92.1	92	11	25	70-130	
1,1,2,2-Tetrachloroethane	100	92.7	93	1	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	83.0	83	7	25	70-130	
1,1,2-Trichloroethane	100	87.9	88	6	25	70-130	
1,1-Dichloroethane	100	98.6	99	6	25	70-130	
1,1-Dichloroethene	100	87.2	87	7	25	70-130	
1,1-Dichloropropene	100	91.2	91	6	25	70-130	
1,2,3-Trichlorobenzene	100	96.4	96	0	25	70-130	
1,2,3-Trichloropropane	100	91.2	91	8	25	70-130	
1,2,4-Trichlorobenzene	100	96.8	97	1	25	70-130	
1,2,4-Trimethylbenzene	100	89.8	90	11	25	70-130	
1,2-Dibromo-3-Chloropropane	100	86.8	87	5	25	70-130	
Ethylene Dibromide	100	86.9	87	12	25	70-130	
1,2-Dichlorobenzene	100	93.7	94	3	25	70-130	
1,2-Dichloroethane	100	90.9	91	0	25	70-130	
1,2-Dichloropropane	100	110	110	4	25	70-130	
1,3,5-Trimethylbenzene	100	93.5	94	11	25	70-130	
1,3-Dichlorobenzene	100	87.2	87	11	25	70-130	
1,3-Dichloropropane	100	89.2	89	9	25	70-130	
1,4-Dichlorobenzene	100	93.8	94	1	25	70-130	
1,4-Dioxane	1000	968	97	2	25	70-130	
2,2-Dichloropropane	100	79.7	80	9	25	70-130	
2,4,4-Trimethyl-1-pentene	100	100	100	7	25	70-130	
2,4,4-Trimethyl-2-pentene	100	91.5	92	4	25	70-130	
2-Chlorotoluene	100	92.6	93	10	25	70-130	
2-Hexanone	1000	764	76	0	25	70-130	
4-Chlorotoluene	100	93.1	93	8	25	70-130	
Acetone	1000	609	61	11	25	70-130	*
Benzene	100	89.5	90	4	25	70-130	
Bromobenzene	100	91.5	92	8	25	70-130	
Chlorobromomethane	100	84.2	84	3	25	70-130	
Dichlorobromomethane	100	91.1	91	3	25	70-130	
Bromoform	100	89.7	90	6	25	70-130	
Bromomethane	100	95.9	96	8	25	70-130	
n-Butylbenzene	100	101	101	1	25	70-130	
Carbon disulfide	100	85.5	86	6	25	70-130	
Carbon tetrachloride	100	88.3	88	7	25	70-130	
Chlorobenzene	100	95.4	95	1	25	70-130	
Chloroethane	100	91.5	92	12	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44577.D

Lab ID: LCSD 360-48353/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	95.1	95	2	25	70-130	
Chloromethane	100	87.4	87	10	25	70-130	
cis-1,2-Dichloroethene	100	93.0	93	4	25	70-130	
cis-1,3-Dichloropropene	100	88.4	88	7	25	70-130	
Cyclohexane	100	85.2	85	4	25	70-130	
Chlorodibromomethane	100	84.9	85	7	25	70-130	
Dibromomethane	100	88.5	89	2	25	70-130	
Dichlorodifluoromethane	100	49.9	50	13	25	70-130	*
Ethyl ether	100	87.9	88	5	25	70-130	
Isopropyl ether	100	86.9	87	6	25	70-130	
Tert-butyl ethyl ether	100	94.1	94	7	25	70-130	
Ethylbenzene	100	99.5	100	8	25	70-130	
Hexachlorobutadiene	100	92.7	93	1	25	70-130	
Isopropylbenzene	100	95.2	95	11	25	70-130	
Methyl acetate	1000	982	98	3	25	70-130	
2-Butanone (MEK)	1000	805	81	6	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	872	87	11	25	70-130	
Methyl tert-butyl ether	100	87.9	88	8	25	70-130	
Methylcyclohexane	100	84.1	84	5	25	70-130	
Methylene Chloride	100	105	105	4	25	70-130	
m-Xylene & p-Xylene	200	201	101	7	25	70-130	
Naphthalene	100	89.7	90	1	25	70-130	
N-Propylbenzene	100	94.8	95	9	25	70-130	
o-Xylene	100	92.7	93	9	25	70-130	
4-Isopropyltoluene	100	95.5	96	12	25	70-130	
sec-Butylbenzene	100	93.4	93	12	25	70-130	
Styrene	100	91.3	91	6	25	70-130	
Tert-amyl methyl ether	100	93.1	93	6	25	70-130	
tert-Butylbenzene	100	97.2	97	14	25	70-130	
Tetrachloroethene	100	86.7	87	3	25	70-130	
Tetrahydrofuran	1000	958	96	1	25	70-130	
Toluene	100	89.6	90	0	25	70-130	
trans-1,2-Dichloroethene	100	85.6	86	7	25	70-130	
trans-1,3-Dichloropropene	100	89.3	89	13	25	70-130	
Trichloroethene	100	91.3	91	1	25	70-130	
Trichlorofluoromethane	100	79.5	80	11	25	70-130	
Vinyl chloride	100	85.3	85	11	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44668.D

Lab ID: LCS 360-48473/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	96.1	96	70-130	
1,1,1,2-Tetrachloroethane	100	110	110	70-130	
1,1,2,2-Tetrachloroethane	100	98.0	98	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	83.1	83	70-130	
1,1,2-Trichloroethane	100	82.3	82	70-130	
1,1-Dichloroethane	100	113	113	70-130	
1,1-Dichloroethene	100	101	101	70-130	
1,1-Dichloropropene	100	101	101	70-130	
1,2,3-Trichlorobenzene	100	110	110	70-130	
1,2,3-Trichloropropane	100	103	103	70-130	
1,2,4-Trichlorobenzene	100	111	111	70-130	
1,2,4-Trimethylbenzene	100	110	110	70-130	
1,2-Dibromo-3-Chloropropane	100	93.6	94	70-130	
Ethylene Dibromide	100	77.1	77	70-130	
1,2-Dichlorobenzene	100	101	101	70-130	
1,2-Dichloroethane	100	93.2	93	70-130	
1,2-Dichloropropane	100	123	123	70-130	
1,3,5-Trimethylbenzene	100	115	115	70-130	
1,3-Dichlorobenzene	100	103	103	70-130	
1,3-Dichloropropane	100	82.9	83	70-130	
1,4-Dichlorobenzene	100	99.8	100	70-130	
1,4-Dioxane	1000	1010	101	70-130	
2,2-Dichloropropane	100	100	100	70-130	
2,4,4-Trimethyl-1-pentene	100	108	108	70-130	
2,4,4-Trimethyl-2-pentene	100	92.8	93	70-130	
2-Chlorotoluene	100	112	112	70-130	
2-Hexanone	1000	735	73	70-130	
4-Chlorotoluene	100	109	109	70-130	
Acetone	1000	658	66	70-130	*
Benzene	100	98.8	99	70-130	
Bromobenzene	100	108	108	70-130	
Chlorobromomethane	100	87.3	87	70-130	
Dichlorobromomethane	100	93.1	93	70-130	
Bromoform	100	85.3	85	70-130	
Bromomethane	100	114	114	70-130	
n-Butylbenzene	100	115	115	70-130	
Carbon disulfide	100	103	103	70-130	
Carbon tetrachloride	100	98.9	99	70-130	
Chlorobenzene	100	103	103	70-130	
Chloroethane	100	110	110	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44668.D

Lab ID: LCS 360-48473/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	104	104	70-130	
Chloromethane	100	104	104	70-130	
cis-1,2-Dichloroethene	100	104	104	70-130	
cis-1,3-Dichloropropene	100	84.5	85	70-130	
Cyclohexane	100	91.4	91	70-130	
Chlorodibromomethane	100	77.6	78	70-130	
Dibromomethane	100	87.8	88	70-130	
Dichlorodifluoromethane	100	51.3	51	70-130	*
Ethyl ether	100	92.5	93	70-130	
Isopropyl ether	100	100	100	70-130	
Tert-butyl ethyl ether	100	109	109	70-130	
Ethylbenzene	100	117	117	70-130	
Hexachlorobutadiene	100	109	109	70-130	
Isopropylbenzene	100	116	116	70-130	
Methyl acetate	1000	1430	143	70-130	*
2-Butanone (MEK)	1000	815	81	70-130	
4-Methyl-2-pentanone (MIBK)	1000	931	93	70-130	
Methyl tert-butyl ether	100	99.9	100	70-130	
Methylcyclohexane	100	88.3	88	70-130	
Methylene Chloride	100	118	118	70-130	
m-Xylene & p-Xylene	200	236	118	70-130	
Naphthalene	100	99.7	100	70-130	
N-Propylbenzene	100	115	115	70-130	
o-Xylene	100	111	111	70-130	
4-Isopropyltoluene	100	118	118	70-130	
sec-Butylbenzene	100	115	115	70-130	
Styrene	100	101	101	70-130	
Tert-amyl methyl ether	100	104	104	70-130	
tert-Butylbenzene	100	119	119	70-130	
Tetrachloroethene	100	87.3	87	70-130	
Tetrahydrofuran	1000	1010	101	70-130	
Toluene	100	91.5	92	70-130	
trans-1,2-Dichloroethene	100	99.8	100	70-130	
trans-1,3-Dichloropropene	100	79.6	80	70-130	
Trichloroethene	100	97.5	97	70-130	
Trichlorofluoromethane	100	86.5	86	70-130	
Vinyl chloride	100	95.4	95	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44669.D

Lab ID: LCSD 360-48473/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	91.8	92	5	25	70-130	
1,1,1,2-Tetrachloroethane	100	107	107	2	25	70-130	
1,1,2,2-Tetrachloroethane	100	104	104	6	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	83.3	83	0	25	70-130	
1,1,2-Trichloroethane	100	85.3	85	3	25	70-130	
1,1-Dichloroethane	100	111	111	2	25	70-130	
1,1-Dichloroethene	100	96.3	96	5	25	70-130	
1,1-Dichloropropene	100	97.9	98	3	25	70-130	
1,2,3-Trichlorobenzene	100	107	107	3	25	70-130	
1,2,3-Trichloropropane	100	107	107	4	25	70-130	
1,2,4-Trichlorobenzene	100	106	106	4	25	70-130	
1,2,4-Trimethylbenzene	100	106	106	4	25	70-130	
1,2-Dibromo-3-Chloropropane	100	95.5	95	2	25	70-130	
Ethylene Dibromide	100	78.8	79	2	25	70-130	
1,2-Dichlorobenzene	100	99.1	99	2	25	70-130	
1,2-Dichloroethane	100	95.3	95	2	25	70-130	
1,2-Dichloropropane	100	121	121	1	25	70-130	
1,3,5-Trimethylbenzene	100	110	110	4	25	70-130	
1,3-Dichlorobenzene	100	99.7	100	3	25	70-130	
1,3-Dichloropropane	100	84.4	84	2	25	70-130	
1,4-Dichlorobenzene	100	98.1	98	2	25	70-130	
1,4-Dioxane	1000	1060	106	5	25	70-130	
2,2-Dichloropropane	100	94.3	94	6	25	70-130	
2,4,4-Trimethyl-1-pentene	100	110	110	2	25	70-130	
2,4,4-Trimethyl-2-pentene	100	92.2	92	1	25	70-130	
2-Chlorotoluene	100	108	108	4	25	70-130	
2-Hexanone	1000	772	77	5	25	70-130	
4-Chlorotoluene	100	105	105	4	25	70-130	
Acetone	1000	563	56	16	25	70-130	*
Benzene	100	96.0	96	3	25	70-130	
Bromobenzene	100	104	104	3	25	70-130	
Chlorobromomethane	100	86.3	86	1	25	70-130	
Dichlorobromomethane	100	93.2	93	0	25	70-130	
Bromoform	100	87.9	88	3	25	70-130	
Bromomethane	100	106	106	7	25	70-130	
n-Butylbenzene	100	109	109	5	25	70-130	
Carbon disulfide	100	98.8	99	4	25	70-130	
Carbon tetrachloride	100	95.1	95	4	25	70-130	
Chlorobenzene	100	99.4	99	3	25	70-130	
Chloroethane	100	101	101	8	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44669.D

Lab ID: LCSD 360-48473/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	100	100	4	25	70-130	
Chloromethane	100	96.9	97	8	25	70-130	
cis-1,2-Dichloroethene	100	102	102	2	25	70-130	
cis-1,3-Dichloropropene	100	85.2	85	1	25	70-130	
Cyclohexane	100	94.4	94	3	25	70-130	
Chlorodibromomethane	100	79.5	80	3	25	70-130	
Dibromomethane	100	89.0	89	1	25	70-130	
Dichlorodifluoromethane	100	49.2	49	4	25	70-130	*
Ethyl ether	100	96.2	96	4	25	70-130	
Isopropyl ether	100	99.3	99	1	25	70-130	
Tert-butyl ethyl ether	100	110	110	0	25	70-130	
Ethylbenzene	100	112	112	4	25	70-130	
Hexachlorobutadiene	100	102	102	7	25	70-130	
Isopropylbenzene	100	111	111	5	25	70-130	
Methyl acetate	1000	1520	152	6	25	70-130	*
2-Butanone (MEK)	1000	865	87	6	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	985	99	6	25	70-130	
Methyl tert-butyl ether	100	103	103	3	25	70-130	
Methylcyclohexane	100	90.2	90	2	25	70-130	
Methylene Chloride	100	115	115	3	25	70-130	
m-Xylene & p-Xylene	200	227	113	4	25	70-130	
Naphthalene	100	101	101	1	25	70-130	
N-Propylbenzene	100	109	109	5	25	70-130	
o-Xylene	100	108	108	3	25	70-130	
4-Isopropyltoluene	100	112	112	4	25	70-130	
sec-Butylbenzene	100	110	110	5	25	70-130	
Styrene	100	97.8	98	3	25	70-130	
Tert-amyl methyl ether	100	105	105	1	25	70-130	
tert-Butylbenzene	100	113	113	5	25	70-130	
Tetrachloroethene	100	83.4	83	5	25	70-130	
Tetrahydrofuran	1000	1080	108	7	25	70-130	
Toluene	100	89.3	89	2	25	70-130	
trans-1,2-Dichloroethene	100	96.8	97	3	25	70-130	
trans-1,3-Dichloropropene	100	81.2	81	2	25	70-130	
Trichloroethene	100	94.1	94	3	25	70-130	
Trichlorofluoromethane	100	81.8	82	6	25	70-130	
Vinyl chloride	100	90.7	91	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V07509.D

Lab ID: LCS 360-48654/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	103	103	70-130	
1,1,1,2-Tetrachloroethane	100	102	102	70-130	
1,1,2,2-Tetrachloroethane	100	96.2	96	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	104	104	70-130	
1,1,2-Trichloroethane	100	99.1	99	70-130	
1,1-Dichloroethane	100	104	104	70-130	
1,1-Dichloroethene	100	106	106	70-130	
1,1-Dichloropropene	100	113	113	70-130	
1,2,3-Trichlorobenzene	100	117	117	70-130	
1,2,3-Trichloropropane	100	126	126	70-130	
1,2,4-Trichlorobenzene	100	117	117	70-130	
1,2,4-Trimethylbenzene	100	104	104	70-130	
1,2-Dibromo-3-Chloropropane	100	101	101	70-130	
Ethylene Dibromide	100	104	104	70-130	
1,2-Dichlorobenzene	100	103	103	70-130	
1,2-Dichloroethane	100	100	100	70-130	
1,2-Dichloropropane	100	105	105	70-130	
1,3,5-Trimethylbenzene	100	106	106	70-130	
1,3-Dichlorobenzene	100	108	108	70-130	
1,3-Dichloropropane	100	103	103	70-130	
1,4-Dichlorobenzene	100	102	102	70-130	
1,4-Dioxane	1000	1480	148	70-130	*
2,2-Dichloropropane	100	103	103	70-130	
2,4,4-Trimethyl-1-pentene	100	105	105	70-130	
2,4,4-Trimethyl-2-pentene	100	119	119	70-130	
2-Chlorotoluene	100	101	101	70-130	
2-Hexanone	1000	914	91	70-130	
4-Chlorotoluene	100	106	106	70-130	
Acetone	1000	748	75	70-130	
Benzene	100	104	104	70-130	
Bromobenzene	100	101	101	70-130	
Chlorobromomethane	100	106	106	70-130	
Dichlorobromomethane	100	101	101	70-130	
Bromoform	100	97.0	97	70-130	
Bromomethane	100	97.2	97	70-130	
n-Butylbenzene	100	107	107	70-130	
Carbon disulfide	100	106	106	70-130	
Carbon tetrachloride	100	105	105	70-130	
Chlorobenzene	100	101	101	70-130	
Chloroethane	100	98.3	98	70-130	

no hits
no Quals

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V07509.D

Lab ID: LCS 360-48654/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	108	108	70-130	
Chloromethane	100	89.5	90	70-130	
cis-1,2-Dichloroethene	100	107	107	70-130	
cis-1,3-Dichloropropene	100	106	106	70-130	
Cyclohexane	100	118	118	70-130	
Chlorodibromomethane	100	98.6	99	70-130	
Dibromomethane	100	102	102	70-130	
Dichlorodifluoromethane	100	70.3	70	70-130	
Ethyl ether	100	105	105	70-130	
Isopropyl ether	100	107	107	70-130	
Tert-butyl ethyl ether	100	112	112	70-130	
Ethylbenzene	100	100	100	70-130	
Hexachlorobutadiene	100	136	136	70-130	*
Isopropylbenzene	100	107	107	70-130	
Methyl acetate	1000	1090	109	70-130	
2-Butanone (MEK)	1000	909	91	70-130	
4-Methyl-2-pentanone (MIBK)	1000	976	98	70-130	
Methyl tert-butyl ether	100	107	107	70-130	
Methylcyclohexane	100	118	118	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	203	102	70-130	
Naphthalene	100	114	114	70-130	
N-Propylbenzene	100	105	105	70-130	
o-Xylene	100	106	106	70-130	
4-Isopropyltoluene	100	116	116	70-130	
sec-Butylbenzene	100	109	109	70-130	
Styrene	100	104	104	70-130	
Tert-amyl methyl ether	100	113	113	70-130	
tert-Butylbenzene	100	111	111	70-130	
Tetrachloroethene	100	106	106	70-130	
Tetrahydrofuran	1000	1060	106	70-130	
Toluene	100	100	100	70-130	
trans-1,2-Dichloroethene	100	103	103	70-130	
trans-1,3-Dichloropropene	100	104	104	70-130	
Trichloroethene	100	105	105	70-130	
Trichlorofluoromethane	100	102	102	70-130	
Vinyl chloride	100	106	106	70-130	

no hits no Quals

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V07510.D

Lab ID: LCSD 360-48654/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	98.8	99	5	25	70-130	
1,1,1,2-Tetrachloroethane	100	97.9	98	4	25	70-130	
1,1,2,2-Tetrachloroethane	100	97.1	97	1	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	92.4	92	12	25	70-130	
1,1,2-Trichloroethane	100	101	101	2	25	70-130	
1,1-Dichloroethane	100	97.5	97	6	25	70-130	
1,1-Dichloroethene	100	97.5	98	8	25	70-130	
1,1-Dichloropropene	100	102	102	10	25	70-130	
1,2,3-Trichlorobenzene	100	120	120	2	25	70-130	
1,2,3-Trichloropropane	100	115	115	8	25	70-130	
1,2,4-Trichlorobenzene	100	116	116	1	25	70-130	
1,2,4-Trimethylbenzene	100	100	100	4	25	70-130	
1,2-Dibromo-3-Chloropropane	100	110	110	9	25	70-130	
Ethylene Dibromide	100	106	106	2	25	70-130	
1,2-Dichlorobenzene	100	99.4	99	4	25	70-130	
1,2-Dichloroethane	100	94.6	95	6	25	70-130	
1,2-Dichloropropane	100	99.7	100	5	25	70-130	
1,3,5-Trimethylbenzene	100	99.6	100	6	25	70-130	
1,3-Dichlorobenzene	100	102	102	5	25	70-130	
1,3-Dichloropropane	100	102	102	0	25	70-130	
1,4-Dichlorobenzene	100	96.0	96	6	25	70-130	
1,4-Dioxane	1000	1910	191	25	25	70-130	*
2,2-Dichloropropane	100	106	106	2	25	70-130	
2,4,4-Trimethyl-1-pentene	100	94.0	94	12	25	70-130	
2,4,4-Trimethyl-2-pentene	100	102	102	15	25	70-130	
2-Chlorotoluene	100	97.5	97	4	25	70-130	
2-Hexanone	1000	936	94	2	25	70-130	
4-Chlorotoluene	100	98.9	99	7	25	70-130	
Acetone	1000	699	70	7	25	70-130	
Benzene	100	99.6	100	5	25	70-130	
Bromobenzene	100	96.9	97	4	25	70-130	
Chlorobromomethane	100	104	104	2	25	70-130	
Dichlorobromomethane	100	96.3	96	5	25	70-130	
Bromoform	100	96.1	96	1	25	70-130	
Bromomethane	100	96.4	96	1	25	70-130	
n-Butylbenzene	100	99.3	99	7	25	70-130	
Carbon disulfide	100	100	100	6	25	70-130	
Carbon tetrachloride	100	97.8	98	7	25	70-130	
Chlorobenzene	100	94.7	95	6	25	70-130	
Chloroethane	100	90.5	91	8	25	70-130	

no hits no Quals

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10 fc

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V07510.D

Lab ID: LCSD 360-48654/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	100	100	7	25	70-130	
Chloromethane	100	86.1	86	4	25	70-130	
cis-1,2-Dichloroethene	100	102	102	5	25	70-130	
cis-1,3-Dichloropropene	100	99.9	100	6	25	70-130	
Cyclohexane	100	118	118	0	25	70-130	
Chlorodibromomethane	100	98.9	99	0	25	70-130	
Dibromomethane	100	99.2	99	2	25	70-130	
Dichlorodifluoromethane	100	60.6	61	15	25	70-130	*
Ethyl ether	100	104	104	1	25	70-130	
Isopropyl ether	100	106	106	1	25	70-130	
Tert-butyl ethyl ether	100	112	112	0	25	70-130	
Ethylbenzene	100	93.3	93	7	25	70-130	
Hexachlorobutadiene	100	129	129	5	25	70-130	
Isopropylbenzene	100	102	102	5	25	70-130	
Methyl acetate	1000	1190	119	8	25	70-130	
2-Butanone (MEK)	1000	884	88	3	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	988	99	1	25	70-130	
Methyl tert-butyl ether	100	112	112	4	25	70-130	
Methylcyclohexane	100	118	118	0	25	70-130	
Methylene Chloride	100	102	102	3	25	70-130	
m-Xylene & p-Xylene	200	192	96	6	25	70-130	
Naphthalene	100	120	120	5	25	70-130	
N-Propylbenzene	100	96.7	97	8	25	70-130	
o-Xylene	100	99.3	99	6	25	70-130	
4-Isopropyltoluene	100	109	109	6	25	70-130	
sec-Butylbenzene	100	101	101	7	25	70-130	
Styrene	100	99.0	99	5	25	70-130	
Tert-amyl methyl ether	100	117	117	3	25	70-130	
tert-Butylbenzene	100	104	104	6	25	70-130	
Tetrachloroethene	100	99.7	100	6	25	70-130	
Tetrahydrofuran	1000	1090	109	2	25	70-130	
Toluene	100	96.5	97	4	25	70-130	
trans-1,2-Dichloroethene	100	97.2	97	6	25	70-130	
trans-1,3-Dichloropropene	100	102	102	2	25	70-130	
Trichloroethene	100	93.5	94	12	25	70-130	
Trichlorofluoromethane	100	91.0	91	12	25	70-130	
Vinyl chloride	100	94.5	94	12	25	70-130	

3/28/10 TC

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44506.D

Lab ID: 360-24251-4 MS Client ID: OC-SB-433-5.0/7.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	103	ND	107	104	70-130	
1,1,1-Trichloroethane	103	ND	103	100	70-130	
1,1,2,2-Tetrachloroethane	103	ND	99.1	96	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	103	ND	116	113	70-130	
1,1,2-Trichloroethane	103	ND	87.0	84	70-130	
1,1-Dichloroethane	103	ND	109	105	70-130	
1,1-Dichloroethene	103	ND	109	105	70-130	
1,1-Dichloropropene	103	ND	102	99	70-130	
1,2,3-Trichlorobenzene	103	ND	86.7	84	70-130	
1,2,3-Trichloropropane	103	ND	106	103	70-130	
1,2,4-Trichlorobenzene	103	ND	88.3	86	70-130	
1,2,4-Trimethylbenzene	103	ND	102	99	70-130	
1,2-Dibromo-3-Chloropropane	103	ND	94.0	91	70-130	
Ethylene Dibromide	103	ND	85.7	83	70-130	
1,2-Dichlorobenzene	103	ND	95.6	93	70-130	
1,2-Dichloroethane	103	ND	94.5	92	70-130	
Acetone	1030	ND	678	66	70-130	F
1,2-Dichloropropane	103	ND	117	113	70-130	
1,3,5-Trimethylbenzene	103	ND	106	103	70-130	
1,3-Dichlorobenzene	103	ND	97.2	94	70-130	
1,3-Dichloropropane	103	ND	88.6	86	70-130	
1,4-Dichlorobenzene	103	ND	97.4	95	70-130	
1,4-Dioxane	1030	ND	1110	108	70-130	
2,2-Dichloropropane	103	ND	114	110	70-130	
2,4,4-Trimethyl-1-pentene	103	ND	128	124	70-130	
2,4,4-Trimethyl-2-pentene	103	ND	116	112	70-130	
2-Chlorotoluene	103	ND	103	100	70-130	
2-Hexanone	1030	ND	761	74	70-130	
4-Chlorotoluene	103	ND	104	101	70-130	
Benzene	103	ND	95.4	93	70-130	
Bromobenzene	103	ND	101	98	70-130	
Chlorobromomethane	103	ND	90.6	88	70-130	
Dichlorobromomethane	103	ND	94.8	92	70-130	
Bromoform	103	ND	93.8	91	70-130	
Bromomethane	103	ND	114	111	70-130	
n-Butylbenzene	103	ND	100	97	70-130	
Carbon disulfide	103	ND	98.5	96	70-130	
Carbon tetrachloride	103	ND	108	104	70-130	
Chlorobenzene	103	ND	102	99	70-130	
Chloroethane	103	ND	111	107	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10
TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44506.D

Lab ID: 360-24251-4 MS Client ID: OC-SB-433-5.0/7.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloroform	103	ND	104	101	70-130	
Chloromethane	103	ND	102	98	70-130	
cis-1,2-Dichloroethene	103	ND	99.4	96	70-130	
cis-1,3-Dichloropropene	103	ND	90.0	87	70-130	
Cyclohexane	103	ND	112	109	70-130	
Chlorodibromomethane	103	ND	87.6	85	70-130	
Dibromomethane	103	ND	89.8	87	70-130	
Dichlorodifluoromethane	103	ND	73.5	71	70-130	
Ethyl ether	103	ND	94.8	92	70-130	
Isopropyl ether	103	ND	97.2	94	70-130	
Tert-butyl ethyl ether	103	ND	107	104	70-130	
Ethylbenzene	103	ND	111	108	70-130	
Hexachlorobutadiene	103	ND	75.8	74	70-130	
Isopropylbenzene	103	ND	110	107	70-130	
Methyl acetate	1030	ND	852	83	70-130	
2-Butanone (MEK)	1030	ND	817	79	70-130	
4-Methyl-2-pentanone (MIBK)	1030	ND	953	93	70-130	
Methyl tert-butyl ether	103	ND	101	98	70-130	
Methylcyclohexane	103	ND	109	106	70-130	
Methylene Chloride	103	ND	120	116	70-130	
m-Xylene & p-Xylene	206	ND	226	110	70-130	
Naphthalene	103	ND	87.7	85	70-130	
N-Propylbenzene	103	ND	108	105	70-130	
o-Xylene	103	ND	105	102	70-130	
4-Isopropyltoluene	103	ND	107	104	70-130	
sec-Butylbenzene	103	ND	105	102	70-130	
Styrene	103	ND	100	97	70-130	
Tert-amyl methyl ether	103	ND	104	101	70-130	
tert-Butylbenzene	103	ND	110	107	70-130	
Tetrachloroethene	103	ND	96.3	93	70-130	
Tetrahydrofuran	1030	ND	1030	100	70-130	
Toluene	103	ND	95.0	92	70-130	
trans-1,2-Dichloroethene	103	ND	94.8	92	70-130	
trans-1,3-Dichloropropene	103	ND	87.4	85	70-130	
Trichloroethene	103	ND	96.1	93	70-130	
Trichlorofluoromethane	103	ND	109	106	70-130	
Vinyl chloride	103	ND	104	101	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10
TC

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44507.D

Lab ID: 360-24251-4 MSD Client ID: OC-SB-433-5.0/7.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	101	102	101	5	30	70-130	
1,1,1-Trichloroethane	101	94.7	94	9	30	70-130	
1,1,2,2-Tetrachloroethane	101	101	100	2	30	70-130	
1,1,2-Trichloro-1,2,2-trifluor oethane	101	106	105	9	30	70-130	
1,1,2-Trichloroethane	101	85.1	85	2	30	70-130	
1,1-Dichloroethane	101	102	102	6	30	70-130	
1,1-Dichloroethene	101	99.9	99	8	30	70-130	
1,1-Dichloropropene	101	93.8	93	9	30	70-130	
1,2,3-Trichlorobenzene	101	80.5	80	7	30	70-130	
1,2,3-Trichloropropane	101	102	101	4	30	70-130	
1,2,4-Trichlorobenzene	101	81.6	81	8	30	70-130	
1,2,4-Trimethylbenzene	101	94.7	94	7	30	70-130	
1,2-Dibromo-3-Chloropropane	101	93.4	93	1	30	70-130	
Ethylene Dibromide	101	83.3	83	3	30	70-130	
1,2-Dichlorobenzene	101	92.3	92	4	30	70-130	
1,2-Dichloroethane	101	92.3	92	2	30	70-130	
Acetone	1010	672	67	1	30	70-130	F
1,2-Dichloropropane	101	110	110	5	30	70-130	
1,3,5-Trimethylbenzene	101	99.3	99	7	30	70-130	
1,3-Dichlorobenzene	101	90.8	90	7	30	70-130	
1,3-Dichloropropane	101	86.0	86	3	30	70-130	
1,4-Dichlorobenzene	101	92.4	92	5	30	70-130	
1,4-Dioxane	1010	999	99	11	30	70-130	
2,2-Dichloropropane	101	105	104	8	30	70-130	
2,4,4-Trimethyl-1-pentene	101	119	118	8	30	70-130	
2,4,4-Trimethyl-2-pentene	101	108	107	7	30	70-130	
2-Chlorotoluene	101	96.4	96	7	30	70-130	
2-Hexanone	1010	788	78	4	30	70-130	
4-Chlorotoluene	101	97.0	96	7	30	70-130	
Benzene	101	90.1	90	6	30	70-130	
Bromobenzene	101	96.8	96	4	30	70-130	
Chlorobromomethane	101	86.9	86	4	30	70-130	
Dichlorobromomethane	101	91.7	91	3	30	70-130	
Bromoform	101	93.6	93	0	30	70-130	
Bromomethane	101	106	105	7	30	70-130	
n-Butylbenzene	101	96.1	96	4	30	70-130	
Carbon disulfide	101	90.4	90	9	30	70-130	
Carbon tetrachloride	101	100	100	7	30	70-130	
Chlorobenzene	101	96.5	96	5	30	70-130	
Chloroethane	101	102	102	8	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10
TC

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44507.D

Lab ID: 360-24251-4 MSD Client ID: OC-SB-433-5.0/7.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	101	98.4	98	5	30	70-130	
Chloromethane	101	96.2	96	5	30	70-130	
cis-1,2-Dichloroethene	101	95.5	95	4	30	70-130	
cis-1,3-Dichloropropene	101	86.2	86	4	30	70-130	
Cyclohexane	101	104	103	8	30	70-130	
Chlorodibromomethane	101	84.7	84	3	30	70-130	
Dibromomethane	101	86.3	86	4	30	70-130	
Dichlorodifluoromethane	101	68.3	68	7	30	70-130	F
Ethyl ether	101	92.7	92	2	30	70-130	
Isopropyl ether	101	94.5	94	3	30	70-130	
Tert-butyl ethyl ether	101	105	105	2	30	70-130	
Ethylbenzene	101	105	104	6	30	70-130	
Hexachlorobutadiene	101	73.7	73	3	30	70-130	
Isopropylbenzene	101	103	102	7	30	70-130	
Methyl acetate	1010	950	94	11	30	70-130	
2-Butanone (MEK)	1010	789	79	3	30	70-130	
4-Methyl-2-pentanone (MIBK)	1010	951	95	0	30	70-130	
Methyl tert-butyl ether	101	99.6	99	2	30	70-130	
Methylcyclohexane	101	99.3	99	9	30	70-130	
Methylene Chloride	101	118	118	1	30	70-130	
m-Xylene & p-Xylene	201	212	105	7	30	70-130	
Naphthalene	101	83.2	83	5	30	70-130	
N-Propylbenzene	101	101	100	7	30	70-130	
o-Xylene	101	98.6	98	6	30	70-130	
4-Isopropyltoluene	101	99.7	99	7	30	70-130	
sec-Butylbenzene	101	98.7	98	6	30	70-130	
Styrene	101	94.9	94	6	30	70-130	
Tert-amyl methyl ether	101	102	101	2	30	70-130	
tert-Butylbenzene	101	105	104	5	30	70-130	
Tetrachloroethene	101	87.7	87	9	30	70-130	
Tetrahydrofuran	1010	1030	102	0	30	70-130	
Toluene	101	90.1	90	5	30	70-130	
trans-1,2-Dichloroethene	101	89.6	89	6	30	70-130	
trans-1,3-Dichloropropene	101	84.9	84	3	30	70-130	
Trichloroethene	101	89.3	89	7	30	70-130	
Trichlorofluoromethane	101	99.6	99	9	30	70-130	
Vinyl chloride	101	97.1	97	7	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10
TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44578.D

Lab ID: 360-24251-19 MS Client ID: OC-SB-446-5.0/7.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	113	ND	113	100	70-130	
1,1,1-Trichloroethane	113	ND	102	90	70-130	
1,1,2,2-Tetrachloroethane	113	ND	102	91	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	113	ND	112	99	70-130	
1,1,2-Trichloroethane	113	ND	82.0	73	70-130	
1,1-Dichloroethane	113	ND	111	99	70-130	
1,1-Dichloroethene	113	ND	106	93	70-130	
1,1-Dichloropropene	113	ND	104	92	70-130	
1,2,3-Trichlorobenzene	113	ND	84.8	75	70-130	
1,2,3-Trichloropropane	113	ND	104	92	70-130	
1,2,4-Trichlorobenzene	113	ND	87.1	77	70-130	
1,2,4-Trimethylbenzene	113	ND	105	93	70-130	
1,2-Dibromo-3-Chloropropane	113	ND	95.9	85	70-130	
Ethylene Dibromide	113	ND	77.4	68	70-130	F
1,2-Dichlorobenzene	113	ND	100	89	70-130	
1,2-Dichloroethane	113	ND	93.3	82	70-130	
Acetone	1130	ND	650	57	70-130	F
1,2-Dichloropropane	113	ND	120	106	70-130	
1,3,5-Trimethylbenzene	113	ND	110	97	70-130	
1,3-Dichlorobenzene	113	ND	97.3	86	70-130	
1,3-Dichloropropane	113	ND	81.7	72	70-130	
1,4-Dichlorobenzene	113	ND	96.8	86	70-130	
1,4-Dioxane	1130	ND	1090	97	70-130	
2,2-Dichloropropane	113	ND	98.7	87	70-130	
2,4,4-Trimethyl-1-pentene	113	ND	126	111	70-130	
2,4,4-Trimethyl-2-pentene	113	ND	114	101	70-130	
2-Chlorotoluene	113	ND	106	94	70-130	
2-Hexanone	1130	ND	741	65	70-130	F
4-Chlorotoluene	113	ND	103	91	70-130	
Benzene	113	ND	98.9	87	70-130	
Bromobenzene	113	ND	101	90	70-130	
Chlorobromomethane	113	ND	89.6	79	70-130	
Dichlorobromomethane	113	ND	93.7	83	70-130	
Bromoform	113	ND	90.2	80	70-130	
Bromomethane	113	ND	119	105	70-130	
n-Butylbenzene	113	ND	103	91	70-130	
Carbon disulfide	113	ND	96.4	85	70-130	
Carbon tetrachloride	113	ND	107	94	70-130	
Chlorobenzene	113	ND	103	91	70-130	
Chloroethane	113	ND	114	100	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10
TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44578.D

Lab ID: 360-24251-19 MS Client ID: OC-SB-446-5.0/7.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloroform	113	ND	104	92	70-130	
Chloromethane	113	ND	109	96	70-130	
cis-1,2-Dichloroethene	113	ND	102	90	70-130	
cis-1,3-Dichloropropene	113	ND	83.2	74	70-130	
Cyclohexane	113	ND	112	99	70-130	
Chlorodibromomethane	113	ND	79.9	71	70-130	
Dibromomethane	113	ND	87.8	78	70-130	
Dichlorodifluoromethane	113	ND	74.0	65	70-130	F
Ethyl ether	113	ND	95.7	85	70-130	
Isopropyl ether	113	ND	98.8	87	70-130	
Tert-butyl ethyl ether	113	ND	107	94	70-130	
Ethylbenzene	113	ND	116	102	70-130	
Hexachlorobutadiene	113	ND	72.8	64	70-130	F
Isopropylbenzene	113	ND	114	101	70-130	
Methyl acetate	1130	ND	977	86	70-130	
2-Butanone (MEK)	1130	ND	828	73	70-130	
4-Methyl-2-pentanone (MIBK)	1130	ND	919	81	70-130	
Methyl tert-butyl ether	113	ND	99.2	88	70-130	
Methylcyclohexane	113	ND	108	95	70-130	
Methylene Chloride	113	ND	108	95	70-130	
m-Xylene & p-Xylene	226	ND	231	102	70-130	
Naphthalene	113	ND	86.1	76	70-130	
N-Propylbenzene	113	ND	109	96	70-130	
o-Xylene	113	ND	109	96	70-130	
4-Isopropyltoluene	113	ND	109	96	70-130	
sec-Butylbenzene	113	ND	109	96	70-130	
Styrene	113	ND	98.7	87	70-130	
Tert-amyl methyl ether	113	ND	103	91	70-130	
tert-Butylbenzene	113	ND	116	103	70-130	
Tetrachloroethene	113	ND	88.7	78	70-130	
Tetrahydrofuran	1130	ND	1020	90	70-130	
Toluene	113	ND	93.6	83	70-130	
trans-1,2-Dichloroethene	113	ND	96.6	85	70-130	
trans-1,3-Dichloropropene	113	ND	78.5	69	70-130	F
Trichloroethene	113	ND	98.1	87	70-130	
Trichlorofluoromethane	113	ND	108	95	70-130	
Vinyl chloride	113	ND	107	95	70-130	

3/28/10
TC

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44579.D

Lab ID: 360-24251-19 MSD Client ID: OC-SB-446-5.0/7.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	105	105	100	7	30	70-130	
1,1,1-Trichloroethane	105	96.1	91	6	30	70-130	
1,1,2,2-Tetrachloroethane	105	93.2	89	9	30	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	105	109	103	3	30	70-130	
1,1,2-Trichloroethane	105	76.1	72	8	30	70-130	
1,1-Dichloroethane	105	105	99	6	30	70-130	
1,1-Dichloroethene	105	102	96	4	30	70-130	
1,1-Dichloropropene	105	98.6	94	5	30	70-130	
1,2,3-Trichlorobenzene	105	85.0	81	0	30	70-130	
1,2,3-Trichloropropane	105	96.8	92	7	30	70-130	
1,2,4-Trichlorobenzene	105	86.1	82	1	30	70-130	
1,2,4-Trimethylbenzene	105	99.7	95	5	30	70-130	
1,2-Dibromo-3-Chloropropane	105	87.4	83	9	30	70-130	
Ethylene Dibromide	105	70.7	67	9	30	70-130	F
1,2-Dichlorobenzene	105	94.7	90	6	30	70-130	
1,2-Dichloroethane	105	87.5	83	6	30	70-130	
Acetone	1050	586	56	10	30	70-130	F
1,2-Dichloropropane	105	111	105	8	30	70-130	
1,3,5-Trimethylbenzene	105	106	101	3	30	70-130	
1,3-Dichlorobenzene	105	92.8	88	5	30	70-130	
1,3-Dichloropropane	105	76.9	73	6	30	70-130	
1,4-Dichlorobenzene	105	92.8	88	4	30	70-130	
1,4-Dioxane	1050	966	92	12	30	70-130	
2,2-Dichloropropane	105	92.0	87	7	30	70-130	
2,4,4-Trimethyl-1-pentene	105	124	118	1	30	70-130	
2,4,4-Trimethyl-2-pentene	105	110	104	4	30	70-130	
2-Chlorotoluene	105	102	96	4	30	70-130	
2-Hexanone	1050	667	63	10	30	70-130	F
4-Chlorotoluene	105	98.2	93	5	30	70-130	
Benzene	105	91.8	87	7	30	70-130	
Bromobenzene	105	97.3	92	4	30	70-130	
Chlorobromomethane	105	81.6	77	9	30	70-130	
Dichlorobromomethane	105	86.6	82	8	30	70-130	
Bromoform	105	82.8	79	8	30	70-130	
Bromomethane	105	108	102	10	30	70-130	
n-Butylbenzene	105	104	99	1	30	70-130	
Carbon disulfide	105	90.6	86	6	30	70-130	
Carbon tetrachloride	105	97.4	92	9	30	70-130	
Chlorobenzene	105	96.5	92	6	30	70-130	
Chloroethane	105	106	101	7	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10
TC

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Matrix: Solid Level: Low Lab File ID: V44579.D

Lab ID: 360-24251-19 MSD Client ID: OC-SB-446-5.0/7.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	105	98.3	93	5	30	70-130	
Chloromethane	105	101	96	7	30	70-130	
cis-1,2-Dichloroethene	105	94.2	90	8	30	70-130	
cis-1,3-Dichloropropene	105	78.3	74	6	30	70-130	
Cyclohexane	105	112	106	0	30	70-130	
Chlorodibromomethane	105	73.9	70	8	30	70-130	
Dibromomethane	105	80.5	76	9	30	70-130	
Dichlorodifluoromethane	105	73.8	70	0	30	70-130	
Ethyl ether	105	85.2	81	12	30	70-130	
Isopropyl ether	105	91.0	86	8	30	70-130	
Tert-butyl ethyl ether	105	95.9	91	11	30	70-130	
Ethylbenzene	105	109	104	6	30	70-130	
Hexachlorobutadiene	105	80.1	76	10	30	70-130	
Isopropylbenzene	105	110	105	3	30	70-130	
Methyl acetate	1050	862	82	12	30	70-130	
2-Butanone (MEK)	1050	752	71	10	30	70-130	
4-Methyl-2-pentanone (MIBK)	1050	832	79	10	30	70-130	
Methyl tert-butyl ether	105	89.5	85	10	30	70-130	
Methylcyclohexane	105	106	100	2	30	70-130	
Methylene Chloride	105	97.7	93	10	30	70-130	
m-Xylene & p-Xylene	211	220	104	5	30	70-130	
Naphthalene	105	82.7	79	4	30	70-130	
N-Propylbenzene	105	107	101	2	30	70-130	
o-Xylene	105	103	98	5	30	70-130	
4-Isopropyltoluene	105	109	103	0	30	70-130	
sec-Butylbenzene	105	107	102	1	30	70-130	
Styrene	105	94.1	89	5	30	70-130	
Tert-amyl methyl ether	105	92.0	87	12	30	70-130	
tert-Butylbenzene	105	112	106	4	30	70-130	
Tetrachloroethene	105	85.6	81	4	30	70-130	
Tetrahydrofuran	1050	915	87	11	30	70-130	
Toluene	105	87.1	83	7	30	70-130	
trans-1,2-Dichloroethene	105	90.6	86	6	30	70-130	
trans-1,3-Dichloropropene	105	72.2	69	8	30	70-130	F
Trichloroethene	105	91.3	87	7	30	70-130	
Trichlorofluoromethane	105	104	99	4	30	70-130	
Vinyl chloride	105	103	98	4	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/28/10
TC

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Westfield Job No.: 360-24251-1 Analy Batch No.: 48619

SDG No.: OCRI-05

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2009 15:22 Calibration End Date: 09/04/2009 18:02 Calibration ID: 4225

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetone	0.0517 0.0262	0.0465 0.0286	0.0303	0.0326	0.0408	Qua	-0.244	0.0433	0						0.9980		0.9900
trans-1,2-Dichloroethene	0.3959 0.3904	0.3815 0.3770	0.4382	0.4330	0.4043	Ave		0.4029				6.0		15.0			
Methyl acetate	0.0668 0.0663	0.0810 0.0576	0.0676	0.0675	0.0781	Ave		0.0693				11.0		15.0			
Hexane	0.3855 0.4047	0.3764 0.3826	0.4246	0.4263	0.4436	Ave		0.4062				6.4		15.0			
Methyl tert-butyl ether	0.4897 0.4575	0.5055 0.4078	0.4779	0.4843	0.5343	Ave		0.4796				8.3		15.0			
2-Methyl-2-propanol	0.0207 0.0225	0.0265 0.0282	0.0230	0.0252	0.0293	Ave		0.0251				13.0		15.0			
Isopropyl ether	0.6779 0.7175	0.6603 0.6544	0.7049	0.7423	0.7508	Ave		0.7012				5.5		15.0			
1,1-Dichloroethane	0.4998 0.4592	0.4664 0.4433	0.5037	0.4957	0.4741	Ave		0.4775			0.1000	4.8		15.0			
Acrylonitrile	0.0260 0.0290	0.0332 0.0266	0.0302	0.0300	0.0355	Ave		0.0301				11.0		15.0			
Tert-butyl ethyl ether	0.5797 0.5924	0.5738 0.5392	0.6132	0.6284	0.6629	Ave		0.5985				6.7		15.0			
Vinyl acetate	0.2116 0.2246	0.2131 0.1848	0.2248	0.2263	0.2681	Ave		0.2215				12.0		15.0			
cis-1,2-Dichloroethene	0.3733 0.3611	0.3355 0.3502	0.3819	0.3810	0.3695	Ave		0.3646				4.7		15.0			
2,2-Dichloropropane	0.4121 0.3118	0.3499 0.2961	0.3933	0.3913	0.3375	Ave		0.3560				12.0		15.0			
Chlorobromomethane	0.1487 0.1262	0.1279 0.1217	0.1343	0.1353	0.1397	Ave		0.1334				6.8		15.0			
Cyclohexane	0.3103 0.3865	0.3134 0.3627	0.4019	0.4203	0.3983	Ave		0.3705				12.0		15.0			
Chloroform	0.5416 0.4708	0.4807 0.4580	0.5185	0.5050	0.4935	Lin	0.3166	0.4570							1.0000		0.9900
1,4-Dioxane	+++++ 0.0007	+++++ 0.0013	0.0008	0.0009	0.0009	Qua	0.0615	0.0001	0						0.9930		0.9900
Ethyl acetate	0.0792 0.0835	0.0943 0.0757	0.0800	0.0792	0.1014	Ave		0.0848				11.0		15.0			
Carbon tetrachloride	0.5013 0.4451	0.4367 0.4287	0.5024	0.4887	0.4708	Ave		0.4677				6.6		15.0			
Tetrahydrofuran	0.0360 0.0289	0.0364 0.0254	0.0300	0.0304	0.0368	Ave		0.0320				14.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

→ Reject (R) All Non-detects

→ UJ all associated

3/28/10 TC

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Westfield Job No.: 360-24251-1 Analy Batch No.: 48619

SDG No.: OCRI-05

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2009 15:22 Calibration End Date: 09/04/2009 18:02 Calibration ID: 4225

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butyl Alcohol	0.0066 0.0069	0.0083 0.0068	0.0065	0.0070	0.0091	Ave		0.0073				13.0		15.0			
1,1,1-Trichloroethane	0.5229 0.4554	0.4696 0.4405	0.5330	0.5185	0.4811	Ave		0.4887				7.4		15.0			
2-Butanone (MEK)	0.0470 0.0370	0.0459 0.0349	0.0359	0.0382	0.0503	Ave		0.0420				15.0		15.0			
1,1-Dichloropropene	0.3032 0.3286	0.2655 0.3356	0.3447	0.3444	0.3507	Ave		0.3247				9.4		15.0			
n-Heptane	0.2438 0.3403	0.2412 0.3247	0.3367	0.3393	0.3540	Ave		0.3114				15.0		15.0			
Benzene	0.8620 0.8420	0.7709 0.8534	0.9346	0.9053	0.8903	Ave		0.8655				6.1		15.0			
Tert-amyl methyl ether	0.4150 0.4570	0.4472 0.4036	0.4397	0.4594	0.5175	Ave		0.4485				8.2		15.0			
1,2-Dichloroethane	0.3111 0.2741	0.2914 0.2535	0.2890	0.2819	0.3055	Ave		0.2867				6.8		15.0			
2,4,4-Trimethyl-1-pentene	0.2656 0.1887	0.1996 0.1779	0.2253	0.2181	0.2030	Ave		0.2112				14.0		15.0			
Isopropyl acetate	0.1818 0.1815	0.2120 0.1567	0.1791	0.1839	0.2127	Ave		0.1868				11.0		15.0			
Methylcyclohexane	0.3079 0.4210	0.3432 0.4029	0.4303	0.4438	0.4398	Ave		0.3984				13.0		15.0			
Trichloroethene	0.2973 0.2603	0.2377 0.2653	0.2751	0.2759	0.2694	Ave		0.2687				6.7		15.0			
2,4,4-Trimethyl-2-pentene	0.3406 0.5082	0.3896 0.4963	0.5254	0.5391	0.5289	Lin2	-0.098	0.5230							0.9970		0.9900
Dibromomethane	0.1022 0.1005	0.1081 0.0937	0.1027	0.1009	0.1117	Ave		0.1028				5.6		15.0			
1,2-Dichloropropane	0.2214 0.1971	0.1897 0.1893	0.2142	0.2129	0.2086	Lin	0.1573	0.1891							0.9990		0.9900
Dichlorobromomethane	0.3244 0.3008	0.3085 0.2879	0.3203	0.3132	0.3346	Ave		0.3128				5.0		15.0			
Methyl methacrylate	0.0455 0.0593	0.0578 0.0568	0.0486	0.0542	0.0678	Ave		0.0557				13.0		15.0			
n-Propyl acetate	0.0948 0.1125	0.1133 0.1009	0.0980	0.1033	0.1313	Ave		0.1077				12.0		15.0			
2-Chloroethyl vinyl ether	0.0263 0.0379	0.0281 0.0353	0.0307	0.0325	0.0410	Lin1	-0.067	0.0361							0.9940		0.9900
cis-1,3-Dichloropropene	0.2671 0.3044	0.2559 0.2959	0.2932	0.2858	0.3187	Ave		0.2887				7.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

UJ All associated 3/28/10 TC

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Westfield Job No.: 360-24251-1 Analy Batch No.: 48619

SDG No.: OCRI-05

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2009 15:22 Calibration End Date: 09/04/2009 18:02 Calibration ID: 4225

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toluene	0.5642 0.5220	0.4902 0.5338	0.5555	0.5474	0.5375	Ave		0.5358				4.6		15.0			
Tetrachloroethene	0.2049 0.2181	0.1929 0.2274	0.2192	0.2172	0.2172	Ave		0.2139				5.3		15.0			
4-Methyl-2-pentanone (MIBK)	0.0982 0.0930	0.1034 0.0759	0.0892	0.0959	0.1142	Ave		0.0961				13.0		15.0			
trans-1,3-Dichloropropene	0.2420 0.2539	0.2410 0.2416	0.2455	0.2419	0.2793	Ave		0.2493				5.6		15.0			
Isobutyl acetate	0.2240 0.2458	0.2720 0.2056	0.2419	0.2526	0.2810	Ave		0.2461				11.0		15.0			
1,1,2-Trichloroethane	0.1116 0.1073	0.1139 0.0988	0.1119	0.1041	0.1203	Ave		0.1097				6.4		15.0			
Chlorodibromomethane	0.2172 0.2060	0.2074 0.1926	0.1986	0.2014	0.2243	Ave		0.2068				5.3		15.0			
1,3-Dichloropropane	0.1951 0.2091	0.1950 0.1927	0.1961	0.1961	0.2265	Ave		0.2015				6.1		15.0			
Ethylene Dibromide	0.1229 0.1271	0.1196 0.1184	0.1202	0.1212	0.1410	Ave		0.1243				6.3		15.0			
n-Butyl acetate	0.1358 0.1541	0.1641 0.1291	0.1429	0.1484	0.1768	Ave		0.1501				11.0		15.0			
2-Hexanone	0.0733 0.0627	0.0741 0.0562	0.0604	0.0620	0.0805	Ave		0.0677				14.0		15.0			
Chlorobenzene	0.8566 0.8073	0.7529 0.8260	0.8352	0.8123	0.8171	Ave		0.8153			0.3000	3.9		15.0			
Ethylbenzene	1.6094 1.5117	1.3790 1.5304	1.6415	1.5854	1.5429	Ave		1.5429				5.5		15.0			
1,1,1,2-Tetrachloroethane	0.3341 0.3167	0.3154 0.3167	0.3480	0.3388	0.3449	Ave		0.3307				4.3		15.0			
m-Xylene & p-Xylene	1.1649 1.2301	1.0476 1.2398	1.3241	1.2886	1.2620	Ave		1.2224				7.5		15.0			
o-Xylene	1.0977 1.2187	1.0035 1.2038	1.3090	1.3025	1.2860	Ave		1.2030				9.5		15.0			
Styrene	0.8066 0.8552	0.7229 0.8534	0.9317	0.9007	0.9057	Ave		0.8537				8.3		15.0			
Bromoform	0.3307 0.3009	0.3109 0.2936	0.2872	0.2820	0.3166	Ave		0.3031			0.1000	5.7		15.0			
Isopropylbenzene	1.3118 1.4884	1.1778 1.5025	1.6350	1.6448	1.5795	Ave		1.4771				12.0		15.0			
Bromobenzene	0.6650 0.6002	0.6076 0.5697	0.6855	0.6817	0.6687	Ave		0.6398				7.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Westfield Job No.: 360-24251-1 Analy Batch No.: 48619

SDG No.: OCRI-05

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2009 15:22 Calibration End Date: 09/04/2009 18:02 Calibration ID: 4225

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	1.7951 1.7492	1.6052 1.7506	2.0501	2.0284	1.8959	Ave		1.8392				8.8		15.0			
1,1,2,2-Tetrachloroethane	0.3725 0.3286	0.3567 0.2986	0.3387	0.3334	0.3727	Ave		0.3430			0.3000	7.7		15.0			
2-Chlorotoluene	1.2377 1.1791	1.1155 1.1857	1.3579	1.3422	1.2922	Ave		1.2443				7.3		15.0			
1,3,5-Trimethylbenzene	1.2163 1.2463	1.0967 1.2789	1.4175	1.4383	1.3565	Ave		1.2929				9.3		15.0			
1,2,3-Trichloropropane	0.3013 0.1396	0.1519 0.1350	0.1693	0.1721	0.1745	Lin	0.2684	0.1333							0.9950		0.9900
trans-1,4-Dichloro-2-butene	0.0553 0.0506	0.0617 0.0443	0.0542	0.0559	0.0667	Ave		0.0555				13.0		15.0			
4-Chlorotoluene	1.1660 1.0684	0.9796 1.0594	1.2054	1.2230	1.1665	Ave		1.1240				8.0		15.0			
tert-Butylbenzene	0.9101 1.0462	0.8669 1.0906	1.1661	1.1905	1.1253	Ave		1.0565				12.0		15.0			
1,2,4-Trimethylbenzene	1.1249 1.2237	1.0794 1.2503	1.4338	1.4185	1.3621	Ave		1.2704				11.0		15.0			
sec-Butylbenzene	1.4531 1.5158	1.3006 1.5534	1.7640	1.7780	1.6730	Ave		1.5768				11.0		15.0			
4-Isopropyltoluene	1.1054 1.2508	1.0020 1.3335	1.4171	1.4670	1.3880	Ave		1.2805				13.0		15.0			
1,3-Dichlorobenzene	0.7157 0.6656	0.6489 0.6766	0.7629	0.7552	0.7628	Ave		0.7125				6.9		15.0			
1,4-Dichlorobenzene	1.3074 1.2555	1.1665 1.3100	1.3088	1.2860	1.2851	Ave		1.2742				4.0		15.0			
n-Butylbenzene	2.0249 2.3137	1.7789 2.5364	2.4920	2.5081	2.3256	Ave		2.2828				12.0		15.0			
1,2-Dichlorobenzene	1.1021 1.0448	0.9751 1.0919	1.0871	1.0734	1.0901	Ave		1.0664				4.2		15.0			
1,2-Dibromo-3-Chloropropane	0.0302 0.0580	0.0562 0.0596	0.0562	0.0562	0.0657	Lin2	-0.013	0.0611							0.9920		0.9900
1,3,5-Trichlorobenzene	0.8069 0.8601	0.7519 1.1204	0.8942	0.9145	0.9349	Ave		0.8975				13.0		15.0			
Hexachlorobutadiene	0.4952 0.4470	0.4258 0.6963	0.5605	0.5632	0.5409	Qua	1.0920	0.2732	0.0051						0.9940		0.9900
1,2,4-Trichlorobenzene	0.6831 0.6406	0.5898 0.8635	0.7007	0.7031	0.7449	Ave		0.7037				12.0		15.0			
Naphthalene	0.8132 0.8922	0.7501 1.0551	0.7999	0.8662	1.0205	Ave		0.8853				13.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

3/28/10 TC

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Westfield Job No.: 360-24251-1 Analy Batch No.: 48619

SDG No.: OCRI-05

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2009 15:22 Calibration End Date: 09/04/2009 18:02 Calibration ID: 4225

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	0.5249 0.4874	0.4800 0.6637	0.5248	0.5439	0.5869	Ave		0.5445				12.0		15.0			
Dibromofluoromethane	0.3063 0.2892	0.3131 0.2749	0.2962	0.2996	0.3023	Ave		0.2974				4.2		15.0			
Toluene-d8 (Surr)	1.0169 1.0390	1.0205 1.0150	1.0342	1.0471	1.0280	Ave		1.0287				1.2		15.0			
4-Bromofluorobenzene	0.5423 0.5075	0.5613 0.4771	0.5523	0.5536	0.5507	Ave		0.5350				5.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

JC 3/28/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48140/2 Calibration Date: 08/25/2009 15:05

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44455.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4983		25.4	20.0	27.1	30.0
Chloromethane	Lin		0.6542	0.1000	22.4	20.0	12.1	30.0
Vinyl chloride	Lin		0.5023		23.1	20.0	15.6	20.0
Bromomethane	Lin		0.3296		23.0	20.0	14.9	30.0
Chloroethane	Lin		0.2781		23.6	20.0	17.8	30.0
Trichlorofluoromethane	Lin		0.5326		24.1	20.0	20.7	30.0
Ethyl ether	Ave	0.1998	0.1791		17.9	20.0	-10.4	30.0
1,1-Dichloroethene	Lin		0.3633		22.9	20.0	14.7	20.0
Carbon disulfide	Ave	1.172	1.195		20.4	20.0	2.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2403		23.8	20.0	19.1	30.0
Acrolein	Lin1		0.5256		1040	1000	4.4	30.0
Methylene Chloride	Lin		0.3988		23.9	20.0	19.7	30.0
Acetone	Qua		0.0396		145	200	-27.7*	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5139		19.5	20.0	-2.7	30.0
Methyl acetate	Lin		0.0983		138	200	-31.0*	30.0
Methyl tert-butyl ether	Lin		0.5319		19.4	20.0	-2.9	30.0
2-Methyl-2-propanol	Lin1		0.2167		170	200	-15.0	30.0
Isopropyl ether	Ave	1.438	1.327		18.4	20.0	-7.8	30.0
1,1-Dichloroethane	Lin		0.5702	0.1000	20.8	20.0	3.9	30.0
Acrylonitrile	Lin2		0.0466		18.1	20.0	-9.4	30.0
Tert-butyl ethyl ether	Lin		0.8487		20.1	20.0	0.3	30.0
Vinyl acetate	Lin1		0.3544		228	200	13.8	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4328		18.9	20.0	-5.5	30.0
2,2-Dichloropropane	Qua		0.4440		21.6	20.0	7.9	30.0
Cyclohexane	Ave	0.6383	0.6985		21.9	20.0	9.4	30.0
Chlorobromomethane	Ave	0.1791	0.1615		18.0	20.0	-9.8	30.0
Chloroform	Lin		0.5046		19.6	20.0	-2.2	20.0
Carbon tetrachloride	Ave	0.3593	0.4008		22.3	20.0	11.5	30.0
Tetrahydrofuran	Lin1		0.0450		185	200	-7.4	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4925		20.0	20.0	-0.2	30.0
2-Butanone (MEK)	Ave	0.0653	0.0592		181	200	-9.4	30.0
1,1-Dichloropropene	Ave	0.3849	0.4002		20.8	20.0	4.0	30.0
Benzene	Ave	1.175	1.120		19.1	20.0	-4.7	30.0
Tert-amyl methyl ether	Lin		0.6087		19.6	20.0	-1.9	30.0
1,2-Dichloroethane	Ave	0.2398	0.2239		18.7	20.0	-6.7	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2805		25.1	20.0	25.5	30.0
Methylcyclohexane	Ave	0.5730	0.6423		22.4	20.0	12.1	30.0
Trichloroethene	Ave	0.2943	0.2895		19.7	20.0	-1.6	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.2309		23.9	20.0	19.5	30.0
Dibromomethane	Ave	0.1115	0.1051		18.9	20.0	-5.7	30.0

3/25/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48140/2 Calibration Date: 08/25/2009 15:05

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44455.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2040		22.4	20.0	12.1	20.0
Dichlorobromomethane	Ave	0.2830	0.2735		19.3	20.0	-3.4	30.0
Methyl methacrylate	Ave	0.0593	0.0552		18.6	20.0	-6.9	30.0
1,4-Dioxane	Ave	0.0211	0.0209		199	200	-0.7	30.0
2-Chloroethyl vinyl ether	Lin1		0.0449		204	200	2.2	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2902		19.6	20.0	-2.2	30.0
Toluene	Ave	0.6775	0.6670		19.7	20.0	-1.6	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1303		194	200	-3.1	30.0
Tetrachloroethene	Ave	0.2090	0.2209		21.1	20.0	5.7	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.2054		19.4	20.0	-3.2	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.1009		18.5	20.0	-7.4	30.0
Chlorodibromomethane	Ave	0.1624	0.1584		19.5	20.0	-2.4	30.0
1,3-Dichloropropane	Ave	0.2134	0.2017		18.9	20.0	-5.5	30.0
Ethylene Dibromide	Ave	0.1323	0.1262		19.1	20.0	-4.6	30.0
2-Hexanone	Ave	0.0865	0.0772		178	200	-10.8	30.0
Chlorobenzene	Ave	1.083	1.078	0.3000	19.9	20.0	-0.4	30.0
Ethylbenzene	Lin		1.969		21.5	20.0	7.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3736		19.6	20.0	-2.0	30.0
m-Xylene & p-Xylene	Lin1		1.528		43.7	40.0	9.2	30.0
o-Xylene	Ave	1.735	1.702		19.6	20.0	-1.9	30.0
Styrene	Ave	1.258	1.273		20.2	20.0	1.2	30.0
Bromoform	Ave	0.2952	0.2879	0.1000	19.5	20.0	-2.5	20.0
Isopropylbenzene	Ave	2.247	2.354		21.0	20.0	4.8	30.0
Bromobenzene	Ave	0.7726	0.7456		19.3	20.0	-3.5	30.0
N-Propylbenzene	Ave	2.529	2.653		21.0	20.0	4.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.4864	0.3000	18.9	20.0	-5.7	30.0
2-Chlorotoluene	Ave	1.717	1.712		19.9	20.0	-0.3	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.910		20.3	20.0	1.6	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0613		17.9	20.0	-10.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0699		19.3	20.0	-3.7	30.0
4-Chlorotoluene	Ave	1.492	1.501		20.1	20.0	0.6	30.0
tert-Butylbenzene	Ave	1.551	1.673		21.6	20.0	7.8	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.919		19.7	20.0	-1.6	30.0
sec-Butylbenzene	Ave	2.541	2.698		21.2	20.0	6.2	30.0
4-Isopropyltoluene	Ave	2.050	2.173		21.2	20.0	6.0	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9476		19.3	20.0	-3.4	30.0
1,4-Dichlorobenzene	Ave	1.821	1.800		19.8	20.0	-1.1	30.0
n-Butylbenzene	Ave	3.711	4.060		21.9	20.0	9.4	30.0
1,2-Dichlorobenzene	Ave	1.574	1.528		19.4	20.0	-2.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0750		18.2	20.0	-9.1	30.0
Hexachlorobutadiene	Ave	0.5157	0.5492		21.3	20.0	6.5	30.0

3/28/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48140/2 Calibration Date: 08/25/2009 15:05

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44455.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.056		19.6	20.0	-1.8	30.0
Naphthalene	Ave	1.428	1.327		18.6	20.0	-7.1	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7731		19.1	20.0	-4.3	30.0
Dibromofluoromethane	Ave	0.2595	0.2483		19.1	20.0	-4.3	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8916		20.0	20.0	0.1	30.0
4-Bromofluorobenzene	Ave	0.5061	0.4966		19.6	20.0	-1.9	30.0

3/28/10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3185		80.5	100	-19.5	30.0
Chloromethane	Lin		0.6163	0.1000	105	100	5.0	30.0
Vinyl chloride	Lin		0.4966		114	100	14.2	30.0
Bromomethane	Lin		0.3408		119	100	19.2	30.0
Chloroethane	Lin		0.2747		116	100	16.2	30.0
Trichlorofluoromethane	Lin		0.5399		123	100	22.5	30.0
Ethyl ether	Ave	0.1998	0.1939		97.1	100	-2.9	30.0
1,1-Dichloroethene	Lin		0.3745		118	100	18.5	30.0
Carbon disulfide	Ave	1.172	1.267		108	100	8.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2479		123	100	23.1	30.0
Acrolein	Lin1		0.5439		5400	5000	8.1	30.0
Methylene Chloride	Lin		0.4442		135	100	35.2*	30.0
Acetone	Qua		0.0317		539	1000	-46.1*	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5291		100	100	0.2	30.0
Methyl acetate	Lin		0.1085		771	1000	-22.9	30.0
Methyl tert-butyl ether	Lin		0.5479		100	100	0.2	30.0
2-Methyl-2-propanol	Lin1		0.2589		1020	1000	1.8	30.0
Isopropyl ether	Ave	1.438	1.368		95.1	100	-4.9	30.0
1,1-Dichloroethane	Lin		0.6061	0.1000	111	100	10.8	30.0
Acrylonitrile	Lin2		0.0506		98.6	100	-1.4	30.0
Tert-butyl ethyl ether	Lin		0.8849		105	100	4.9	30.0
Vinyl acetate	Lin1		0.3114		1000	1000	0.1	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4686		102	100	2.3	30.0
2,2-Dichloropropane	Qua		0.4611		113	100	12.6	30.0
Chlorobromomethane	Ave	0.1791	0.1703		95.1	100	-4.9	30.0
Cyclohexane	Ave	0.6383	0.6885		108	100	7.9	30.0
Chloroform	Lin		0.5459		106	100	6.2	30.0
Carbon tetrachloride	Ave	0.3593	0.4289		119	100	19.3	30.0
Tetrahydrofuran	Lin1		0.0493		1020	1000	1.7	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.5271		107	100	6.8	30.0
2-Butanone (MEK)	Ave	0.0653	0.0531		813	1000	-18.7	30.0
1,1-Dichloropropene	Ave	0.3849	0.4270		111	100	10.9	30.0
Benzene	Ave	1.175	1.190		101	100	1.3	30.0
Tert-amyl methyl ether	Lin		0.6404		103	100	3.5	30.0
1,2-Dichloroethane	Ave	0.2398	0.2374		99.0	100	-1.0	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.3042		136	100	36.3*	30.0
Methylcyclohexane	Ave	0.5730	0.6256		109	100	9.2	30.0
Trichloroethene	Ave	0.2943	0.3095		105	100	5.2	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.2507		130	100	29.7	30.0
Dibromomethane	Ave	0.1115	0.1095		98.2	100	-1.8	30.0

3/28/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2172		120	100	20.1	30.0
Dichlorobromomethane	Ave	0.2830	0.2959		105	100	4.6	30.0
Methyl methacrylate	Ave	0.0593	0.0596		100	100	0.4	30.0
1,4-Dioxane	Ave	0.0211	0.0238		1130	1000	12.9	30.0
2-Chloroethyl vinyl ether	Lin1		0.0457		1040	1000	4.0	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.3015		102	100	1.7	30.0
Toluene	Ave	0.6775	0.7042		104	100	3.9	30.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1246		924	1000	-7.6	30.0
Tetrachloroethene	Ave	0.2090	0.2387		114	100	14.2	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.2257		106	100	6.3	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.1083		99.4	100	-0.6	30.0
Chlorodibromomethane	Ave	0.1624	0.1640		101	100	1.0	30.0
1,3-Dichloropropane	Ave	0.2134	0.2176		102	100	2.0	30.0
Ethylene Dibromide	Ave	0.1323	0.1370		104	100	3.6	30.0
2-Hexanone	Ave	0.0865	0.0728		842	1000	-15.8	30.0
Chlorobenzene	Ave	1.083	1.142	0.3000	106	100	5.5	30.0
Ethylbenzene	Lin		2.057		112	100	12.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3851		101	100	1.0	30.0
m-Xylene & p-Xylene	Lin1		1.586		227	200	13.4	30.0
o-Xylene	Ave	1.735	1.765		102	100	1.7	30.0
Styrene	Ave	1.258	1.318		105	100	4.8	30.0
Bromoform	Ave	0.2952	0.3166	0.1000	107	100	7.3	30.0
Isopropylbenzene	Ave	2.247	2.440		109	100	8.6	30.0
Bromobenzene	Ave	0.7726	0.7757		100	100	0.4	30.0
N-Propylbenzene	Ave	2.529	2.794		110	100	10.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5123	0.3000	99.3	100	-0.7	30.0
2-Chlorotoluene	Ave	1.717	1.772		103	100	3.2	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.983		106	100	5.5	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0707		103	100	3.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0702		96.7	100	-3.3	30.0
4-Chlorotoluene	Ave	1.492	1.571		105	100	5.3	30.0
tert-Butylbenzene	Ave	1.551	1.727		111	100	11.3	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.952		100	100	0.0	30.0
sec-Butylbenzene	Ave	2.541	2.791		110	100	9.9	30.0
4-Isopropyltoluene	Ave	2.050	2.298		112	100	12.1	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9764		99.5	100	-0.5	30.0
1,4-Dichlorobenzene	Ave	1.821	1.930		106	100	6.0	30.0
n-Butylbenzene	Ave	3.711	4.335		117	100	16.8	30.0
1,2-Dichlorobenzene	Ave	1.574	1.619		103	100	2.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0817		99.0	100	-1.0	30.0
Hexachlorobutadiene	Ave	0.5157	0.5799		112	100	12.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.146		107	100	6.6	30.0
Naphthalene	Ave	1.428	1.359		95.2	100	-4.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.8481		105	100	5.0	30.0
Dibromofluoromethane	Ave	0.2595	0.2484		95.7	100	-4.3	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.9048		101	100	1.4	30.0
4-Bromofluorobenzene	Ave	0.5061	0.4900		96.8	100	-3.2	30.0

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TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4755		24.2	20.0	21.2	30.0
Chloromethane	Lin		0.6337	0.1000	21.7	20.0	8.3	30.0
Vinyl chloride	Lin		0.5083		23.4	20.0	17.2	20.0
Bromomethane	Lin		0.3189		22.1	20.0	10.7	30.0
Chloroethane	Lin		0.2750		23.3	20.0	16.3	30.0
Trichlorofluoromethane	Lin		0.5150		23.3	20.0	16.5	30.0
Ethyl ether	Ave	0.1998	0.1719		17.2	20.0	-14.0	30.0
1,1-Dichloroethene	Lin		0.3611		22.8	20.0	13.9	20.0
Carbon disulfide	Ave	1.172	1.201		20.5	20.0	2.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2408		23.9	20.0	19.3	30.0
Acrolein	Lin1		0.5343		1060	1000	6.1	30.0
Methylene Chloride	Lin		0.4088		24.6	20.0	23.1	30.0
Acetone	Qua		0.0364		130	200	-35.2*	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5120		19.4	20.0	-3.0	30.0
Methyl acetate	Lin		0.0991		139	200	-30.4*	30.0
Methyl tert-butyl ether	Lin		0.5152		18.8	20.0	-6.2	30.0
2-Methyl-2-propanol	Lin1		0.2364		186	200	-7.1	30.0
Isopropyl ether	Ave	1.438	1.327		18.4	20.0	-7.8	30.0
1,1-Dichloroethane	Lin		0.5648	0.1000	20.6	20.0	2.8	30.0
Acrylonitrile	Lin2		0.0457		17.8	20.0	-11.1	30.0
Tert-butyl ethyl ether	Lin		0.8428		19.9	20.0	-0.5	30.0
Vinyl acetate	Lin1		0.3408		219	200	9.5	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4346		19.0	20.0	-5.1	30.0
2,2-Dichloropropane	Qua		0.4508		22.0	20.0	9.8	30.0
Cyclohexane	Ave	0.6383	0.7200		22.6	20.0	12.8	30.0
Chlorobromomethane	Ave	0.1791	0.1542		17.2	20.0	-13.9	30.0
Chloroform	Lin		0.4979		19.3	20.0	-3.5	20.0
Carbon tetrachloride	Ave	0.3593	0.4011		22.3	20.0	11.6	30.0
Tetrahydrofuran	Lin1		0.0434		179	200	-10.6	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.5014		20.3	20.0	1.6	30.0
2-Butanone (MEK)	Ave	0.0653	0.0541		166	200	-17.2	30.0
1,1-Dichloropropene	Ave	0.3849	0.4021		20.9	20.0	4.5	30.0
Benzene	Ave	1.175	1.143		19.5	20.0	-2.7	30.0
Tert-amyl methyl ether	Lin		0.6036		19.4	20.0	-2.8	30.0
1,2-Dichloroethane	Ave	0.2398	0.2175		18.1	20.0	-9.3	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2900		26.0	20.0	29.8	30.0
Methylcyclohexane	Ave	0.5730	0.6582		23.0	20.0	14.9	30.0
Trichloroethene	Ave	0.2943	0.2899		19.7	20.0	-1.5	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.2346		24.3	20.0	21.4	30.0
Dibromomethane	Ave	0.1115	0.0971		17.4	20.0	-12.9	30.0

See form V for associated samples

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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2003		22.0	20.0	9.8	20.0
Dichlorobromomethane	Ave	0.2830	0.2588		18.3	20.0	-8.6	30.0
Methyl methacrylate	Ave	0.0593	0.0499		16.8	20.0	-15.8	30.0
1,4-Dioxane	Ave	0.0211	0.0214		203	200	1.5	30.0
2-Chloroethyl vinyl ether	Lin1		0.0409		186	200	-6.9	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2665		18.0	20.0	-10.2	30.0
Toluene	Ave	0.6775	0.6653		19.6	20.0	-1.8	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1253		186	200	-7.0	30.0
Tetrachloroethene	Ave	0.2090	0.2061		19.7	20.0	-1.4	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1800		17.0	20.0	-15.2	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0918		16.9	20.0	-15.7	30.0
Chlorodibromomethane	Ave	0.1624	0.1429		17.6	20.0	-12.0	30.0
1,3-Dichloropropane	Ave	0.2134	0.1800		16.9	20.0	-15.7	30.0
Ethylene Dibromide	Ave	0.1323	0.1103		16.7	20.0	-16.6	30.0
2-Hexanone	Ave	0.0865	0.0668		155	200	-22.7	30.0
Chlorobenzene	Ave	1.083	1.084	0.3000	20.0	20.0	0.1	30.0
Ethylbenzene	Lin		2.128		23.3	20.0	16.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3981		20.9	20.0	4.4	30.0
m-Xylene & p-Xylene	Lin1		1.636		46.8	40.0	17.0	30.0
o-Xylene	Ave	1.735	1.860		21.4	20.0	7.2	30.0
Styrene	Ave	1.258	1.277		20.3	20.0	1.5	30.0
Bromoform	Ave	0.2952	0.2639	0.1000	17.9	20.0	-10.6	20.0
Isopropylbenzene	Ave	2.247	2.540		22.6	20.0	13.1	30.0
Bromobenzene	Ave	0.7726	0.7796		20.2	20.0	0.9	30.0
N-Propylbenzene	Ave	2.529	2.852		22.6	20.0	12.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.4897	0.3000	19.0	20.0	-5.1	30.0
2-Chlorotoluene	Ave	1.717	1.831		21.3	20.0	6.6	30.0
1,3,5-Trimethylbenzene	Ave	1.879	2.070		22.0	20.0	10.2	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0632		18.5	20.0	-7.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0648		17.8	20.0	-10.8	30.0
4-Chlorotoluene	Ave	1.492	1.554		20.8	20.0	4.1	30.0
tert-Butylbenzene	Ave	1.551	1.832		23.6	20.0	18.1	30.0
1,2,4-Trimethylbenzene	Ave	1.951	2.132		21.8	20.0	9.2	30.0
sec-Butylbenzene	Ave	2.541	2.935		23.1	20.0	15.5	30.0
4-Isopropyltoluene	Ave	2.050	2.355		23.0	20.0	14.9	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9928		20.2	20.0	1.2	30.0
1,4-Dichlorobenzene	Ave	1.821	1.802		19.8	20.0	-1.0	30.0
n-Butylbenzene	Ave	3.711	4.252		22.9	20.0	14.6	30.0
1,2-Dichlorobenzene	Ave	1.574	1.566		19.9	20.0	-0.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0736		17.8	20.0	-10.8	30.0
Hexachlorobutadiene	Ave	0.5157	0.5656		21.9	20.0	9.7	30.0

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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48231/2 Calibration Date: 08/26/2009 17:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.057		19.7	20.0	-1.7	30.0
Naphthalene	Ave	1.428	1.340		18.8	20.0	-6.1	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7929		19.6	20.0	-1.8	30.0
Dibromofluoromethane	Ave	0.2595	0.2471		19.0	20.0	-4.8	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8686		19.5	20.0	-2.7	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5114		20.2	20.0	1.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48354/2 Calibration Date: 08/29/2009 02:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44575.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3161		16.0	20.0	-20.1	30.0
Chloromethane	Lin		0.5437	0.1000	18.3	20.0	-8.4	30.0
Vinyl chloride	Lin		0.4016		18.0	20.0	-9.8	20.0
Bromomethane	Lin		0.2729		18.6	20.0	-7.1	30.0
Chloroethane	Lin		0.2292		18.9	20.0	-5.6	30.0
Trichlorofluoromethane	Lin		0.3700		16.3	20.0	-18.3	30.0
Ethyl ether	Ave	0.1998	0.1670		16.7	20.0	-16.4	30.0
1,1-Dichloroethene	Lin		0.2808		17.4	20.0	-13.1	20.0
Carbon disulfide	Ave	1.172	0.9604		16.4	20.0	-18.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.1654		15.9	20.0	-20.5	30.0
Acrolein	Lin1		0.4619		916	1000	-8.4	30.0
Methylene Chloride	Lin		0.3286		19.2	20.0	-4.1	30.0
Acetone	Qua		0.0444		168	200	-16.2	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.4476		17.0	20.0	-15.2	30.0
Methyl acetate	Lin		0.1088		155	200	-22.7	30.0
Methyl tert-butyl ether	Lin		0.4751		17.2	20.0	-14.1	30.0
2-Methyl-2-propanol	Lin1		0.2177		171	200	-14.6	30.0
Isopropyl ether	Ave	1.438	1.253		17.4	20.0	-12.9	30.0
1,1-Dichloroethane	Lin		0.5267	0.1000	19.1	20.0	-4.5	30.0
Acrylonitrile	Lin2		0.0443		17.2	20.0	-13.9	30.0
Tert-butyl ethyl ether	Lin		0.7971		18.7	20.0	-6.4	30.0
Vinyl acetate	Lin1		0.2989		192	200	-3.8	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4079		17.8	20.0	-11.0	30.0
2,2-Dichloropropane	Qua		0.3160		14.8	20.0	-25.9	30.0
Cyclohexane	Ave	0.6383	0.5342		16.7	20.0	-16.3	30.0
Chlorobromomethane	Ave	0.1791	0.1446		16.2	20.0	-19.2	30.0
Chloroform	Lin		0.4732		18.3	20.0	-8.5	20.0
Carbon tetrachloride	Ave	0.3593	0.3040		16.9	20.0	-15.4	30.0
Tetrahydrofuran	Lin1		0.0448		184	200	-7.9	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4011		16.3	20.0	-18.7	30.0
2-Butanone (MEK)	Ave	0.0653	0.0597		183	200	-8.7	30.0
1,1-Dichloropropene	Ave	0.3849	0.3391		17.6	20.0	-11.9	30.0
Benzene	Ave	1.175	1.029		17.5	20.0	-12.5	30.0
Tert-amyl methyl ether	Lin		0.5631		18.1	20.0	-9.7	30.0
1,2-Dichloroethane	Ave	0.2398	0.2130		17.8	20.0	-11.2	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2019		17.9	20.0	-10.3	30.0
Methylcyclohexane	Ave	0.5730	0.4748		16.6	20.0	-17.1	30.0
Trichloroethene	Ave	0.2943	0.2608		17.7	20.0	-11.4	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1593		16.4	20.0	-17.8	30.0
Dibromomethane	Ave	0.1115	0.0961		17.2	20.0	-13.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48354/2 Calibration Date: 08/29/2009 02:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44575.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.1923		21.0	20.0	4.9	20.0
Dichlorobromomethane	Ave	0.2830	0.2550		18.0	20.0	-9.9	30.0
Methyl methacrylate	Ave	0.0593	0.0512		17.3	20.0	-13.7	30.0
1,4-Dioxane	Ave	0.0211	0.0197		187	200	-6.6	30.0
2-Chloroethyl vinyl ether	Lin1		0.0433		197	200	-1.3	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2567		17.3	20.0	-13.4	30.0
Toluene	Ave	0.6775	0.5849		17.3	20.0	-13.7	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1272		189	200	-5.5	30.0
Tetrachloroethene	Ave	0.2090	0.1709		16.3	20.0	-18.3	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1775		16.7	20.0	-16.4	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0903		16.6	20.0	-17.1	30.0
Chlorodibromomethane	Ave	0.1624	0.1356		16.7	20.0	-16.5	30.0
1,3-Dichloropropane	Ave	0.2134	0.1798		16.8	20.0	-15.8	30.0
Ethylene Dibromide	Ave	0.1323	0.1089		16.5	20.0	-17.7	30.0
2-Hexanone	Ave	0.0865	0.0721		167	200	-16.6	30.0
Chlorobenzene	Ave	1.083	0.9985	0.3000	18.4	20.0	-7.8	30.0
Ethylbenzene	Lin		1.795		19.5	20.0	-2.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3536		18.6	20.0	-7.2	30.0
m-Xylene & p-Xylene	Lin1		1.381		39.4	40.0	-1.4	30.0
o-Xylene	Ave	1.735	1.582		18.2	20.0	-8.8	30.0
Styrene	Ave	1.258	1.152		18.3	20.0	-8.5	30.0
Bromoform	Ave	0.2952	0.2525	0.1000	17.1	20.0	-14.4	20.0
Isopropylbenzene	Ave	2.247	2.103		18.7	20.0	-6.4	30.0
Bromobenzene	Ave	0.7726	0.6930		17.9	20.0	-10.3	30.0
N-Propylbenzene	Ave	2.529	2.318		18.3	20.0	-8.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.4576	0.3000	17.7	20.0	-11.3	30.0
2-Chlorotoluene	Ave	1.717	1.555		18.1	20.0	-9.5	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.729		18.4	20.0	-8.0	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0579		16.9	20.0	-15.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0579		15.9	20.0	-20.3	30.0
4-Chlorotoluene	Ave	1.492	1.325		17.8	20.0	-11.2	30.0
tert-Butylbenzene	Ave	1.551	1.489		19.2	20.0	-4.0	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.757		18.0	20.0	-9.9	30.0
sec-Butylbenzene	Ave	2.541	2.340		18.4	20.0	-7.9	30.0
4-Isopropyltoluene	Ave	2.050	1.867		18.2	20.0	-8.9	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.8447		17.2	20.0	-13.9	30.0
1,4-Dichlorobenzene	Ave	1.821	1.619		17.8	20.0	-11.1	30.0
n-Butylbenzene	Ave	3.711	3.471		18.7	20.0	-6.4	30.0
1,2-Dichlorobenzene	Ave	1.574	1.422		18.1	20.0	-9.7	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0708		17.1	20.0	-14.3	30.0
Hexachlorobutadiene	Ave	0.5157	0.4549		17.6	20.0	-11.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48354/2 Calibration Date: 08/29/2009 02:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44575.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	0.9582		17.8	20.0	-10.9	30.0
Naphthalene	Ave	1.428	1.265		17.7	20.0	-11.4	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7246		17.9	20.0	-10.3	30.0
Dibromofluoromethane	Ave	0.2595	0.2481		19.1	20.0	-4.4	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8603		19.3	20.0	-3.6	30.0
4-Bromofluorobenzene	Ave	0.5061	0.4909		19.4	20.0	-3.0	30.0

TC 3/28/10 ✓

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48475/2 Calibration Date: 09/02/2009 01:00

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44667.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3190		16.1	20.0	-19.3	30.0
Chloromethane	Lin		0.5952	0.1000	20.2	20.0	1.1	30.0
Vinyl chloride	Lin		0.4177		18.9	20.0	-5.7	20.0
Bromomethane	Lin		0.2859		19.6	20.0	-2.1	30.0
Chloroethane	Lin		0.2445		20.3	20.0	1.7	30.0
Trichlorofluoromethane	Lin		0.3619		15.9	20.0	-20.3	30.0
Ethyl ether	Ave	0.1998	0.1883		18.8	20.0	-5.8	30.0
1,1-Dichloroethene	Lin		0.2971		18.5	20.0	-7.6	20.0
Carbon disulfide	Ave	1.172	1.081		18.4	20.0	-7.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.1639		15.7	20.0	-21.3	30.0
Acrolein	Lin1		0.5226		1040	1000	3.8	30.0
Methylene Chloride	Lin		0.3971		23.8	20.0	19.2	30.0
Acetone	Qua		0.0412		152	200	-24.0	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5025		19.0	20.0	-4.8	30.0
Methyl acetate	Lin		0.1211		174	200	-13.0	30.0
Methyl tert-butyl ether	Lin		0.5425		19.8	20.0	-0.9	30.0
2-Methyl-2-propanol	Lin1		0.2367		186	200	-7.0	30.0
Isopropyl ether	Ave	1.438	1.410		19.6	20.0	-1.9	30.0
1,1-Dichloroethane	Lin		0.5806	0.1000	21.2	20.0	5.9	30.0
Acrylonitrile	Lin2		0.0511		19.9	20.0	-0.4	30.0
Tert-butyl ethyl ether	Lin		0.8861		21.0	20.0	5.0	30.0
Vinyl acetate	Lin1		0.3636		233	200	16.7	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4561		19.9	20.0	-0.4	30.0
2,2-Dichloropropane	Qua		0.3763		18.0	20.0	-10.2	30.0
Cyclohexane	Ave	0.6383	0.5950		18.6	20.0	-6.8	30.0
Chlorobromomethane	Ave	0.1791	0.1524		17.0	20.0	-14.9	30.0
Chloroform	Lin		0.5076		19.7	20.0	-1.5	20.0
Carbon tetrachloride	Ave	0.3593	0.3179		17.7	20.0	-11.5	30.0
Tetrahydrofuran	Lin1		0.0497		205	200	2.6	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4388		17.8	20.0	-11.1	30.0
2-Butanone (MEK)	Ave	0.0653	0.0574		176	200	-12.2	30.0
1,1-Dichloropropene	Ave	0.3849	0.3606		18.7	20.0	-6.3	30.0
Benzene	Ave	1.175	1.102		18.7	20.0	-6.3	30.0
Tert-amyl methyl ether	Lin		0.6251		20.2	20.0	0.9	30.0
1,2-Dichloroethane	Ave	0.2398	0.2194		18.3	20.0	-8.5	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2169		19.3	20.0	-3.5	30.0
Methylcyclohexane	Ave	0.5730	0.5175		18.1	20.0	-9.7	30.0
Trichloroethene	Ave	0.2943	0.2680		18.2	20.0	-8.9	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1655		17.1	20.0	-14.6	30.0
Dibromomethane	Ave	0.1115	0.0987		17.7	20.0	-11.5	30.0

3/25/10 TC

09/23/2009

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48475/2 Calibration Date: 09/02/2009 01:00

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44667.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2116		23.3	20.0	16.7	20.0
Dichlorobromomethane	Ave	0.2830	0.2540		17.9	20.0	-10.3	30.0
Methyl methacrylate	Ave	0.0593	0.0511		17.2	20.0	-13.9	30.0
1,4-Dioxane	Ave	0.0211	0.0199		189	200	-5.6	30.0
2-Chloroethyl vinyl ether	Lin1		0.0386		176	200	-12.1	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2508		16.9	20.0	-15.4	30.0
Toluene	Ave	0.6775	0.5919		17.5	20.0	-12.6	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1332		199	200	-0.7	30.0
Tetrachloroethene	Ave	0.2090	0.1688		16.1	20.0	-19.3	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1669		15.7	20.0	-21.4	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0895		16.4	20.0	-17.8	30.0
Chlorodibromomethane	Ave	0.1624	0.1278		15.7	20.0	-21.3	30.0
1,3-Dichloropropane	Ave	0.2134	0.1745		16.3	20.0	-18.3	30.0
Ethylene Dibromide	Ave	0.1323	0.0994		15.0	20.0	-24.9	30.0
2-Hexanone	Ave	0.0865	0.0661		153	200	-23.6	30.0
Chlorobenzene	Ave	1.083	1.034	0.3000	19.1	20.0	-4.5	30.0
Ethylbenzene	Lin		2.006		21.9	20.0	9.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.4018		21.1	20.0	5.4	30.0
m-Xylene & p-Xylene	Lin1		1.530		43.7	40.0	9.3	30.0
o-Xylene	Ave	1.735	1.827		21.1	20.0	5.3	30.0
Styrene	Ave	1.258	1.196		19.0	20.0	-5.0	30.0
Bromoform	Ave	0.2952	0.2512	0.1000	17.0	20.0	-14.9	20.0
Isopropylbenzene	Ave	2.247	2.405		21.4	20.0	7.1	30.0
Bromobenzene	Ave	0.7726	0.7749		20.1	20.0	0.3	30.0
N-Propylbenzene	Ave	2.529	2.638		20.9	20.0	4.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5115	0.3000	19.8	20.0	-0.8	30.0
2-Chlorotoluene	Ave	1.717	1.771		20.6	20.0	3.2	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.977		21.0	20.0	5.2	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0629		18.4	20.0	-8.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0687		18.9	20.0	-5.3	30.0
4-Chlorotoluene	Ave	1.492	1.479		19.8	20.0	-0.9	30.0
tert-Butylbenzene	Ave	1.551	1.656		21.4	20.0	6.8	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.991		20.4	20.0	2.0	30.0
sec-Butylbenzene	Ave	2.541	2.669		21.0	20.0	5.0	30.0
4-Isopropyltoluene	Ave	2.050	2.131		20.8	20.0	4.0	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9257		18.9	20.0	-5.7	30.0
1,4-Dichlorobenzene	Ave	1.821	1.676		18.4	20.0	-8.0	30.0
n-Butylbenzene	Ave	3.711	3.862		20.8	20.0	4.1	30.0
1,2-Dichlorobenzene	Ave	1.574	1.499		19.0	20.0	-4.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0748		18.1	20.0	-9.3	30.0
Hexachlorobutadiene	Ave	0.5157	0.5024		19.5	20.0	-2.6	30.0

TC 3/25/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48475/2 Calibration Date: 09/02/2009 01:00

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44667.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.031		19.2	20.0	-4.1	30.0
Naphthalene	Ave	1.428	1.332		18.7	20.0	-6.7	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7768		19.2	20.0	-3.8	30.0
Dibromofluoromethane	Ave	0.2595	0.2514		19.4	20.0	-3.1	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8398		18.8	20.0	-5.9	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5125		20.3	20.0	1.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48655/2 Calibration Date: 09/08/2009 09:51

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07508.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3549	0.4022		22.7	20.0	13.3	30.0
Chloromethane	Ave	0.3516	0.3499	0.1000	19.9	20.0	-0.5	30.0
Vinyl chloride	Lin		0.3168		23.6	20.0	18.0	20.0
Bromomethane	Ave	0.2017	0.2135		21.2	20.0	5.9	30.0
Chloroethane	Ave	0.1469	0.1560		21.2	20.0	6.2	30.0
Trichlorofluoromethane	Ave	0.5103	0.5690		22.3	20.0	11.5	30.0
Ethyl ether	Ave	0.1302	0.1349		20.7	20.0	3.5	30.0
1,1-Dichloroethene	Lin		0.4417		21.5	20.0	7.6	20.0
Carbon disulfide	Ave	0.7933	0.7861		19.8	20.0	-0.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2246	0.2378		21.2	20.0	5.9	30.0
Acrolein	Ave	0.0337	0.0399		1180	1000	18.1	30.0
Methylene Chloride	Lin1		0.2546		21.7	20.0	8.7	30.0
Acetone	Qua		0.0391		203	200	1.6	30.0
trans-1,2-Dichloroethene	Ave	0.4029	0.4261		21.2	20.0	5.8	30.0
Methyl acetate	Ave	0.0693	0.0744		215	200	7.4	30.0
Methyl tert-butyl ether	Ave	0.4796	0.5633		23.5	20.0	17.5	30.0
2-Methyl-2-propanol	Ave	0.0251	0.0302		241	200	20.5	30.0
Isopropyl ether	Ave	0.7012	0.7913		22.6	20.0	12.9	30.0
1,1-Dichloroethane	Ave	0.4775	0.4931	0.1000	20.7	20.0	3.3	30.0
Acrylonitrile	Ave	0.0301	0.0361		24.0	20.0	20.0	30.0
Tert-butyl ethyl ether	Ave	0.5985	0.7106		23.7	20.0	18.7	30.0
Vinyl acetate	Ave	0.2215	0.2646		239	200	19.5	30.0
cis-1,2-Dichloroethene	Ave	0.3646	0.3843		21.1	20.0	5.4	30.0
2,2-Dichloropropane	Ave	0.3560	0.3873		21.8	20.0	8.8	30.0
Chlorobromomethane	Ave	0.1334	0.1467		22.0	20.0	10.0	30.0
Cyclohexane	Ave	0.3705	0.4103		22.1	20.0	10.7	30.0
Chloroform	Lin		0.5183		22.0	20.0	9.9	20.0
Carbon tetrachloride	Ave	0.4677	0.5084		21.7	20.0	8.7	30.0
Tetrahydrofuran	Ave	0.0320	0.0354		221	200	10.6	30.0
1,1,1-Trichloroethane	Ave	0.4887	0.5193		21.3	20.0	6.3	30.0
2-Butanone (MEK)	Ave	0.0420	0.0467		222	200	11.2	30.0
1,1-Dichloropropene	Ave	0.3247	0.3611		22.2	20.0	11.2	30.0
Benzene	Ave	0.8655	0.9213		21.3	20.0	6.4	30.0
Tert-amyl methyl ether	Ave	0.4485	0.5483		24.5	20.0	22.3	30.0
1,2-Dichloroethane	Ave	0.2867	0.2994		20.9	20.0	4.4	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.2112	0.2166		20.5	20.0	2.6	30.0
Methylcyclohexane	Ave	0.3984	0.4527		22.7	20.0	13.6	30.0
Trichloroethene	Ave	0.2687	0.2770		20.6	20.0	3.1	30.0
2,4,4-Trimethyl-2-pentene	Lin2		0.5871		22.6	20.0	13.2	30.0
Dibromomethane	Ave	0.1028	0.1107		21.5	20.0	7.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48655/2 Calibration Date: 09/08/2009 09:51

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07508.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2103		21.4	20.0	7.0	20.0
Dichlorobromomethane	Ave	0.3128	0.3294		21.1	20.0	5.3	30.0
Methyl methacrylate	Ave	0.0557	0.0688		24.7	20.0	23.5	30.0
1,4-Dioxane	Qua		0.0011		315	200	57.3*	30.0
2-Chloroethyl vinyl ether	Lin1		0.0442		247	200	23.4	30.0
cis-1,3-Dichloropropene	Ave	0.2887	0.3253		22.5	20.0	12.7	30.0
Toluene	Ave	0.5358	0.5587		20.9	20.0	4.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0961	0.1129		235	200	17.5	30.0
Tetrachloroethene	Ave	0.2139	0.2322		21.7	20.0	8.6	30.0
trans-1,3-Dichloropropene	Ave	0.2493	0.2768		22.2	20.0	11.0	30.0
1,1,2-Trichloroethane	Ave	0.1097	0.1208		22.0	20.0	10.1	30.0
Chlorodibromomethane	Ave	0.2068	0.2283		22.1	20.0	10.4	30.0
1,3-Dichloropropane	Ave	0.2015	0.2295		22.8	20.0	13.9	30.0
Ethylene Dibromide	Ave	0.1243	0.1405		22.6	20.0	13.0	30.0
2-Hexanone	Ave	0.0677	0.0767		226	200	13.2	30.0
Chlorobenzene	Ave	0.8153	0.8348	0.3000	20.5	20.0	2.4	30.0
Ethylbenzene	Ave	1.543	1.553		20.1	20.0	0.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3471		21.0	20.0	5.0	30.0
m-Xylene & p-Xylene	Ave	1.222	1.264		41.4	40.0	3.4	30.0
o-Xylene	Ave	1.203	1.301		21.6	20.0	8.1	30.0
Styrene	Ave	0.8537	0.8990		21.1	20.0	5.3	30.0
Bromoform	Ave	0.3031	0.3247	0.1000	21.4	20.0	7.1	20.0
Isopropylbenzene	Ave	1.477	1.614		21.8	20.0	9.2	30.0
Bromobenzene	Ave	0.6398	0.6552		20.5	20.0	2.4	30.0
N-Propylbenzene	Ave	1.839	1.892		20.6	20.0	2.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3430	0.3633	0.3000	21.2	20.0	5.9	30.0
2-Chlorotoluene	Ave	1.244	1.291		20.7	20.0	3.7	30.0
1,3,5-Trimethylbenzene	Ave	1.293	1.368		21.2	20.0	5.8	30.0
1,2,3-Trichloropropane	Lin		0.1787		24.8	20.0	24.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0555	0.0637		22.9	20.0	14.7	30.0
4-Chlorotoluene	Ave	1.124	1.166		20.7	20.0	3.7	30.0
tert-Butylbenzene	Ave	1.057	1.178		22.3	20.0	11.5	30.0
1,2,4-Trimethylbenzene	Ave	1.270	1.364		21.5	20.0	7.4	30.0
sec-Butylbenzene	Ave	1.577	1.706		21.6	20.0	8.2	30.0
4-Isopropyltoluene	Ave	1.281	1.427		22.3	20.0	11.4	30.0
1,3-Dichlorobenzene	Ave	0.7125	0.7630		21.4	20.0	7.1	30.0
1,4-Dichlorobenzene	Ave	1.274	1.309		20.5	20.0	2.7	30.0
n-Butylbenzene	Ave	2.283	2.403		21.1	20.0	5.3	30.0
1,2-Dichlorobenzene	Ave	1.066	1.126		21.1	20.0	5.6	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0677		22.4	20.0	11.8	30.0
Hexachlorobutadiene	Qua		0.6173		27.4	20.0	36.8*	30.0

TC 3/28/10 09/23/2009

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24251-1

SDG No.: OCRI-05

Lab Sample ID: CCVIS 360-48655/2 Calibration Date: 09/08/2009 09:51

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07508.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.7037	0.8159		23.2	20.0	16.0	30.0
Naphthalene	Ave	0.8853	1.107		25.0	20.0	25.0	30.0
1,2,3-Trichlorobenzene	Ave	0.5445	0.6545		24.0	20.0	20.2	30.0
Dibromofluoromethane	Ave	0.2974	0.3019		20.3	20.0	1.5	30.0
Toluene-d8 (Surr)	Ave	1.029	1.040		20.2	20.0	1.1	30.0
4-Bromofluorobenzene	Ave	0.5350	0.5389		20.1	20.0	0.7	30.0

OCRI-06
Tier 2

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360-24309-1

LAB #: TAL-westfield

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Data completeness				
☑	☐	☐	All data summaries, QC forms and raw data available from hard copy or electronic data package	Contact lab if missing data. Lab to respond with 24 hours.
☑	☐	☐	Data summaries match EDD	
Holding Times and Preservation				
☑	☐	☐	Hold times met (14 days with preservation)	
☑	☐	☐	Preserved (waters HCL, soils methanol) (TC)	
Instrument Performance Check (Tune)				
☑	☐	☐	Tune available for each 12-hour period samples were analyzed	
☑	☐	☐	Appropriate number of significant figures reported (at least 2)	
☑	☐	☐	Mass/Charge list (m/z) criteria met	
Initial Calibration				I-Cals 8-24-09 HP#1 9-08-09 HP#1 9-04-09 HP#3 see attached
* ☑	☐	☐	%RSD less than or equal to 30%	
☐	☑	☐	RRF greater than or equal to 0.05	
Continuing Calibration				
* ☐	☑	☐	%D less than or equal to 25%	→ see attached
☑	☐	☐	RRF greater than or equal to 0.05.	
Blank Contamination				Evaluate all blanks for contamination. Highest contaminant level used for action level.
☑	☐	☐	Method blank contamination	
☑	☐	☐	Trip blank contamination	→ MeCl2 @ 310 ug/kg No Samples Qualified
☐	☑	☐	Equipment/Rinseate blank contamination	

Some hits but not effecting Samples.

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes No N/A TIER I / (II) / III (circle one)

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples ☐ ☑ ☐ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☑ ☐ ☐ MS/MSD RPD criteria met (water and soil <30%) ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	→ see attached Form 3 See Attached Form 3 & Form 5
Field Duplicates ☑ ☐ ☐ RPD criteria (water <30%, soils <50%) met	no hits in Field Sample & Dups
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: _____

Date: 3/31/10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-400-0.0/1.0-XXX

Lab Sample ID: 360-24309-1
Client Matrix: Solid % Moisture: 3.1

Date Sampled: 08/26/2009 1325
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07494.D
Dilution:	1.0			Initial Weight/Volume:	5.60 g
Date Analyzed:	09/05/2009 0547			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.92	2.3
1,1,1-Trichloroethane		ND		0.92	2.3
1,1,2,2-Tetrachloroethane		ND		0.92	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.92	12
1,1,2-Trichloroethane		ND		0.92	2.3
1,1-Dichloroethane		ND		0.92	2.3
1,1-Dichloroethene		ND		0.92	2.3
1,1-Dichloropropene		ND		0.92	2.3
1,2,3-Trichlorobenzene		ND		0.92	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.92	2.3
1,2,4-Trimethylbenzene		ND		0.92	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.92	2.3
1,2-Dichlorobenzene		ND		0.92	2.3
1,2-Dichloroethane		ND		0.92	2.3
Acetone		ND J	*	17	230
1,2-Dichloropropane		ND		0.92	2.3
1,3,5-Trimethylbenzene		ND		0.92	2.3
1,3-Dichlorobenzene		ND		0.92	2.3
1,3-Dichloropropane		ND		0.92	2.3
1,4-Dichlorobenzene		ND		0.92	2.3
1,4-Dioxane		~~ND~~ R	*	30	230
2,2-Dichloropropane		ND		0.92	2.3
2,4,4-Trimethyl-1-pentene		ND J		0.92	4.6
2,4,4-Trimethyl-2-pentene		ND		0.92	4.6
2-Chlorotoluene		ND		0.92	2.3
2-Hexanone		ND		4.7	23
4-Chlorotoluene		ND		0.92	2.3
Benzene		ND		0.92	2.3
Bromobenzene		ND		0.92	2.3
Chlorobromomethane		ND		0.92	2.3
Dichlorobromomethane		ND		0.92	2.3
Bromoform		ND		0.92	2.3
Bromomethane		ND		0.92	4.6
n-Butylbenzene		ND		0.92	2.3
Carbon disulfide		ND		0.92	2.3
Carbon tetrachloride		ND		0.92	2.3
Chlorobenzene		ND		0.92	2.3
Chloroethane		ND		0.92	4.6
Chloroform		ND		0.92	2.3
Chloromethane		ND		0.92	4.6
cis-1,2-Dichloroethene		ND		0.92	2.3
cis-1,3-Dichloropropene		ND		0.92	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.92	2.3

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-400-0.0/1.0-XXX

Lab Sample ID: 360-24309-1
Client Matrix: Solid

% Moisture: 3.1

Date Sampled: 08/26/2009 1325
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/05/2009 0547
Date Prepared: 09/03/2009 1545

Analysis Batch: 360-48642
Prep Batch: 360-48640

Instrument ID: HP #3 GC/MS
Lab File ID: V07494.D
Initial Weight/Volume: 5.60 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.92	2.3
Dichlorodifluoromethane		ND J	*	0.92	4.6
Ethyl ether		ND		0.92	2.3
Isopropyl ether		ND		0.92	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.92	2.3
Hexachlorobutadiene		ND		0.92	2.3
Isopropylbenzene		ND		0.92	2.3
Methyl acetate		ND		15	46
2-Butanone (MEK)		ND J		6.2	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.92	2.3
Methylcyclohexane		ND		0.92	2.3
Methylene Chloride		ND		4.5	9.2
m-Xylene & p-Xylene		ND		0.92	4.6
Naphthalene		ND		0.92	23
N-Propylbenzene		ND		0.92	2.3
o-Xylene		ND		0.92	2.3
4-Isopropyltoluene		ND		0.92	2.3
sec-Butylbenzene		ND		0.92	2.3
Styrene		ND		0.92	2.3
Tert-amyl methyl ether		ND		0.92	2.3
tert-Butylbenzene		ND		0.92	2.3
Tetrachloroethene		ND		0.92	2.3
Tetrahydrofuran		ND J		5.1	23
Toluene		ND		0.92	2.3
trans-1,2-Dichloroethene		ND		0.92	2.3
trans-1,3-Dichloropropene		ND		0.92	2.3
Trichloroethene		ND		0.92	2.3
Trichlorofluoromethane		ND J	*	0.92	4.6
Vinyl chloride		ND		0.92	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TC 3/30/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-400-0.0/1.0-XXX

Lab Sample ID: 360-24309-1
Client Matrix: Solid

% Moisture: 3.1

Date Sampled: 08/26/2009 1325
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07494.D
Dilution:	1.0			Initial Weight/Volume:	5.60 g
Date Analyzed:	09/05/2009 0547			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.60	7.6	T J

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-400-5.0/7.0-XXX**

Lab Sample ID: 360-24309-2
Client Matrix: Solid % Moisture: 6.7

Date Sampled: 08/26/2009 1330
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/29/2009 0739
Date Prepared: 08/28/2009 1606

Analysis Batch: 360-48354
Prep Batch: 360-48353

Instrument ID: HP #1 GC/MS
Lab File ID: V44589.D
Initial Weight/Volume: 5.48 g
Final Weight/Volume: 5 g

Analyte (DryWt Corrected: Y)	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.98	2.4
1,1,1-Trichloroethane	ND		0.98	2.4
1,1,2,2-Tetrachloroethane	ND		0.98	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.98	12
1,1,2-Trichloroethane	ND		0.98	2.4
1,1-Dichloroethane	ND		0.98	2.4
1,1-Dichloroethene	ND		0.98	2.4
1,1-Dichloropropene	ND		0.98	2.4
1,2,3-Trichlorobenzene	ND		0.98	2.4
1,2,3-Trichloropropane	ND		1.4	2.4
1,2,4-Trichlorobenzene	ND		0.98	2.4
1,2,4-Trimethylbenzene	ND		0.98	2.4
1,2-Dibromo-3-Chloropropane	ND		1.8	24
Ethylene Dibromide	ND		0.98	2.4
1,2-Dichlorobenzene	ND		0.98	2.4
1,2-Dichloroethane	ND		0.98	2.4
Acetone	ND J	*	18	240
1,2-Dichloropropane	ND		0.98	2.4
1,3,5-Trimethylbenzene	ND		0.98	2.4
1,3-Dichlorobenzene	ND		0.98	2.4
1,3-Dichloropropane	ND		0.98	2.4
1,4-Dichlorobenzene	ND		0.98	2.4
1,4-Dioxane	ND		32	240
2,2-Dichloropropane	ND		0.98	2.4
2,4,4-Trimethyl-1-pentene	ND		0.98	4.9
2,4,4-Trimethyl-2-pentene	ND		0.98	4.9
2-Chlorotoluene	ND		0.98	2.4
2-Hexanone	ND		5.0	24
4-Chlorotoluene	ND		0.98	2.4
Benzene	ND		0.98	2.4
Bromobenzene	ND		0.98	2.4
Chlorobromomethane	ND		0.98	2.4
Dichlorobromomethane	ND		0.98	2.4
Bromoform	ND		0.98	2.4
Bromomethane	ND		0.98	4.9
n-Butylbenzene	ND		0.98	2.4
Carbon disulfide	ND		0.98	2.4
Carbon tetrachloride	ND		0.98	2.4
Chlorobenzene	ND		0.98	2.4
Chloroethane	ND		0.98	4.9
Chloroform	ND		0.98	2.4
Chloromethane	ND		0.98	4.9
cis-1,2-Dichloroethene	ND		0.98	2.4
cis-1,3-Dichloropropene	ND		0.98	2.4
Cyclohexane	ND		2.5	24
Chlorodibromomethane	ND		0.98	2.4

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-400-5.0/7.0-XXX

Lab Sample ID: 360-24309-2
Client Matrix: Solid

% Moisture: 6.7

Date Sampled: 08/26/2009 1330
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/29/2009 0739
Date Prepared: 08/28/2009 1606

Analysis Batch: 360-48354
Prep Batch: 360-48353

Instrument ID: HP #1 GC/MS
Lab File ID: V44589.D
Initial Weight/Volume: 5.48 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.98	2.4
Dichlorodifluoromethane		ND J	*	0.98	4.9
Ethyl ether		ND		0.98	2.4
Isopropyl ether		ND		0.98	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.98	2.4
Hexachlorobutadiene		ND		0.98	2.4
Isopropylbenzene		ND		0.98	2.4
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND		6.6	24
4-Methyl-2-pentanone (MIBK)		ND		5.0	24
Methyl tert-butyl ether		ND		0.98	2.4
Methylcyclohexane		ND		0.98	2.4
Methylene Chloride		ND		4.7	9.8
m-Xylene & p-Xylene		ND		0.98	4.9
Naphthalene		ND		0.98	24
N-Propylbenzene		ND		0.98	2.4
o-Xylene		ND		0.98	2.4
4-Isopropyltoluene		ND		0.98	2.4
sec-Butylbenzene		ND		0.98	2.4
Styrene		ND		0.98	2.4
Tert-amyl methyl ether		ND		0.98	2.4
tert-Butylbenzene		ND		0.98	2.4
Tetrachloroethene		ND		0.98	2.4
Tetrahydrofuran		ND		5.4	24
Toluene		ND		0.98	2.4
trans-1,2-Dichloroethene		ND		0.98	2.4
trans-1,3-Dichloropropene		ND		0.98	2.4
Trichloroethene		ND		0.98	2.4
Trichlorofluoromethane		ND		0.98	4.9
Vinyl chloride		ND		0.98	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-400-5.0/7.0-XXX**

Lab Sample ID: 360-24309-2
Client Matrix: Solid

% Moisture: 6.7

Date Sampled: 08/26/2009 1330
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44589.D
Dilution:	1.0			Initial Weight/Volume:	5.48 g
Date Analyzed:	08/29/2009 0739			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-401-0.0/1.0-XXX

Lab Sample ID: 360-24309-3
Client Matrix: Solid

% Moisture: 5.1

Date Sampled: 08/26/2009 1230
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07495.D
Dilution:	1.0			Initial Weight/Volume:	5.19 g
Date Analyzed:	09/05/2009 0610			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND J	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		~~ND~~ J R	*	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND J		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-401-0.0/1.0-XXX**

Lab Sample ID: 360-24309-3
Client Matrix: Solid % Moisture: 5.1

Date Sampled: 08/26/2009 1230
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/05/2009 0610
Date Prepared: 09/03/2009 1545

Analysis Batch: 360-48642
Prep Batch: 360-48640

Instrument ID: HP #3 GC/MS
Lab File ID: V07495.D
Initial Weight/Volume: 5.19 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J	*	1.0	5.1
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	51
2-Butanone (MEK)		ND J		6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND J		5.6	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND J	*	1.0	5.1
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	107		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-401-0.0/1.0-XXX

Lab Sample ID: 360-24309-3
Client Matrix: Solid

% Moisture: 5.1

Date Sampled: 08/26/2009 1230
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07495.D
Dilution:	1.0			Initial Weight/Volume:	5.19 g
Date Analyzed:	09/05/2009 0610			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.69	9.5	T J

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-401-7.5/9.5-XXX

Lab Sample ID: 360-24309-4
Client Matrix: Solid

% Moisture: 8.5

Date Sampled: 08/26/2009 1245
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/29/2009 0803
Date Prepared: 08/28/2009 1606

Analysis Batch: 360-48354
Prep Batch: 360-48353

Instrument ID: HP #1 GC/MS
Lab File ID: V44590.D
Initial Weight/Volume: 6.22 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.88	2.2
1,1,1-Trichloroethane		ND		0.88	2.2
1,1,2,2-Tetrachloroethane		ND		0.88	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.88	11
1,1,2-Trichloroethane		ND		0.88	2.2
1,1-Dichloroethane		ND		0.88	2.2
1,1-Dichloroethene		ND		0.88	2.2
1,1-Dichloropropene		ND		0.88	2.2
1,2,3-Trichlorobenzene		ND		0.88	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.88	2.2
1,2,4-Trimethylbenzene		ND		0.88	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.88	2.2
1,2-Dichlorobenzene		ND		0.88	2.2
1,2-Dichloroethane		ND		0.88	2.2
Acetone		ND	J	16	220
1,2-Dichloropropane		ND		0.88	2.2
1,3,5-Trimethylbenzene		ND		0.88	2.2
1,3-Dichlorobenzene		ND		0.88	2.2
1,3-Dichloropropane		ND		0.88	2.2
1,4-Dichlorobenzene		ND		0.88	2.2
1,4-Dioxane		~~ND~~	~~J~~ R VJ	29	220
2,2-Dichloropropane		ND	J	0.88	2.2
2,4,4-Trimethyl-1-pentene		ND		0.88	4.4
2,4,4-Trimethyl-2-pentene		ND		0.88	4.4
2-Chlorotoluene		ND		0.88	2.2
2-Hexanone		ND		4.5	22
4-Chlorotoluene		ND		0.88	2.2
Benzene		ND		0.88	2.2
Bromobenzene		ND		0.88	2.2
Chlorobromomethane		ND		0.88	2.2
Dichlorobromomethane		ND		0.88	2.2
Bromoform		ND		0.88	2.2
Bromomethane		ND		0.88	4.4
n-Butylbenzene		ND		0.88	2.2
Carbon disulfide		ND		0.88	2.2
Carbon tetrachloride		ND		0.88	2.2
Chlorobenzene		ND		0.88	2.2
Chloroethane		ND		0.88	4.4
Chloroform		ND		0.88	2.2
Chloromethane		ND		0.88	4.4
cis-1,2-Dichloroethene		ND		0.88	2.2
cis-1,3-Dichloropropene		ND		0.88	2.2
Cyclohexane		ND		2.3	22
Chlorodibromomethane		ND		0.88	2.2

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-401-7.5/9.5-XXX

Lab Sample ID: 360-24309-4
Client Matrix: Solid

% Moisture: 8.5

Date Sampled: 08/26/2009 1245
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/29/2009 0803
Date Prepared: 08/28/2009 1606

Analysis Batch: 360-48354
Prep Batch: 360-48353

Instrument ID: HP #1 GC/MS
Lab File ID: V44590.D
Initial Weight/Volume: 6.22 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.88	2.2
Dichlorodifluoromethane		ND J	*	0.88	4.4
Ethyl ether		ND		0.88	2.2
Isopropyl ether		ND		0.88	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.88	2.2
Hexachlorobutadiene		ND		0.88	2.2
Isopropylbenzene		ND		0.88	2.2
Methyl acetate		ND		14	44
2-Butanone (MEK)		ND		5.9	22
4-Methyl-2-pentanone (MIBK)		ND		4.5	22
Methyl tert-butyl ether		ND		0.88	2.2
Methylcyclohexane		ND		0.88	2.2
Methylene Chloride		ND		4.3	8.8
m-Xylene & p-Xylene		ND		0.88	4.4
Naphthalene		ND		0.88	22
N-Propylbenzene		ND		0.88	2.2
o-Xylene		ND		0.88	2.2
4-Isopropyltoluene		ND		0.88	2.2
sec-Butylbenzene		ND		0.88	2.2
Styrene		ND		0.88	2.2
Tert-amyl methyl ether		ND		0.88	2.2
tert-Butylbenzene		ND		0.88	2.2
Tetrachloroethene		ND		0.88	2.2
Tetrahydrofuran		ND		4.8	22
Toluene		ND		0.88	2.2
trans-1,2-Dichloroethene		ND		0.88	2.2
trans-1,3-Dichloropropene		ND		0.88	2.2
Trichloroethene		ND		0.88	2.2
Trichlorofluoromethane		ND		0.88	4.4
Vinyl chloride		ND		0.88	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-401-7.5/9.5-XXX**

Lab Sample ID: 360-24309-4
Client Matrix: Solid

% Moisture: 8.5

Date Sampled: 08/26/2009 1245
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44590.D
Dilution:	1.0			Initial Weight/Volume:	6.22 g
Date Analyzed:	08/29/2009 0803			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-402-0.0/1.0-XXX

Lab Sample ID: 360-24309-5
Client Matrix: Solid % Moisture: 4.4

Date Sampled: 08/26/2009 1145
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/05/2009 0633
Date Prepared: 09/03/2009 1545

Analysis Batch: 360-48642
Prep Batch: 360-48640

Instrument ID: HP #3 GC/MS
Lab File ID: V07496.D
Initial Weight/Volume: 5.20 g
Final Weight/Volume: 5 g

Analyte (DryWt Corrected: Y)	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	13
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
Acetone	ND J	*	18	250
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	~~ND~~ R	*	33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND J		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.2	25
4-Chlorotoluene	ND		1.0	2.5
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-402-0.0/1.0-XXX

Lab Sample ID: 360-24309-5
Client Matrix: Solid

% Moisture: 4.4

Date Sampled: 08/26/2009 1145
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07496.D
Dilution:	1.0			Initial Weight/Volume:	5.20 g
Date Analyzed:	09/05/2009 0633			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND J		6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND J		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND J	*	1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-402-0.0/1.0-XXX

Lab Sample ID: 360-24309-5
Client Matrix: Solid % Moisture: 4.4

Date Sampled: 08/26/2009 1145
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07496.D
Dilution:	1.0			Initial Weight/Volume:	5.20 g
Date Analyzed:	09/05/2009 0633			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.60	6.1	TJ

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-402-7.5/9.5-XXX

Lab Sample ID: 360-24309-6
Client Matrix: Solid

% Moisture: 10.2

Date Sampled: 08/26/2009 1200
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/29/2009 0827
Date Prepared: 08/28/2009 1606

Analysis Batch: 360-48354
Prep Batch: 360-48353

Instrument ID: HP #1 GC/MS
Lab File ID: V44591.D
Initial Weight/Volume: 4.87 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.9
1,1,1-Trichloroethane		ND		1.1	2.9
1,1,2,2-Tetrachloroethane		ND		1.1	2.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.9
1,1-Dichloroethane		ND		1.1	2.9
1,1-Dichloroethene		ND		1.1	2.9
1,1-Dichloropropene		ND		1.1	2.9
1,2,3-Trichlorobenzene		ND		1.1	2.9
1,2,3-Trichloropropane		ND		1.7	2.9
1,2,4-Trichlorobenzene		ND		1.1	2.9
1,2,4-Trimethylbenzene		ND		1.1	2.9
1,2-Dibromo-3-Chloropropane		ND		2.1	29
Ethylene Dibromide		ND		1.1	2.9
1,2-Dichlorobenzene		ND		1.1	2.9
1,2-Dichloroethane		ND		1.1	2.9
Acetone		ND J	*	21	290
1,2-Dichloropropane		ND		1.1	2.9
1,3,5-Trimethylbenzene		ND		1.1	2.9
1,3-Dichlorobenzene		ND		1.1	2.9
1,3-Dichloropropane		ND		1.1	2.9
1,4-Dichlorobenzene		ND		1.1	2.9
1,4-Dioxane		ND		38	290
2,2-Dichloropropane		ND		1.1	2.9
2,4,4-Trimethyl-1-pentene		ND		1.1	5.7
2,4,4-Trimethyl-2-pentene		ND		1.1	5.7
2-Chlorotoluene		ND		1.1	2.9
2-Hexanone		ND		5.9	29
4-Chlorotoluene		ND		1.1	2.9
Benzene		ND		1.1	2.9
Bromobenzene		ND		1.1	2.9
Chlorobromomethane		ND		1.1	2.9
Dichlorobromomethane		ND		1.1	2.9
Bromoform		ND		1.1	2.9
Bromomethane		ND		1.1	5.7
n-Butylbenzene		ND		1.1	2.9
Carbon disulfide		ND		1.1	2.9
Carbon tetrachloride		ND		1.1	2.9
Chlorobenzene		ND		1.1	2.9
Chloroethane		ND		1.1	5.7
Chloroform		ND		1.1	2.9
Chloromethane		ND		1.1	5.7
cis-1,2-Dichloroethene		ND		1.1	2.9
cis-1,3-Dichloropropene		ND		1.1	2.9
Cyclohexane		ND		3.0	29
Chlorodibromomethane		ND		1.1	2.9

TC 8/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-402-7.5/9.5-XXX

Lab Sample ID: 360-24309-6
Client Matrix: Solid

% Moisture: 10.2

Date Sampled: 08/26/2009 1200
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 08/29/2009 0827
Date Prepared: 08/28/2009 1606

Analysis Batch: 360-48354
Prep Batch: 360-48353

Instrument ID: HP #1 GC/MS
Lab File ID: V44591.D
Initial Weight/Volume: 4.87 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.9
Dichlorodifluoromethane		ND J	*	1.1	5.7
Ethyl ether		ND		1.1	2.9
Isopropyl ether		ND		1.1	2.9
Tert-butyl ethyl ether		ND		2.9	2.9
Ethylbenzene		ND		1.1	2.9
Hexachlorobutadiene		ND		1.1	2.9
Isopropylbenzene		ND		1.1	2.9
Methyl acetate		ND		19	57
2-Butanone (MEK)		ND		7.7	29
4-Methyl-2-pentanone (MIBK)		ND		5.9	29
Methyl tert-butyl ether		ND		1.1	2.9
Methylcyclohexane		ND		1.1	2.9
Methylene Chloride		ND		5.5	11
m-Xylene & p-Xylene		ND		1.1	5.7
Naphthalene		ND		1.1	29
N-Propylbenzene		ND		1.1	2.9
o-Xylene		ND		1.1	2.9
4-Isopropyltoluene		ND		1.1	2.9
sec-Butylbenzene		ND		1.1	2.9
Styrene		ND		1.1	2.9
Tert-amyl methyl ether		ND		1.1	2.9
tert-Butylbenzene		ND		1.1	2.9
Tetrachloroethene		ND		1.1	2.9
Tetrahydrofuran		ND		6.3	29
Toluene		ND		1.1	2.9
trans-1,2-Dichloroethene		ND		1.1	2.9
trans-1,3-Dichloropropene		ND		1.1	2.9
Trichloroethene		ND		1.1	2.9
Trichlorofluoromethane		ND		1.1	5.7
Vinyl chloride		ND		1.1	2.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-402-7.5/9.5-XXX**

Lab Sample ID: 360-24309-6
Client Matrix: Solid % Moisture: 10.2

Date Sampled: 08/26/2009 1200
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44591.D
Dilution:	1.0			Initial Weight/Volume:	4.87 g
Date Analyzed:	08/29/2009 0827			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
~~75-9-2~~	~~Methylene Chloride~~	~~3.64~~	~~36~~	~~T J N~~
	Unknown	10.69	3.1	T J
	Unknown	12.84	13	T J

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-407-0.0/1.0-XXX

Lab Sample ID: 360-24309-7
Client Matrix: Solid % Moisture: 9.4

Date Sampled: 08/26/2009 1010
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07497.D
Dilution:	1.0			Initial Weight/Volume:	4.61 g
Date Analyzed:	09/05/2009 0655			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.2	3.0
1,1,1-Trichloroethane		ND		1.2	3.0
1,1,2,2-Tetrachloroethane		ND		1.2	3.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	15
1,1,2-Trichloroethane		ND		1.2	3.0
1,1-Dichloroethane		ND		1.2	3.0
1,1-Dichloroethene		ND		1.2	3.0
1,1-Dichloropropene		ND		1.2	3.0
1,2,3-Trichlorobenzene		ND		1.2	3.0
1,2,3-Trichloropropane		ND		1.8	3.0
1,2,4-Trichlorobenzene		ND		1.2	3.0
1,2,4-Trimethylbenzene		ND		1.2	3.0
1,2-Dibromo-3-Chloropropane		ND		2.2	30
Ethylene Dibromide		ND		1.2	3.0
1,2-Dichlorobenzene		ND		1.2	3.0
1,2-Dichloroethane		ND		1.2	3.0
Acetone		ND J	*	21	300
1,2-Dichloropropane		ND		1.2	3.0
1,3,5-Trimethylbenzene		ND		1.2	3.0
1,3-Dichlorobenzene		ND		1.2	3.0
1,3-Dichloropropane		ND		1.2	3.0
1,4-Dichlorobenzene		ND		1.2	3.0
1,4-Dioxane		~~ND~~ R	*	39	300
2,2-Dichloropropane		ND		1.2	3.0
2,4,4-Trimethyl-1-pentene		ND J		1.2	6.0
2,4,4-Trimethyl-2-pentene		ND		1.2	6.0
2-Chlorotoluene		ND		1.2	3.0
2-Hexanone		ND		6.2	30
4-Chlorotoluene		ND		1.2	3.0
Benzene		ND		1.2	3.0
Bromobenzene		ND		1.2	3.0
Chlorobromomethane		ND		1.2	3.0
Dichlorobromomethane		ND		1.2	3.0
Bromoform		ND		1.2	3.0
Bromomethane		ND		1.2	6.0
n-Butylbenzene		ND		1.2	3.0
Carbon disulfide		ND		1.2	3.0
Carbon tetrachloride		ND		1.2	3.0
Chlorobenzene		ND		1.2	3.0
Chloroethane		ND		1.2	6.0
Chloroform		ND		1.2	3.0
Chloromethane		ND		1.2	6.0
cis-1,2-Dichloroethene		ND		1.2	3.0
cis-1,3-Dichloropropene		ND		1.2	3.0
Cyclohexane		ND		3.1	30
Chlorodibromomethane		ND		1.2	3.0

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-407-0.0/1.0-XXX

Lab Sample ID: 360-24309-7
Client Matrix: Solid

% Moisture: 9.4

Date Sampled: 08/26/2009 1010
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/05/2009 0655
Date Prepared: 09/03/2009 1545

Analysis Batch: 360-48642
Prep Batch: 360-48640

Instrument ID: HP #3 GC/MS
Lab File ID: V07497.D
Initial Weight/Volume: 4.61 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.2	3.0
Dichlorodifluoromethane		ND	*	1.2	6.0
Ethyl ether		ND		1.2	3.0
Isopropyl ether		ND		1.2	3.0
Tert-butyl ethyl ether		ND		3.0	3.0
Ethylbenzene		ND		1.2	3.0
Hexachlorobutadiene		ND		1.2	3.0
Isopropylbenzene		ND		1.2	3.0
Methyl acetate		ND		19	60
2-Butanone (MEK)		ND	J	8.1	30
4-Methyl-2-pentanone (MIBK)		ND		6.2	30
Methyl tert-butyl ether		ND		1.2	3.0
Methylcyclohexane		ND		1.2	3.0
Methylene Chloride		ND		5.8	12
m-Xylene & p-Xylene		ND		1.2	6.0
Naphthalene		ND		1.2	30
N-Propylbenzene		ND		1.2	3.0
o-Xylene		ND		1.2	3.0
4-Isopropyltoluene		ND		1.2	3.0
sec-Butylbenzene		ND		1.2	3.0
Styrene		ND		1.2	3.0
Tert-amyl methyl ether		ND		1.2	3.0
tert-Butylbenzene		ND		1.2	3.0
Tetrachloroethene		ND		1.2	3.0
Tetrahydrofuran		ND		6.6	30
Toluene		ND		1.2	3.0
trans-1,2-Dichloroethene		ND		1.2	3.0
trans-1,3-Dichloropropene		ND		1.2	3.0
Trichloroethene		ND		1.2	3.0
Trichlorofluoromethane		ND	*	1.2	6.0
Vinyl chloride		ND		1.2	3.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TC 5/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-407-0.0/1.0-XXX

Lab Sample ID: 360-24309-7
Client Matrix: Solid % Moisture: 9.4

Date Sampled: 08/26/2009 1010
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07497.D
Dilution:	1.0			Initial Weight/Volume:	4.61 g
Date Analyzed:	09/05/2009 0655			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.42	1.5	T J

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-407-8.0/10.0-XXX

Lab Sample ID: 360-24309-9
Client Matrix: Solid
% Moisture: 18.0

Date Sampled: 08/26/2009 1020
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44592.D
Dilution:	1.0			Initial Weight/Volume:	5.87 g
Date Analyzed:	08/29/2009 0851			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	*	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND		34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		1.1	J	1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

TC 8/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-407-8.0/10.0-XXX

Lab Sample ID: 360-24309-9
Client Matrix: Solid

% Moisture: 18.0

Date Sampled: 08/26/2009 1020
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44592.D
Dilution:	1.0			Initial Weight/Volume:	5.87 g
Date Analyzed:	08/29/2009 0851			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	52
2-Butanone (MEK)		ND		7.0	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND J		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND J		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-407-8.0/10.0-XXX**

Lab Sample ID: 360-24309-9
Client Matrix: Solid
% Moisture: 18.0

Date Sampled: 08/26/2009 1020
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44592.D
Dilution:	1.0			Initial Weight/Volume:	5.87 g
Date Analyzed:	08/29/2009 0851			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.06	6.2	T J

3/31/10 TC

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-408-0.0/1.0-XXX

Lab Sample ID: 360-24309-10
Client Matrix: Solid

% Moisture: 11.5

Date Sampled: 08/26/2009 1100
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07498.D
Dilution:	1.0			Initial Weight/Volume:	5.68 g
Date Analyzed:	09/05/2009 0718			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND J	*	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		~~ND~~ R	*	33	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND J		0.99	5.0
2,4,4-Trimethyl-2-pentene		ND		0.99	5.0
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	5.0
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	5.0
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	5.0
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		0.99	2.5

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-408-0.0/1.0-XXX

Lab Sample ID: 360-24309-10
Client Matrix: Solid
% Moisture: 11.5

Date Sampled: 08/26/2009 1100
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07498.D
Dilution:	1.0			Initial Weight/Volume:	5.68 g
Date Analyzed:	09/05/2009 0718			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND	*	0.99	5.0
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	5.0
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND	*	0.99	5.0
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-408-0.0/1.0-XXX

Lab Sample ID: 360-24309-10
Client Matrix: Solid

% Moisture: 11.5

Date Sampled: 08/26/2009 1100
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07498.D
Dilution:	1.0			Initial Weight/Volume:	5.68 g
Date Analyzed:	09/05/2009 0718			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	5.30	6.7	T J

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-408-7.0/~~9.0~~ 9.0-XXX

Lab Sample ID: 360-24309-11
Client Matrix: Solid % Moisture: 13.1

Date Sampled: 08/26/2009 1120
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44593.D
Dilution:	1.0			Initial Weight/Volume:	6.16 g
Date Analyzed:	08/29/2009 0915			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.93	2.3
1,1,1-Trichloroethane		ND		0.93	2.3
1,1,2,2-Tetrachloroethane		ND		0.93	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.93	12
1,1,2-Trichloroethane		ND		0.93	2.3
1,1-Dichloroethane		ND		0.93	2.3
1,1-Dichloroethene		ND		0.93	2.3
1,1-Dichloropropene		ND		0.93	2.3
1,2,3-Trichlorobenzene		ND		0.93	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.93	2.3
1,2,4-Trimethylbenzene		ND		0.93	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.93	2.3
1,2-Dichlorobenzene		ND		0.93	2.3
1,2-Dichloroethane		ND		0.93	2.3
Acetone		ND	J *	17	230
1,2-Dichloropropane		ND		0.93	2.3
1,3,5-Trimethylbenzene		ND		0.93	2.3
1,3-Dichlorobenzene		ND		0.93	2.3
1,3-Dichloropropane		ND		0.93	2.3
1,4-Dichlorobenzene		ND		0.93	2.3
1,4-Dioxane		ND	44	31	230
2,2-Dichloropropane		ND		0.93	2.3
2,4,4-Trimethyl-1-pentene		ND		0.93	4.7
2,4,4-Trimethyl-2-pentene		ND		0.93	4.7
2-Chlorotoluene		ND		0.93	2.3
2-Hexanone		ND		4.8	23
4-Chlorotoluene		ND		0.93	2.3
Benzene		ND		0.93	2.3
Bromobenzene		ND		0.93	2.3
Chlorobromomethane		ND		0.93	2.3
Dichlorobromomethane		ND		0.93	2.3
Bromoform		ND		0.93	2.3
Bromomethane		ND		0.93	4.7
n-Butylbenzene		ND		0.93	2.3
Carbon disulfide		ND		0.93	2.3
Carbon tetrachloride		ND		0.93	2.3
Chlorobenzene		ND		0.93	2.3
Chloroethane		ND		0.93	4.7
Chloroform		ND		0.93	2.3
Chloromethane		ND		0.93	4.7
cis-1,2-Dichloroethene		ND		0.93	2.3
cis-1,3-Dichloropropene		ND		0.93	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.93	2.3

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-408-7.0/~~9.9~~ 9.0 XXX

Lab Sample ID: 360-24309-11
Client Matrix: Solid

% Moisture: 13.1

Date Sampled: 08/26/2009 1120
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44593.D
Dilution:	1.0			Initial Weight/Volume:	6.16 g
Date Analyzed:	08/29/2009 0915			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.93	2.3
Dichlorodifluoromethane		ND J	*	0.93	4.7
Ethyl ether		ND		0.93	2.3
Isopropyl ether		ND		0.93	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.93	2.3
Hexachlorobutadiene		ND		0.93	2.3
Isopropylbenzene		ND		0.93	2.3
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.3	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.93	2.3
Methylcyclohexane		ND		0.93	2.3
Methylene Chloride		ND		4.5	9.3
m-Xylene & p-Xylene		ND		0.93	4.7
Naphthalene		ND		0.93	23
N-Propylbenzene		ND		0.93	2.3
o-Xylene		ND		0.93	2.3
4-Isopropyltoluene		ND		0.93	2.3
sec-Butylbenzene		ND		0.93	2.3
Styrene		ND		0.93	2.3
Tert-amyl methyl ether		ND		0.93	2.3
tert-Butylbenzene		ND		0.93	2.3
Tetrachloroethene		ND		0.93	2.3
Tetrahydrofuran		ND		5.1	23
Toluene		ND		0.93	2.3
trans-1,2-Dichloroethene		ND		0.93	2.3
trans-1,3-Dichloropropene		ND		0.93	2.3
Trichloroethene		ND		0.93	2.3
Trichlorofluoromethane		ND		0.93	4.7
Vinyl chloride		ND		0.93	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	91		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-408-7.0/~~9.0~~ 9.0 XXX

Lab Sample ID: 360-24309-11
Client Matrix: Solid

% Moisture: 13.1

Date Sampled: 08/26/2009 1120
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44593.D
Dilution:	1.0			Initial Weight/Volume:	6.16 g
Date Analyzed:	08/29/2009 0915			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-414-0.0/1.0-XXX**

Lab Sample ID: 360-24309-12
Client Matrix: Solid

% Moisture: 4.1

Date Sampled: 08/26/2009 0840
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48524		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48522		Lab File ID:	V44731.D
Dilution:	1.0			Initial Weight/Volume:	5.08 g
Date Analyzed:	09/03/2009 0912			Final Weight/Volume:	5 g
Date Prepared:	09/02/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.8	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	18	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.6	26
Chlorodibromomethane		ND		1.0	2.6

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-414-0.0/1.0-XXX

Lab Sample ID: 360-24309-12
Client Matrix: Solid % Moisture: 4.1

Date Sampled: 08/26/2009 0840
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48524		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48522		Lab File ID:	V44731.D
Dilution:	1.0			Initial Weight/Volume:	5.08 g
Date Analyzed:	09/03/2009 0912			Final Weight/Volume:	5 g
Date Prepared:	09/02/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.1
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	51
2-Butanone (MEK)		ND		6.9	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.6	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	89		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-414-0.0/1.0-XXX**

Lab Sample ID: 360-24309-12
Client Matrix: Solid

% Moisture: 4.1

Date Sampled: 08/26/2009 0840
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48524		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48522		Lab File ID:	V44731.D
Dilution:	1.0			Initial Weight/Volume:	5.08 g
Date Analyzed:	09/03/2009 0912			Final Weight/Volume:	5 g
Date Prepared:	09/02/2009 1532				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.04	2.3	T J

3/31/10 TC

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-414-6.0/8.0-XXX**

Lab Sample ID: 360-24309-14
Client Matrix: Solid % Moisture: 10.4

Date Sampled: 08/26/2009 0845
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44594.D
Dilution:	1.0			Initial Weight/Volume:	5.38 g
Date Analyzed:	08/29/2009 0939			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND		34	260
2,2-Dichloropropane		ND	J	1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

3/31/10 TC

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-414-6.0/8.0-XXX

Lab Sample ID: 360-24309-14
Client Matrix: Solid
% Moisture: 10.4

Date Sampled: 08/26/2009 0845
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44594.D
Dilution:	1.0			Initial Weight/Volume:	5.38 g
Date Analyzed:	08/29/2009 0939			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	52
2-Butanone (MEK)		ND		7.0	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	109		70 - 130
Toluene-d8 (Surr)	93		70 - 130

3/31/10 TC

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-414-6.0/8.0-XXX**

Lab Sample ID: 360-24309-14
Client Matrix: Solid
% Moisture: 10.4

Date Sampled: 08/26/2009 0845
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44594.D
Dilution:	1.0			Initial Weight/Volume:	5.38 g
Date Analyzed:	08/29/2009 0939			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.06	2.8	T J

3/31/10 TC

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-422-0.0/1.0-XXX

Lab Sample ID: 360-24309-15
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 08/25/2009 1635
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48469		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48468		Lab File ID:	V44659.D
Dilution:	1.0			Initial Weight/Volume:	11.10 g
Date Analyzed:	09/01/2009 2147			Final Weight/Volume:	10 g
Date Prepared:	09/01/2009 1527				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		47	120
1,1,1-Trichloroethane		ND		47	120
1,1,2,2-Tetrachloroethane		ND		47	120
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		47	590
1,1,2-Trichloroethane		ND		47	120
1,1-Dichloroethane		ND		47	120
1,1-Dichloroethene		ND		47	120
1,1-Dichloropropene		ND		47	120
1,2,3-Trichlorobenzene		ND		47	120
1,2,3-Trichloropropane		ND		70	120
1,2,4-Trichlorobenzene		ND		47	120
1,2,4-Trimethylbenzene		ND		47	120
1,2-Dibromo-3-Chloropropane		ND		85	1200
Ethylene Dibromide		ND		47	120
1,2-Dichlorobenzene		ND		47	120
1,2-Dichloroethane		ND		47	120
Acetone		ND	*	850	12000
1,2-Dichloropropane		ND		47	120
1,3,5-Trimethylbenzene		ND		47	120
1,3-Dichlorobenzene		ND		47	120
1,3-Dichloropropane		ND		47	120
1,4-Dichlorobenzene		ND		47	120
1,4-Dioxane		ND		1600	12000
2,2-Dichloropropane		ND		47	120
2,4,4-Trimethyl-1-pentene		ND	*	47	240
2,4,4-Trimethyl-2-pentene		ND		47	240
2-Chlorotoluene		ND		47	120
2-Hexanone		ND		240	1200
4-Chlorotoluene		ND		47	120
Benzene		ND		47	120
Bromobenzene		ND		47	120
Chlorobromomethane		ND		47	120
Dichlorobromomethane		ND		47	120
Bromoform		ND		47	120
Bromomethane		ND		47	240
n-Butylbenzene		ND		47	120
Carbon disulfide		ND		47	120
Carbon tetrachloride		ND		47	120
Chlorobenzene		ND		47	120
Chloroethane		ND	*	47	240
Chloroform		ND		47	120
Chloromethane		ND		47	240
cis-1,2-Dichloroethene		ND		47	120
cis-1,3-Dichloropropene		ND		47	120
Cyclohexane		ND		120	1200
Chlorodibromomethane		ND		47	120

Use low level analysis

3/31/10 TC

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-422-0.0/1.0-XXX

Lab Sample ID: 360-24309-15
Client Matrix: Solid

% Moisture: 4.6

Date Sampled: 08/25/2009 1635
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48469		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48468		Lab File ID:	V44659.D
Dilution:	1.0			Initial Weight/Volume:	11.10 g
Date Analyzed:	09/01/2009 2147			Final Weight/Volume:	10 g
Date Prepared:	09/01/2009 1527				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		47	120
Dichlorodifluoromethane		ND	*	47	240
Ethyl ether		ND		47	120
Isopropyl ether		ND		47	120
Tert-butyl ethyl ether		ND		120	120
Ethylbenzene		ND		47	120
Hexachlorobutadiene		ND		47	120
Isopropylbenzene		ND		47	120
Methyl acetate		ND		770	2400
2-Butanone (MEK)		ND		320	1200
4-Methyl-2-pentanone (MIBK)		ND		240	1200
Methyl tert-butyl ether		ND		47	120
Methylcyclohexane		ND		47	120
Methylene Chloride		300	J	230	470
m-Xylene & p-Xylene		ND		47	240
Naphthalene		ND		47	1200
N-Propylbenzene		ND		47	120
o-Xylene		ND		47	120
4-Isopropyltoluene		ND		47	120
sec-Butylbenzene		ND		47	120
Styrene		ND		47	120
Tert-amyl methyl ether		ND		47	120
tert-Butylbenzene		ND		47	120
Tetrachloroethene		ND		47	120
Tetrahydrofuran		ND		260	1200
Toluene		ND		47	120
trans-1,2-Dichloroethene		ND		47	120
trans-1,3-Dichloropropene		ND		47	120
Trichloroethene		ND		47	120
Trichlorofluoromethane		ND		47	240
Vinyl chloride		ND		47	120

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	92		70 - 130

use Low Level analysis

3/31/10 TC

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-422-0.0/1.0-XXX

Lab Sample ID: 360-24309-15
Client Matrix: Solid

% Moisture: 4.6

Date Sampled: 08/25/2009 1635
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48469		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48468		Lab File ID:	V44659.D
Dilution:	1.0			Initial Weight/Volume:	11.10 g
Date Analyzed:	09/01/2009 2147			Final Weight/Volume:	10 g
Date Prepared:	09/01/2009 1527				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.53	550	T J
	Unknown	3.84	170	T J

use low level analysis

3/31/10 TC

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-422-0.0/1.0-XXX

Lab Sample ID: 360-24309-15
Client Matrix: Solid

% Moisture: 4.6

Date Sampled: 08/25/2009 1635
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48524		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48522		Lab File ID:	V44732.D
Dilution:	1.0			Initial Weight/Volume:	5.93 g
Date Analyzed:	09/03/2009 0936			Final Weight/Volume:	5 g
Date Prepared:	09/02/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.88	2.2
1,1,1-Trichloroethane		ND		0.88	2.2
1,1,2,2-Tetrachloroethane		ND		0.88	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.88	11
1,1,2-Trichloroethane		ND		0.88	2.2
1,1-Dichloroethane		ND		0.88	2.2
1,1-Dichloroethene		ND		0.88	2.2
1,1-Dichloropropene		ND		0.88	2.2
1,2,3-Trichlorobenzene		ND		0.88	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.88	2.2
1,2,4-Trimethylbenzene		ND		0.88	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.88	2.2
1,2-Dichlorobenzene		ND		0.88	2.2
1,2-Dichloroethane		ND		0.88	2.2
Acetone		ND J	*	16	220
1,2-Dichloropropane		ND		0.88	2.2
1,3,5-Trimethylbenzene		ND		0.88	2.2
1,3-Dichlorobenzene		ND		0.88	2.2
1,3-Dichloropropane		ND		0.88	2.2
1,4-Dichlorobenzene		ND		0.88	2.2
1,4-Dioxane		ND J		29	220
2,2-Dichloropropane		ND		0.88	2.2
2,4,4-Trimethyl-1-pentene		ND		0.88	4.4
2,4,4-Trimethyl-2-pentene		ND		0.88	4.4
2-Chlorotoluene		ND		0.88	2.2
2-Hexanone		ND J		4.5	22
4-Chlorotoluene		ND		0.88	2.2
Benzene		ND		0.88	2.2
Bromobenzene		ND		0.88	2.2
Chlorobromomethane		ND		0.88	2.2
Dichlorobromomethane		ND		0.88	2.2
Bromoform		ND		0.88	2.2
Bromomethane		ND		0.88	4.4
n-Butylbenzene		ND		0.88	2.2
Carbon disulfide		ND		0.88	2.2
Carbon tetrachloride		ND		0.88	2.2
Chlorobenzene		ND		0.88	2.2
Chloroethane		ND J		0.88	4.4
Chloroform		ND		0.88	2.2
Chloromethane		ND		0.88	4.4
cis-1,2-Dichloroethene		ND		0.88	2.2
cis-1,3-Dichloropropene		ND		0.88	2.2
Cyclohexane		ND		2.3	22
Chlorodibromomethane		ND J		0.88	2.2

3/31/10 TC

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-422-0.0/1.0-XXX

Lab Sample ID: 360-24309-15
Client Matrix: Solid

% Moisture: 4.6

Date Sampled: 08/25/2009 1635
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48524		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48522		Lab File ID:	V44732.D
Dilution:	1.0			Initial Weight/Volume:	5.93 g
Date Analyzed:	09/03/2009 0936			Final Weight/Volume:	5 g
Date Prepared:	09/02/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.88	2.2
Dichlorodifluoromethane		ND J	*	0.88	4.4
Ethyl ether		ND		0.88	2.2
Isopropyl ether		ND		0.88	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.88	2.2
Hexachlorobutadiene		ND		0.88	2.2
Isopropylbenzene		ND		0.88	2.2
Methyl acetate		ND J		14	44
2-Butanone (MEK)		ND		6.0	22
4-Methyl-2-pentanone (MIBK)		ND		4.6	22
Methyl tert-butyl ether		ND		0.88	2.2
Methylcyclohexane		ND		0.88	2.2
Methylene Chloride		ND		4.3	8.8
m-Xylene & p-Xylene		ND		0.88	4.4
Naphthalene		ND		0.88	22
N-Propylbenzene		ND		0.88	2.2
o-Xylene		ND		0.88	2.2
4-Isopropyltoluene		ND		0.88	2.2
sec-Butylbenzene		ND		0.88	2.2
Styrene		ND		0.88	2.2
Tert-amyl methyl ether		ND		0.88	2.2
tert-Butylbenzene		ND		0.88	2.2
Tetrachloroethene		ND		0.88	2.2
Tetrahydrofuran		ND		4.9	22
Toluene		ND		0.88	2.2
trans-1,2-Dichloroethene		ND		0.88	2.2
trans-1,3-Dichloropropene		ND		0.88	2.2
Trichloroethene		ND		0.88	2.2
Trichlorofluoromethane		ND		0.88	4.4
Vinyl chloride		ND		0.88	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	92		70 - 130

3/31/10 TC

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-422-0.0/1.0-XXX**

Lab Sample ID: 360-24309-15
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 08/25/2009 1635
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48524		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48522		Lab File ID:	V44732.D
Dilution:	1.0			Initial Weight/Volume:	5.93 g
Date Analyzed:	09/03/2009 0936			Final Weight/Volume:	5 g
Date Prepared:	09/02/2009 1532				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.38	1.5	T J

3/31/10 TC

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-422-6.0/8.0-XXX

Lab Sample ID: 360-24309-17
Client Matrix: Solid

% Moisture: 13.3

Date Sampled: 08/25/2009 1645
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44595.D
Dilution:	1.0			Initial Weight/Volume:	5.59 g
Date Analyzed:	08/29/2009 1003			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	*	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND		34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-422-6.0/8.0-XXX

Lab Sample ID: 360-24309-17
Client Matrix: Solid

% Moisture: 13.3

Date Sampled: 08/25/2009 1645
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44595.D
Dilution:	1.0			Initial Weight/Volume:	5.59 g
Date Analyzed:	08/29/2009 1003			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	52
2-Butanone (MEK)		ND		7.0	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-422-6.0/8.0-XXX**

Lab Sample ID: 360-24309-17
Client Matrix: Solid
% Moisture: 13.3

Date Sampled: 08/25/2009 1645
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44595.D
Dilution:	1.0			Initial Weight/Volume:	5.59 g
Date Analyzed:	08/29/2009 1003			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-429-6.0/8.0-XXX

Lab Sample ID: 360-24309-19
Client Matrix: Solid % Moisture: 12.4

Date Sampled: 08/25/2009 1300
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44596.D
Dilution:	1.0			Initial Weight/Volume:	5.72 g
Date Analyzed:	08/29/2009 1027			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND LJ	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND LJ		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-429-6.0/8.0-XXX

Lab Sample ID: 360-24309-19
Client Matrix: Solid

% Moisture: 12.4

Date Sampled: 08/25/2009 1300
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44596.D
Dilution:	1.0			Initial Weight/Volume:	5.72 g
Date Analyzed:	08/29/2009 1027			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	91		70 - 130

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-429-6.0/8.0-XXX**

Lab Sample ID: 360-24309-19
Client Matrix: Solid
% Moisture: 12.4

Date Sampled: 08/25/2009 1300
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44596.D
Dilution:	1.0			Initial Weight/Volume:	5.72 g
Date Analyzed:	08/29/2009 1027			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-430-0.0/1.0-XXX**

Lab Sample ID: 360-24309-20
Client Matrix: Solid

% Moisture: 3.3

Date Sampled: 08/25/2009 1450
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44803.D
Dilution:	1.0			Initial Weight/Volume:	4.76 g
Date Analyzed:	09/08/2009 2202			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		2.0	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-430-0.0/1.0-XXX**

Lab Sample ID: 360-24309-20
Client Matrix: Solid % Moisture: 3.3

Date Sampled: 08/25/2009 1450
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44803.D
Dilution:	1.0			Initial Weight/Volume:	4.76 g
Date Analyzed:	09/08/2009 2202			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		18	54
2-Butanone (MEK)		ND		7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.3	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	101		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-430-0.0/1.0-XXX

Lab Sample ID: 360-24309-20
Client Matrix: Solid

% Moisture: 3.3

Date Sampled: 08/25/2009 1450
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44803.D
Dilution:	1.0			Initial Weight/Volume:	4.76 g
Date Analyzed:	09/08/2009 2202			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.37	3.1	T J

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-430-8.0/10-DUP**

Lab Sample ID: 360-24309-22
Client Matrix: Solid

% Moisture: 7.8

Date Sampled: 08/25/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44597.D
Dilution:	1.0			Initial Weight/Volume:	6.25 g
Date Analyzed:	08/29/2009 1050			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.87	2.2
1,1,1-Trichloroethane		ND		0.87	2.2
1,1,2,2-Tetrachloroethane		ND		0.87	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	U	0.87	11
1,1,2-Trichloroethane		ND		0.87	2.2
1,1-Dichloroethane		ND		0.87	2.2
1,1-Dichloroethene		ND		0.87	2.2
1,1-Dichloropropene		ND		0.87	2.2
1,2,3-Trichlorobenzene		ND	U	0.87	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND	U	0.87	2.2
1,2,4-Trimethylbenzene		ND		0.87	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.87	2.2
1,2-Dichlorobenzene		ND		0.87	2.2
1,2-Dichloroethane		ND		0.87	2.2
Acetone		ND	U *	16	220
1,2-Dichloropropane		ND		0.87	2.2
1,3,5-Trimethylbenzene		ND		0.87	2.2
1,3-Dichlorobenzene		ND		0.87	2.2
1,3-Dichloropropane		ND		0.87	2.2
1,4-Dichlorobenzene		ND		0.87	2.2
1,4-Dioxane		ND	U	29	220
2,2-Dichloropropane		ND	U	0.87	2.2
2,4,4-Trimethyl-1-pentene		ND		0.87	4.3
2,4,4-Trimethyl-2-pentene		ND	U	0.87	4.3
2-Chlorotoluene		ND		0.87	2.2
2-Hexanone		ND		4.5	22
4-Chlorotoluene		ND		0.87	2.2
Benzene		ND		0.87	2.2
Bromobenzene		ND		0.87	2.2
Chlorobromomethane		ND		0.87	2.2
Dichlorobromomethane		ND		0.87	2.2
Bromoform		ND		0.87	2.2
Bromomethane		ND		0.87	4.3
n-Butylbenzene		ND		0.87	2.2
Carbon disulfide		ND		0.87	2.2
Carbon tetrachloride		ND		0.87	2.2
Chlorobenzene		ND		0.87	2.2
Chloroethane		ND		0.87	4.3
Chloroform		ND		0.87	2.2
Chloromethane		ND		0.87	4.3
cis-1,2-Dichloroethene		ND		0.87	2.2
cis-1,3-Dichloropropene		ND		0.87	2.2
Cyclohexane		ND		2.2	22
Chlorodibromomethane		ND		0.87	2.2

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-430-8.0/10-DUP**

Lab Sample ID: 360-24309-22
Client Matrix: Solid

% Moisture: 7.8

Date Sampled: 08/25/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44597.D
Dilution:	1.0			Initial Weight/Volume:	6.25 g
Date Analyzed:	08/29/2009 1050			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.87	2.2
Dichlorodifluoromethane		ND J	*	0.87	4.3
Ethyl ether		ND		0.87	2.2
Isopropyl ether		ND		0.87	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.87	2.2
Hexachlorobutadiene		ND J		0.87	2.2
Isopropylbenzene		ND		0.87	2.2
Methyl acetate		ND		14	43
2-Butanone (MEK)		ND		5.9	22
4-Methyl-2-pentanone (MIBK)		ND		4.5	22
Methyl tert-butyl ether		ND		0.87	2.2
Methylcyclohexane		ND		0.87	2.2
Methylene Chloride		ND		4.2	8.7
m-Xylene & p-Xylene		ND		0.87	4.3
Naphthalene		ND		0.87	22
N-Propylbenzene		ND		0.87	2.2
o-Xylene		ND		0.87	2.2
4-Isopropyltoluene		ND		0.87	2.2
sec-Butylbenzene		ND		0.87	2.2
Styrene		ND		0.87	2.2
Tert-amyl methyl ether		ND		0.87	2.2
tert-Butylbenzene		ND		0.87	2.2
Tetrachloroethene		ND		0.87	2.2
Tetrahydrofuran		ND		4.8	22
Toluene		ND		0.87	2.2
trans-1,2-Dichloroethene		ND		0.87	2.2
trans-1,3-Dichloropropene		ND		0.87	2.2
Trichloroethene		ND		0.87	2.2
Trichlorofluoromethane		ND		0.87	4.3
Vinyl chloride		ND		0.87	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-430-8.0/10-DUP**

Lab Sample ID: 360-24309-22
Client Matrix: Solid
% Moisture: 7.8

Date Sampled: 08/25/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48354		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48353		Lab File ID:	V44597.D
Dilution:	1.0			Initial Weight/Volume:	6.25 g
Date Analyzed:	08/29/2009 1050			Final Weight/Volume:	5 g
Date Prepared:	08/28/2009 1606				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.69	1.1	T J

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-430-8.0/10-XXX

Lab Sample ID: 360-24309-23
Client Matrix: Solid % Moisture: 5.8

Date Sampled: 08/25/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/01/2009 0621
Date Prepared: 08/31/2009 1650

Analysis Batch: 360-48407
Prep Batch: 360-48405

Instrument ID: HP #1 GC/MS
Lab File ID: V44634.D
Initial Weight/Volume: 6.22 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.85	2.1
1,1,1-Trichloroethane		ND		0.85	2.1
1,1,2,2-Tetrachloroethane		ND		0.85	2.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	J	0.85	11
1,1,2-Trichloroethane		ND		0.85	2.1
1,1-Dichloroethane		ND		0.85	2.1
1,1-Dichloroethene		ND		0.85	2.1
1,1-Dichloropropene		ND		0.85	2.1
1,2,3-Trichlorobenzene		ND	J	0.85	2.1
1,2,3-Trichloropropane		ND		1.3	2.1
1,2,4-Trichlorobenzene		ND	J	0.85	2.1
1,2,4-Trimethylbenzene		ND		0.85	2.1
1,2-Dibromo-3-Chloropropane		ND		1.5	21
Ethylene Dibromide		ND		0.85	2.1
1,2-Dichlorobenzene		ND		0.85	2.1
1,2-Dichloroethane		ND		0.85	2.1
Acetone		ND	J *	15	210
1,2-Dichloropropane		ND		0.85	2.1
1,3,5-Trimethylbenzene		ND		0.85	2.1
1,3-Dichlorobenzene		ND		0.85	2.1
1,3-Dichloropropane		ND		0.85	2.1
1,4-Dichlorobenzene		ND		0.85	2.1
1,4-Dioxane		ND	J	28	210
2,2-Dichloropropane		ND		0.85	2.1
2,4,4-Trimethyl-1-pentene		ND		0.85	4.3
2,4,4-Trimethyl-2-pentene		ND	J	0.85	4.3
2-Chlorotoluene		ND		0.85	2.1
2-Hexanone		ND		4.4	21
4-Chlorotoluene		ND		0.85	2.1
Benzene		ND		0.85	2.1
Bromobenzene		ND		0.85	2.1
Chlorobromomethane		ND		0.85	2.1
Dichlorobromomethane		ND		0.85	2.1
Bromoform		ND		0.85	2.1
Bromomethane		ND		0.85	4.3
n-Butylbenzene		ND		0.85	2.1
Carbon disulfide		ND		0.85	2.1
Carbon tetrachloride		ND		0.85	2.1
Chlorobenzene		ND		0.85	2.1
Chloroethane		ND		0.85	4.3
Chloroform		ND		0.85	2.1
Chloromethane		ND		0.85	4.3
cis-1,2-Dichloroethene		ND		0.85	2.1
cis-1,3-Dichloropropene		ND		0.85	2.1
Cyclohexane		ND		2.2	21
Chlorodibromomethane		ND		0.85	2.1

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: OC-SB-430-8.0/10-XXX

Lab Sample ID: 360-24309-23
Client Matrix: Solid % Moisture: 5.8

Date Sampled: 08/25/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44634.D
Dilution:	1.0			Initial Weight/Volume:	6.22 g
Date Analyzed:	09/01/2009 0621			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.85	2.1
Dichlorodifluoromethane		ND J	*	0.85	4.3
Ethyl ether		ND		0.85	2.1
Isopropyl ether		ND		0.85	2.1
Tert-butyl ethyl ether		ND		2.1	2.1
Ethylbenzene		ND		0.85	2.1
Hexachlorobutadiene		ND J		0.85	2.1
Isopropylbenzene		ND		0.85	2.1
Methyl acetate		ND		14	43
2-Butanone (MEK)		ND		5.8	21
4-Methyl-2-pentanone (MIBK)		ND		4.4	21
Methyl tert-butyl ether		ND		0.85	2.1
Methylcyclohexane		ND		0.85	2.1
Methylene Chloride		ND		4.1	8.5
m-Xylene & p-Xylene		ND		0.85	4.3
Naphthalene		ND		0.85	21
N-Propylbenzene		ND		0.85	2.1
o-Xylene		ND		0.85	2.1
4-Isopropyltoluene		ND		0.85	2.1
sec-Butylbenzene		ND		0.85	2.1
Styrene		ND		0.85	2.1
Tert-amyl methyl ether		ND		0.85	2.1
tert-Butylbenzene		ND		0.85	2.1
Tetrachloroethene		ND		0.85	2.1
Tetrahydrofuran		ND		4.7	21
Toluene		ND		0.85	2.1
trans-1,2-Dichloroethene		ND		0.85	2.1
trans-1,3-Dichloropropene		ND		0.85	2.1
Trichloroethene		ND		0.85	2.1
Trichlorofluoromethane		ND		0.85	4.3
Vinyl chloride		ND		0.85	2.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-SB-430-8.0/10-XXX**

Lab Sample ID: 360-24309-23
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 08/25/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44634.D
Dilution:	1.0			Initial Weight/Volume:	6.22 g
Date Analyzed:	09/01/2009 0621			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-TBK-008**

Lab Sample ID: 360-24309-24
Client Matrix: Solid

Date Sampled: 08/26/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48469		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48468		Lab File ID:	V44651.D
Dilution:	1.0			Initial Weight/Volume:	10.00 g
Date Analyzed:	09/01/2009 1834			Final Weight/Volume:	10 g
Date Prepared:	09/01/2009 1527				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		50	120
1,1,1-Trichloroethane		ND		50	120
1,1,2,2-Tetrachloroethane		ND		50	120
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		50	620
1,1,2-Trichloroethane		ND		50	120
1,1-Dichloroethane		ND		50	120
1,1-Dichloroethene		ND		50	120
1,1-Dichloropropene		ND		50	120
1,2,3-Trichlorobenzene		ND		50	120
1,2,3-Trichloropropane		ND		74	120
1,2,4-Trichlorobenzene		ND		50	120
1,2,4-Trimethylbenzene		ND		50	120
1,2-Dibromo-3-Chloropropane		ND		90	1200
Ethylene Dibromide		ND		50	120
1,2-Dichlorobenzene		ND		50	120
1,2-Dichloroethane		ND		50	120
Acetone		ND	*	900	12000
1,2-Dichloropropane		ND		50	120
1,3,5-Trimethylbenzene		ND		50	120
1,3-Dichlorobenzene		ND		50	120
1,3-Dichloropropane		ND		50	120
1,4-Dichlorobenzene		ND		50	120
1,4-Dioxane		ND		1600	12000
2,2-Dichloropropane		ND		50	120
2,4,4-Trimethyl-1-pentene		ND	*	50	250
2,4,4-Trimethyl-2-pentene		ND		50	250
2-Chlorotoluene		ND		50	120
2-Hexanone		ND		260	1200
4-Chlorotoluene		ND		50	120
Benzene		ND		50	120
Bromobenzene		ND		50	120
Chlorobromomethane		ND		50	120
Dichlorobromomethane		ND		50	120
Bromoform		ND		50	120
Bromomethane		ND		50	250
n-Butylbenzene		ND		50	120
Carbon disulfide		ND		50	120
Carbon tetrachloride		ND		50	120
Chlorobenzene		ND		50	120
Chloroethane		ND	*	50	250
Chloroform		ND		50	120
Chloromethane		ND		50	250
cis-1,2-Dichloroethene		ND		50	120
cis-1,3-Dichloropropene		ND		50	120
Cyclohexane		ND		130	1200
Chlorodibromomethane		ND		50	120

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-TBK-008**

Lab Sample ID: 360-24309-24
Client Matrix: Solid

Date Sampled: 08/26/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48469		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48468		Lab File ID:	V44651.D
Dilution:	1.0			Initial Weight/Volume:	10.00 g
Date Analyzed:	09/01/2009 1834			Final Weight/Volume:	10 g
Date Prepared:	09/01/2009 1527				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		50	120
Dichlorodifluoromethane		ND	*	50	250
Ethyl ether		ND		50	120
Isopropyl ether		ND		50	120
Tert-butyl ethyl ether		ND		120	120
Ethylbenzene		ND		50	120
Hexachlorobutadiene		ND		50	120
Isopropylbenzene		ND		50	120
Methyl acetate		ND		810	2500
2-Butanone (MEK)		ND		340	1200
4-Methyl-2-pentanone (MIBK)		ND		260	1200
Methyl tert-butyl ether		ND		50	120
Methylcyclohexane		ND		50	120
Methylene Chloride		310	J	240	500
m-Xylene & p-Xylene		ND		50	250
Naphthalene		ND		50	1200
N-Propylbenzene		ND		50	120
o-Xylene		ND		50	120
4-Isopropyltoluene		ND		50	120
sec-Butylbenzene		ND		50	120
Styrene		ND		50	120
Tert-amyl methyl ether		ND		50	120
tert-Butylbenzene		ND		50	120
Tetrachloroethene		ND		50	120
Tetrahydrofuran		ND		280	1200
Toluene		ND		50	120
trans-1,2-Dichloroethene		ND		50	120
trans-1,3-Dichloropropene		ND		50	120
Trichloroethene		ND		50	120
Trichlorofluoromethane		ND		50	250
Vinyl chloride		ND		50	120

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 8/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-TBK-008**

Lab Sample ID: 360-24309-24
Client Matrix: Solid

Date Sampled: 08/26/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48469		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48468		Lab File ID:	V44651.D
Dilution:	1.0			Initial Weight/Volume:	10.00 g
Date Analyzed:	09/01/2009 1834			Final Weight/Volume:	10 g
Date Prepared:	09/01/2009 1527				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
109-66-0	Pentane	2.53	2200	T J N
	Unknown	3.84	190	T J

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-TBK-008**

Lab Sample ID: 360-24309-24
Client Matrix: Solid

Date Sampled: 08/26/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48524		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48522		Lab File ID:	V44723.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/03/2009 0559			Final Weight/Volume:	5 g
Date Prepared:	09/02/2009 1532				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	*	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-TBK-008**

Lab Sample ID: 360-24309-24
Client Matrix: Solid

Date Sampled: 08/26/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48524		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48522		Lab File ID:	V44723.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/03/2009 0559			Final Weight/Volume:	5 g
Date Prepared:	09/02/2009 1532				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		5.6	J	5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	106		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 3/31/10

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Client Sample ID: **OC-TBK-008**

Lab Sample ID: 360-24309-24
Client Matrix: Solid

Date Sampled: 08/26/2009 1500
Date Received: 08/26/2009 1735

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48524		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48522		Lab File ID:	V44723.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/03/2009 0559			Final Weight/Volume:	5 g
Date Prepared:	09/02/2009 1532				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 3/31/10

SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 360-24309-1
Sdg Number: OCRI-06

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-24309-1	OC-SB-400-0.0/1.0-XXX	Solid	08/26/2009 1325	08/26/2009 1735
360-24309-2	OC-SB-400-5.0/7.0-XXX	Solid	08/26/2009 1330	08/26/2009 1735
360-24309-3	OC-SB-401-0.0/1.0-XXX	Solid	08/26/2009 1230	08/26/2009 1735
360-24309-4	OC-SB-401-7.5/9.5-XXX	Solid	08/26/2009 1245	08/26/2009 1735
360-24309-5	OC-SB-402-0.0/1.0-XXX	Solid	08/26/2009 1145	08/26/2009 1735
360-24309-6	OC-SB-402-7.5/9.5-XXX	Solid	08/26/2009 1200	08/26/2009 1735
360-24309-7	OC-SB-407-0.0/1.0-XXX	Solid	08/26/2009 1010	08/26/2009 1735
360-24309-8	OC-SB-407-26/28-XXX	Solid	08/26/2009 1125	08/26/2009 1735
360-24309-9	OC-SB-407-8.0/10.0-XXX	Solid	08/26/2009 1020	08/26/2009 1735
360-24309-10	OC-SB-408-0.0/1.0-XXX	Solid	08/26/2009 1100	08/26/2009 1735
360-24309-11	OC-SB-408-7.0/9.9-XXX	Solid	08/26/2009 1120	08/26/2009 1735
360-24309-12	OC-SB-414-0.0/1.0-XXX	Solid	08/26/2009 0840	08/26/2009 1735
360-24309-13	OC-SB-414-20/22-XXX	Solid	08/26/2009 0910	08/26/2009 1735
360-24309-14	OC-SB-414-6.0/8.0-XXX	Solid	08/26/2009 0845	08/26/2009 1735
360-24309-15	OC-SB-422-0.0/1.0-XXX	Solid	08/25/2009 1635	08/26/2009 1735
360-24309-16	OC-SB-422-13/15-XXX	Solid	08/25/2009 1710	08/26/2009 1735
360-24309-17	OC-SB-422-6.0/8.0-XXX	Solid	08/25/2009 1645	08/26/2009 1735
360-24309-18	OC-SB-429-16/18-XXX	Solid	08/25/2009 1325	08/26/2009 1735
360-24309-19	OC-SB-429-6.0/8.0-XXX	Solid	08/25/2009 1300	08/26/2009 1735
360-24309-20	OC-SB-430-0.0/1.0-XXX	Solid	08/25/2009 1450	08/26/2009 1735
360-24309-21	OC-SB-430-19/21-XXX	Solid	08/25/2009 1535	08/26/2009 1735
360-24309-22	OC-SB-430-8.0/10-DUP	Solid	08/25/2009 1500	08/26/2009 1735
360-24309-23	OC-SB-430-8.0/10-XXX	Solid	08/25/2009 1500	08/26/2009 1735
360-24309-23MS	OC-SB-430-8.0/10-XMS	Solid	08/25/2009 1500	08/26/2009 1735
360-24309-23MSD	OC-SB-430-8.0/10-MSD	Solid	08/25/2009 1500	08/26/2009 1735
360-24309-24	OC-TBK-008	Solid	08/26/2009 1500	08/26/2009 1735

Correct ID is
OC-SB-408-7.0/9.0-XXX

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44625.D BFB Injection Date: 09/01/2009

Instrument ID: HP #1 GC/MS 8/24/10 BFB Injection Time: 02:45

Analysis Batch No.: 48407

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.3	
75	30.0 - 60.0 % of mass 95	44.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	77.3	
175	5.0 - 9.0 % of mass 174	5.8	(7.6)1
176	95.0 - 101.0 % of mass 174	75.7	(97.9)1
177	5.0 - 9.0 % of mass 176	5.0	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48407/2	V44626.D	09/01/2009	03:09
	LCS 360-48405/1-A	V44627.D	09/01/2009	03:33
	LCSD 360-48405/2-A	V44628.D	09/01/2009	03:57
OC-SB-430-8.0/10-XXX MS	360-24309-23 MS	V44629.D	09/01/2009	04:20
OC-SB-430-8.0/10-XXX MSD	360-24309-23 MSD	V44630.D	09/01/2009	04:45
	MB 360-48405/3-A	V44632.D	09/01/2009	05:33
OC-SB-430-8.0/10-XXX	360-24309-23	V44634.D	09/01/2009	06:21

Clean

Acetone -29.9
dichlorodifluoromethane -55

Acetone 62%
Dichlorodifluoromethane 47%/49%

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44418.D BFB Injection Date: 08/24/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 17:23

Analysis Batch No.: 48090

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	42.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	76.7	
175	5.0 - 9.0 % of mass 174	6.0	(7.8)1
176	95.0 - 101.0 % of mass 174	75.2	(98.1)1
177	5.0 - 9.0 % of mass 176	5.0	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48090/2	V44419.D	08/24/2009	17:47
	STD0005 360-48090/3	V44421.D	08/24/2009	18:35
	STD001 360-48090/4	V44422.D	08/24/2009	18:59
	STD005 360-48090/5	V44423.D	08/24/2009	19:24
	STD010 360-48090/6	V44424.D	08/24/2009	19:48
	STD040 360-48090/7	V44425.D	08/24/2009	20:13
	STD080 360-48090/8	V44426.D	08/24/2009	20:37
	ICV 360-48090/10	V44456.D	08/25/2009	15:29

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44574.D BFB Injection Date: 08/29/2009

Instrument ID: HP #1 GC/MS 8/24/10 BFB Injection Time: 01:39

Analysis Batch No.: 48354

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	42.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	81.4	
175	5.0 - 9.0 % of mass 174	6.3	(7.8)1
176	95.0 - 101.0 % of mass 174	78.4	(96.2)1
177	5.0 - 9.0 % of mass 176	5.2	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48354/2	V44575.D	08/29/2009	02:03
	LCS 360-48353/1-A	V44576.D	08/29/2009	02:27
	LCSD 360-48353/2-A	V44577.D	08/29/2009	02:51
	MB 360-48353/3-A	V44581.D	08/29/2009	04:27
OC-SB-400-5.0/7.0-XXX	360-24309-2	V44589.D	08/29/2009	07:39
OC-SB-401-7.5/9.5-XXX	360-24309-4	V44590.D	08/29/2009	08:03
OC-SB-402-7.5/9.5-XXX	360-24309-6	V44591.D	08/29/2009	08:27
OC-SB-407-8.0/10.0-XXX	360-24309-9	V44592.D	08/29/2009	08:51
OC-SB-408-7.0/9.9-XXX	360-24309-11	V44593.D	08/29/2009	09:15
OC-SB-414-6.0/8.0-XXX	360-24309-14	V44594.D	08/29/2009	09:39
OC-SB-422-6.0/8.0-XXX	360-24309-17	V44595.D	08/29/2009	10:03
OC-SB-429-6.0/8.0-XXX	360-24309-19	V44596.D	08/29/2009	10:27
OC-SB-430-8.0/10-DUP	360-24309-22	V44597.D	08/29/2009	10:50

Acetone 68% 61%
Dichlorodifluoromethane 57% 50%

Clean

2,2 dichloropropane (-25.9) UJ all associated

3/31/10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44717.D BFB Injection Date: 09/03/2009

Instrument ID: HP #1 GC/MS 8/24/10 BFB Injection Time: 03:35

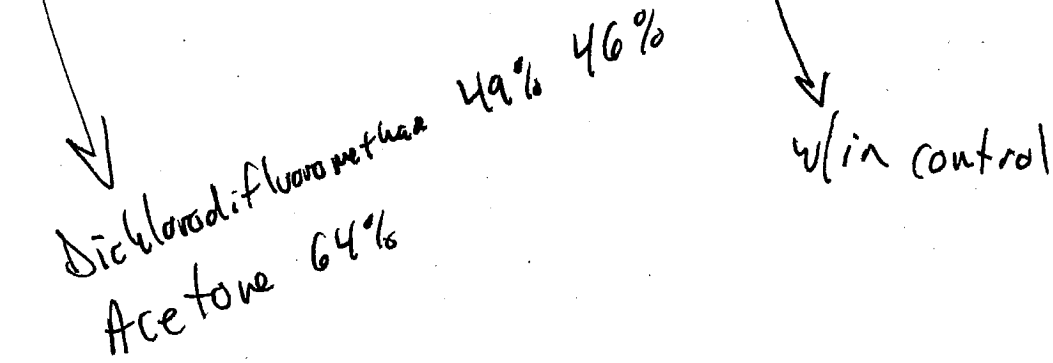
Analysis Batch No.: 48524

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.1	
75	30.0 - 60.0 % of mass 95	44.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	77.3	
175	5.0 - 9.0 % of mass 174	5.7	(7.4)1
176	95.0 - 101.0 % of mass 174	75.2	(97.3)1
177	5.0 - 9.0 % of mass 176	4.8	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48524/2	V44718.D	09/03/2009	03:59
	LCS 360-48522/1-A	V44719.D	09/03/2009	04:24
	LCSD 360-48522/2-A	V44720.D	09/03/2009	04:48
	MB 360-48522/3-A	V44722.D	09/03/2009	05:36
OC-TBK-008	360-24309-24	V44723.D	09/03/2009	05:59
OC-SB-414-0.0/1.0-XXX	360-24309-12	V44731.D	09/03/2009	09:12
OC-SB-422-0.0/1.0-XXX	360-24309-15	V44732.D	09/03/2009	09:36



FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V07455.D BFB Injection Date: 09/04/2009

Instrument ID: HP #3 GC/MS BFB Injection Time: 14:59

Analysis Batch No.: 48619

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	57.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.6	
175	5.0 - 9.0 % of mass 174	6.3	(7.0)1
176	95.0 - 101.0 % of mass 174	88.6	(97.9)1
177	5.0 - 9.0 % of mass 176	5.6	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48619/2	V07456.D	09/04/2009	15:22
	STD0005 360-48619/3	V07458.D	09/04/2009	16:08
	STD001 360-48619/4	V07459.D	09/04/2009	16:31
	STD005 360-48619/5	V07460.D	09/04/2009	16:53
	STD010 360-48619/6	V07461.D	09/04/2009	17:16
	STD040 360-48619/7	V07462.D	09/04/2009	17:39
	STD080 360-48619/8	V07463.D	09/04/2009	18:02
	ICV 360-48619/9	V07464.D	09/04/2009	18:25

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V07480.D BFB Injection Date: 09/05/2009

Instrument ID: HP #3 GC/MS 9-4-01 BFB Injection Time: 00:30

Analysis Batch No.: 48642

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.4	
75	30.0 - 60.0 % of mass 95	54.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.2	
175	5.0 - 9.0 % of mass 174	6.4	(7.1)1
176	95.0 - 101.0 % of mass 174	87.7	(97.2)1
177	5.0 - 9.0 % of mass 176	6.0	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48642/2	V07481.D	09/05/2009	00:52
	LCS 360-48640/1-A	V07482.D	09/05/2009	01:15
	LCSD 360-48640/2-A	V07483.D	09/05/2009	01:38
	MB 360-48640/3-A	V07485.D	09/05/2009	02:24
OC-SB-400-0.0/1.0-XXX	360-24309-1	V07494.D	09/05/2009	05:47
OC-SB-401-0.0/1.0-XXX	360-24309-3	V07495.D	09/05/2009	06:10
OC-SB-402-0.0/1.0-XXX	360-24309-5	V07496.D	09/05/2009	06:33
OC-SB-407-0.0/1.0-XXX	360-24309-7	V07497.D	09/05/2009	06:55
OC-SB-408-0.0/1.0-XXX	360-24309-10	V07498.D	09/05/2009	07:18

Acetone 54% 68%
Dichlorodifluoromethane 44%/50%
Trichlorofluoromethane 65%
Dioxane 149%
} UJ

Acetone -31.9%
244 TMP-1 -26.7%

TC 3/30/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44797.D IC BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS 9/8/10 BFB Injection Time: 19:37

Analysis Batch No.: 48711

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.8	
75	30.0 - 60.0 % of mass 95	52.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.7	
175	5.0 - 9.0 % of mass 174	5.5	(8.3)1
176	95.0 - 101.0 % of mass 174	65.1	(97.6)1
177	5.0 - 9.0 % of mass 176	4.4	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48711/2	V44798.D	09/08/2009	20:02
	LCS 360-48710/1-A	V44799.D	09/08/2009	20:26
	LCSD 360-48710/2-A	V44800.D	09/08/2009	20:50
	MB 360-48710/3-A	V44802.D	09/08/2009	21:38
OC-SB-430-0.0/1.0-XXX	360-24309-20	V44803.D	09/08/2009	22:02

LCS/LCSD Dichlorodifluoromethane 61%

Naphthalene @ 1.16 ug/kg no hits in samples

w/in control limits

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-400-0.0/1.0-XXX	360-24309-1	105	98	105
OC-SB-400-5.0/7.0-XXX	360-24309-2	104	92	102
OC-SB-401-0.0/1.0-XXX	360-24309-3	107	97	102
OC-SB-401-7.5/9.5-XXX	360-24309-4	105	92	103
OC-SB-402-0.0/1.0-XXX	360-24309-5	105	99	104
OC-SB-402-7.5/9.5-XXX	360-24309-6	104	93	100
OC-SB-407-0.0/1.0-XXX	360-24309-7	105	98	105
OC-SB-407-8.0/10.0-XXX	360-24309-9	101	93	100
OC-SB-408-0.0/1.0-XXX	360-24309-10	104	99	104
OC-SB-408-7.0/9.9-XXX	360-24309-11	105	91	104
OC-SB-414-0.0/1.0-XXX	360-24309-12	105	89	104
OC-SB-414-6.0/8.0-XXX	360-24309-14	109	93	103
OC-SB-422-0.0/1.0-XXX	360-24309-15	101	92	102
OC-SB-422-0.0/1.0-XXX	360-24309-15	104	92	101
OC-SB-422-6.0/8.0-XXX	360-24309-17	104	92	102
OC-SB-429-6.0/8.0-XXX	360-24309-19	102	91	101
OC-SB-430-0.0/1.0-XXX	360-24309-20	100	101	101
OC-SB-430-8.0/10-DUP	360-24309-22	102	93	102
OC-SB-430-8.0/10-XXX	360-24309-23	104	93	102
OC-TBK-008	360-24309-24	101	93	101
OC-TBK-008	360-24309-24	101	93	106
	MB 360-48353/3-A	103	92	103
	MB 360-48405/3-A	105	93	104
	MB 360-48468/3-A	106	94	105
	MB 360-48522/3-A	100	96	101
	MB 360-48640/3-A	104	99	102

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

TC
3/29/10

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
	MB 360-48710/3-A	99	101	103
	LCS 360-48353/1-A	97	95	99
	LCS 360-48405/1-A	96	94	98
	LCS 360-48468/1-A	97	95	98
	LCS 360-48522/1-A	98	95	98
	LCS 360-48640/1-A	99	100	97
	LCS 360-48710/1-A	98	100	101
	LCSD 360-48353/2-A	96	97	95
	LCSD 360-48405/2-A	96	94	99
	LCSD 360-48468/2-A	98	93	98
	LCSD 360-48522/2-A	96	94	97
	LCSD 360-48640/2-A	99	99	99
	LCSD 360-48710/2-A	99	101	100
OC-SB-430-8.0/10-X XX MS	360-24309-23 MS	100	94	99
OC-SB-430-8.0/10-X XX MSD	360-24309-23 MSD	95	94	93

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

3/29/10 TC

FORM II 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48353/3-A

Matrix: Solid | Lab File ID: V44581.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/29/2009 04:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48354 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48353/3-A

Matrix: Solid | Lab File ID: V44581.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/29/2009 04:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48354 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

TC 3/30/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48353/3-A

Matrix: Solid | Lab File ID: V44581.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/29/2009 04:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48354 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	103	70-130	
1868-53-7	Dibromofluoromethane	103	70-130	
2037-26-5	Toluene-d8 (Surr)	92	70-130	

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: Lab Sample ID: MB 360-48353/3-A

Matrix: Solid Lab File ID: V44581.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 08/29/2009 04:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48354 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

TC 3/30/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48405/3-A

Matrix: Solid | Lab File ID: V44632.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48407 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48405/3-A

Matrix: Solid | Lab File ID: V44632.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48407 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48405/3-A

Matrix: Solid | Lab File ID: V44632.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48407 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	104	70-130	
1868-53-7	Dibromofluoromethane	105	70-130	
2037-26-5	Toluene-d8 (Surr)	93	70-130	

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48405/3-A

Matrix: Solid | Lab File ID: V44632.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48407 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48468/3-A

Matrix: Solid | Lab File ID: V44650.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(g) | Date Analyzed: 09/01/2009 18:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48469 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		120	50
71-55-6	1,1,1-Trichloroethane	ND		120	50
79-34-5	1,1,2,2-Tetrachloroethane	ND		120	50
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		620	50
79-00-5	1,1,2-Trichloroethane	ND		120	50
75-34-3	1,1-Dichloroethane	ND		120	50
75-35-4	1,1-Dichloroethene	ND		120	50
563-58-6	1,1-Dichloropropene	ND		120	50
87-61-6	1,2,3-Trichlorobenzene	ND		120	50
96-18-4	1,2,3-Trichloropropane	ND		120	74
120-82-1	1,2,4-Trichlorobenzene	ND		120	50
95-63-6	1,2,4-Trimethylbenzene	ND		120	50
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1200	90
106-93-4	Ethylene Dibromide	ND		120	50
95-50-1	1,2-Dichlorobenzene	ND		120	50
107-06-2	1,2-Dichloroethane	ND		120	50
67-64-1	Acetone	ND		12000	900
78-87-5	1,2-Dichloropropane	ND		120	50
108-67-8	1,3,5-Trimethylbenzene	ND		120	50
541-73-1	1,3-Dichlorobenzene	ND		120	50
142-28-9	1,3-Dichloropropane	ND		120	50
106-46-7	1,4-Dichlorobenzene	ND		120	50
123-91-1	1,4-Dioxane	ND		12000	1600
594-20-7	2,2-Dichloropropane	ND		120	50
107-39-1	2,4,4-Trimethyl-1-pentene	ND		250	50
107-40-4	2,4,4-Trimethyl-2-pentene	ND		250	50
95-49-8	2-Chlorotoluene	ND		120	50
591-78-6	2-Hexanone	ND		1200	260
106-43-4	4-Chlorotoluene	ND		120	50
71-43-2	Benzene	ND		120	50
108-86-1	Bromobenzene	ND		120	50
74-97-5	Chlorobromomethane	ND		120	50
75-27-4	Dichlorobromomethane	ND		120	50
75-25-2	Bromoform	ND		120	50
74-83-9	Bromomethane	ND		250	50

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48468/3-A

Matrix: Solid | Lab File ID: V44650.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(g) | Date Analyzed: 09/01/2009 18:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48469 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		120	50
75-15-0	Carbon disulfide	ND		120	50
56-23-5	Carbon tetrachloride	ND		120	50
108-90-7	Chlorobenzene	ND		120	50
75-00-3	Chloroethane	ND		250	50
67-66-3	Chloroform	ND		120	50
74-87-3	Chloromethane	ND		250	50
156-59-2	cis-1,2-Dichloroethene	ND		120	50
10061-01-5	cis-1,3-Dichloropropene	ND		120	50
110-82-7	Cyclohexane	ND		1200	130
124-48-1	Chlorodibromomethane	ND		120	50
74-95-3	Dibromomethane	ND		120	50
75-71-8	Dichlorodifluoromethane	ND		250	50
60-29-7	Ethyl ether	ND		120	50
108-20-3	Isopropyl ether	ND		120	50
637-92-3	Tert-butyl ethyl ether	ND		120	120
100-41-4	Ethylbenzene	ND		120	50
87-68-3	Hexachlorobutadiene	ND		120	50
98-82-8	Isopropylbenzene	ND		120	50
79-20-9	Methyl acetate	ND		2500	810
78-93-3	2-Butanone (MEK)	602	J	1200	340
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1200	260
1634-04-4	Methyl tert-butyl ether	ND		120	50
108-87-2	Methylcyclohexane	ND		120	50
75-09-2	Methylene Chloride	ND		500	240
136777-61-2	m-Xylene & p-Xylene	ND		250	50
91-20-3	Naphthalene	ND		1200	50
103-65-1	N-Propylbenzene	ND		120	50
95-47-6	o-Xylene	ND		120	50
99-87-6	4-Isopropyltoluene	ND		120	50
135-98-8	sec-Butylbenzene	ND		120	50
100-42-5	Styrene	ND		120	50
994-05-8	Tert-amyl methyl ether	ND		120	50
98-06-6	tert-Butylbenzene	ND		120	50
127-18-4	Tetrachloroethene	ND		120	50
109-99-9	Tetrahydrofuran	ND		1200	280

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: Lab Sample ID: MB 360-48468/3-A

Matrix: Solid Lab File ID: V44650.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 10(g) Date Analyzed: 09/01/2009 18:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		120	50
156-60-5	trans-1,2-Dichloroethene	ND		120	50
10061-02-6	trans-1,3-Dichloropropene	ND		120	50
79-01-6	Trichloroethene	ND		120	50
75-69-4	Trichlorofluoromethane	ND		250	50
75-01-4	Vinyl chloride	ND		120	50

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	105	70-130	
1868-53-7	Dibromofluoromethane	106	70-130	
2037-26-5	Toluene-d8 (Surr)	94	70-130	

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48522/3-A

Matrix: Solid | Lab File ID: V44722.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/03/2009 05:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48524 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.21	J	2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	2.10	J	2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	1.89	J	2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	2.21	J	2.5	1.0
96-18-4	1,2,3-Trichloropropane	2.17	J	2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	2.11	J	2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	1.16	J	2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	1.63	J	2.5	1.0
95-50-1	1,2-Dichlorobenzene	2.00	J	2.5	1.0
107-06-2	1,2-Dichloroethane	2.05	J	2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	1.62	J	2.5	1.0
142-28-9	1,3-Dichloropropane	1.88	J	2.5	1.0
106-46-7	1,4-Dichlorobenzene	1.89	J	2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	1.29	J	2.5	1.0
591-78-6	2-Hexanone	17.5	J	25	5.1
106-43-4	4-Chlorotoluene	1.51	J	2.5	1.0
71-43-2	Benzene	1.04	J	2.5	1.0
108-86-1	Bromobenzene	1.95	J	2.5	1.0
74-97-5	Chlorobromomethane	1.64	J	2.5	1.0
75-27-4	Dichlorobromomethane	1.52	J	2.5	1.0
75-25-2	Bromoform	1.67	J	2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

No hits for compounds detected in this Method Blank in associated samples

TC 3/30/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48522/3-A

Matrix: Solid | Lab File ID: V44722.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/03/2009 05:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48524 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	1.39	J	2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	1.38	J	2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	1.42	J	2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	1.45	J	2.5	1.0
74-95-3	Dibromomethane	2.02	J	2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	2.03	J	2.5	1.0
108-20-3	Isopropyl ether	1.53	J	2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	17.2	J	25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	2.42	J	25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	1.12	J	2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	1.43	J	2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48522/3-A

Matrix: Solid | Lab File ID: V44722.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/03/2009 05:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48524 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	1.64	J	2.5	1.0
79-01-6	Trichloroethene	1.15	J	2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	101	70-130	
1868-53-7	Dibromofluoromethane	100	70-130	
2037-26-5	Toluene-d8 (Surr)	96	70-130	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: Lab Sample ID: MB 360-48522/3-A

Matrix: Solid Lab File ID: V44722.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/03/2009 05:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48524 Units: ug/Kg

Number TICs Found: 5 TIC Result Total: 57.99

CAS NO.	COMPOUND NAME	RT	RESULT	Q
108-05-4	Vinyl acetate	4.56	22.0	J
80-62-6	Methyl methacrylate	6.61	1.33	J
110-75-8	2-Chloroethyl vinyl ether	6.94	25.8	
	Unknown	7.31	7.11	T J
108-70-3	1,3,5-Trichlorobenzene	11.31	1.75	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	1.16	J	25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	103	70-130	
1868-53-7	Dibromofluoromethane	99	70-130	
2037-26-5	Toluene-d8 (Surr)	101	70-130	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

3/30/10
TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48640/3-A

Matrix: Solid | Lab File ID: V07485.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48642 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: | Lab Sample ID: MB 360-48640/3-A

Matrix: Solid | Lab File ID: V07485.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48642 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: Lab Sample ID: MB 360-48640/3-A

Matrix: Solid Lab File ID: V07485.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol.: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48642 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	102	70-130	
1868-53-7	Dibromofluoromethane	104	70-130	
2037-26-5	Toluene-d8 (Surr)	99	70-130	

3/30/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Client Sample ID: Lab Sample ID: MB 360-48640/3-A

Matrix: Solid Lab File ID: V07485.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48642 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 9.17

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	3.60	9.17	T J

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44576.D

Lab ID: LCS 360-48353/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	103	103	70-130	
1,1,1-Trichloroethane	100	90.7	91	70-130	
1,1,2,2-Tetrachloroethane	100	93.2	93	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	88.9	89	70-130	
1,1,2-Trichloroethane	100	82.7	83	70-130	
1,1-Dichloroethane	100	105	105	70-130	
1,1-Dichloroethene	100	93.7	94	70-130	
1,1-Dichloropropene	100	96.4	96	70-130	
1,2,3-Trichlorobenzene	100	96.7	97	70-130	
1,2,3-Trichloropropane	100	98.5	98	70-130	
1,2,4-Trichlorobenzene	100	95.4	95	70-130	
1,2,4-Trimethylbenzene	100	101	101	70-130	
1,2-Dibromo-3-Chloropropane	100	91.5	92	70-130	
Ethylene Dibromide	100	77.3	77	70-130	
1,2-Dichlorobenzene	100	96.2	96	70-130	
1,2-Dichloroethane	100	91.1	91	70-130	
Acetone	1000	682	68	70-130	*
1,2-Dichloropropane	100	115	115	70-130	
1,3,5-Trimethylbenzene	100	105	105	70-130	
1,3-Dichlorobenzene	100	97.5	97	70-130	
1,3-Dichloropropane	100	81.2	81	70-130	
1,4-Dichlorobenzene	100	94.7	95	70-130	
1,4-Dioxane	1000	992	99	70-130	
2,2-Dichloropropane	100	87.0	87	70-130	
2,4,4-Trimethyl-1-pentene	100	107	107	70-130	
2,4,4-Trimethyl-2-pentene	100	95.1	95	70-130	
2-Chlorotoluene	100	102	102	70-130	
2-Hexanone	1000	763	76	70-130	
4-Chlorotoluene	100	101	101	70-130	
Benzene	100	92.8	93	70-130	
Bromobenzene	100	99.0	99	70-130	
Chlorobromomethane	100	86.9	87	70-130	
Dichlorobromomethane	100	93.5	94	70-130	
Bromoform	100	84.3	84	70-130	
Bromomethane	100	104	104	70-130	
n-Butylbenzene	100	102	102	70-130	
Carbon disulfide	100	90.9	91	70-130	
Carbon tetrachloride	100	94.4	94	70-130	
Chlorobenzene	100	96.7	97	70-130	
Chloroethane	100	103	103	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
3/30/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44576.D

Lab ID: LCS 360-48353/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	97.4	97	70-130	
Chloromethane	100	96.1	96	70-130	
cis-1,2-Dichloroethene	100	96.7	97	70-130	
cis-1,3-Dichloropropene	100	82.5	82	70-130	
Cyclohexane	100	88.7	89	70-130	
Chlorodibromomethane	100	78.8	79	70-130	
Dibromomethane	100	86.8	87	70-130	
Dichlorodifluoromethane	100	56.8	57*	70-130	*
Ethyl ether	100	92.7	93	70-130	
Isopropyl ether	100	92.4	92	70-130	
Tert-butyl ethyl ether	100	101	101	70-130	
Ethylbenzene	100	107	107	70-130	
Hexachlorobutadiene	100	94.0	94	70-130	
Isopropylbenzene	100	106	106	70-130	
Methyl acetate	1000	1010	101	70-130	
2-Butanone (MEK)	1000	853	85	70-130	
4-Methyl-2-pentanone (MIBK)	1000	969	97	70-130	
Methyl tert-butyl ether	100	95.2	95	70-130	
Methylcyclohexane	100	88.3	88	70-130	
Methylene Chloride	100	110	110	70-130	
m-Xylene & p-Xylene	200	216	108	70-130	
Naphthalene	100	90.8	91	70-130	
N-Propylbenzene	100	104	104	70-130	
o-Xylene	100	102	102	70-130	
4-Isopropyltoluene	100	107	107	70-130	
sec-Butylbenzene	100	105	105	70-130	
Styrene	100	97.3	97	70-130	
Tert-amyl methyl ether	100	99.0	99	70-130	
tert-Butylbenzene	100	112	112	70-130	
Tetrachloroethene	100	84.0	84	70-130	
Tetrahydrofuran	1000	969	97	70-130	
Toluene	100	89.4	89	70-130	
trans-1,2-Dichloroethene	100	91.7	92	70-130	
trans-1,3-Dichloropropene	100	78.8	79	70-130	
Trichloroethene	100	92.0	92	70-130	
Trichlorofluoromethane	100	88.7	89	70-130	
Vinyl chloride	100	95.5	95	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TS 3/30/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44577.D

Lab ID: LCSD 360-48353/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	92.1	92	11	25	70-130	
1,1,1-Trichloroethane	100	85.2	85	6	25	70-130	
1,1,2,2-Tetrachloroethane	100	92.7	93	1	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	83.0	83	7	25	70-130	
1,1,2-Trichloroethane	100	87.9	88	6	25	70-130	
1,1-Dichloroethane	100	98.6	99	6	25	70-130	
1,1-Dichloroethene	100	87.2	87	7	25	70-130	
1,1-Dichloropropene	100	91.2	91	6	25	70-130	
1,2,3-Trichlorobenzene	100	96.4	96	0	25	70-130	
1,2,3-Trichloropropane	100	91.2	91	8	25	70-130	
1,2,4-Trichlorobenzene	100	96.8	97	1	25	70-130	
1,2,4-Trimethylbenzene	100	89.8	90	11	25	70-130	
1,2-Dibromo-3-Chloropropane	100	86.8	87	5	25	70-130	
Ethylene Dibromide	100	86.9	87	12	25	70-130	
1,2-Dichlorobenzene	100	93.7	94	3	25	70-130	
1,2-Dichloroethane	100	90.9	91	0	25	70-130	
Acetone	1000	609	61*	11	25	70-130	*
1,2-Dichloropropane	100	110	110	4	25	70-130	
1,3,5-Trimethylbenzene	100	93.5	94	11	25	70-130	
1,3-Dichlorobenzene	100	87.2	87	11	25	70-130	
1,3-Dichloropropane	100	89.2	89	9	25	70-130	
1,4-Dichlorobenzene	100	93.8	94	1	25	70-130	
1,4-Dioxane	1000	968	97	2	25	70-130	
2,2-Dichloropropane	100	79.7	80	9	25	70-130	
2,4,4-Trimethyl-1-pentene	100	100	100	7	25	70-130	
2,4,4-Trimethyl-2-pentene	100	91.5	92	4	25	70-130	
2-Chlorotoluene	100	92.6	93	10	25	70-130	
2-Hexanone	1000	764	76	0	25	70-130	
4-Chlorotoluene	100	93.1	93	8	25	70-130	
Benzene	100	89.5	90	4	25	70-130	
Bromobenzene	100	91.5	92	8	25	70-130	
Chlorobromomethane	100	84.2	84	3	25	70-130	
Dichlorobromomethane	100	91.1	91	3	25	70-130	
Bromoform	100	89.7	90	6	25	70-130	
Bromomethane	100	95.9	96	8	25	70-130	
n-Butylbenzene	100	101	101	1	25	70-130	
Carbon disulfide	100	85.5	86	6	25	70-130	
Carbon tetrachloride	100	88.3	88	7	25	70-130	
Chlorobenzene	100	95.4	95	1	25	70-130	
Chloroethane	100	91.5	92	12	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
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FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44577.D

Lab ID: LCSD 360-48353/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	95.1	95	2	25	70-130	
Chloromethane	100	87.4	87	10	25	70-130	
cis-1,2-Dichloroethene	100	93.0	93	4	25	70-130	
cis-1,3-Dichloropropene	100	88.4	88	7	25	70-130	
Cyclohexane	100	85.2	85	4	25	70-130	
Chlorodibromomethane	100	84.9	85	7	25	70-130	
Dibromomethane	100	88.5	89	2	25	70-130	
Dichlorodifluoromethane	100	49.9	50	13	25	70-130	*
Ethyl ether	100	87.9	88	5	25	70-130	
Isopropyl ether	100	86.9	87	6	25	70-130	
Tert-butyl ethyl ether	100	94.1	94	7	25	70-130	
Ethylbenzene	100	99.5	100	8	25	70-130	
Hexachlorobutadiene	100	92.7	93	1	25	70-130	
Isopropylbenzene	100	95.2	95	11	25	70-130	
Methyl acetate	1000	982	98	3	25	70-130	
2-Butanone (MEK)	1000	805	81	6	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	872	87	11	25	70-130	
Methyl tert-butyl ether	100	87.9	88	8	25	70-130	
Methylcyclohexane	100	84.1	84	5	25	70-130	
Methylene Chloride	100	105	105	4	25	70-130	
m-Xylene & p-Xylene	200	201	101	7	25	70-130	
Naphthalene	100	89.7	90	1	25	70-130	
N-Propylbenzene	100	94.8	95	9	25	70-130	
o-Xylene	100	92.7	93	9	25	70-130	
4-Isopropyltoluene	100	95.5	96	12	25	70-130	
sec-Butylbenzene	100	93.4	93	12	25	70-130	
Styrene	100	91.3	91	6	25	70-130	
Tert-amyl methyl ether	100	93.1	93	6	25	70-130	
tert-Butylbenzene	100	97.2	97	14	25	70-130	
Tetrachloroethene	100	86.7	87	3	25	70-130	
Tetrahydrofuran	1000	958	96	1	25	70-130	
Toluene	100	89.6	90	0	25	70-130	
trans-1,2-Dichloroethene	100	85.6	86	7	25	70-130	
trans-1,3-Dichloropropene	100	89.3	89	13	25	70-130	
Trichloroethene	100	91.3	91	1	25	70-130	
Trichlorofluoromethane	100	79.5	80	11	25	70-130	
Vinyl chloride	100	85.3	85	11	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
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FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44627.D

Lab ID: LCS 360-48405/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	103	103	70-130	
1,1,1-Trichloroethane	100	88.7	89	70-130	
1,1,2,2-Tetrachloroethane	100	101	101	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	82.5	82	70-130	
1,1,2-Trichloroethane	100	84.8	85	70-130	
1,1-Dichloroethane	100	107	107	70-130	
1,1-Dichloroethene	100	93.3	93	70-130	
1,1-Dichloropropene	100	96.3	96	70-130	
1,2,3-Trichlorobenzene	100	108	108	70-130	
1,2,3-Trichloropropane	100	100	100	70-130	
1,2,4-Trichlorobenzene	100	106	106	70-130	
1,2,4-Trimethylbenzene	100	99.4	99	70-130	
1,2-Dibromo-3-Chloropropane	100	97.8	98	70-130	
Ethylene Dibromide	100	79.3	79	70-130	
1,2-Dichlorobenzene	100	100	100	70-130	
1,2-Dichloroethane	100	95.9	96	70-130	
Acetone	1000	617	62	70-130	*
1,2-Dichloropropane	100	116	116	70-130	
1,3,5-Trimethylbenzene	100	104	104	70-130	
1,3-Dichlorobenzene	100	95.8	96	70-130	
1,3-Dichloropropane	100	86.1	86	70-130	
1,4-Dichlorobenzene	100	98.3	98	70-130	
1,4-Dioxane	1000	956	96	70-130	
2,2-Dichloropropane	100	81.8	82	70-130	
2,4,4-Trimethyl-1-pentene	100	104	104	70-130	
2,4,4-Trimethyl-2-pentene	100	93.0	93	70-130	
2-Chlorotoluene	100	103	103	70-130	
2-Hexanone	1000	745	75	70-130	
4-Chlorotoluene	100	99.9	100	70-130	
Benzene	100	94.9	95	70-130	
Bromobenzene	100	99.9	100	70-130	
Chlorobromomethane	100	87.1	87	70-130	
Dichlorobromomethane	100	93.9	94	70-130	
Bromoform	100	89.1	89	70-130	
Bromomethane	100	95.3	95	70-130	
n-Butylbenzene	100	108	108	70-130	
Carbon disulfide	100	94.6	95	70-130	
Carbon tetrachloride	100	92.5	92	70-130	
Chlorobenzene	100	98.2	98	70-130	
Chloroethane	100	91.7	92	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44627.D

Lab ID: LCS 360-48405/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	101	101	70-130	
Chloromethane	100	89.4	89	70-130	
cis-1,2-Dichloroethene	100	98.6	99	70-130	
cis-1,3-Dichloropropene	100	87.5	87	70-130	
Cyclohexane	100	89.5	89	70-130	
Chlorodibromomethane	100	80.1	80	70-130	
Dibromomethane	100	91.0	91	70-130	
Dichlorodifluoromethane	100	47.3	47	70-130	*
Ethyl ether	100	96.9	97	70-130	
Isopropyl ether	100	95.0	95	70-130	
Tert-butyl ethyl ether	100	102	102	70-130	
Ethylbenzene	100	109	109	70-130	
Hexachlorobutadiene	100	101	101	70-130	
Isopropylbenzene	100	105	105	70-130	
Methyl acetate	1000	963	96	70-130	
2-Butanone (MEK)	1000	851	85	70-130	
4-Methyl-2-pentanone (MIBK)	1000	926	93	70-130	
Methyl tert-butyl ether	100	96.8	97	70-130	
Methylcyclohexane	100	88.0	88	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	219	109	70-130	
Naphthalene	100	100	100	70-130	
N-Propylbenzene	100	104	104	70-130	
o-Xylene	100	103	103	70-130	
4-Isopropyltoluene	100	106	106	70-130	
sec-Butylbenzene	100	104	104	70-130	
Styrene	100	94.8	95	70-130	
Tert-amyl methyl ether	100	99.6	100	70-130	
tert-Butylbenzene	100	107	107	70-130	
Tetrachloroethene	100	84.3	84	70-130	
Tetrahydrofuran	1000	1040	104	70-130	
Toluene	100	89.9	90	70-130	
trans-1,2-Dichloroethene	100	92.0	92	70-130	
trans-1,3-Dichloropropene	100	83.8	84	70-130	
Trichloroethene	100	96.0	96	70-130	
Trichlorofluoromethane	100	78.0	78	70-130	
Vinyl chloride	100	85.5	85	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44628.D

Lab ID: LCSD 360-48405/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	102	102	1	25	70-130	
1,1,1-Trichloroethane	100	88.6	89	0	25	70-130	
1,1,2,2-Tetrachloroethane	100	104	104	3	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	81.9	82	1	25	70-130	
1,1,2-Trichloroethane	100	88.0	88	4	25	70-130	
1,1-Dichloroethane	100	108	108	0	25	70-130	
1,1-Dichloroethene	100	94.1	94	1	25	70-130	
1,1-Dichloropropene	100	97.6	98	1	25	70-130	
1,2,3-Trichlorobenzene	100	102	102	5	25	70-130	
1,2,3-Trichloropropane	100	103	103	2	25	70-130	
1,2,4-Trichlorobenzene	100	102	102	4	25	70-130	
1,2,4-Trimethylbenzene	100	98.6	99	1	25	70-130	
1,2-Dibromo-3-Chloropropane	100	96.2	96	2	25	70-130	
Ethylene Dibromide	100	84.1	84	6	25	70-130	
1,2-Dichlorobenzene	100	99.7	100	1	25	70-130	
1,2-Dichloroethane	100	96.7	97	1	25	70-130	
Acetone	1000	721	72	16	25	70-130	
1,2-Dichloropropane	100	120	120	3	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	2	25	70-130	
1,3-Dichlorobenzene	100	94.4	94	1	25	70-130	
1,3-Dichloropropane	100	88.1	88	2	25	70-130	
1,4-Dichlorobenzene	100	98.3	98	0	25	70-130	
1,4-Dioxane	1000	1050	105	9	25	70-130	
2,2-Dichloropropane	100	82.9	83	1	25	70-130	
2,4,4-Trimethyl-1-pentene	100	105	105	2	25	70-130	
2,4,4-Trimethyl-2-pentene	100	91.1	91	2	25	70-130	
2-Chlorotoluene	100	101	101	2	25	70-130	
2-Hexanone	1000	794	79	6	25	70-130	
4-Chlorotoluene	100	101	101	1	25	70-130	
Benzene	100	96.1	96	1	25	70-130	
Bromobenzene	100	101	101	1	25	70-130	
Chlorobromomethane	100	88.8	89	2	25	70-130	
Dichlorobromomethane	100	94.9	95	1	25	70-130	
Bromoform	100	94.6	95	6	25	70-130	
Bromomethane	100	97.3	97	2	25	70-130	
n-Butylbenzene	100	106	106	2	25	70-130	
Carbon disulfide	100	94.6	95	0	25	70-130	
Carbon tetrachloride	100	92.1	92	0	25	70-130	
Chlorobenzene	100	98.3	98	0	25	70-130	
Chloroethane	100	92.9	93	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44628.D

Lab ID: LCSD 360-48405/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	101	101	0	25	70-130	
Chloromethane	100	91.5	92	2	25	70-130	
cis-1,2-Dichloroethene	100	100	100	2	25	70-130	
cis-1,3-Dichloropropene	100	88.5	88	1	25	70-130	
Cyclohexane	100	90.0	90	1	25	70-130	
Chlorodibromomethane	100	84.0	84	5	25	70-130	
Dibromomethane	100	92.3	92	1	25	70-130	
Dichlorodifluoromethane	100	48.8	49	3	25	70-130	*
Ethyl ether	100	98.8	99	2	25	70-130	
Isopropyl ether	100	97.3	97	2	25	70-130	
Tert-butyl ethyl ether	100	106	106	4	25	70-130	
Ethylbenzene	100	107	107	2	25	70-130	
Hexachlorobutadiene	100	97.1	97	4	25	70-130	
Isopropylbenzene	100	104	104	1	25	70-130	
Methyl acetate	1000	983	98	2	25	70-130	
2-Butanone (MEK)	1000	889	89	4	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	973	97	5	25	70-130	
Methyl tert-butyl ether	100	101	101	4	25	70-130	
Methylcyclohexane	100	88.5	89	1	25	70-130	
Methylene Chloride	100	104	104	0	25	70-130	
m-Xylene & p-Xylene	200	215	108	2	25	70-130	
Naphthalene	100	97.1	97	3	25	70-130	
N-Propylbenzene	100	103	103	1	25	70-130	
o-Xylene	100	101	101	2	25	70-130	
4-Isopropyltoluene	100	103	103	3	25	70-130	
sec-Butylbenzene	100	102	102	2	25	70-130	
Styrene	100	95.0	95	0	25	70-130	
Tert-amyl methyl ether	100	102	102	3	25	70-130	
tert-Butylbenzene	100	105	105	2	25	70-130	
Tetrachloroethene	100	86.2	86	2	25	70-130	
Tetrahydrofuran	1000	1090	109	5	25	70-130	
Toluene	100	90.7	91	1	25	70-130	
trans-1,2-Dichloroethene	100	92.7	93	1	25	70-130	
trans-1,3-Dichloropropene	100	84.9	85	1	25	70-130	
Trichloroethene	100	95.6	96	0	25	70-130	
Trichlorofluoromethane	100	79.5	80	2	25	70-130	
Vinyl chloride	100	88.0	88	3	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44647.D

Lab ID: LCS 360-48468/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5000	5080	102	70-130	
1,1,1-Trichloroethane	5000	4840	97	70-130	
1,1,2,2-Tetrachloroethane	5000	4870	97	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	4640	93	70-130	
1,1,2-Trichloroethane	5000	4320	86	70-130	
1,1-Dichloroethane	5000	5410	108	70-130	
1,1-Dichloroethene	5000	5140	103	70-130	
1,1-Dichloropropene	5000	5300	106	70-130	
1,2,3-Trichlorobenzene	5000	5390	108	70-130	
1,2,3-Trichloropropane	5000	4980	100	70-130	
1,2,4-Trichlorobenzene	5000	5430	109	70-130	
1,2,4-Trimethylbenzene	5000	5040	101	70-130	
1,2-Dibromo-3-Chloropropane	5000	4870	97	70-130	
Ethylene Dibromide	5000	4080	82	70-130	
1,2-Dichlorobenzene	5000	4900	98	70-130	
1,2-Dichloroethane	5000	4750	95	70-130	
Acetone	50000	34400	69	70-130	*
1,2-Dichloropropane	5000	5860	117	70-130	
1,3,5-Trimethylbenzene	5000	5320	106	70-130	
1,3-Dichlorobenzene	5000	4840	97	70-130	
1,3-Dichloropropane	5000	4300	86	70-130	
1,4-Dichlorobenzene	5000	4940	99	70-130	
1,4-Dioxane	50000	49000	98	70-130	
2,2-Dichloropropane	5000	5070	101	70-130	
2,4,4-Trimethyl-1-pentene	5000	5800	116	70-130	
2,4,4-Trimethyl-2-pentene	5000	5160	103	70-130	
2-Chlorotoluene	5000	5180	104	70-130	
2-Hexanone	50000	37400	75	70-130	
4-Chlorotoluene	5000	5100	102	70-130	
Benzene	5000	4860	97	70-130	
Bromobenzene	5000	4990	100	70-130	
Chlorobromomethane	5000	4310	86	70-130	
Dichlorobromomethane	5000	4730	95	70-130	
Bromoform	5000	4530	91	70-130	
Bromomethane	5000	4640	93	70-130	
n-Butylbenzene	5000	5790	116	70-130	
Carbon disulfide	5000	4890	98	70-130	
Carbon tetrachloride	5000	5210	104	70-130	
Chlorobenzene	5000	4940	99	70-130	
Chloroethane	5000	3390	68	70-130	*

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44647.D

Lab ID: LCS 360-48468/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	5000	5020	100	70-130	
Chloromethane	5000	4780	96	70-130	
cis-1,2-Dichloroethene	5000	5100	102	70-130	
cis-1,3-Dichloropropene	5000	4530	91	70-130	
Cyclohexane	5000	5280	106	70-130	
Chlorodibromomethane	5000	4090	82	70-130	
Dibromomethane	5000	4550	91	70-130	
Dichlorodifluoromethane	5000	3030	61	70-130	*
Ethyl ether	5000	4450	89	70-130	
Isopropyl ether	5000	4790	96	70-130	
Tert-butyl ethyl ether	5000	5090	102	70-130	
Ethylbenzene	5000	5540	111	70-130	
Hexachlorobutadiene	5000	5650	113	70-130	
Isopropylbenzene	5000	5430	109	70-130	
Methyl acetate	50000	49900	100	70-130	
2-Butanone (MEK)	50000	42700	85	70-130	
4-Methyl-2-pentanone (MIBK)	50000	46000	92	70-130	
Methyl tert-butyl ether	5000	4810	96	70-130	
Methylcyclohexane	5000	5200	104	70-130	
Methylene Chloride	5000	6160	123	70-130	
m-Xylene & p-Xylene	10000	11200	112	70-130	
Naphthalene	5000	4820	96	70-130	
N-Propylbenzene	5000	5480	110	70-130	
o-Xylene	5000	5130	103	70-130	
4-Isopropyltoluene	5000	5550	111	70-130	
sec-Butylbenzene	5000	5490	110	70-130	
Styrene	5000	4770	95	70-130	
Tert-amyl methyl ether	5000	4990	100	70-130	
tert-Butylbenzene	5000	5590	112	70-130	
Tetrachloroethene	5000	4790	96	70-130	
Tetrahydrofuran	50000	52500	105	70-130	
Toluene	5000	4700	94	70-130	
trans-1,2-Dichloroethene	5000	4880	98	70-130	
trans-1,3-Dichloropropene	5000	4390	88	70-130	
Trichloroethene	5000	4990	100	70-130	
Trichlorofluoromethane	5000	4280	86	70-130	
Vinyl chloride	5000	4760	95	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44648.D

Lab ID: LCSD 360-48468/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5000	5360	107	5	25	70-130	
1,1,1-Trichloroethane	5000	4880	98	1	25	70-130	
1,1,2,2-Tetrachloroethane	5000	5030	101	3	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	5380	108	15	25	70-130	
1,1,2-Trichloroethane	5000	4200	84	3	25	70-130	
1,1-Dichloroethane	5000	5630	113	4	25	70-130	
1,1-Dichloroethene	5000	5210	104	1	25	70-130	
1,1-Dichloropropene	5000	5390	108	2	25	70-130	
1,2,3-Trichlorobenzene	5000	5340	107	1	25	70-130	
1,2,3-Trichloropropane	5000	5120	102	3	25	70-130	
1,2,4-Trichlorobenzene	5000	5450	109	0	25	70-130	
1,2,4-Trimethylbenzene	5000	5290	106	5	25	70-130	
1,2-Dibromo-3-Chloropropane	5000	4740	95	3	25	70-130	
Ethylene Dibromide	5000	3990	80	2	25	70-130	
1,2-Dichlorobenzene	5000	5050	101	3	25	70-130	
1,2-Dichloroethane	5000	4870	97	2	25	70-130	
Acetone	50000	37900	76	10	25	70-130	
1,2-Dichloropropane	5000	6140	123	5	25	70-130	
1,3,5-Trimethylbenzene	5000	5540	111	4	25	70-130	
1,3-Dichlorobenzene	5000	5030	101	4	25	70-130	
1,3-Dichloropropane	5000	4250	85	1	25	70-130	
1,4-Dichlorobenzene	5000	5020	100	2	25	70-130	
1,4-Dioxane	50000	52000	104	6	25	70-130	
2,2-Dichloropropane	5000	5280	106	4	25	70-130	
2,4,4-Trimethyl-1-pentene	5000	6760	135	15	25	70-130	*
2,4,4-Trimethyl-2-pentene	5000	5910	118	14	25	70-130	
2-Chlorotoluene	5000	5380	108	4	25	70-130	
2-Hexanone	50000	38100	76	2	25	70-130	
4-Chlorotoluene	5000	5300	106	4	25	70-130	
Benzene	5000	4950	99	2	25	70-130	
Bromobenzene	5000	5150	103	3	25	70-130	
Chlorobromomethane	5000	4480	90	4	25	70-130	
Dichlorobromomethane	5000	4730	95	0	25	70-130	
Bromoform	5000	4540	91	0	25	70-130	
Bromomethane	5000	5200	104	11	25	70-130	
n-Butylbenzene	5000	5910	118	2	25	70-130	
Carbon disulfide	5000	5020	100	3	25	70-130	
Carbon tetrachloride	5000	5010	100	4	25	70-130	
Chlorobenzene	5000	5040	101	2	25	70-130	
Chloroethane	5000	3770	75	11	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44648.D

Lab ID: LCSD 360-48468/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	5000	5220	104	4	25	70-130	
Chloromethane	5000	5210	104	9	25	70-130	
cis-1,2-Dichloroethene	5000	5220	104	2	25	70-130	
cis-1,3-Dichloropropene	5000	4410	88	3	25	70-130	
Cyclohexane	5000	5180	104	2	25	70-130	
Chlorodibromomethane	5000	3960	79	3	25	70-130	
Dibromomethane	5000	4540	91	0	25	70-130	
Dichlorodifluoromethane	5000	3140	63	4	25	70-130	*
Ethyl ether	5000	4400	88	1	25	70-130	
Isopropyl ether	5000	4920	98	3	25	70-130	
Tert-butyl ethyl ether	5000	5300	106	4	25	70-130	
Ethylbenzene	5000	5700	114	3	25	70-130	
Hexachlorobutadiene	5000	5620	112	1	25	70-130	
Isopropylbenzene	5000	5650	113	4	25	70-130	
Methyl acetate	50000	48700	97	3	25	70-130	
2-Butanone (MEK)	50000	44800	90	5	25	70-130	
4-Methyl-2-pentanone (MIBK)	50000	48700	97	6	25	70-130	
Methyl tert-butyl ether	5000	4940	99	3	25	70-130	
Methylcyclohexane	5000	5160	103	1	25	70-130	
Methylene Chloride	5000	6520	130	6	25	70-130	
m-Xylene & p-Xylene	10000	11500	115	3	25	70-130	
Naphthalene	5000	4830	97	0	25	70-130	
N-Propylbenzene	5000	5660	113	3	25	70-130	
o-Xylene	5000	5360	107	4	25	70-130	
4-Isopropyltoluene	5000	5800	116	4	25	70-130	
sec-Butylbenzene	5000	5750	115	5	25	70-130	
Styrene	5000	4940	99	3	25	70-130	
Tert-amyl methyl ether	5000	5160	103	3	25	70-130	
tert-Butylbenzene	5000	5810	116	4	25	70-130	
Tetrachloroethene	5000	4620	92	4	25	70-130	
Tetrahydrofuran	50000	53400	107	2	25	70-130	
Toluene	5000	4640	93	1	25	70-130	
trans-1,2-Dichloroethene	5000	5000	100	2	25	70-130	
trans-1,3-Dichloropropene	5000	4190	84	5	25	70-130	
Trichloroethene	5000	5030	101	1	25	70-130	
Trichlorofluoromethane	5000	4600	92	7	25	70-130	
Vinyl chloride	5000	5190	104	9	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44719.D

Lab ID: LCS 360-48522/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	110	110	70-130	
1,1,1-Trichloroethane	100	95.0	95	70-130	
1,1,2,2-Tetrachloroethane	100	111	111	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	82.7	83	70-130	
1,1,2-Trichloroethane	100	92.9	93	70-130	
1,1-Dichloroethane	100	116	116	70-130	
1,1-Dichloroethene	100	98.7	99	70-130	
1,1-Dichloropropene	100	102	102	70-130	
1,2,3-Trichlorobenzene	100	117	117	70-130	
1,2,3-Trichloropropane	100	111	111	70-130	
1,2,4-Trichlorobenzene	100	115	115	70-130	
1,2,4-Trimethylbenzene	100	106	106	70-130	
1,2-Dibromo-3-Chloropropane	100	107	107	70-130	
Ethylene Dibromide	100	85.5	86	70-130	
1,2-Dichlorobenzene	100	106	106	70-130	
1,2-Dichloroethane	100	102	102	70-130	
Acetone	1000	752	75	70-130	
1,2-Dichloropropane	100	130	130	70-130	
1,3,5-Trimethylbenzene	100	110	110	70-130	
1,3-Dichlorobenzene	100	100	100	70-130	
1,3-Dichloropropane	100	93.7	94	70-130	
1,4-Dichlorobenzene	100	102	102	70-130	
1,4-Dioxane	1000	1050	105	70-130	
2,2-Dichloropropane	100	93.1	93	70-130	
2,4,4-Trimethyl-1-pentene	100	109	109	70-130	
2,4,4-Trimethyl-2-pentene	100	93.9	94	70-130	
2-Chlorotoluene	100	109	109	70-130	
2-Hexanone	1000	837	84	70-130	
4-Chlorotoluene	100	105	105	70-130	
Benzene	100	101	101	70-130	
Bromobenzene	100	107	107	70-130	
Chlorobromomethane	100	92.2	92	70-130	
Dichlorobromomethane	100	99.6	100	70-130	
Bromoform	100	98.2	98	70-130	
Bromomethane	100	105	105	70-130	
n-Butylbenzene	100	115	115	70-130	
Carbon disulfide	100	99.8	100	70-130	
Carbon tetrachloride	100	97.3	97	70-130	
Chlorobenzene	100	103	103	70-130	
Chloroethane	100	101	101	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44719.D

Lab ID: LCS 360-48522/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	109	109	70-130	
Chloromethane	100	97.1	97	70-130	
cis-1,2-Dichloroethene	100	108	108	70-130	
cis-1,3-Dichloropropene	100	92.8	93	70-130	
Cyclohexane	100	90.1	90	70-130	
Chlorodibromomethane	100	84.9	85	70-130	
Dibromomethane	100	98.2	98	70-130	
Dichlorodifluoromethane	100	49.2	49	70-130	*
Ethyl ether	100	100	100	70-130	
Isopropyl ether	100	104	104	70-130	
Tert-butyl ethyl ether	100	115	115	70-130	
Ethylbenzene	100	115	115	70-130	
Hexachlorobutadiene	100	106	106	70-130	
Isopropylbenzene	100	111	111	70-130	
Methyl acetate	1000	1010	101	70-130	
2-Butanone (MEK)	1000	949	95	70-130	
4-Methyl-2-pentanone (MIBK)	1000	1070	107	70-130	
Methyl tert-butyl ether	100	108	108	70-130	
Methylcyclohexane	100	86.0	86	70-130	
Methylene Chloride	100	113	113	70-130	
m-Xylene & p-Xylene	200	230	115	70-130	
Naphthalene	100	109	109	70-130	
N-Propylbenzene	100	110	110	70-130	
o-Xylene	100	109	109	70-130	
4-Isopropyltoluene	100	111	111	70-130	
sec-Butylbenzene	100	110	110	70-130	
Styrene	100	102	102	70-130	
Tert-amyl methyl ether	100	113	113	70-130	
tert-Butylbenzene	100	112	112	70-130	
Tetrachloroethene	100	88.0	88	70-130	
Tetrahydrofuran	1000	1180	118	70-130	
Toluene	100	94.7	95	70-130	
trans-1,2-Dichloroethene	100	99.9	100	70-130	
trans-1,3-Dichloropropene	100	87.8	88	70-130	
Trichloroethene	100	99.6	100	70-130	
Trichlorofluoromethane	100	82.4	82	70-130	
Vinyl chloride	100	89.4	89	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44720.D

Lab ID: LCSD 360-48522/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	102	102	7	25	70-130	
1,1,1-Trichloroethane	100	89.5	90	6	25	70-130	
1,1,2,2-Tetrachloroethane	100	98.9	99	12	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	77.7	78	6	25	70-130	
1,1,2-Trichloroethane	100	81.6	82	13	25	70-130	
1,1-Dichloroethane	100	108	108	6	25	70-130	
1,1-Dichloroethene	100	93.3	93	6	25	70-130	
1,1-Dichloropropene	100	96.2	96	6	25	70-130	
1,2,3-Trichlorobenzene	100	106	106	10	25	70-130	
1,2,3-Trichloropropane	100	94.8	95	16	25	70-130	
1,2,4-Trichlorobenzene	100	106	106	9	25	70-130	
1,2,4-Trimethylbenzene	100	98.7	99	7	25	70-130	
1,2-Dibromo-3-Chloropropane	100	92.5	92	15	25	70-130	
Ethylene Dibromide	100	74.8	75	13	25	70-130	
1,2-Dichlorobenzene	100	99.0	99	7	25	70-130	
1,2-Dichloroethane	100	91.7	92	11	25	70-130	
Acetone	1000	643	64	16	25	70-130	*
1,2-Dichloropropane	100	119	119	9	25	70-130	
1,3,5-Trimethylbenzene	100	103	103	7	25	70-130	
1,3-Dichlorobenzene	100	91.6	92	9	25	70-130	
1,3-Dichloropropane	100	82.6	83	13	25	70-130	
1,4-Dichlorobenzene	100	95.9	96	6	25	70-130	
1,4-Dioxane	1000	1080	108	3	25	70-130	
2,2-Dichloropropane	100	85.7	86	8	25	70-130	
2,4,4-Trimethyl-1-pentene	100	104	104	5	25	70-130	
2,4,4-Trimethyl-2-pentene	100	89.4	89	5	25	70-130	
2-Chlorotoluene	100	101	101	7	25	70-130	
2-Hexanone	1000	706	71	17	25	70-130	
4-Chlorotoluene	100	98.3	98	6	25	70-130	
Benzene	100	94.5	95	7	25	70-130	
Bromobenzene	100	98.9	99	8	25	70-130	
Chlorobromomethane	100	83.0	83	10	25	70-130	
Dichlorobromomethane	100	90.0	90	10	25	70-130	
Bromoform	100	88.2	88	11	25	70-130	
Bromomethane	100	101	101	4	25	70-130	
n-Butylbenzene	100	110	110	4	25	70-130	
Carbon disulfide	100	94.5	95	5	25	70-130	
Carbon tetrachloride	100	91.2	91	6	25	70-130	
Chlorobenzene	100	96.8	97	6	25	70-130	
Chloroethane	100	94.2	94	7	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44720.D

Lab ID: LCSD 360-48522/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	99.8	100	9	25	70-130	
Chloromethane	100	94.9	95	2	25	70-130	
cis-1,2-Dichloroethene	100	99.5	99	9	25	70-130	
cis-1,3-Dichloropropene	100	84.9	85	9	25	70-130	
Cyclohexane	100	89.9	90	0	25	70-130	
Chlorodibromomethane	100	74.7	75	13	25	70-130	
Dibromomethane	100	87.2	87	12	25	70-130	
Dichlorodifluoromethane	100	45.9	46	7	25	70-130	*
Ethyl ether	100	89.9	90	11	25	70-130	
Isopropyl ether	100	96.1	96	8	25	70-130	
Tert-butyl ethyl ether	100	102	102	12	25	70-130	
Ethylbenzene	100	109	109	6	25	70-130	
Hexachlorobutadiene	100	103	103	3	25	70-130	
Isopropylbenzene	100	105	105	6	25	70-130	
Methyl acetate	1000	915	92	10	25	70-130	
2-Butanone (MEK)	1000	807	81	16	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	883	88	19	25	70-130	
Methyl tert-butyl ether	100	94.0	94	14	25	70-130	
Methylcyclohexane	100	87.2	87	1	25	70-130	
Methylene Chloride	100	103	103	9	25	70-130	
m-Xylene & p-Xylene	200	217	108	6	25	70-130	
Naphthalene	100	95.6	96	13	25	70-130	
N-Propylbenzene	100	103	103	6	25	70-130	
o-Xylene	100	103	103	6	25	70-130	
4-Isopropyltoluene	100	105	105	6	25	70-130	
sec-Butylbenzene	100	102	102	7	25	70-130	
Styrene	100	94.9	95	7	25	70-130	
Tert-amyl methyl ether	100	98.2	98	14	25	70-130	
tert-Butylbenzene	100	106	106	5	25	70-130	
Tetrachloroethene	100	81.6	82	8	25	70-130	
Tetrahydrofuran	1000	1030	103	13	25	70-130	
Toluene	100	88.6	89	7	25	70-130	
trans-1,2-Dichloroethene	100	93.9	94	6	25	70-130	
trans-1,3-Dichloropropene	100	80.4	80	9	25	70-130	
Trichloroethene	100	93.9	94	6	25	70-130	
Trichlorofluoromethane	100	76.7	77	7	25	70-130	
Vinyl chloride	100	86.0	86	4	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V07482.D

Lab ID: LCS 360-48640/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	94.7	95	70-130	
1,1,1-Trichloroethane	100	83.7	84	70-130	
1,1,2,2-Tetrachloroethane	100	95.4	95	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	70.1	70	70-130	
1,1,2-Trichloroethane	100	98.0	98	70-130	
1,1-Dichloroethane	100	94.7	95	70-130	
1,1-Dichloroethene	100	84.8	85	70-130	
1,1-Dichloropropene	100	91.7	92	70-130	
1,2,3-Trichlorobenzene	100	109	109	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	106	106	70-130	
1,2,4-Trimethylbenzene	100	94.4	94	70-130	
1,2-Dibromo-3-Chloropropane	100	98.8	99	70-130	
Ethylene Dibromide	100	101	101	70-130	
1,2-Dichlorobenzene	100	96.3	96	70-130	
1,2-Dichloroethane	100	94.8	95	70-130	
Acetone	1000	538	54	70-130	*
1,2-Dichloropropane	100	101	101	70-130	
1,3,5-Trimethylbenzene	100	93.0	93	70-130	
1,3-Dichlorobenzene	100	96.8	97	70-130	
1,3-Dichloropropane	100	101	101	70-130	
1,4-Dichlorobenzene	100	95.3	95	70-130	
1,4-Dioxane	1000	1150	115	70-130	
2,2-Dichloropropane	100	77.3	77	70-130	
2,4,4-Trimethyl-1-pentene	100	72.1	72	70-130	
2,4,4-Trimethyl-2-pentene	100	77.6	78	70-130	
2-Chlorotoluene	100	92.2	92	70-130	
2-Hexanone	1000	885	88	70-130	
4-Chlorotoluene	100	95.3	95	70-130	
Benzene	100	97.2	97	70-130	
Bromobenzene	100	93.7	94	70-130	
Chlorobromomethane	100	98.6	99	70-130	
Dichlorobromomethane	100	96.4	96	70-130	
Bromoform	100	97.3	97	70-130	
Bromomethane	100	81.5	81	70-130	
n-Butylbenzene	100	92.1	92	70-130	
Carbon disulfide	100	91.2	91	70-130	
Carbon tetrachloride	100	80.4	80	70-130	
Chlorobenzene	100	95.8	96	70-130	
Chloroethane	100	78.3	78	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V07482.D

Lab ID: LCS 360-48640/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	97.8	98	70-130	
Chloromethane	100	78.4	78	70-130	
cis-1,2-Dichloroethene	100	95.9	96	70-130	
cis-1,3-Dichloropropene	100	99.3	99	70-130	
Cyclohexane	100	85.0	85	70-130	
Chlorodibromomethane	100	94.8	95	70-130	
Dibromomethane	100	96.3	96	70-130	
Dichlorodifluoromethane	100	43.8	44	70-130	*
Ethyl ether	100	98.5	99	70-130	
Isopropyl ether	100	100	100	70-130	
Tert-butyl ethyl ether	100	102	102	70-130	
Ethylbenzene	100	91.2	91	70-130	
Hexachlorobutadiene	100	112	112	70-130	
Isopropylbenzene	100	94.5	95	70-130	
Methyl acetate	1000	1090	109	70-130	
2-Butanone (MEK)	1000	814	81	70-130	
4-Methyl-2-pentanone (MIBK)	1000	880	88	70-130	
Methyl tert-butyl ether	100	101	101	70-130	
Methylcyclohexane	100	83.3	83	70-130	
Methylene Chloride	100	103	103	70-130	
m-Xylene & p-Xylene	200	188	94	70-130	
Naphthalene	100	109	109	70-130	
N-Propylbenzene	100	90.7	91	70-130	
o-Xylene	100	96.8	97	70-130	
4-Isopropyltoluene	100	96.3	96	70-130	
sec-Butylbenzene	100	89.3	89	70-130	
Styrene	100	99.4	99	70-130	
Tert-amyl methyl ether	100	105	105	70-130	
tert-Butylbenzene	100	93.8	94	70-130	
Tetrachloroethene	100	89.6	90	70-130	
Tetrahydrofuran	1000	1010	101	70-130	
Toluene	100	94.3	94	70-130	
trans-1,2-Dichloroethene	100	91.4	91	70-130	
trans-1,3-Dichloropropene	100	101	101	70-130	
Trichloroethene	100	93.4	93	70-130	
Trichlorofluoromethane	100	64.9	65	70-130	*
Vinyl chloride	100	82.3	82	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V07483.D

Lab ID: LCSD 360-48640/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	103	103	9	25	70-130	
1,1,1-Trichloroethane	100	91.7	92	9	25	70-130	
1,1,2,2-Tetrachloroethane	100	105	105	9	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	77.9	78	11	25	70-130	
1,1,2-Trichloroethane	100	105	105	7	25	70-130	
1,1-Dichloroethane	100	102	102	7	25	70-130	
1,1-Dichloroethene	100	90.9	91	7	25	70-130	
1,1-Dichloropropene	100	98.1	98	7	25	70-130	
1,2,3-Trichlorobenzene	100	119	119	9	25	70-130	
1,2,3-Trichloropropane	100	123	123	13	25	70-130	
1,2,4-Trichlorobenzene	100	115	115	8	25	70-130	
1,2,4-Trimethylbenzene	100	104	104	10	25	70-130	
1,2-Dibromo-3-Chloropropane	100	109	109	10	25	70-130	
Ethylene Dibromide	100	108	108	7	25	70-130	
1,2-Dichlorobenzene	100	105	105	9	25	70-130	
1,2-Dichloroethane	100	101	101	6	25	70-130	
Acetone	1000	676	68	23	25	70-130	*
1,2-Dichloropropane	100	107	107	6	25	70-130	
1,3,5-Trimethylbenzene	100	103	103	10	25	70-130	
1,3-Dichlorobenzene	100	106	106	9	25	70-130	
1,3-Dichloropropane	100	108	108	7	25	70-130	
1,4-Dichlorobenzene	100	103	103	8	25	70-130	
1,4-Dioxane	1000	1490	149	26	25	70-130	*
2,2-Dichloropropane	100	88.5	89	14	25	70-130	
2,4,4-Trimethyl-1-pentene	100	77.5	77	7	25	70-130	
2,4,4-Trimethyl-2-pentene	100	84.2	84	8	25	70-130	
2-Chlorotoluene	100	102	102	11	25	70-130	
2-Hexanone	1000	950	95	7	25	70-130	
4-Chlorotoluene	100	105	105	10	25	70-130	
Benzene	100	105	105	7	25	70-130	
Bromobenzene	100	103	103	10	25	70-130	
Chlorobromomethane	100	107	107	8	25	70-130	
Dichlorobromomethane	100	102	102	6	25	70-130	
Bromoform	100	103	103	5	25	70-130	
Bromomethane	100	103	103	23	25	70-130	
n-Butylbenzene	100	99.6	100	8	25	70-130	
Carbon disulfide	100	98.3	98	8	25	70-130	
Carbon tetrachloride	100	87.2	87	8	25	70-130	
Chlorobenzene	100	102	102	6	25	70-130	
Chloroethane	100	96.0	96	20	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V07483.D

Lab ID: LCSD 360-48640/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	104	104	6	25	70-130	
Chloromethane	100	93.1	93	17	25	70-130	
cis-1,2-Dichloroethene	100	105	105	9	25	70-130	
cis-1,3-Dichloropropene	100	104	104	5	25	70-130	
Cyclohexane	100	84.9	85	0	25	70-130	
Chlorodibromomethane	100	101	101	6	25	70-130	
Dibromomethane	100	105	105	9	25	70-130	
Dichlorodifluoromethane	100	50.0	50	13	25	70-130	*
Ethyl ether	100	108	108	9	25	70-130	
Isopropyl ether	100	110	110	10	25	70-130	
Tert-butyl ethyl ether	100	112	112	9	25	70-130	
Ethylbenzene	100	98.9	99	8	25	70-130	
Hexachlorobutadiene	100	120	120	7	25	70-130	
Isopropylbenzene	100	104	104	10	25	70-130	
Methyl acetate	1000	1110	111	2	25	70-130	
2-Butanone (MEK)	1000	907	91	11	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	974	97	10	25	70-130	
Methyl tert-butyl ether	100	110	110	9	25	70-130	
Methylcyclohexane	100	84.4	84	1	25	70-130	
Methylene Chloride	100	111	111	8	25	70-130	
m-Xylene & p-Xylene	200	202	101	8	25	70-130	
Naphthalene	100	118	118	8	25	70-130	
N-Propylbenzene	100	101	101	11	25	70-130	
o-Xylene	100	106	106	9	25	70-130	
4-Isopropyltoluene	100	108	108	12	25	70-130	
sec-Butylbenzene	100	99.2	99	10	25	70-130	
Styrene	100	107	107	7	25	70-130	
Tert-amyl methyl ether	100	116	116	10	25	70-130	
tert-Butylbenzene	100	105	105	11	25	70-130	
Tetrachloroethene	100	95.2	95	6	25	70-130	
Tetrahydrofuran	1000	1110	111	9	25	70-130	
Toluene	100	101	101	7	25	70-130	
trans-1,2-Dichloroethene	100	99.3	99	8	25	70-130	
trans-1,3-Dichloropropene	100	104	104	3	25	70-130	
Trichloroethene	100	99.8	100	7	25	70-130	
Trichlorofluoromethane	100	78.2	78	19	25	70-130	
Vinyl chloride	100	97.3	97	17	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44799.D

Lab ID: LCS 360-48710/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	105	105	70-130	
1,1,1-Trichloroethane	100	95.2	95	70-130	
1,1,2,2-Tetrachloroethane	100	89.3	89	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	94.7	95	70-130	
1,1,2-Trichloroethane	100	89.6	90	70-130	
1,1-Dichloroethane	100	104	104	70-130	
1,1-Dichloroethene	100	100	100	70-130	
1,1-Dichloropropene	100	94.7	95	70-130	
1,2,3-Trichlorobenzene	100	100	100	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	99.7	100	70-130	
1,2,4-Trimethylbenzene	100	100	100	70-130	
1,2-Dibromo-3-Chloropropane	100	87.3	87	70-130	
Ethylene Dibromide	100	90.7	91	70-130	
1,2-Dichlorobenzene	100	95.8	96	70-130	
1,2-Dichloroethane	100	93.0	93	70-130	
Acetone	1000	840	84	70-130	
1,2-Dichloropropane	100	107	107	70-130	
1,3,5-Trimethylbenzene	100	104	104	70-130	
1,3-Dichlorobenzene	100	101	101	70-130	
1,3-Dichloropropane	100	92.1	92	70-130	
1,4-Dichlorobenzene	100	98.0	98	70-130	
1,4-Dioxane	1000	974	97	70-130	
2,2-Dichloropropane	100	110	110	70-130	
2,4,4-Trimethyl-1-pentene	100	111	111	70-130	
2,4,4-Trimethyl-2-pentene	100	100	100	70-130	
2-Chlorotoluene	100	101	101	70-130	
2-Hexanone	1000	802	80	70-130	
4-Chlorotoluene	100	104	104	70-130	
Benzene	100	98.0	98	70-130	
Bromobenzene	100	98.9	99	70-130	
Chlorobromomethane	100	94.4	94	70-130	
Dichlorobromomethane	100	94.5	95	70-130	
Bromoform	100	85.7	86	70-130	
Bromomethane	100	102	102	70-130	
n-Butylbenzene	100	100	100	70-130	
Carbon disulfide	100	98.4	98	70-130	
Carbon tetrachloride	100	95.2	95	70-130	
Chlorobenzene	100	101	101	70-130	
Chloroethane	100	105	105	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44799.D

Lab ID: LCS 360-48710/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	103	103	70-130	
Chloromethane	100	96.4	96	70-130	
cis-1,2-Dichloroethene	100	98.8	99	70-130	
cis-1,3-Dichloropropene	100	93.0	93	70-130	
Cyclohexane	100	101	101	70-130	
Chlorodibromomethane	100	90.5	91	70-130	
Dibromomethane	100	91.2	91	70-130	
Dichlorodifluoromethane	100	61.0	61	70-130	*
Ethyl ether	100	101	101	70-130	
Isopropyl ether	100	94.6	95	70-130	
Tert-butyl ethyl ether	100	94.6	95	70-130	
Ethylbenzene	100	107	107	70-130	
Hexachlorobutadiene	100	98.6	99	70-130	
Isopropylbenzene	100	103	103	70-130	
Methyl acetate	1000	1070	107	70-130	
2-Butanone (MEK)	1000	861	86	70-130	
4-Methyl-2-pentanone (MIBK)	1000	847	85	70-130	
Methyl tert-butyl ether	100	89.4	89	70-130	
Methylcyclohexane	100	101	101	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	201	101	70-130	
Naphthalene	100	90.9	91	70-130	
N-Propylbenzene	100	103	103	70-130	
o-Xylene	100	102	102	70-130	
4-Isopropyltoluene	100	106	106	70-130	
sec-Butylbenzene	100	103	103	70-130	
Styrene	100	100	100	70-130	
Tert-amyl methyl ether	100	93.6	94	70-130	
tert-Butylbenzene	100	106	106	70-130	
Tetrachloroethene	100	99.6	100	70-130	
Tetrahydrofuran	1000	970	97	70-130	
Toluene	100	100	100	70-130	
trans-1,2-Dichloroethene	100	95.2	95	70-130	
trans-1,3-Dichloropropene	100	92.4	92	70-130	
Trichloroethene	100	98.1	98	70-130	
Trichlorofluoromethane	100	93.1	93	70-130	
Vinyl chloride	100	97.8	98	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44800.D

Lab ID: LCSD 360-48710/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	108	108	3	25	70-130	
1,1,1-Trichloroethane	100	95.9	96	1	25	70-130	
1,1,2,2-Tetrachloroethane	100	97.6	98	9	25	70-130	
1,1,2-Trichloro-1,2,2-trifluor oethane	100	92.3	92	3	25	70-130	
1,1,2-Trichloroethane	100	101	101	12	25	70-130	
1,1-Dichloroethane	100	106	106	2	25	70-130	
1,1-Dichloroethene	100	98.9	99	1	25	70-130	
1,1-Dichloropropene	100	95.6	96	1	25	70-130	
1,2,3-Trichlorobenzene	100	106	106	5	25	70-130	
1,2,3-Trichloropropane	100	119	119	10	25	70-130	
1,2,4-Trichlorobenzene	100	105	105	5	25	70-130	
1,2,4-Trimethylbenzene	100	100	100	0	25	70-130	
1,2-Dibromo-3-Chloropropane	100	98.8	99	12	25	70-130	
Ethylene Dibromide	100	100	100	10	25	70-130	
1,2-Dichlorobenzene	100	100	100	5	25	70-130	
1,2-Dichloroethane	100	100	100	7	25	70-130	
Acetone	1000	826	83	2	25	70-130	
1,2-Dichloropropane	100	111	111	4	25	70-130	
1,3,5-Trimethylbenzene	100	103	103	0	25	70-130	
1,3-Dichlorobenzene	100	101	101	0	25	70-130	
1,3-Dichloropropane	100	99.0	99	7	25	70-130	
1,4-Dichlorobenzene	100	102	102	4	25	70-130	
1,4-Dioxane	1000	912	91	7	25	70-130	
2,2-Dichloropropane	100	109	109	0	25	70-130	
2,4,4-Trimethyl-1-pentene	100	109	109	1	25	70-130	
2,4,4-Trimethyl-2-pentene	100	98.7	99	2	25	70-130	
2-Chlorotoluene	100	101	101	0	25	70-130	
2-Hexanone	1000	931	93	15	25	70-130	
4-Chlorotoluene	100	104	104	0	25	70-130	
Benzene	100	99.6	100	2	25	70-130	
Bromobenzene	100	101	101	2	25	70-130	
Chlorobromomethane	100	99.8	100	5	25	70-130	
Dichlorobromomethane	100	101	101	7	25	70-130	
Bromoform	100	92.1	92	7	25	70-130	
Bromomethane	100	104	104	2	25	70-130	
n-Butylbenzene	100	101	101	1	25	70-130	
Carbon disulfide	100	98.0	98	0	25	70-130	
Carbon tetrachloride	100	93.5	94	2	25	70-130	
Chlorobenzene	100	103	103	2	25	70-130	
Chloroethane	100	104	104	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44800.D

Lab ID: LCSD 360-48710/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	103	103	0	25	70-130	
Chloromethane	100	97.3	97	1	25	70-130	
cis-1,2-Dichloroethene	100	100	100	1	25	70-130	
cis-1,3-Dichloropropene	100	98.3	98	6	25	70-130	
Cyclohexane	100	92.1	92	9	25	70-130	
Chlorodibromomethane	100	97.1	97	7	25	70-130	
Dibromomethane	100	98.7	99	8	25	70-130	
Dichlorodifluoromethane	100	62.4	62	2	25	70-130	*
Ethyl ether	100	110	110	9	25	70-130	
Isopropyl ether	100	98.8	99	4	25	70-130	
Tert-butyl ethyl ether	100	101	101	6	25	70-130	
Ethylbenzene	100	105	105	1	25	70-130	
Hexachlorobutadiene	100	99.9	100	1	25	70-130	
Isopropylbenzene	100	103	103	0	25	70-130	
Methyl acetate	1000	1040	104	2	25	70-130	
2-Butanone (MEK)	1000	949	95	10	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	945	94	11	25	70-130	
Methyl tert-butyl ether	100	98.1	98	9	25	70-130	
Methylcyclohexane	100	93.6	94	8	25	70-130	
Methylene Chloride	100	107	107	3	25	70-130	
m-Xylene & p-Xylene	200	201	100	0	25	70-130	
Naphthalene	100	101	101	10	25	70-130	
N-Propylbenzene	100	103	103	0	25	70-130	
o-Xylene	100	101	101	0	25	70-130	
4-Isopropyltoluene	100	105	105	1	25	70-130	
sec-Butylbenzene	100	103	103	0	25	70-130	
Styrene	100	102	102	2	25	70-130	
Tert-amyl methyl ether	100	101	101	8	25	70-130	
tert-Butylbenzene	100	106	106	0	25	70-130	
Tetrachloroethene	100	100	100	1	25	70-130	
Tetrahydrofuran	1000	1090	109	11	25	70-130	
Toluene	100	102	102	2	25	70-130	
trans-1,2-Dichloroethene	100	95.5	96	0	25	70-130	
trans-1,3-Dichloropropene	100	102	102	10	25	70-130	
Trichloroethene	100	99.9	100	2	25	70-130	
Trichlorofluoromethane	100	93.2	93	0	25	70-130	
Vinyl chloride	100	96.6	97	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/30/10
TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44629.D

Lab ID: 360-24309-23 MS Client ID: OC-SB-430-8.0/10-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	83.6	ND	81.9	98	70-130	
1,1,1-Trichloroethane	83.6	ND	71.7	86	70-130	
1,1,2,2-Tetrachloroethane	83.6	ND	80.5	96	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	83.6	ND	57.5	69	70-130	F
1,1,2-Trichloroethane	83.6	ND	65.2	78	70-130	
1,1-Dichloroethane	83.6	ND	85.4	102	70-130	
1,1-Dichloroethene	83.6	ND	74.4	89	70-130	
1,1-Dichloropropene	83.6	ND	73.6	88	70-130	
1,2,3-Trichlorobenzene	83.6	ND	60.5	72	70-130	
1,2,3-Trichloropropane	83.6	ND	79.5	95	70-130	
1,2,4-Trichlorobenzene	83.6	ND	59.4	71	70-130	
1,2,4-Trimethylbenzene	83.6	ND	71.0	85	70-130	
1,2-Dibromo-3-Chloropropane	83.6	ND	76.3	91	70-130	
Ethylene Dibromide	83.6	ND	60.3	72	70-130	
1,2-Dichlorobenzene	83.6	ND	68.1	81	70-130	
1,2-Dichloroethane	83.6	ND	75.2	90	70-130	
Acetone	836	ND	586	70	70-130	
1,2-Dichloropropane	83.6	ND	93.3	112	70-130	
1,3,5-Trimethylbenzene	83.6	ND	73.8	88	70-130	
1,3-Dichlorobenzene	83.6	ND	64.1	77	70-130	
1,3-Dichloropropane	83.6	ND	66.2	79	70-130	
1,4-Dichlorobenzene	83.6	ND	64.8	77	70-130	
1,4-Dioxane	836	ND	864	103	70-130	
2,2-Dichloropropane	83.6	ND	70.6	84	70-130	
2,4,4-Trimethyl-1-pentene	83.6	ND	65.8	79	70-130	
2,4,4-Trimethyl-2-pentene	83.6	ND	57.8	69	70-130	F
2-Chlorotoluene	83.6	ND	72.2	86	70-130	
2-Hexanone	836	ND	610	73	70-130	
4-Chlorotoluene	83.6	ND	69.4	83	70-130	
Benzene	83.6	ND	74.5	89	70-130	
Bromobenzene	83.6	ND	72.7	87	70-130	
Chlorobromomethane	83.6	ND	70.0	84	70-130	
Dichlorobromomethane	83.6	ND	72.2	86	70-130	
Bromoform	83.6	ND	67.9	81	70-130	
Bromomethane	83.6	ND	84.5	101	70-130	
n-Butylbenzene	83.6	ND	63.0	75	70-130	
Carbon disulfide	83.6	ND	67.6	81	70-130	
Carbon tetrachloride	83.6	ND	71.0	85	70-130	
Chlorobenzene	83.6	ND	72.1	86	70-130	
Chloroethane	83.6	ND	78.7	94	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
3/30/10

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44629.D

Lab ID: 360-24309-23 MS Client ID: OC-SB-430-8.0/10-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloroform	83.6	ND	79.2	95	70-130	
Chloromethane	83.6	ND	76.6	92	70-130	
cis-1,2-Dichloroethene	83.6	ND	78.0	93	70-130	
cis-1,3-Dichloropropene	83.6	ND	64.2	77	70-130	
Cyclohexane	83.6	ND	68.1	81	70-130	
Chlorodibromomethane	83.6	ND	61.1	73	70-130	
Dibromomethane	83.6	ND	69.6	83	70-130	
Dichlorodifluoromethane	83.6	ND	45.4	54	70-130	F
Ethyl ether	83.6	ND	77.7	93	70-130	
Isopropyl ether	83.6	ND	79.2	95	70-130	
Tert-butyl ethyl ether	83.6	ND	87.0	104	70-130	
Ethylbenzene	83.6	ND	79.8	96	70-130	
Hexachlorobutadiene	83.6	ND	46.2	55	70-130	F
Isopropylbenzene	83.6	ND	76.1	91	70-130	
Methyl acetate	836	ND	834	100	70-130	
2-Butanone (MEK)	836	ND	719	86	70-130	
4-Methyl-2-pentanone (MIBK)	836	ND	776	93	70-130	
Methyl tert-butyl ether	83.6	ND	81.6	98	70-130	
Methylcyclohexane	83.6	ND	61.8	74	70-130	
Methylene Chloride	83.6	ND	89.8	107	70-130	
m-Xylene & p-Xylene	167	ND	160	96	70-130	
Naphthalene	83.6	ND	65.4	78	70-130	
N-Propylbenzene	83.6	ND	71.5	85	70-130	
o-Xylene	83.6	ND	77.7	93	70-130	
4-Isopropyltoluene	83.6	ND	70.4	84	70-130	
sec-Butylbenzene	83.6	ND	69.4	83	70-130	
Styrene	83.6	ND	68.6	82	70-130	
Tert-amyl methyl ether	83.6	ND	84.5	101	70-130	
tert-Butylbenzene	83.6	ND	76.4	91	70-130	
Tetrachloroethene	83.6	ND	58.8	70	70-130	
Tetrahydrofuran	836	ND	866	104	70-130	
Toluene	83.6	ND	67.8	81	70-130	
trans-1,2-Dichloroethene	83.6	ND	71.0	85	70-130	
trans-1,3-Dichloropropene	83.6	ND	60.0	72	70-130	
Trichloroethene	83.6	ND	70.4	84	70-130	
Trichlorofluoromethane	83.6	ND	69.8	83	70-130	
Vinyl chloride	83.6	ND	71.3	85	70-130	

TC
3/30/10

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44630.D

Lab ID: 360-24309-23 MSD Client ID: OC-SB-430-8.0/10-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	88.2	79.8	91	3	30	70-130	
1,1,1-Trichloroethane	88.2	71.8	81	0	30	70-130	
1,1,2,2-Tetrachloroethane	88.2	84.7	96	5	30	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	88.2	57.7	65	0	30	70-130	F
1,1,2-Trichloroethane	88.2	71.8	81	10	30	70-130	
1,1-Dichloroethane	88.2	88.4	100	4	30	70-130	
1,1-Dichloroethene	88.2	78.7	89	6	30	70-130	
1,1-Dichloropropene	88.2	80.1	91	8	30	70-130	
1,2,3-Trichlorobenzene	88.2	57.3	65	6	30	70-130	F
1,2,3-Trichloropropane	88.2	77.0	87	3	30	70-130	
1,2,4-Trichlorobenzene	88.2	58.8	67	1	30	70-130	F
1,2,4-Trimethylbenzene	88.2	68.5	78	4	30	70-130	
1,2-Dibromo-3-Chloropropane	88.2	77.7	88	2	30	70-130	
Ethylene Dibromide	88.2	68.8	78	13	30	70-130	
1,2-Dichlorobenzene	88.2	70.9	80	4	30	70-130	
1,2-Dichloroethane	88.2	79.4	90	5	30	70-130	
Acetone	882	539	61	8	30	70-130	F
1,2-Dichloropropane	88.2	97.8	111	5	30	70-130	
1,3,5-Trimethylbenzene	88.2	71.3	81	3	30	70-130	
1,3-Dichlorobenzene	88.2	61.9	70	4	30	70-130	
1,3-Dichloropropane	88.2	73.9	84	11	30	70-130	
1,4-Dichlorobenzene	88.2	69.9	79	8	30	70-130	
1,4-Dioxane	882	871	99	1	30	70-130	
2,2-Dichloropropane	88.2	66.1	75	7	30	70-130	
2,4,4-Trimethyl-1-pentene	88.2	63.9	72	3	30	70-130	
2,4,4-Trimethyl-2-pentene	88.2	59.1	67	2	30	70-130	F
2-Chlorotoluene	88.2	71.1	81	2	30	70-130	
2-Hexanone	882	649	74	6	30	70-130	
4-Chlorotoluene	88.2	68.7	78	1	30	70-130	
Benzene	88.2	79.3	90	6	30	70-130	
Bromobenzene	88.2	72.5	82	0	30	70-130	
Chlorobromomethane	88.2	70.9	80	1	30	70-130	
Dichlorobromomethane	88.2	77.8	88	7	30	70-130	
Bromoform	88.2	79.1	90	15	30	70-130	
Bromomethane	88.2	68.5	78	21	30	70-130	
n-Butylbenzene	88.2	66.9	76	6	30	70-130	
Carbon disulfide	88.2	73.3	83	8	30	70-130	
Carbon tetrachloride	88.2	75.4	86	6	30	70-130	
Chlorobenzene	88.2	77.1	87	7	30	70-130	
Chloroethane	88.2	69.0	78	13	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
3/30/10

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Matrix: Solid Level: Low Lab File ID: V44630.D

Lab ID: 360-24309-23 MSD Client ID: OC-SB-430-8.0/10-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	88.2	81.5	92	3	30	70-130	
Chloromethane	88.2	69.7	79	9	30	70-130	
cis-1,2-Dichloroethene	88.2	80.8	92	4	30	70-130	
cis-1,3-Dichloropropene	88.2	74.4	84	15	30	70-130	
Cyclohexane	88.2	71.7	81	5	30	70-130	
Chlorodibromomethane	88.2	67.0	76	9	30	70-130	
Dibromomethane	88.2	74.6	85	7	30	70-130	
Dichlorodifluoromethane	88.2	46.2	52	2	30	70-130	F
Ethyl ether	88.2	78.3	89	1	30	70-130	
Isopropyl ether	88.2	79.0	90	0	30	70-130	
Tert-butyl ethyl ether	88.2	84.8	96	3	30	70-130	
Ethylbenzene	88.2	82.9	94	4	30	70-130	
Hexachlorobutadiene	88.2	44.1	50	5	30	70-130	F
Isopropylbenzene	88.2	75.7	86	1	30	70-130	
Methyl acetate	882	886	100	6	30	70-130	
2-Butanone (MEK)	882	717	81	0	30	70-130	
4-Methyl-2-pentanone (MIBK)	882	769	87	1	30	70-130	
Methyl tert-butyl ether	88.2	78.3	89	4	30	70-130	
Methylcyclohexane	88.2	65.0	74	5	30	70-130	
Methylene Chloride	88.2	89.4	101	0	30	70-130	
m-Xylene & p-Xylene	176	165	94	3	30	70-130	
Naphthalene	88.2	63.2	72	3	30	70-130	
N-Propylbenzene	88.2	71.4	81	0	30	70-130	
o-Xylene	88.2	77.7	88	0	30	70-130	
4-Isopropyltoluene	88.2	67.3	76	5	30	70-130	
sec-Butylbenzene	88.2	66.6	76	4	30	70-130	
Styrene	88.2	72.4	82	5	30	70-130	
Tert-amyl methyl ether	88.2	81.0	92	4	30	70-130	
tert-Butylbenzene	88.2	73.2	83	4	30	70-130	
Tetrachloroethene	88.2	68.1	77	15	30	70-130	
Tetrahydrofuran	882	870	99	0	30	70-130	
Toluene	88.2	74.3	84	9	30	70-130	
trans-1,2-Dichloroethene	88.2	73.1	83	3	30	70-130	
trans-1,3-Dichloropropene	88.2	71.2	81	17	30	70-130	
Trichloroethene	88.2	76.4	87	8	30	70-130	
Trichlorofluoromethane	88.2	67.0	76	4	30	70-130	
Vinyl chloride	88.2	72.5	82	2	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
3/30/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48354/2 Date Analyzed: 08/29/2009 02:03

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44575.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		21627	5.66	482491	5.89	292934	8.34
UPPER LIMIT		43254	6.16	964982	6.39	585868	8.84
LOWER LIMIT		10814	5.16	241246	5.39	146467	7.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48353/1-A		20763	5.66	459717	5.89	265477	8.34
LCSD 360-48353/2-A		21337	5.67	477090	5.89	299190	8.34
MB 360-48353/3-A		18849	5.66	410877	5.89	244301	8.34
360-24309-2	OC-SB-400-5.0/7.0-XXX	18666	5.67	401704	5.89	237136	8.34
360-24309-4	OC-SB-401-7.5/9.5-XXX	18333	5.67	394917	5.89	224434	8.34
360-24309-6	OC-SB-402-7.5/9.5-XXX	18866	5.66	414937	5.90	246542	8.34
360-24309-9	OC-SB-407-8.0/10.0-XXX	17894	5.67	413237	5.89	239758	8.34
360-24309-11	OC-SB-408-7.0/9.9-XXX	18317	5.67	403483	5.89	225751	8.34
360-24309-14	OC-SB-414-6.0/8.0-XXX	18688	5.67	391463	5.90	229501	8.34
360-24309-17	OC-SB-422-6.0/8.0-XXX	18406	5.67	397467	5.90	226094	8.34
360-24309-19	OC-SB-429-6.0/8.0-XXX	18654	5.67	410705	5.90	233965	8.34
360-24309-22	OC-SB-430-8.0/10-DUP	18045	5.67	404353	5.90	237488	8.34

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/30/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48354/2 Date Analyzed: 08/29/2009 02:03

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44575.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		148962	10.15				
UPPER LIMIT		297924	10.65				
LOWER LIMIT		74481	9.65				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48353/1-A		143884	10.15				
LCSD 360-48353/2-A		146782	10.15				
MB 360-48353/3-A		136660	10.15				
360-24309-2	OC-SB-400-5.0/7.0-XXX	131414	10.15				
360-24309-4	OC-SB-401-7.5/9.5-XXX	126931	10.15				
360-24309-6	OC-SB-402-7.5/9.5-XXX	132042	10.15				
360-24309-9	OC-SB-407-8.0/10.0-XXX	124565	10.15				
360-24309-11	OC-SB-408-7.0/9.9-XXX	127308	10.15				
360-24309-14	OC-SB-414-6.0/8.0-XXX	129047	10.15				
360-24309-17	OC-SB-422-6.0/8.0-XXX	121302	10.15				
360-24309-19	OC-SB-429-6.0/8.0-XXX	125218	10.15				
360-24309-22	OC-SB-430-8.0/10-DUP	126786	10.15				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/30/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48407/2 Date Analyzed: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44626.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22012	5.65	503638	5.88	293455	8.32
UPPER LIMIT		44024	6.15	1007276	6.38	586910	8.82
LOWER LIMIT		11006	5.15	251819	5.38	146728	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48405/1-A		23323	5.65	505359	5.88	285506	8.33
LCSD 360-48405/2-A		24645	5.65	518108	5.88	303717	8.32
360-24309-23 MS	OC-SB-430-8.0/10-XXX MS	22360	5.65	493424	5.88	277382	8.32
360-24309-23 MSD	OC-SB-430-8.0/10-XXX MSD	24285	5.65	537868	5.88	314260	8.33
MB 360-48405/3-A		18902	5.65	416254	5.88	243617	8.32
360-24309-23	OC-SB-430-8.0/10-XXX	20521	5.65	445099	5.88	256002	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 3/30/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48407/2 Date Analyzed: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44626.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		152860	10.14				
UPPER LIMIT		305720	10.64				
LOWER LIMIT		76430	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48405/1-A		148470	10.14				
LCSD 360-48405/2-A		155061	10.14				
360-24309-23 MS	OC-SB-430-8.0/10-XXX MS	146306	10.14				
360-24309-23 MSD	OC-SB-430-8.0/10-XXX MSD	147268	10.14				
MB 360-48405/3-A		135048	10.14				
360-24309-23	OC-SB-430-8.0/10-XXX	137896	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 3/30/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48469/2 Date Analyzed: 09/01/2009 16:33

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44646.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22402	5.66	510650	5.89	293951	8.33
UPPER LIMIT		44804	6.16	1021300	6.39	587902	8.83
LOWER LIMIT		11201	5.16	255325	5.39	146976	7.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48468/1-A		23361	5.66	514285	5.88	305739	8.33
LCSD 360-48468/2-A		23658	5.65	509074	5.88	291850	8.33
MB 360-48468/3-A		19087	5.65	415268	5.88	248340	8.33
360-24309-24	OC-TBK-008	19785	5.65	434220	5.88	259094	8.33
360-24309-15	OC-SB-422-0.0/1.0-XXX	19561	5.65	431854	5.88	254205	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 3/30/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48469/2 Date Analyzed: 09/01/2009 16:33

Instrument ID: HP #i GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44646.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		155288	10.14				
UPPER LIMIT		310576	10.64				
LOWER LIMIT		77644	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48468/1-A		158206	10.14				
LCSD 360-48468/2-A		153344	10.14				
MB 360-48468/3-A		142980	10.14				
360-24309-24	OC-TBK-008	140922	10.13				
360-24309-15	OC-SB-422-0.0/1.0-XXX	140678	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 3/30/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48524/2 Date Analyzed: 09/03/2009 03:59

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44718.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		23535	5.66	533256	5.88	314107	8.33
UPPER LIMIT		47070	6.16	1066512	6.38	628214	8.83
LOWER LIMIT		11768	5.16	266628	5.38	157054	7.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48522/1-A		23336	5.66	496798	5.88	282099	8.33
LCSD 360-48522/2-A		23569	5.65	539043	5.89	303120	8.33
MB 360-48522/3-A		21011	5.65	450767	5.88	269475	8.33
360-24309-24	OC-TBK-008	18519	5.65	421739	5.88	245817	8.32
360-24309-12	OC-SB-414-0.0/1.0-XXX	20141	5.65	426937	5.88	239377	8.33
360-24309-15	OC-SB-422-0.0/1.0-XXX	19516	5.65	424529	5.88	244708	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

8/30/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48524/2 Date Analyzed: 09/03/2009 03:59

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44718.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		149474	10.14				
UPPER LIMIT		298948	10.64				
LOWER LIMIT		74737	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48522/1-A		145878	10.14				
LCSD 360-48522/2-A		151594	10.14				
MB 360-48522/3-A		137450	10.14				
360-24309-24	OC-TBK-008	133909	10.14				
360-24309-12	OC-SB-414-0.0/1.0-XXX	134089	10.14				
360-24309-15	OC-SB-422-0.0/1.0-XXX	133783	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/30/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48711/2 Date Analyzed: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44798.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		23523	5.65	535921	5.88	339021	8.32
UPPER LIMIT		47046	6.15	1071842	6.38	678042	8.82
LOWER LIMIT		11762	5.15	267961	5.38	169511	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48710/1-A		19516	5.65	472049	5.88	281506	8.32
LCSD 360-48710/2-A		21446	5.65	500977	5.88	306473	8.32
MB 360-48710/3-A		20326	5.65	472610	5.88	289005	8.32
360-24309-20	OC-SB-430-0.0/1.0-XXX	21134	5.65	486165	5.88	295902	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

3/30/10 TC

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48711/2 Date Analyzed: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44798.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		150244	10.14				
UPPER LIMIT		300488	10.64				
LOWER LIMIT		75122	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48710/1-A		133039	10.13				
LCSD 360-48710/2-A		142604	10.13				
MB 360-48710/3-A		136070	10.13				
360-24309-20	OC-SB-430-0.0/1.0-XXX	133653	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 3/30/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48642/2 Date Analyzed: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V07481.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		6961	6.10	210332	6.42	166060	9.47
UPPER LIMIT		13922	6.60	420664	6.92	332120	9.97
LOWER LIMIT		3481	5.60	105166	5.92	83030	8.97
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48640/1-A		7949	6.10	230701	6.42	180990	9.47
LCSD 360-48640/2-A		7744	6.10	221770	6.42	175874	9.47
MB 360-48640/3-A		6257	6.10	182968	6.42	147990	9.47
360-24309-1	OC-SB-400-0.0/1.0-XXX	4947	6.10	146525	6.42	118752	9.47
360-24309-3	OC-SB-401-0.0/1.0-XXX	5344	6.09	154845	6.41	121082	9.47
360-24309-5	OC-SB-402-0.0/1.0-XXX	5151	6.10	147021	6.42	118142	9.47
360-24309-7	OC-SB-407-0.0/1.0-XXX	4944	6.10	144972	6.41	115943	9.46
360-24309-10	OC-SB-408-0.0/1.0-XXX	4653	6.10	146899	6.42	116149	9.47

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/30/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Sample No.: CCVIS 360-48642/2 Date Analyzed: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V07481.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		95510	11.44				
UPPER LIMIT		191020	11.94				
LOWER LIMIT		47755	10.94				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48640/1-A		100487	11.43				
LCSD 360-48640/2-A		100233	11.43				
MB 360-48640/3-A		84747	11.43				
360-24309-1	OC-SB-400-0.0/1.0-XXX	69536	11.43				
360-24309-3	OC-SB-401-0.0/1.0-XXX	68605	11.43				
360-24309-5	OC-SB-402-0.0/1.0-XXX	66566	11.44				
360-24309-7	OC-SB-407-0.0/1.0-XXX	66055	11.43				
360-24309-10	OC-SB-408-0.0/1.0-XXX	65013	11.43				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/30/10 TC

FORM VIII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3185		80.5	100	-19.5	30.0
Chloromethane	Lin		0.6163	0.1000	105	100	5.0	30.0
Vinyl chloride	Lin		0.4966		114	100	14.2	30.0
Bromomethane	Lin		0.3408		119	100	19.2	30.0
Chloroethane	Lin		0.2747		116	100	16.2	30.0
Trichlorofluoromethane	Lin		0.5399		123	100	22.5	30.0
Ethyl ether	Ave	0.1998	0.1939		97.1	100	-2.9	30.0
1,1-Dichloroethene	Lin		0.3745		118	100	18.5	30.0
Carbon disulfide	Ave	1.172	1.267		108	100	8.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.2479		123	100	23.1	30.0
Acrolein	Lin1		0.5439		5400	5000	8.1	30.0
Methylene Chloride	Lin		0.4442		135	100	35.2*	30.0
Acetone	Qua		0.0317		539	1000	-46.1*	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5291		100	100	0.2	30.0
Methyl acetate	Lin		0.1085		771	1000	-22.9	30.0
Methyl tert-butyl ether	Lin		0.5479		100	100	0.2	30.0
2-Methyl-2-propanol	Lin1		0.2589		1020	1000	1.8	30.0
Isopropyl ether	Ave	1.438	1.368		95.1	100	-4.9	30.0
1,1-Dichloroethane	Lin		0.6061	0.1000	111	100	10.8	30.0
Acrylonitrile	Lin2		0.0506		98.6	100	-1.4	30.0
Tert-butyl ethyl ether	Lin		0.8849		105	100	4.9	30.0
Vinyl acetate	Lin1		0.3114		1000	1000	0.1	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4686		102	100	2.3	30.0
2,2-Dichloropropane	Qua		0.4611		113	100	12.6	30.0
Chlorobromomethane	Ave	0.1791	0.1703		95.1	100	-4.9	30.0
Cyclohexane	Ave	0.6383	0.6885		108	100	7.9	30.0
Chloroform	Lin		0.5459		106	100	6.2	30.0
Carbon tetrachloride	Ave	0.3593	0.4289		119	100	19.3	30.0
Tetrahydrofuran	Lin1		0.0493		1020	1000	1.7	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.5271		107	100	6.8	30.0
2-Butanone (MEK)	Ave	0.0653	0.0531		813	1000	-18.7	30.0
1,1-Dichloropropene	Ave	0.3849	0.4270		111	100	10.9	30.0
Benzene	Ave	1.175	1.190		101	100	1.3	30.0
Tert-amyl methyl ether	Lin		0.6404		103	100	3.5	30.0
1,2-Dichloroethane	Ave	0.2398	0.2374		99.0	100	-1.0	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.3042		136	100	36.3*	30.0
Methylcyclohexane	Ave	0.5730	0.6256		109	100	9.2	30.0
Trichloroethene	Ave	0.2943	0.3095		105	100	5.2	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.2507		130	100	29.7	30.0
Dibromomethane	Ave	0.1115	0.1095		98.2	100	-1.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2172		120	100	20.1	30.0
Dichlorobromomethane	Ave	0.2830	0.2959		105	100	4.6	30.0
Methyl methacrylate	Ave	0.0593	0.0596		100	100	0.4	30.0
1,4-Dioxane	Ave	0.0211	0.0238		1130	1000	12.9	30.0
2-Chloroethyl vinyl ether	Lin1		0.0457		1040	1000	4.0	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.3015		102	100	1.7	30.0
Toluene	Ave	0.6775	0.7042		104	100	3.9	30.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1246		924	1000	-7.6	30.0
Tetrachloroethene	Ave	0.2090	0.2387		114	100	14.2	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.2257		106	100	6.3	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.1083		99.4	100	-0.6	30.0
Chlorodibromomethane	Ave	0.1624	0.1640		101	100	1.0	30.0
1,3-Dichloropropane	Ave	0.2134	0.2176		102	100	2.0	30.0
Ethylene Dibromide	Ave	0.1323	0.1370		104	100	3.6	30.0
2-Hexanone	Ave	0.0865	0.0728		842	1000	-15.8	30.0
Chlorobenzene	Ave	1.083	1.142	0.3000	106	100	5.5	30.0
Ethylbenzene	Lin		2.057		112	100	12.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3851		101	100	1.0	30.0
m-Xylene & p-Xylene	Lin1		1.586		227	200	13.4	30.0
o-Xylene	Ave	1.735	1.765		102	100	1.7	30.0
Styrene	Ave	1.258	1.318		105	100	4.8	30.0
Bromoform	Ave	0.2952	0.3166	0.1000	107	100	7.3	30.0
Isopropylbenzene	Ave	2.247	2.440		109	100	8.6	30.0
Bromobenzene	Ave	0.7726	0.7757		100	100	0.4	30.0
N-Propylbenzene	Ave	2.529	2.794		110	100	10.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5123	0.3000	99.3	100	-0.7	30.0
2-Chlorotoluene	Ave	1.717	1.772		103	100	3.2	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.983		106	100	5.5	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0707		103	100	3.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0702		96.7	100	-3.3	30.0
4-Chlorotoluene	Ave	1.492	1.571		105	100	5.3	30.0
tert-Butylbenzene	Ave	1.551	1.727		111	100	11.3	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.952		100	100	0.0	30.0
sec-Butylbenzene	Ave	2.541	2.791		110	100	9.9	30.0
4-Isopropyltoluene	Ave	2.050	2.298		112	100	12.1	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9764		99.5	100	-0.5	30.0
1,4-Dichlorobenzene	Ave	1.821	1.930		106	100	6.0	30.0
n-Butylbenzene	Ave	3.711	4.335		117	100	16.8	30.0
1,2-Dichlorobenzene	Ave	1.574	1.619		103	100	2.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0817		99.0	100	-1.0	30.0
Hexachlorobutadiene	Ave	0.5157	0.5799		112	100	12.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: ICV 360-48090/10 Calibration Date: 08/25/2009 15:29

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44456.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.146		107	100	6.6	30.0
Naphthalene	Ave	1.428	1.359		95.2	100	-4.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.8481		105	100	5.0	30.0
Dibromofluoromethane	Ave	0.2595	0.2484		95.7	100	-4.3	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.9048		101	100	1.4	30.0
4-Bromofluorobenzene	Ave	0.5061	0.4900		96.8	100	-3.2	30.0

3/31/10
TC

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Westfield Job No.: 360-24309-1 Analy Batch No.: 48701

SDG No.: OCRI-06

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2009 16:02 Calibration End Date: 09/08/2009 18:49 Calibration ID: 4239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 360-48701/3	V44790.D
Level 2	STD001 360-48701/4	V44791.D
Level 3	STD005 360-48701/5	V44792.D
Level 4	STD010 360-48701/6	V44793.D
Level 5	STD20 360-48701/2	V44788.D
Level 6	STD040 360-48701/7	V44794.D
Level 7	STD080 360-48701/8	V44795.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.5140 0.4691	0.4431 0.4350	0.5215	0.5130	0.4826	Lin1	-0.069	0.4427							0.9910		0.9900
Chloromethane	1.0494 0.8552	0.8501 0.7960	0.9616	0.9508	0.8610	Ave		0.9034			0.1000	9.6		15.0			
Vinyl chloride	0.7127 0.5986	0.5945 0.5590	0.6714	0.6661	0.6078	Ave		0.6300				8.6		15.0			
Bromomethane	0.3622 0.2900	0.3259 0.2675	0.3323	0.3132	0.2981	Ave		0.3127				9.9		15.0			
Chloroethane	0.4861 0.3277	0.3774 0.2991	0.3873	0.3727	0.3453	Lin2	0.0695	0.3371							0.9910		0.9900
Trichlorofluoromethane	0.5868 0.4931	0.4948 0.4668	0.5334	0.5367	0.5164	Ave		0.5183				7.5		15.0			
Ethyl ether	0.3259 0.2556	0.2678 0.2377	0.2554	0.2522	0.2274	Ave		0.2603				12.0		15.0			
Ethanol	0.0047 0.0017	0.0014 0.0016	0.0015	0.0019	0.0016	Lin1	-0.003	0.0016							0.9910		0.9900
1,1-Dichloroethene	0.4196 0.3087	0.2933 0.2942	0.3549	0.3319	0.3156	Ave		0.3201				7.4		15.0			
Carbon disulfide	1.5648 1.3008	1.2759 1.2119	1.5758	1.4732	1.3494	Ave		1.3953				11.0		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2117 0.1748	0.1784 0.1637	0.2010	0.1910	0.1799	Ave		0.1858				8.9		15.0			
Acrolein	0.9360 0.7838	0.7899 0.6862	0.8009	0.8090	0.6798	Ave		0.7836				11.0		15.0			
Isopropyl alcohol	0.0159 0.0108	0.0144 0.0098	0.0107	0.0109	0.0097	Lin2	0.1535	0.0102							0.9950		0.9900
Methylene Chloride	1.0666 0.3541	0.6021 0.3239	0.4564	0.3919	0.3486	Lin1	0.3614	0.3313							0.9970		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

TS 3/31/10

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Westfield Job No.: 360-24309-1 Analy Batch No.: 48701

SDG No.: OCRI-06

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2009 16:02 Calibration End Date: 09/08/2009 18:49 Calibration ID: 4239

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butyl Alcohol	0.0188 0.0206	0.0193 0.0192	0.0184	0.0195	0.0175	Ave		0.0190				5.2		15.0			
1,1,1-Trichloroethane	0.6107 0.4850	0.5243 0.4555	0.5633	0.5228	0.4926	Ave		0.5171				8.3		15.0			
2-Butanone (MEK)	0.1254 0.0978	0.0970 0.0932	0.0875	0.0942	0.0855	Ave		0.0960				11.0		15.0			
1,1-Dichloropropene	0.5649 0.4860	0.4602 0.4738	0.5235	0.4974	0.4886	Ave		0.4990				6.9		15.0			
n-Heptane	0.8565 0.9050	0.7696 0.8568	0.9834	0.9534	0.9214	Ave		0.8945				7.9		15.0			
Benzene	1.4982 1.3135	1.2724 1.2722	1.4240	1.3811	1.3000	Ave		1.3516				6.4		15.0			
Tert-amyl methyl ether	0.8924 0.7489	0.7542 0.6970	0.7873	0.7691	0.6859	Ave		0.7621				9.0		15.0			
1,2-Dichloroethane	0.3816 0.3231	0.3308 0.3183	0.3086	0.3180	0.2967	Ave		0.3253				8.3		15.0			
2,4,4-Trimethyl-1-pentene	0.4938 0.3541	0.3646 0.3124	0.4110	0.3852	0.3642	Ave		0.3806				13.0		15.0			
Isopropyl acetate	0.4037 0.4289	0.4243 0.3966	0.4390	0.4302	0.3827	Ave		0.4164				4.9		15.0			
Methylcyclohexane	0.6139 0.6029	0.6147 0.5509	0.6983	0.6779	0.6330	Ave		0.6300				7.7		15.0			
Trichloroethene	0.3063 0.3065	0.2969 0.3014	0.3093	0.3092	0.2942	Ave		0.3155				11.0		15.0			
2,4,4-Trimethyl-2-pentene	0.2121 0.1826	0.1691 0.1753	0.2003	0.1875	0.1834	Ave		0.1872				7.8		15.0			
Dibromomethane	0.1392 0.1172	0.1201 0.1142	0.1218	0.1144	0.1086	Ave		0.1188				7.1		15.0			
1,2-Dichloropropane	0.3938 0.2954	0.3358 0.2637	0.3304	0.3180	0.2870	Ave		0.3182				14.0		15.0			
Dichlorobromomethane	0.3938 0.3437	0.3464 0.3424	0.3382	0.3296	0.3226	Ave		0.3427				4.9		15.0			
Methyl methacrylate	0.1085 0.0887	0.0894 0.0905	0.0796	0.0833	0.0784	Ave		0.0864				7.1		15.0			
n-Propyl acetate	0.2444 0.2620	0.2430 0.2609	0.2475	0.2487	0.2328	Ave		0.2485				4.1		15.0			
2-Chloroethyl vinyl ether	0.0355 0.0374	0.0283 0.0403	0.0292	0.0307	0.0309	Lin	-0.708	0.0405							0.9960		0.9900
cis-1,3-Dichloropropene	0.4414 0.4042	0.3574 0.4061	0.3989	0.3896	0.3850	Ave		0.3975				6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

TC
3/31/10

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Westfield Job No.: 360-24309-1 Analy Batch No.: 48701

SDG No.: OCRI-06

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2009 16:02 Calibration End Date: 09/08/2009 18:49 Calibration ID: 4239

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toluene	0.8034 0.6891	0.6622 0.6914	0.7181	0.7001	0.6751	Ave		0.7062				6.8		15.0			
4-Methyl-2-pentanone (MIBK)	0.2378 0.2097	0.2078 0.1819	0.1997	0.2058	0.1875	Ave		0.2048				9.4		15.0			
Tetrachloroethene	0.1974 0.1810	0.1750 0.1842	0.1931	0.1876	0.1851	Ave		0.1859				3.7		15.0			
trans-1,3-Dichloropropene	0.3306 0.2937	0.2739 0.2966	0.2820	0.2826	0.2759	Ave		0.2914				7.2		15.0			
Isobutyl acetate	0.5849 0.6001	0.5935 0.5284	0.6357	0.6186	0.5396	Ave		0.5858				6.7		15.0			
1,1,2-Trichloroethane	0.1738 0.1281	0.1193 0.1265	0.1272	0.1194	0.1153	Lin1	0.0117	0.1247							0.9980		0.9900
Chlorodibromomethane	0.1753 0.1533	0.1430 0.1540	0.1424	0.1436	0.1413	Ave		0.1504				8.1		15.0			
1,3-Dichloropropane	0.3266 0.2848	0.2787 0.2855	0.2733	0.2703	0.2607	Ave		0.2828				7.5		15.0			
Ethylene Dibromide	0.1485 0.1281	0.1197 0.1286	0.1205	0.1216	0.1163	Ave		0.1260				8.2		15.0			
n-Butyl acetate	0.3463 0.3346	0.3445 0.3209	0.3386	0.3287	0.2965	Ave		0.3300				5.2		15.0			
2-Hexanone	0.1659 0.1333	0.1215 0.1275	0.1135	0.1276	0.1163	Ave		0.1294				14.0		15.0			
Chlorobenzene	1.1913 1.0803	1.0113 1.0817	1.1284	1.0895	1.0360	Ave		1.0959			0.3000	6.9		15.0			
Ethylbenzene	2.6758 2.1553	2.1312 2.0628	2.4520	2.2929	2.1714	Ave		2.2788				9.7		15.0			
1,1,1,2-Tetrachloroethane	0.3901 0.3385	0.3372 0.3202	0.3653	0.3541	0.3297	Ave		0.3475				6.7		15.0			
m-Xylene & p-Xylene	1.9757 1.6727	1.6563 1.5766	1.8860	1.7978	1.6875	Ave		1.7524				8.3		15.0			
o-Xylene	2.1470 1.8264	1.8191 1.6597	2.0450	1.9708	1.8130	Ave		1.9034				9.3		15.0			
Styrene	1.4922 1.2759	1.2027 1.2037	1.3614	1.2839	1.2100	Ave		1.2938				8.9		15.0			
Bromoform	0.3485 0.3369	0.2780 0.3504	0.2816	0.2944	0.3020	Ave		0.3131			0.1000	10.0		15.0			
Isopropylbenzene	2.4208 2.2025	2.0724 2.0183	2.4760	2.3615	2.1975	Ave		2.2554				8.0		15.0			
Bromobenzene	1.2089 0.9533	1.0331 0.8458	1.0983	1.0589	0.9355	Ave		1.0237				13.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Westfield Job No.: 360-24309-1 Analy Batch No.: 48701

SDG No.: OCRI-06

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2009 16:02 Calibration End Date: 09/08/2009 18:49 Calibration ID: 4239

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	3.2749 2.7253	2.8073 2.4461	3.2146	3.0479	2.8034	Ave		2.9014				10.0		15.0			
1,1,2,2-Tetrachloroethane	0.7864 0.7241	0.6467 0.7098	0.6652	0.6693	0.6233	Ave		0.6847			0.3000	6.8		15.0			
2-Chlorotoluene	2.1981 1.7626	1.9110 1.5938	2.1562	2.0102	1.8004	Ave		1.9274				12.0		15.0			
1,3,5-Trimethylbenzene	2.0740 1.7484	1.7543 1.5683	2.0682	1.9727	1.7597	Ave		1.8515				10.0		15.0			
1,2,3-Trichloropropane	0.0977 0.0640	0.0737 0.0579	0.0702	0.0659	0.0581	Lin2	0.0173	0.0613							0.9940		0.9900
trans-1,4-Dichloro-2-butene	0.1855 0.1153	0.1121 0.1006	0.1143	0.1079	0.1045	Lin1	0.0258	0.1049							0.9960		0.9900
4-Chlorotoluene	1.9957 1.5857	1.6208 1.4256	1.8310	1.7825	1.5862	Ave		1.6830				11.0		15.0			
tert-Butylbenzene	1.6114 1.4382	1.3443 1.2740	1.6375	1.5566	1.4452	Ave		1.4710				9.1		15.0			
1,2,4-Trimethylbenzene	2.2426 1.7341	1.8521 1.5229	2.1213	1.9555	1.7416	Ave		1.8740				12.0		15.0			
sec-Butylbenzene	2.7805 2.3745	2.3854 2.0944	2.8375	2.6923	2.4540	Ave		2.5177				11.0		15.0			
4-Isopropyltoluene	2.1860 1.7686	1.7710 1.5718	2.1469	2.0266	1.8270	Ave		1.8943				12.0		15.0			
1,3-Dichlorobenzene	1.0333 0.7640	0.8393 0.6910	0.9262	0.8750	0.7657	Ave		0.8416				14.0		15.0			
1,4-Dichlorobenzene	2.0036 1.7607	1.7009 1.7703	1.8008	1.7631	1.6721	Ave		1.7881				6.9		15.0			
n-Butylbenzene	4.8165 4.5260	4.1981 4.4386	4.9374	4.7733	4.6065	Ave		4.6138				5.5		15.0			
1,2-Dichlorobenzene	1.7303 1.4725	1.4090 1.4730	1.4926	1.4666	1.3959	Ave		1.4920				7.6		15.0			
1,2-Dibromo-3-Chloropropane	0.0867 0.0772	0.0739 0.0793	0.0773	0.0724	0.0722	Ave		0.0770				6.6		15.0			
1,3,5-Trichlorobenzene	1.2560 1.2921	1.2292 1.2913	1.3706	1.3552	1.2690	Ave		1.2948				4.0		15.0			
Hexachlorobutadiene	0.5617 0.4937	0.4716 0.4846	0.5462	0.5336	0.5279	Ave		0.5170				6.6		15.0			
1,2,4-Trichlorobenzene	1.1410 0.9452	0.9612 0.9569	0.9636	0.9470	0.9111	Ave		0.9752				7.7		15.0			
Naphthalene	1.6024 1.2864	1.2646 1.3260	1.1934	1.2132	1.1308	Ave		1.2881				12.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

TC
3/31/10

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Westfield Job No.: 360-24309-1 Analy Batch No.: 48701

SDG No.: OCRI-06

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2009 16:02 Calibration End Date: 09/08/2009 18:49 Calibration ID: 4239

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	0.9078 0.7145	0.6496 0.7134	0.6981	0.7078	0.6586	Ave		0.7214				12.0		15.0			
Dibromofluoromethane	0.2400 0.2266	0.2388 0.2233	0.2352	0.2308	0.2352	Ave		0.2328				2.7		15.0			
Toluene-d8 (Surr)	0.8802 0.8841	0.8961 0.8899	0.8856	0.8890	0.8909	Ave		0.8882				0.5		15.0			
4-Bromofluorobenzene	0.5920 0.5621	0.5941 0.5205	0.5898	0.5880	0.5651	Ave		0.5731				4.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

TC
3/31/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: ICV 360-48619/9 Calibration Date: 09/04/2009 18:25

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07464.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3549	0.2318		65.3	100	-34.7*	30.0
Chloromethane	Ave	0.3516	0.3542	0.1000	101	100	0.7	30.0
Vinyl chloride	Lin		0.2944		109	100	9.3	30.0
Bromomethane	Ave	0.2017	0.2289		113	100	13.5	30.0
Chloroethane	Ave	0.1469	0.1581		108	100	7.6	30.0
Trichlorofluoromethane	Ave	0.5103	0.5005		98.1	100	-1.9	30.0
Ethyl ether	Ave	0.1302	0.1291		99.1	100	-0.9	30.0
1,1-Dichloroethene	Lin		0.4063		98.6	100	-1.4	30.0
Carbon disulfide	Ave	0.7933	0.8361		105	100	5.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2246	0.2218		98.8	100	-1.2	30.0
Acrolein	Ave	0.0337	0.0375		5550	5000	11.0	30.0
Methylene Chloride	Lin1		0.2555		109	100	9.1	30.0
Acetone	Qua		0.0235		600	1000	-40.0*	30.0
trans-1,2-Dichloroethene	Ave	0.4029	0.4094		102	100	1.6	30.0
Methyl acetate	Ave	0.0693	0.0715		1030	1000	3.3	30.0
Methyl tert-butyl ether	Ave	0.4796	0.5002		104	100	4.3	30.0
2-Methyl-2-propanol	Ave	0.0251	0.0248		991	1000	-0.9	30.0
Isopropyl ether	Ave	0.7012	0.7580		108	100	8.1	30.0
1,1-Dichloroethane	Ave	0.4775	0.4840	0.1000	101	100	1.4	30.0
Acrylonitrile	Ave	0.0301	0.0339		113	100	12.6	30.0
Tert-butyl ethyl ether	Ave	0.5985	0.6441		108	100	7.6	30.0
Vinyl acetate	Ave	0.2215	0.2017		911	1000	-8.9	30.0
cis-1,2-Dichloroethene	Ave	0.3646	0.3756		103	100	3.0	30.0
2,2-Dichloropropane	Ave	0.3560	0.3694		104	100	3.8	30.0
Chlorobromomethane	Ave	0.1334	0.1347		101	100	1.0	30.0
Cyclohexane	Ave	0.3705	0.4174		113	100	12.7	30.0
Chloroform	Lin		0.4761		101	100	0.7	30.0
Carbon tetrachloride	Ave	0.4677	0.4394		93.9	100	-6.1	30.0
Tetrahydrofuran	Ave	0.0320	0.0318		995	1000	-0.5	30.0
1,1,1-Trichloroethane	Ave	0.4887	0.4758		97.3	100	-2.7	30.0
2-Butanone (MEK)	Ave	0.0420	0.0328		781	1000	-21.9	30.0
1,1-Dichloropropene	Ave	0.3247	0.3257		100	100	0.3	30.0
Benzene	Ave	0.8655	0.8790		102	100	1.6	30.0
Tert-amyl methyl ether	Ave	0.4485	0.4866		109	100	8.5	30.0
1,2-Dichloroethane	Ave	0.2867	0.2606		90.9	100	-9.1	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.2112	0.2133		101	100	1.0	30.0
Methylcyclohexane	Ave	0.3984	0.4404		111	100	10.5	30.0
Trichloroethene	Ave	0.2687	0.2565		95.5	100	-4.5	30.0
2,4,4-Trimethyl-2-pentene	Lin2		0.5755		111	100	11.0	30.0
Dibromomethane	Ave	0.1028	0.0976		94.9	100	-5.1	30.0

TC 3/31/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: ICV 360-48619/9 Calibration Date: 09/04/2009 18:25

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07464.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2005		102	100	1.8	30.0
Dichlorobromomethane	Ave	0.3128	0.2971		95.0	100	-5.0	30.0
Methyl methacrylate	Ave	0.0557	0.0627		113	100	12.6	30.0
1,4-Dioxane	Qua		0.0010		1410	1000	40.7*	30.0
2-Chloroethyl vinyl ether	Lin1		0.0333		931	1000	-6.9	30.0
cis-1,3-Dichloropropene	Ave	0.2887	0.2865		99.2	100	-0.8	30.0
Toluene	Ave	0.5358	0.5354		99.9	100	0.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0961	0.0873		908	1000	-9.2	30.0
Tetrachloroethene	Ave	0.2139	0.2121		99.2	100	-0.8	30.0
trans-1,3-Dichloropropene	Ave	0.2493	0.2425		97.3	100	-2.7	30.0
1,1,2-Trichloroethane	Ave	0.1097	0.1047		95.5	100	-4.5	30.0
Chlorodibromomethane	Ave	0.2068	0.1918		92.7	100	-7.3	30.0
1,3-Dichloropropane	Ave	0.2015	0.1963		97.4	100	-2.6	30.0
Ethylene Dibromide	Ave	0.1243	0.1231		99.0	100	-1.0	30.0
2-Hexanone	Ave	0.0677	0.0583		860	1000	-14.0	30.0
Chlorobenzene	Ave	0.8153	0.8211	0.3000	101	100	0.7	30.0
Ethylbenzene	Ave	1.543	1.537		99.6	100	-0.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3279		99.2	100	-0.8	30.0
m-Xylene & p-Xylene	Ave	1.222	1.251		205	200	2.3	30.0
o-Xylene	Ave	1.203	1.286		107	100	6.9	30.0
Styrene	Ave	0.8537	0.8959		105	100	4.9	30.0
Bromoform	Ave	0.3031	0.2939	0.1000	97.0	100	-3.0	30.0
Isopropylbenzene	Ave	1.477	1.555		105	100	5.3	30.0
Bromobenzene	Ave	0.6398	0.6382		99.8	100	-0.2	30.0
N-Propylbenzene	Ave	1.839	1.866		101	100	1.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3430	0.3342	0.3000	97.4	100	-2.6	30.0
2-Chlorotoluene	Ave	1.244	1.265		102	100	1.6	30.0
1,3,5-Trimethylbenzene	Ave	1.293	1.341		104	100	3.7	30.0
1,2,3-Trichloropropane	Lin		0.1596		110	100	9.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0555	0.0541		97.5	100	-2.5	30.0
4-Chlorotoluene	Ave	1.124	1.162		103	100	3.4	30.0
tert-Butylbenzene	Ave	1.057	1.122		106	100	6.2	30.0
1,2,4-Trimethylbenzene	Ave	1.270	1.321		104	100	4.0	30.0
sec-Butylbenzene	Ave	1.577	1.634		104	100	3.6	30.0
4-Isopropyltoluene	Ave	1.281	1.412		110	100	10.2	30.0
1,3-Dichlorobenzene	Ave	0.7125	0.7381		104	100	3.6	30.0
1,4-Dichlorobenzene	Ave	1.274	1.302		102	100	2.2	30.0
n-Butylbenzene	Ave	2.283	2.427		106	100	6.3	30.0
1,2-Dichlorobenzene	Ave	1.066	1.099		103	100	3.1	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0594		98.3	100	-1.7	30.0
Hexachlorobutadiene	Qua		0.5748		129	100	28.9	30.0

TC 3/31/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: ICV 360-48619/9 Calibration Date: 09/04/2009 18:25

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07464.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.7037	0.8113		115	100	15.3	30.0
Naphthalene	Ave	0.8853	1.046		118	100	18.1	30.0
1,2,3-Trichlorobenzene	Ave	0.5445	0.6501		119	100	19.4	30.0
Dibromofluoromethane	Ave	0.2974	0.2892		97.2	100	-2.8	30.0
Toluene-d8 (Surr)	Ave	1.029	1.026		99.7	100	-0.3	30.0
4-Bromofluorobenzene	Ave	0.5350	0.5297		99.0	100	-1.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: ICV 360-48701/9 Calibration Date: 09/08/2009 19:13

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44796.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2809		58.2	100	-41.8*	30.0
Chloromethane	Ave	0.9034	0.7721	0.1000	91.4	100	-14.5	30.0
Vinyl chloride	Ave	0.6300	0.5305		89.4	100	-15.8	30.0
Bromomethane	Ave	0.3127	0.2881		96.6	100	-7.9	30.0
Chloroethane	Lin2		0.3159		97.4	100	-2.6	30.0
Trichlorofluoromethane	Ave	0.5183	0.4459		86.0	100	-14.0	30.0
Ethyl ether	Ave	0.2603	0.2269		93.1	100	-12.8	30.0
1,1-Dichloroethene	Ave	0.3201	0.2867		93.2	100	-10.4	30.0
Carbon disulfide	Ave	1.395	1.292		92.7	100	-7.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1678		90.3	100	-9.7	30.0
Acrolein	Ave	0.7836	0.8353		5330	5000	6.6	30.0
Methylene Chloride	Lin1		0.3422		97.8	100	-2.2	30.0
Acetone	Lin2		0.0365		691	1000	-30.9*	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6302		89.4	100	-10.7	30.0
Methyl acetate	Lin1		0.1409		968	1000	-3.2	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5991		85.7	100	-14.3	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3790		989	1000	-1.1	30.0
Isopropyl ether	Ave	1.997	1.774		89.1	100	-11.2	30.0
1,1-Dichloroethane	Ave	0.7919	0.7286	0.1000	98.1	100	-8.0	30.0
Acrylonitrile	Lin1		0.0621		95.3	100	-4.7	30.0
Tert-butyl ethyl ether	Ave	1.194	1.063		89.1	100	-10.9	30.0
Vinyl acetate	Ave	0.5745	0.4385		763	1000	-23.7	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5793		94.1	100	-5.8	30.0
2,2-Dichloropropane	Ave	0.5371	0.4945		106	100	-7.9	30.0
Cyclohexane	Ave	0.8898	0.8215		92.9	100	-7.7	30.0
Chlorobromomethane	Ave	0.1386	0.1254		90.5	100	-9.5	30.0
Chloroform	Ave	0.6243	0.5520		94.5	100	-11.6	30.0
Carbon tetrachloride	Ave	0.3645	0.3253		88.9	100	-10.8	30.0
Tetrahydrofuran	Ave	0.0762	0.0643		918	1000	-15.7	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4713		90.3	100	-8.9	30.0
2-Butanone (MEK)	Ave	0.0960	0.0716		789	1000	-25.5	30.0
1,1-Dichloropropene	Ave	0.4990	0.4485		89.8	100	-10.1	30.0
Benzene	Ave	1.352	1.237		91.5	100	-8.5	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6686		87.7	100	-12.3	30.0
1,2-Dichloroethane	Ave	0.3253	0.2852		87.7	100	-12.3	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3587		106	100	-5.7	30.0
Methylcyclohexane	Ave	0.6300	0.5963		95.1	100	-5.4	30.0
Trichloroethene	Ave	0.3155	0.2852		94.0	100	-9.6	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1829		97.7	100	-2.3	30.0
Dibromomethane	Ave	0.1188	0.1009		84.5	100	-15.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: ICV 360-48701/9 Calibration Date: 09/08/2009 19:13

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44796.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2806		99.6	100	-11.8	30.0
Dichlorobromomethane	Ave	0.3427	0.3047		88.2	100	-11.1	30.0
Methyl methacrylate	Ave	0.0864	0.0741		83.9	100	-14.3	30.0
1,4-Dioxane	Qua		0.0215		1000	1000	0.1	30.0
2-Chloroethyl vinyl ether	Lin		0.0277		772	1000	-22.8	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3428		86.2	100	-13.8	30.0
Toluene	Ave	0.7062	0.6354		92.5	100	-10.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1575		771	1000	-23.1	30.0
Tetrachloroethene	Ave	0.1859	0.1710		91.8	100	-8.0	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2543		87.5	100	-12.7	30.0
1,1,2-Trichloroethane	Lin1		0.1061		85.2	100	-14.8	30.0
Chlorodibromomethane	Ave	0.1504	0.1256		83.5	100	-16.5	30.0
1,3-Dichloropropane	Ave	0.2828	0.2393		84.6	100	-15.4	30.0
Ethylene Dibromide	Ave	0.1260	0.1093		86.6	100	-13.3	30.0
2-Hexanone	Ave	0.1294	0.0944		741	1000	-27.0	30.0
Chlorobenzene	Ave	1.096	0.9983	0.3000	91.7	100	-8.9	30.0
Ethylbenzene	Ave	2.279	2.091		98.1	100	-8.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3262		98.5	100	-6.1	30.0
m-Xylene & p-Xylene	Ave	1.752	1.632		186	200	-6.9	30.0
o-Xylene	Ave	1.903	1.794		94.6	100	-5.8	30.0
Styrene	Ave	1.294	1.186		91.9	100	-8.4	30.0
Bromoform	Ave	0.3131	0.2672	0.1000	81.4	100	-14.7	30.0
Isopropylbenzene	Ave	2.255	2.177		96.7	100	-3.5	30.0
Bromobenzene	Ave	1.024	0.9365		91.9	100	-8.5	30.0
N-Propylbenzene	Ave	2.901	2.784		95.9	100	-4.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5837	0.3000	84.7	100	-14.8	30.0
2-Chlorotoluene	Ave	1.927	1.807		94.2	100	-6.2	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.788		96.7	100	-3.4	30.0
1,2,3-Trichloropropane	Lin2		0.0628		101	100	1.0	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1023		96.2	100	-3.8	30.0
4-Chlorotoluene	Ave	1.683	1.616		95.6	100	-4.0	30.0
tert-Butylbenzene	Ave	1.471	1.459		99.1	100	-0.8	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.766		93.9	100	-5.8	30.0
sec-Butylbenzene	Ave	2.518	2.422		96.2	100	-3.8	30.0
4-Isopropyltoluene	Ave	1.894	1.889		99.5	100	-0.3	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7990		94.9	100	-5.1	30.0
1,4-Dichlorobenzene	Ave	1.788	1.668		93.6	100	-6.7	30.0
n-Butylbenzene	Ave	4.614	4.465		96.8	100	-3.2	30.0
1,2-Dichlorobenzene	Ave	1.492	1.370		91.9	100	-8.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0672		87.3	100	-12.7	30.0
Hexachlorobutadiene	Ave	0.5170	0.5013		97.0	100	-3.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: ICV 360-48701/9 Calibration Date: 09/08/2009 19:13

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44796.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9441		96.8	100	-3.2	30.0
Naphthalene	Ave	1.288	1.195		92.8	100	-7.2	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7174		99.4	100	-0.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2272		97.6	100	-2.4	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8951		101	100	0.8	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5636		98.4	100	-1.6	30.0

TC 3/31/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48354/2 Calibration Date: 08/29/2009 02:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44575.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3161		16.0	20.0	-20.1	30.0
Chloromethane	Lin		0.5437	0.1000	18.3	20.0	-8.4	30.0
Vinyl chloride	Lin		0.4016		18.0	20.0	-9.8	20.0
Bromomethane	Lin		0.2729		18.6	20.0	-7.1	30.0
Chloroethane	Lin		0.2292		18.9	20.0	-5.6	30.0
Trichlorofluoromethane	Lin		0.3700		16.3	20.0	-18.3	30.0
Ethyl ether	Ave	0.1998	0.1670		16.7	20.0	-16.4	30.0
1,1-Dichloroethene	Lin		0.2808		17.4	20.0	-13.1	20.0
Carbon disulfide	Ave	1.172	0.9604		16.4	20.0	-18.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.1654		15.9	20.0	-20.5	30.0
Acrolein	Lin1		0.4619		916	1000	-8.4	30.0
Methylene Chloride	Lin		0.3286		19.2	20.0	-4.1	30.0
Acetone	Qua		0.0444		168	200	-16.2	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.4476		17.0	20.0	-15.2	30.0
Methyl acetate	Lin		0.1088		155	200	-22.7	30.0
Methyl tert-butyl ether	Lin		0.4751		17.2	20.0	-14.1	30.0
2-Methyl-2-propanol	Lin1		0.2177		171	200	-14.6	30.0
Isopropyl ether	Ave	1.438	1.253		17.4	20.0	-12.9	30.0
1,1-Dichloroethane	Lin		0.5267	0.1000	19.1	20.0	-4.5	30.0
Acrylonitrile	Lin2		0.0443		17.2	20.0	-13.9	30.0
Tert-butyl ethyl ether	Lin		0.7971		18.7	20.0	-6.4	30.0
Vinyl acetate	Lin1		0.2989		192	200	-3.8	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4079		17.8	20.0	-11.0	30.0
2,2-Dichloropropane	Qua		0.3160		14.8	20.0	-25.9	30.0
Cyclohexane	Ave	0.6383	0.5342		16.7	20.0	-16.3	30.0
Chlorobromomethane	Ave	0.1791	0.1446		16.2	20.0	-19.2	30.0
Chloroform	Lin		0.4732		18.3	20.0	-8.5	20.0
Carbon tetrachloride	Ave	0.3593	0.3040		16.9	20.0	-15.4	30.0
Tetrahydrofuran	Lin1		0.0448		184	200	-7.9	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4011		16.3	20.0	-18.7	30.0
2-Butanone (MEK)	Ave	0.0653	0.0597		183	200	-8.7	30.0
1,1-Dichloropropene	Ave	0.3849	0.3391		17.6	20.0	-11.9	30.0
Benzene	Ave	1.175	1.029		17.5	20.0	-12.5	30.0
Tert-amyl methyl ether	Lin		0.5631		18.1	20.0	-9.7	30.0
1,2-Dichloroethane	Ave	0.2398	0.2130		17.8	20.0	-11.2	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2019		17.9	20.0	-10.3	30.0
Methylcyclohexane	Ave	0.5730	0.4748		16.6	20.0	-17.1	30.0
Trichloroethene	Ave	0.2943	0.2608		17.7	20.0	-11.4	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1593		16.4	20.0	-17.8	30.0
Dibromomethane	Ave	0.1115	0.0961		17.2	20.0	-13.8	30.0

TC 5/31/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48354/2 Calibration Date: 08/29/2009 02:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44575.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.1923		21.0	20.0	4.9	20.0
Dichlorobromomethane	Ave	0.2830	0.2550		18.0	20.0	-9.9	30.0
Methyl methacrylate	Ave	0.0593	0.0512		17.3	20.0	-13.7	30.0
1,4-Dioxane	Ave	0.0211	0.0197		187	200	-6.6	30.0
2-Chloroethyl vinyl ether	Lin1		0.0433		197	200	-1.3	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2567		17.3	20.0	-13.4	30.0
Toluene	Ave	0.6775	0.5849		17.3	20.0	-13.7	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1272		189	200	-5.5	30.0
Tetrachloroethene	Ave	0.2090	0.1709		16.3	20.0	-18.3	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1775		16.7	20.0	-16.4	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0903		16.6	20.0	-17.1	30.0
Chlorodibromomethane	Ave	0.1624	0.1356		16.7	20.0	-16.5	30.0
1,3-Dichloropropane	Ave	0.2134	0.1798		16.8	20.0	-15.8	30.0
Ethylene Dibromide	Ave	0.1323	0.1089		16.5	20.0	-17.7	30.0
2-Hexanone	Ave	0.0865	0.0721		167	200	-16.6	30.0
Chlorobenzene	Ave	1.083	0.9985	0.3000	18.4	20.0	-7.8	30.0
Ethylbenzene	Lin		1.795		19.5	20.0	-2.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3536		18.6	20.0	-7.2	30.0
m-Xylene & p-Xylene	Lin1		1.381		39.4	40.0	-1.4	30.0
o-Xylene	Ave	1.735	1.582		18.2	20.0	-8.8	30.0
Styrene	Ave	1.258	1.152		18.3	20.0	-8.5	30.0
Bromoform	Ave	0.2952	0.2525	0.1000	17.1	20.0	-14.4	20.0
Isopropylbenzene	Ave	2.247	2.103		18.7	20.0	-6.4	30.0
Bromobenzene	Ave	0.7726	0.6930		17.9	20.0	-10.3	30.0
N-Propylbenzene	Ave	2.529	2.318		18.3	20.0	-8.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.4576	0.3000	17.7	20.0	-11.3	30.0
2-Chlorotoluene	Ave	1.717	1.555		18.1	20.0	-9.5	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.729		18.4	20.0	-8.0	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0579		16.9	20.0	-15.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0579		15.9	20.0	-20.3	30.0
4-Chlorotoluene	Ave	1.492	1.325		17.8	20.0	-11.2	30.0
tert-Butylbenzene	Ave	1.551	1.489		19.2	20.0	-4.0	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.757		18.0	20.0	-9.9	30.0
sec-Butylbenzene	Ave	2.541	2.340		18.4	20.0	-7.9	30.0
4-Isopropyltoluene	Ave	2.050	1.867		18.2	20.0	-8.9	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.8447		17.2	20.0	-13.9	30.0
1,4-Dichlorobenzene	Ave	1.821	1.619		17.8	20.0	-11.1	30.0
n-Butylbenzene	Ave	3.711	3.471		18.7	20.0	-6.4	30.0
1,2-Dichlorobenzene	Ave	1.574	1.422		18.1	20.0	-9.7	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0708		17.1	20.0	-14.3	30.0
Hexachlorobutadiene	Ave	0.5157	0.4549		17.6	20.0	-11.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48354/2 Calibration Date: 08/29/2009 02:03

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44575.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	0.9582		17.8	20.0	-10.9	30.0
Naphthalene	Ave	1.428	1.265		17.7	20.0	-11.4	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7246		17.9	20.0	-10.3	30.0
Dibromofluoromethane	Ave	0.2595	0.2481		19.1	20.0	-4.4	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8603		19.3	20.0	-3.6	30.0
4-Bromofluorobenzene	Ave	0.5061	0.4909		19.4	20.0	-3.0	30.0

3/31/10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48407/2 Calibration Date: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44626.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.1778		8.82	20.0	-55.9*	30.0
Chloromethane	Lin		0.5834	0.1000	19.8	20.0	-1.1	30.0
Vinyl chloride	Lin		0.4346		19.7	20.0	-1.5	20.0
Bromomethane	Lin		0.2743		18.7	20.0	-6.6	30.0
Chloroethane	Lin		0.2402		19.9	20.0	-0.3	30.0
Trichlorofluoromethane	Lin		0.3846		17.0	20.0	-14.8	30.0
Ethyl ether	Ave	0.1998	0.1791		17.9	20.0	-10.4	30.0
1,1-Dichloroethene	Lin		0.3132		19.6	20.0	-2.2	20.0
Carbon disulfide	Ave	1.172	1.105		18.8	20.0	-5.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.1808		17.5	20.0	-12.4	30.0
Acrolein	Lin1		0.5376		1070	1000	6.8	30.0
Methylene Chloride	Lin		0.3597		21.3	20.0	6.5	30.0
Acetone	Qua		0.0387		140	200	-29.9	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5127		19.4	20.0	-2.9	30.0
Methyl acetate	Lin		0.1131		161	200	-19.4	30.0
Methyl tert-butyl ether	Lin		0.5337		19.5	20.0	-2.6	30.0
2-Methyl-2-propanol	Lin1		0.2427		191	200	-4.6	30.0
Isopropyl ether	Ave	1.438	1.400		19.5	20.0	-2.7	30.0
1,1-Dichloroethane	Lin		0.5967	0.1000	21.8	20.0	8.9	30.0
Acrylonitrile	Lin2		0.0492		19.1	20.0	-4.3	30.0
Tert-butyl ethyl ether	Lin		0.8692		20.6	20.0	2.9	30.0
Vinyl acetate	Lin1		0.3622		233	200	16.3	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4565		19.9	20.0	-0.4	30.0
2,2-Dichloropropane	Qua		0.3573		17.0	20.0	-15.2	30.0
Cyclohexane	Ave	0.6383	0.5715		17.9	20.0	-10.5	30.0
Chlorobromomethane	Ave	0.1791	0.1564		17.5	20.0	-12.7	30.0
Chloroform	Lin		0.5242		20.4	20.0	1.8	20.0
Carbon tetrachloride	Ave	0.3593	0.3383		18.8	20.0	-5.8	30.0
Tetrahydrofuran	Lin1		0.0485		200	200	0.1	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4574		18.5	20.0	-7.3	30.0
2-Butanone (MEK)	Ave	0.0653	0.0568		174	200	-13.1	30.0
1,1-Dichloropropene	Ave	0.3849	0.3919		20.4	20.0	1.8	30.0
Benzene	Ave	1.175	1.151		19.6	20.0	-2.0	30.0
Tert-amyl methyl ether	Lin		0.6290		20.3	20.0	1.5	30.0
1,2-Dichloroethane	Ave	0.2398	0.2236		18.6	20.0	-6.8	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2355		21.0	20.0	5.0	30.0
Methylcyclohexane	Ave	0.5730	0.5104		17.8	20.0	-10.9	30.0
Trichloroethene	Ave	0.2943	0.2901		19.7	20.0	-1.4	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1817		18.8	20.0	-6.2	30.0
Dibromomethane	Ave	0.1115	0.1020		18.3	20.0	-8.6	30.0

TC 3/31/10 ✓ 09/24/2009

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48407/2 Calibration Date: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44626.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2201		24.4	20.0	21.9*	20.0
Dichlorobromomethane	Ave	0.2830	0.2684		19.0	20.0	-5.2	30.0
Methyl methacrylate	Ave	0.0593	0.0543		18.3	20.0	-8.5	30.0
1,4-Dioxane	Ave	0.0211	0.0216		205	200	2.6	30.0
2-Chloroethyl vinyl ether	Lin1		0.0397		181	200	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2735		18.4	20.0	-7.8	30.0
Toluene	Ave	0.6775	0.6464		19.1	20.0	-4.6	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1330		198	200	-0.9	30.0
Tetrachloroethene	Ave	0.2090	0.1879		18.0	20.0	-10.1	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1805		17.0	20.0	-15.0	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0973		17.9	20.0	-10.6	30.0
Chlorodibromomethane	Ave	0.1624	0.1416		17.4	20.0	-12.8	30.0
1,3-Dichloropropane	Ave	0.2134	0.1902		17.8	20.0	-10.9	30.0
Ethylene Dibromide	Ave	0.1323	0.1108		16.7	20.0	-16.3	30.0
2-Hexanone	Ave	0.0865	0.0707		163	200	-18.3	30.0
Chlorobenzene	Ave	1.083	1.097	0.3000	20.3	20.0	1.3	30.0
Ethylbenzene	Lin		2.095		22.9	20.0	14.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3979		20.9	20.0	4.4	30.0
m-Xylene & p-Xylene	Lin1		1.593		45.6	40.0	13.9	30.0
o-Xylene	Ave	1.735	1.848		21.3	20.0	6.5	30.0
Styrene	Ave	1.258	1.264		20.1	20.0	0.4	30.0
Bromoform	Ave	0.2952	0.2751	0.1000	18.6	20.0	-6.8	20.0
Isopropylbenzene	Ave	2.247	2.468		22.0	20.0	9.9	30.0
Bromobenzene	Ave	0.7726	0.8008		20.7	20.0	3.6	30.0
N-Propylbenzene	Ave	2.529	2.757		21.8	20.0	9.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5241	0.3000	20.3	20.0	1.6	30.0
2-Chlorotoluene	Ave	1.717	1.833		21.3	20.0	6.7	30.0
1,3,5-Trimethylbenzene	Ave	1.879	2.039		21.7	20.0	8.5	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0629		18.4	20.0	-8.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0633		17.4	20.0	-12.8	30.0
4-Chlorotoluene	Ave	1.492	1.563		21.0	20.0	4.8	30.0
tert-Butylbenzene	Ave	1.551	1.722		22.2	20.0	11.0	30.0
1,2,4-Trimethylbenzene	Ave	1.951	2.047		21.0	20.0	4.9	30.0
sec-Butylbenzene	Ave	2.541	2.761		21.7	20.0	8.7	30.0
4-Isopropyltoluene	Ave	2.050	2.204		21.5	20.0	7.5	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9706		19.8	20.0	-1.1	30.0
1,4-Dichlorobenzene	Ave	1.821	1.808		19.9	20.0	-0.7	30.0
n-Butylbenzene	Ave	3.711	4.131		22.3	20.0	11.3	30.0
1,2-Dichlorobenzene	Ave	1.574	1.575		20.0	20.0	0.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0772		18.7	20.0	-6.5	30.0
Hexachlorobutadiene	Ave	0.5157	0.5371		20.8	20.0	4.1	30.0

TC
3/31/16

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48407/2 Calibration Date: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44626.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.102		20.5	20.0	2.5	30.0
Naphthalene	Ave	1.428	1.421		19.9	20.0	-0.5	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.8332		20.6	20.0	3.1	30.0
Dibromofluoromethane	Ave	0.2595	0.2454		18.9	20.0	-5.4	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8491		19.0	20.0	-4.9	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5038		19.9	20.0	-0.4	30.0

TC
3/31/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44645.D BFB Injection Date: 09/01/2009

Instrument ID: HP #1 GC/MS 8/24/10 BFB Injection Time: 16:09

Analysis Batch No.: 48469

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.2	
75	30.0 - 60.0 % of mass 95	44.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	74.5	
175	5.0 - 9.0 % of mass 174	5.5	(7.4)1
176	95.0 - 101.0 % of mass 174	73.0	(97.9)1
177	5.0 - 9.0 % of mass 176	5.1	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48469/2	V44646.D	09/01/2009	16:33
	LCS 360-48468/1-A	V44647.D	09/01/2009	16:57
	LCSD 360-48468/2-A	V44648.D	09/01/2009	17:22
	MB 360-48468/3-A	V44650.D	09/01/2009	18:10
OC-TBK-008	360-24309-24	V44651.D	09/01/2009	18:34
OC-SB-422-0.0/1.0-XXX	360-24309-15	V44659.D	09/01/2009	21:47

methyl Acetate -31
2-hexanone -28.0
chlorodibromomethane -25.1

2-butanone @ 602 ug/kg No detects in Sample

Acetone 69%
chloroethane 68%
Dichlorodifluoromethane 61%/63%
244-TMP-1 135%

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48524/2 Calibration Date: 09/03/2009 03:59

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44718.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3367		17.0	20.0	-14.8	30.0
Chloromethane	Lin		0.6160	0.1000	21.0	20.0	5.0	30.0
Vinyl chloride	Lin		0.4315		19.6	20.0	-2.2	20.0
Bromomethane	Lin		0.2823		19.3	20.0	-3.5	30.0
Chloroethane	Lin		0.2331		19.3	20.0	-3.7	30.0
Trichlorofluoromethane	Lin		0.3799		16.8	20.0	-15.9	30.0
Ethyl ether	Ave	0.1998	0.1847		18.5	20.0	-7.5	30.0
1,1-Dichloroethene	Lin		0.3060		19.1	20.0	-4.6	20.0
Carbon disulfide	Ave	1.172	1.070		18.3	20.0	-8.7	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.1759		17.0	20.0	-14.9	30.0
Acrolein	Lin1		0.5588		1110	1000	11.1	30.0
Methylene Chloride	Lin		0.3504		20.7	20.0	3.3	30.0
Acetone	Qua		0.0418		155	200	-22.4	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5074		19.2	20.0	-3.9	30.0
Methyl acetate	Lin		0.1164		167	200	-16.7	30.0
Methyl tert-butyl ether	Lin		0.5227		19.1	20.0	-4.7	30.0
2-Methyl-2-propanol	Lin1		0.2737		216	200	7.8	30.0
Isopropyl ether	Ave	1.438	1.404		19.5	20.0	-2.4	30.0
1,1-Dichloroethane	Lin		0.5915	0.1000	21.6	20.0	7.9	30.0
Acrylonitrile	Lin2		0.0482		18.8	20.0	-6.1	30.0
Tert-butyl ethyl ether	Lin		0.8617		20.4	20.0	1.9	30.0
Vinyl acetate	Lin1		0.3885		249	200	24.6	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4523		19.7	20.0	-1.3	30.0
2,2-Dichloropropane	Qua		0.3419		16.2	20.0	-19.2	30.0
Chlorobromomethane	Ave	0.1791	0.1522		17.0	20.0	-15.0	30.0
Cyclohexane	Ave	0.6383	0.5662		17.7	20.0	-11.3	30.0
Chloroform	Lin		0.5175		20.1	20.0	0.5	20.0
Carbon tetrachloride	Ave	0.3593	0.3240		18.0	20.0	-9.8	30.0
Tetrahydrofuran	Lin1		0.0494		204	200	1.8	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4428		17.9	20.0	-10.3	30.0
2-Butanone (MEK)	Ave	0.0653	0.0619		190	200	-5.2	30.0
1,1-Dichloropropene	Ave	0.3849	0.3857		20.0	20.0	0.2	30.0
Benzene	Ave	1.175	1.194		20.3	20.0	1.6	30.0
Tert-amyl methyl ether	Lin		0.6074		19.6	20.0	-2.1	30.0
1,2-Dichloroethane	Ave	0.2398	0.2273		19.0	20.0	-5.2	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2262		20.1	20.0	0.7	30.0
Methylcyclohexane	Ave	0.5730	0.4967		17.3	20.0	-13.3	30.0
Trichloroethene	Ave	0.2943	0.2894		19.7	20.0	-1.7	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1716		17.7	20.0	-11.4	30.0
Dibromomethane	Ave	0.1115	0.1041		18.7	20.0	-6.6	30.0

3/31/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48524/2 Calibration Date: 09/03/2009 03:59

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44718.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2212		24.5	20.0	22.6*	20.0
Dichlorobromomethane	Ave	0.2830	0.2740		19.4	20.0	-3.2	30.0
Methyl methacrylate	Ave	0.0593	0.0571		19.3	20.0	-3.7	30.0
1,4-Dioxane	Ave	0.0211	0.0238		226	200	13.1	30.0
2-Chloroethyl vinyl ether	Lin1		0.0476		217	200	8.4	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2869		19.3	20.0	-3.3	30.0
Toluene	Ave	0.6775	0.6687		19.7	20.0	-1.3	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1353		202	200	0.9	30.0
Tetrachloroethene	Ave	0.2090	0.1871		17.9	20.0	-10.5	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1946		18.3	20.0	-8.3	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.1004		18.4	20.0	-7.8	30.0
Chlorodibromomethane	Ave	0.1624	0.1403		17.3	20.0	-13.6	30.0
1,3-Dichloropropane	Ave	0.2134	0.2008		18.8	20.0	-5.9	30.0
Ethylene Dibromide	Ave	0.1323	0.1163		17.6	20.0	-12.1	30.0
2-Hexanone	Ave	0.0865	0.0751		174	200	-13.2	30.0
Chlorobenzene	Ave	1.083	1.104	0.3000	20.4	20.0	1.9	30.0
Ethylbenzene	Lin		2.088		22.8	20.0	14.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3793		19.9	20.0	-0.5	30.0
m-Xylene & p-Xylene	Lin1		1.592		45.5	40.0	13.8	30.0
o-Xylene	Ave	1.735	1.826		21.0	20.0	5.2	30.0
Styrene	Ave	1.258	1.208		19.2	20.0	-4.0	30.0
Bromoform	Ave	0.2952	0.2862	0.1000	19.4	20.0	-3.0	20.0
Isopropylbenzene	Ave	2.247	2.327		20.7	20.0	3.6	30.0
Bromobenzene	Ave	0.7726	0.7598		19.7	20.0	-1.7	30.0
N-Propylbenzene	Ave	2.529	2.564		20.3	20.0	1.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5306	0.3000	20.6	20.0	2.8	30.0
2-Chlorotoluene	Ave	1.717	1.717		20.0	20.0	0.0	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.878		20.0	20.0	0.1	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0615		18.0	20.0	-10.2	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0640		17.6	20.0	-11.9	30.0
4-Chlorotoluene	Ave	1.492	1.436		19.2	20.0	-3.8	30.0
tert-Butylbenzene	Ave	1.551	1.598		20.6	20.0	3.0	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.963		20.1	20.0	0.6	30.0
sec-Butylbenzene	Ave	2.541	2.560		20.1	20.0	0.7	30.0
4-Isopropyltoluene	Ave	2.050	2.000		19.5	20.0	-2.4	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.8629		17.6	20.0	-12.1	30.0
1,4-Dichlorobenzene	Ave	1.821	1.776		19.5	20.0	-2.4	30.0
n-Butylbenzene	Ave	3.711	4.104		22.1	20.0	10.6	30.0
1,2-Dichlorobenzene	Ave	1.574	1.579		20.1	20.0	0.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0759		18.4	20.0	-8.0	30.0
Hexachlorobutadiene	Ave	0.5157	0.5487		21.3	20.0	6.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48524/2 Calibration Date: 09/03/2009 03:59

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44718.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.090		20.3	20.0	1.4	30.0
Naphthalene	Ave	1.428	1.369		19.2	20.0	-4.1	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.8127		20.1	20.0	0.6	30.0
Dibromofluoromethane	Ave	0.2595	0.2461		19.0	20.0	-5.1	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8624		19.3	20.0	-3.4	30.0
4-Bromofluorobenzene	Ave	0.5061	0.4901		19.4	20.0	-3.2	30.0

3/31/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48642/2 Calibration Date: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3549	0.2860		16.1	20.0	-19.4	30.0
Chloromethane	Ave	0.3516	0.3507	0.1000	19.9	20.0	-0.3	30.0
Vinyl chloride	Lin		0.2850		21.1	20.0	5.6	20.0
Bromomethane	Ave	0.2017	0.2089		20.7	20.0	3.6	30.0
Chloroethane	Ave	0.1469	0.1456		19.8	20.0	-0.9	30.0
Trichlorofluoromethane	Ave	0.5103	0.4186		16.4	20.0	-18.0	30.0
Ethyl ether	Ave	0.1302	0.1256		19.3	20.0	-3.6	30.0
1,1-Dichloroethene	Lin		0.3983		19.3	20.0	-3.4	20.0
Carbon disulfide	Ave	0.7933	0.7843		19.8	20.0	-1.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2246	0.1730		15.4	20.0	-23.0	30.0
Acrolein	Ave	0.0337	0.0338		1000	1000	0.1	30.0
Methylene Chloride	Lin1		0.2578		22.0	20.0	10.2	30.0
Acetone	Qua		0.0266		136	200	-31.9*	30.0
trans-1,2-Dichloroethene	Ave	0.4029	0.4109		20.4	20.0	2.0	30.0
Methyl acetate	Ave	0.0693	0.0714		206	200	3.1	30.0
Methyl tert-butyl ether	Ave	0.4796	0.4973		20.7	20.0	3.7	30.0
2-Methyl-2-propanol	Ave	0.0251	0.0191		153	200	-23.7	30.0
Isopropyl ether	Ave	0.7012	0.7528		21.5	20.0	7.4	30.0
1,1-Dichloroethane	Ave	0.4775	0.4831	0.1000	20.2	20.0	1.2	30.0
Acrylonitrile	Ave	0.0301	0.0309		20.5	20.0	2.7	30.0
Tert-butyl ethyl ether	Ave	0.5985	0.6363		21.3	20.0	6.3	30.0
Vinyl acetate	Ave	0.2215	0.2269		205	200	2.5	30.0
cis-1,2-Dichloroethene	Ave	0.3646	0.3729		20.5	20.0	2.3	30.0
2,2-Dichloropropane	Ave	0.3560	0.3203		18.0	20.0	-10.0	30.0
Chlorobromomethane	Ave	0.1334	0.1353		20.3	20.0	1.4	30.0
Cyclohexane	Ave	0.3705	0.3343		18.0	20.0	-9.8	30.0
Chloroform	Lin		0.4858		20.6	20.0	2.8	20.0
Carbon tetrachloride	Ave	0.4677	0.4233		18.1	20.0	-9.5	30.0
Tetrahydrofuran	Ave	0.0320	0.0305		191	200	-4.5	30.0
1,1,1-Trichloroethane	Ave	0.4887	0.4603		18.8	20.0	-5.8	30.0
2-Butanone (MEK)	Ave	0.0420	0.0377		179	200	-10.3	30.0
1,1-Dichloropropene	Ave	0.3247	0.3178		19.6	20.0	-2.1	30.0
Benzene	Ave	0.8655	0.8925		20.6	20.0	3.1	30.0
Tert-amyl methyl ether	Ave	0.4485	0.4767		21.3	20.0	6.3	30.0
1,2-Dichloroethane	Ave	0.2867	0.2717		19.0	20.0	-5.2	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.2112	0.1548		14.7	20.0	-26.7	30.0
Methylcyclohexane	Ave	0.3984	0.3545		17.8	20.0	-11.0	30.0
Trichloroethene	Ave	0.2687	0.2639		19.6	20.0	-1.8	30.0
2,4,4-Trimethyl-2-pentene	Lin2		0.4230		16.4	20.0	-18.2	30.0
Dibromomethane	Ave	0.1028	0.1005		19.5	20.0	-2.3	30.0

TC 3/31/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48642/2 Calibration Date: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2063		21.0	20.0	4.9	20.0
Dichlorobromomethane	Ave	0.3128	0.3080		19.7	20.0	-1.5	30.0
Methyl methacrylate	Ave	0.0557	0.0590		21.2	20.0	5.9	30.0
1,4-Dioxane	Qua		0.0006		191	200	-4.7	30.0
2-Chloroethyl vinyl ether	Lin1		0.0381		213	200	6.6	30.0
cis-1,3-Dichloropropene	Ave	0.2887	0.2938		20.4	20.0	1.8	30.0
Toluene	Ave	0.5358	0.5307		19.8	20.0	-0.9	20.0
Tetrachloroethene	Ave	0.2139	0.2049		19.2	20.0	-4.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0961	0.0964		201	200	0.3	30.0
trans-1,3-Dichloropropene	Ave	0.2493	0.2429		19.5	20.0	-2.6	30.0
1,1,2-Trichloroethane	Ave	0.1097	0.1097		20.0	20.0	0.0	30.0
Chlorodibromomethane	Ave	0.2068	0.2032		19.7	20.0	-1.7	30.0
1,3-Dichloropropane	Ave	0.2015	0.2027		20.1	20.0	0.6	30.0
Ethylene Dibromide	Ave	0.1243	0.1251		20.1	20.0	0.7	30.0
2-Hexanone	Ave	0.0677	0.0649		192	200	-4.2	30.0
Chlorobenzene	Ave	0.8153	0.8157	0.3000	20.0	20.0	0.0	30.0
Ethylbenzene	Ave	1.543	1.518		19.7	20.0	-1.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3374		20.4	20.0	2.0	30.0
m-Xylene & p-Xylene	Ave	1.222	1.255		41.1	40.0	2.6	30.0
o-Xylene	Ave	1.203	1.284		21.3	20.0	6.7	30.0
Styrene	Ave	0.8537	0.9114		21.4	20.0	6.8	30.0
Bromoform	Ave	0.3031	0.2945	0.1000	19.4	20.0	-2.8	20.0
Isopropylbenzene	Ave	1.477	1.563		21.2	20.0	5.8	30.0
Bromobenzene	Ave	0.6398	0.6520		20.4	20.0	1.9	30.0
N-Propylbenzene	Ave	1.839	1.843		20.0	20.0	0.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3430	0.3341	0.3000	19.5	20.0	-2.6	30.0
2-Chlorotoluene	Ave	1.244	1.275		20.5	20.0	2.5	30.0
1,3,5-Trimethylbenzene	Ave	1.293	1.334		20.6	20.0	3.1	30.0
1,2,3-Trichloropropane	Lin		0.1500		20.5	20.0	2.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0555	0.0547		19.7	20.0	-1.6	30.0
4-Chlorotoluene	Ave	1.124	1.154		20.5	20.0	2.6	30.0
tert-Butylbenzene	Ave	1.057	1.129		21.4	20.0	6.9	30.0
1,2,4-Trimethylbenzene	Ave	1.270	1.356		21.4	20.0	6.8	30.0
sec-Butylbenzene	Ave	1.577	1.611		20.4	20.0	2.2	30.0
4-Isopropyltoluene	Ave	1.281	1.342		21.0	20.0	4.8	30.0
1,3-Dichlorobenzene	Ave	0.7125	0.7417		20.8	20.0	4.1	30.0
1,4-Dichlorobenzene	Ave	1.274	1.271		19.9	20.0	-0.3	30.0
n-Butylbenzene	Ave	2.283	2.274		19.9	20.0	-0.4	30.0
1,2-Dichlorobenzene	Ave	1.066	1.081		20.3	20.0	1.3	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0579		19.2	20.0	-4.1	30.0
Hexachlorobutadiene	Qua		0.5219		23.8	20.0	18.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48642/2 Calibration Date: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.7037	0.7249		20.6	20.0	3.0	30.0
Naphthalene	Ave	0.8853	0.9618		21.7	20.0	8.6	30.0
1,2,3-Trichlorobenzene	Ave	0.5445	0.5640		20.7	20.0	3.6	30.0
Dibromofluoromethane	Ave	0.2974	0.2931		19.7	20.0	-1.4	30.0
Toluene-d8 (Surr)	Ave	1.029	1.024		19.9	20.0	-0.5	30.0
4-Bromofluorobenzene	Ave	0.5350	0.5322		19.9	20.0	-0.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48711/2 Calibration Date: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44798.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4267		17.7	20.0	-11.6	30.0
Chloromethane	Ave	0.9034	0.8147	0.1000	19.4	20.0	-9.8	30.0
Vinyl chloride	Ave	0.6300	0.5535		18.7	20.0	-12.2	20.0
Bromomethane	Ave	0.3127	0.2870		19.2	20.0	-8.2	30.0
Chloroethane	Lin2		0.3212		19.8	20.0	-0.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4560		17.6	20.0	-12.0	30.0
Ethyl ether	Ave	0.2603	0.2528		20.8	20.0	-2.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.2911		18.9	20.0	-9.0	20.0
Carbon disulfide	Ave	1.395	1.266		18.2	20.0	-9.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1663		17.9	20.0	-10.5	30.0
Acrolein	Ave	0.7836	0.7714		984	1000	-1.6	30.0
Methylene Chloride	Lin1		0.3608		20.7	20.0	3.4	30.0
Acetone	Lin2		0.0546		209	200	4.5	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6417		18.2	20.0	-9.1	30.0
Methyl acetate	Lin1		0.1507		207	200	3.6	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6704		19.2	20.0	-4.1	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3628		189	200	-5.4	30.0
Isopropyl ether	Ave	1.997	1.926		19.4	20.0	-3.6	30.0
1,1-Dichloroethane	Ave	0.7919	0.7422	0.1000	20.0	20.0	-6.3	30.0
Acrylonitrile	Lin1		0.0659		20.3	20.0	1.4	30.0
Tert-butyl ethyl ether	Ave	1.194	1.175		19.7	20.0	-1.5	30.0
Vinyl acetate	Ave	0.5745	0.5927		206	200	3.2	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5877		19.1	20.0	-4.4	30.0
2,2-Dichloropropane	Ave	0.5371	0.4569		19.4	20.0	-14.9	30.0
Chlorobromomethane	Ave	0.1386	0.1366		19.7	20.0	-1.4	30.0
Cyclohexane	Ave	0.8898	0.7961		18.0	20.0	-10.5	30.0
Chloroform	Ave	0.6243	0.5772		19.8	20.0	-7.5	20.0
Carbon tetrachloride	Ave	0.3645	0.3368		18.4	20.0	-7.6	30.0
Tetrahydrofuran	Ave	0.0762	0.0745		213	200	-2.2	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4633		17.7	20.0	-10.4	30.0
2-Butanone (MEK)	Ave	0.0960	0.0947		210	200	-1.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4586		18.4	20.0	-8.1	30.0
Benzene	Ave	1.352	1.315		19.5	20.0	-2.7	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7620		20.0	20.0	0.0	30.0
1,2-Dichloroethane	Ave	0.3253	0.3207		19.7	20.0	-1.4	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3173		18.5	20.0	-16.6	30.0
Methylcyclohexane	Ave	0.6300	0.5754		18.3	20.0	-8.7	30.0
Trichloroethene	Ave	0.3155	0.2950		19.4	20.0	-6.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1671		17.9	20.0	-10.7	30.0
Dibromomethane	Ave	0.1188	0.1209		20.3	20.0	1.8	30.0

TC 3/31/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48711/2 Calibration Date: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44798.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3026		21.5	20.0	-4.9	20.0
Dichlorobromomethane	Ave	0.3427	0.3416		19.8	20.0	-0.3	30.0
Methyl methacrylate	Ave	0.0864	0.0927		21.0	20.0	7.3	30.0
1,4-Dioxane	Qua		0.0204		190	200	-5.0	30.0
2-Chloroethyl vinyl ether	Lin		0.0414		222	200	11.0	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.4142		20.8	20.0	4.2	30.0
Toluene	Ave	0.7062	0.6889		20.1	20.0	-2.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.2131		209	200	4.0	30.0
Tetrachloroethene	Ave	0.1859	0.1874		20.1	20.0	0.8	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.3076		21.2	20.0	5.5	30.0
1,1,2-Trichloroethane	Lin1		0.1310		20.9	20.0	4.7	30.0
Chlorodibromomethane	Ave	0.1504	0.1549		20.6	20.0	3.0	30.0
1,3-Dichloropropane	Ave	0.2828	0.2918		20.6	20.0	3.2	30.0
Ethylene Dibromide	Ave	0.1260	0.1329		21.1	20.0	5.5	30.0
2-Hexanone	Ave	0.1294	0.1350		212	200	4.3	30.0
Chlorobenzene	Ave	1.096	1.063	0.3000	19.5	20.0	-3.0	30.0
Ethylbenzene	Ave	2.279	2.113		19.8	20.0	-7.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3333		20.1	20.0	-4.1	30.0
m-Xylene & p-Xylene	Ave	1.752	1.637		37.4	40.0	-6.6	30.0
o-Xylene	Ave	1.903	1.780		18.8	20.0	-6.5	30.0
Styrene	Ave	1.294	1.244		19.3	20.0	-3.9	30.0
Bromoform	Ave	0.3131	0.3200	0.1000	19.3	20.0	2.2	20.0
Isopropylbenzene	Ave	2.255	2.092		18.6	20.0	-7.2	30.0
Bromobenzene	Ave	1.024	0.9511		18.7	20.0	-7.1	30.0
N-Propylbenzene	Ave	2.901	2.655		18.3	20.0	-8.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6784	0.3000	19.7	20.0	-0.9	30.0
2-Chlorotoluene	Ave	1.927	1.771		18.5	20.0	-8.1	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.715		18.5	20.0	-7.4	30.0
1,2,3-Trichloropropane	Lin2		0.0630		20.3	20.0	1.4	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1056		19.9	20.0	-0.6	30.0
4-Chlorotoluene	Ave	1.683	1.567		18.5	20.0	-6.9	30.0
tert-Butylbenzene	Ave	1.471	1.371		18.6	20.0	-6.8	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.716		18.2	20.0	-8.4	30.0
sec-Butylbenzene	Ave	2.518	2.298		18.3	20.0	-8.7	30.0
4-Isopropyltoluene	Ave	1.894	1.751		18.4	20.0	-7.6	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7806		18.5	20.0	-7.2	30.0
1,4-Dichlorobenzene	Ave	1.788	1.741		19.5	20.0	-2.6	30.0
n-Butylbenzene	Ave	4.614	4.348		18.8	20.0	-5.8	30.0
1,2-Dichlorobenzene	Ave	1.492	1.464		19.6	20.0	-1.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0775		20.1	20.0	0.7	30.0
Hexachlorobutadiene	Ave	0.5170	0.4963		19.2	20.0	-4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48711/2 Calibration Date: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44798.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9552		19.6	20.0	-2.0	30.0
Naphthalene	Ave	1.288	1.298		20.2	20.0	0.8	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7322		20.3	20.0	1.5	30.0
Dibromofluoromethane	Ave	0.2328	0.2332		20.0	20.0	0.2	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9123		20.5	20.0	2.7	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5523		19.3	20.0	-3.6	30.0

TC 3/31/10

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44581.D Lab Sample ID: MB 360-48353/3-A

Matrix: Solid Heated Purge:(Y/N) N

Instrument ID: HP #1 GC/MS Date Analyzed: 08/29/2009 04:27

GC Column: RTX-VMS ID: 0.25(um)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 360-48353/1-A	V44576.D	08/29/2009 02:27
	LCSD 360-48353/2-A	V44577.D	08/29/2009 02:51
OC-SB-400-5.0/7.0-XXX	360-24309-2	V44589.D	08/29/2009 07:39
OC-SB-401-7.5/9.5-XXX	360-24309-4	V44590.D	08/29/2009 08:03
OC-SB-402-7.5/9.5-XXX	360-24309-6	V44591.D	08/29/2009 08:27
OC-SB-407-8.0/10.0-XXX	360-24309-9	V44592.D	08/29/2009 08:51
OC-SB-408-7.0/9.9-XXX	360-24309-11	V44593.D	08/29/2009 09:15
OC-SB-414-6.0/8.0-XXX	360-24309-14	V44594.D	08/29/2009 09:39
OC-SB-422-6.0/8.0-XXX	360-24309-17	V44595.D	08/29/2009 10:03
OC-SB-429-6.0/8.0-XXX	360-24309-19	V44596.D	08/29/2009 10:27
OC-SB-430-8.0/10-DUP	360-24309-22	V44597.D	08/29/2009 10:50

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44632.D Lab Sample ID: MB 360-48405/3-A

Matrix: Solid Heated Purge: (Y/N) N

Instrument ID: HP #1 GC/MS Date Analyzed: 09/01/2009 05:33

GC Column: RTX-VMS ID: 0.25(um)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 360-48405/1-A	V44627.D	09/01/2009 03:33
	LCSD 360-48405/2-A	V44628.D	09/01/2009 03:57
OC-SB-430-8.0/10-XXX MS	360-24309-23 MS	V44629.D	09/01/2009 04:20
OC-SB-430-8.0/10-XXX MSD	360-24309-23 MSD	V44630.D	09/01/2009 04:45
OC-SB-430-8.0/10-XXX	360-24309-23	V44634.D	09/01/2009 06:21

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44650.D Lab Sample ID: MB 360-48468/3-A

Matrix: Solid Heated Purge: (Y/N) N

Instrument ID: HP #1 GC/MS Date Analyzed: 09/01/2009 18:10

GC Column: RTX-VMS ID: 0.25(um)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 360-48468/1-A	V44647.D	09/01/2009 16:57
	LCSD 360-48468/2-A	V44648.D	09/01/2009 17:22
OC-TBK-008	360-24309-24	V44651.D	09/01/2009 18:34
OC-SB-422-0.0/1.0-XXX	360-24309-15	V44659.D	09/01/2009 21:47

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44722.D Lab Sample ID: MB 360-48522/3-A

Matrix: Solid Heated Purge: (Y/N) N

Instrument ID: HP #1 GC/MS Date Analyzed: 09/03/2009 05:36

GC Column: RTX-VMS ID: 0.25 (um)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 360-48522/1-A	V44719.D	09/03/2009 04:24
	LCSD 360-48522/2-A	V44720.D	09/03/2009 04:48
OC-TBK-008	360-24309-24	V44723.D	09/03/2009 05:59
OC-SB-414-0.0/1.0-XXX	360-24309-12	V44731.D	09/03/2009 09:12
OC-SB-422-0.0/1.0-XXX	360-24309-15	V44732.D	09/03/2009 09:36

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V07485.D Lab Sample ID: MB 360-48640/3-A

Matrix: Solid Heated Purge: (Y/N) N

Instrument ID: HP #3 GC/MS Date Analyzed: 09/05/2009 02:24

GC Column: RTX-VMS ID: 0.25(um)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 360-48640/1-A	V07482.D	09/05/2009 01:15
	LCSD 360-48640/2-A	V07483.D	09/05/2009 01:38
OC-SB-400-0.0/1.0-XXX	360-24309-1	V07494.D	09/05/2009 05:47
OC-SB-401-0.0/1.0-XXX	360-24309-3	V07495.D	09/05/2009 06:10
OC-SB-402-0.0/1.0-XXX	360-24309-5	V07496.D	09/05/2009 06:33
OC-SB-407-0.0/1.0-XXX	360-24309-7	V07497.D	09/05/2009 06:55
OC-SB-408-0.0/1.0-XXX	360-24309-10	V07498.D	09/05/2009 07:18

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab File ID: V44802.D Lab Sample ID: MB 360-48710/3-A

Matrix: Solid Heated Purge: (Y/N) N

Instrument ID: HP #1 GC/MS Date Analyzed: 09/08/2009 21:38

GC Column: RTX-VMS ID: 0.25(um)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 360-48710/1-A	V44799.D	09/08/2009 20:26
	LCSD 360-48710/2-A	V44800.D	09/08/2009 20:50
OC-SB-430-0.0/1.0-XXX	360-24309-20	V44803.D	09/08/2009 22:02

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Westfield Job No.: 360-24309-1 Analy Batch No.: 48701

SDG No.: OCRI-06

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2009 16:02 Calibration End Date: 09/08/2009 18:49 Calibration ID: 4239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 360-48701/3	V44790.D
Level 2	STD001 360-48701/4	V44791.D
Level 3	STD005 360-48701/5	V44792.D
Level 4	STD010 360-48701/6	V44793.D
Level 5	STD20 360-48701/2	V44788.D
Level 6	STD040 360-48701/7	V44794.D
Level 7	STD080 360-48701/8	V44795.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Lin1	6613 502578	10598 977504	63118	128811	277413	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Chloromethane	FB	Ave	13500 916122	20333 1788702	116378	238724	494926	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Vinyl chloride	FB	Ave	9169 641231	14220 1256162	81258	167258	349420	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Bromomethane	FB	Ave	4659 310659	7794 601081	40223	78648	171388	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Chloroethane	FB	Lin2	6253 351097	9026 672103	46870	93571	198496	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	7549 528277	11834 1048831	64561	134764	296832	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Ethyl ether	FB	Ave	4193 273852	6404 534136	30911	63326	130727	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Ethanol	FB	Lin1	2999 92162	1701 175605	8889	23233	45571	25.0 2000	50.0 4000	250	500	1000
1,1-Dichloroethene	FB	Ave	5398 330686	7015 661089	42949	83332	181410	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Carbon disulfide	FB	Ave	20131 1393504	30515 2723314	190713	369894	775704	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	2723 187273	4268 367750	24325	47955	103424	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Acrolein	12DC E	Ave	25904 1850854	41817 3349829	205802	436173	926931	25.0 2000	50.0 4000	250	500	1000
Isopropyl alcohol	FB	Lin2	10207 576374	17196 1106554	64646	136806	278274	25.0 2000	50.0 4000	250	500	1000
Methylene Chloride	FB	Lin1	13721 379330	14400 727804	55242	98400	200380	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Acetone	FB	Lin2	13088 579609	17392 1278043	64713	143437	257117	5.00 400	10.0 800	50.0	100	200

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Westfield Job No.: 360-24309-1 Analy Batch No.: 48701

SDG No.: OCRI-06

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2009 16:02 Calibration End Date: 09/08/2009 18:49 Calibration ID: 4239

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
trans-1,2-Dichloroethene	FB	Ave	10336 703469	16454 1380645	95508	181051	380818	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Methyl acetate	FB	Lin1	19653 1538081	36950 3024387	195167	351535	758783	5.00 400	10.0 800	50.0	100	200
Hexane	FB	Ave	11256 901861	18666 1775376	112985	226103	486481	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Methyl tert-butyl ether	FB	Ave	10690 726412	17244 1387323	88738	175974	352465	0.500 40.0	1.00 80.0	5.00	10.0	20.0
2-Methyl-2-propanol	12DCE	Ave	2360 177246	4630 333144	20425	41537	87491	5.00 400	10.0 800	50.0	100	200
Isopropyl ether	FB	Ave	29981 2090528	46475 4030318	250990	509076	1040620	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	11854 812137	17921 1615369	102907	202166	425340	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Acrylonitrile	FB	Lin1	2485 71720	2037 142124	8466	16239	34950	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	17543 1240271	28665 2362993	156807	306119	614697	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Vinyl acetate	FB	Ave	86693 6336969	133687 12131073	676070	1380348	3153836	5.00 400	10.0 800	50.0	100	200
1,4-Dioxane	12DCE	Qua	+++++ 10096	+++++ 17085	988	2741	4860	+++++ 400	+++++ 800	50.0	100	200
cis-1,2-Dichloroethene	FB	Ave	8721 635849	14483 1267553	80079	159080	327991	0.500 40.0	1.00 80.0	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	8159 509405	12461 950562	74725	140779	293186	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Cyclohexane	FB	Ave	11363 904173	20559 1716728	121800	241271	500643	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Chlorobromomethane	FB	Ave	2116 144407	3336 289523	17038	33968	72931	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Chloroform	FB	Ave	9544 639408	14429 1288463	80040	152524	322406	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Ethyl acetate	FB	Ave	24792 2263151	45419 4631392	235349	491638	1048271	5.00 400	10.0 800	50.0	100	200
Carbon tetrachloride	FB	Ave	5463 375914	7927 757679	48230	93476	198141	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	12827 790908	19141 1545716	89814	179584	374479	5.00 400	10.0 800	50.0	100	200
sec-Butyl Alcohol	FB	Ave	12118 1103850	23053 2152306	111074	244906	501984	25.0 2000	50.0 4000	250	500	1000
1,1,1-Trichloroethane	FB	Ave	7856 519536	12540 1023629	68176	131281	283172	0.500 40.0	1.00 80.0	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Westfield Job No.: 360-24309-1 Analy Batch No.: 48701

SDG No.: OCRI-06

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2009 16:02 Calibration End Date: 09/08/2009 18:49 Calibration ID: 4239

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Butanone (MEK)	FB	Ave	16129 1047269	23199 2093580	105887	236480	491579	5.00 400	10.0 800	50.0	100	200
1,1-Dichloropropene	FB	Ave	7267 520634	11007 1064726	63358	124902	280860	0.500 40.0	1.00 80.0	5.00	10.0	20.0
n-Heptane	FB	Ave	11018 969521	18406 1925322	119025	239378	529679	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Benzene	FB	Ave	19274 1407044	30433 2858692	172339	346778	747288	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Tert-amyl methyl ether	FB	Ave	11480 802225	18038 1566222	95282	193119	394308	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	4909 346119	7912 715154	37354	79837	170539	0.500 40.0	1.00 80.0	5.00	10.0	20.0
2,4,4-Trimethyl-1-pentene	FB	Ave	6352 379338	8721 701991	49740	96730	209340	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Isopropyl acetate	FB	Ave	51928 4594317	101483 8911671	531347	1080300	2200123	5.00 400	10.0 800	50.0	100	200
Methylcyclohexane	FB	Ave	7897 645837	14702 1237996	84509	170210	363872	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Trichloroethene	FB	Ave	3941 328348	7101 677158	37433	77629	169103	0.500 40.0	1.00 80.0	5.00	10.0	20.0
2,4,4-Trimethyl-2-pentene	FB	Ave	2729 195663	4045 393971	24237	47089	105432	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Dibromomethane	FB	Ave	1791 125562	2872 256520	14738	28720	62419	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	5066 316433	8031 592597	39984	79841	164993	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Dichlorobromomethane	FB	Ave	5066 368193	8284 769426	40935	82755	185450	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	1396 94996	2139 203394	9630	20907	45054	0.500 40.0	1.00 80.0	5.00	10.0	20.0
n-Propyl acetate	FB	Ave	31447 2806908	58119 5863404	299593	624398	1338334	5.00 400	10.0 800	50.0	100	200
2-Chloroethyl vinyl ether	FB	Lin	4568 400324	6758 906674	35337	77169	177717	5.00 400	10.0 800	50.0	100	200
cis-1,3-Dichloropropene	FB	Ave	5678 432998	8547 912617	48273	97814	221305	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Toluene	FB	Ave	10336 738253	15837 1553625	86910	175791	388083	0.500 40.0	1.00 80.0	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	30597 2246234	49694 4087795	241736	516674	1078076	5.00 400	10.0 800	50.0	100	200
Tetrachloroethene	FB	Ave	2540 193906	4186 413998	23372	47111	106416	0.500 40.0	1.00 80.0	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Westfield Job No.: 360-24309-1 Analy Batch No.: 48701

SDG No.: OCRI-06

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2009 16:02 Calibration End Date: 09/08/2009 18:49 Calibration ID: 4239

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
trans-1,3-Dichloropropene	FB	Ave	4253 314581	6551 666550	34136	70961	158618	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Isobutyl acetate	FB	Ave	75250 6429112	141950 11874507	769321	1553104	3101904	5.00 400	10.0 800	50.0	100	200
1,1,2-Trichloroethane	FB	Lin1	2236 137271	2854 284316	15400	29985	66278	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Chlorodibromomethane	FB	Ave	2255 164179	3419 346032	17235	36050	81213	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,3-Dichloropropane	FB	Ave	4202 305050	6665 641485	33082	67881	149877	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Ethylene Dibromide	FB	Ave	1910 137196	2862 288980	14581	30530	66860	0.500 40.0	1.00 80.0	5.00	10.0	20.0
n-Butyl acetate	FB	Ave	44554 3584782	82387 7209917	409863	825295	1704702	5.00 400	10.0 800	50.0	100	200
2-Hexanone	FB	Ave	21345 1428419	29063 2865435	137333	320437	668449	5.00 400	10.0 800	50.0	100	200
Chlorobenzene	CBZ	Ave	9205 708518	14727 1509119	80976	164446	360562	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	20676 1413558	31035 2877998	175955	346096	755744	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	3014 222021	4910 446761	26214	53450	114747	0.500 40.0	1.00 80.0	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	30532 2194022	48240 4399323	270677	542733	1174641	1.00 80.0	2.00 160	10.0	20.0	40.0
o-Xylene	CBZ	Ave	16590 1197814	26491 2315598	146751	297477	631016	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Styrene	CBZ	Ave	11530 836793	17515 1679316	97693	193796	421136	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Bromoform	DCB	Ave	1363 93408	2020 185008	10145	21518	47049	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	18706 1444529	30180 2815818	177679	356453	764824	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Bromobenzene	CBZ	Ave	9341 625196	15045 1180053	78817	159829	325603	0.500 40.0	1.00 80.0	5.00	10.0	20.0
N-Propylbenzene	CBZ	Ave	25305 1787361	40882 3412692	230680	460055	975719	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	3076 200765	4698 374711	23962	48915	97095	0.500 40.0	1.00 80.0	5.00	10.0	20.0
2-Chlorotoluene	CBZ	Ave	16985 1155992	27829 2223583	154727	303424	626613	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,3,5-Trimethylbenzene	CBZ	Ave	16026 1146698	25547 2187971	148416	297760	612474	0.500 40.0	1.00 80.0	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Westfield Job No.: 360-24309-1 Analy Batch No.: 48701

SDG No.: OCRI-06

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2009 16:02 Calibration End Date: 09/08/2009 18:49 Calibration ID: 4239

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,3-Trichloropropane	CBZ	Lin2	755 41997	1073 80793	5035	9953	20219	0.500 40.0	1.00 80.0	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	CBZ	Lin1	1433 75627	1632 140395	8205	16285	36362	0.500 40.0	1.00 80.0	5.00	10.0	20.0
4-Chlorotoluene	CBZ	Ave	15421 1040006	23603 1988967	131394	269054	552065	0.500 40.0	1.00 80.0	5.00	10.0	20.0
tert-Butylbenzene	CBZ	Ave	12451 943217	19576 1777426	117503	234954	503011	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,2,4-Trimethylbenzene	CBZ	Ave	17329 1137324	26971 2124712	152226	295161	606154	0.500 40.0	1.00 80.0	5.00	10.0	20.0
sec-Butylbenzene	CBZ	Ave	21485 1557321	34738 2922053	203615	406385	854111	0.500 40.0	1.00 80.0	5.00	10.0	20.0
4-Isopropyltoluene	CBZ	Ave	16891 1159908	25790 2192884	154060	305895	635879	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,3-Dichlorobenzene	CBZ	Ave	7984 501043	12223 964032	66461	132068	266488	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	7837 488193	12357 934562	64869	128851	260477	0.500 40.0	1.00 80.0	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	18840 1254934	30499 2343201	177857	348841	717594	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	6768 408294	10236 777635	53767	107179	217446	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	339 21402	537 41881	2783	5289	11241	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	4913 358258	8930 681678	49374	99041	197692	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	2197 136882	3426 255841	19675	39000	82229	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	4463 262092	6983 505140	34712	69208	141932	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Naphthalene	DCB	Ave	6268 356684	9187 700019	42988	88664	176157	0.500 40.0	1.00 80.0	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	3551 198118	4719 376595	25146	51725	102596	0.500 40.0	1.00 80.0	5.00	10.0	20.0
Dibromofluoromethane	FB	Ave	123486 121377	114235 125436	113868	115917	135188	20.0 20.0	20.0 20.0	20.0	20.0	20.0
Toluene-d8 (Surr)	FB	Ave	452927 473522	428628 499941	428719	446458	512124	20.0 20.0	20.0 20.0	20.0	20.0	20.0
4-Bromofluorobenzene	CBZ	Ave	182984 184336	173044 181531	169284	177504	196681	20.0 20.0	20.0 20.0	20.0	20.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Westfield | Job No.: 360-24309-1 | Analy Batch No.: 48701

SDG No.: OCRI-06

Instrument ID: HP #1 GC/MS | GC Column: RTX-VMS | ID: 0.25(um) | Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2009 16:02 | Calibration End Date: 09/08/2009 18:49 | Calibration ID: 4239

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48469/2 Calibration Date: 09/01/2009 16:33

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44646.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3550		18.0	20.0	-10.0	30.0
Chloromethane	Lin		0.6081	0.1000	20.7	20.0	3.5	30.0
Vinyl chloride	Lin		0.4438		20.2	20.0	0.9	20.0
Bromomethane	Lin		0.2965		20.4	20.0	2.0	30.0
Chloroethane	Lin		0.2496		20.8	20.0	4.2	30.0
Trichlorofluoromethane	Lin		0.4051		18.0	20.0	-9.9	30.0
Ethyl ether	Ave	0.1998	0.1626		16.3	20.0	-18.6	30.0
1,1-Dichloroethene	Lin		0.3030		18.9	20.0	-5.6	20.0
Ethanol	Lin		0.0015			1000	13.8	30.0
Carbon disulfide	Ave	1.172	1.057		18.0	20.0	-9.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.1783		17.3	20.0	-13.7	30.0
Acrolein	Lin1		0.5110		1010	1000	1.5	30.0
Isopropyl alcohol	Ave	0.0091	0.0082			1000	-10.0	30.0
Methylene Chloride	Lin		0.3533		20.9	20.0	4.3	30.0
Acetone	Qua		0.0419		155	200	-22.3	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.4760		18.0	20.0	-9.8	30.0
Methyl acetate	Lin		0.0983		138	200	-31.0*	30.0
Hexane	Lin		0.5476			20.0	-2.3	30.0
Methyl tert-butyl ether	Lin		0.4761		17.2	20.0	-13.9	30.0
2-Methyl-2-propanol	Lin1		0.2258		177	200	-11.4	30.0
Isopropyl ether	Ave	1.438	1.266		17.6	20.0	-12.0	30.0
1,1-Dichloroethane	Lin		0.5459	0.1000	19.8	20.0	-0.8	30.0
Acrylonitrile	Lin2		0.0436		16.9	20.0	-15.3	30.0
Tert-butyl ethyl ether	Lin		0.7848		18.4	20.0	-8.0	30.0
Vinyl acetate	Lin1		0.3366		216	200	8.1	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4185		18.3	20.0	-8.6	30.0
2,2-Dichloropropane	Qua		0.3889		18.6	20.0	-6.8	30.0
Cyclohexane	Ave	0.6383	0.5857		18.4	20.0	-8.2	30.0
Chlorobromomethane	Ave	0.1791	0.1411		15.8	20.0	-21.2	30.0
Chloroform	Lin		0.4680		18.1	20.0	-9.6	20.0
Ethyl acetate	Ave	0.1256	0.1153			200	-8.2	30.0
Carbon tetrachloride	Ave	0.3593	0.3375		18.8	20.0	-6.1	30.0
Tetrahydrofuran	Lin1		0.0426		175	200	-12.3	30.0
sec-Butyl Alcohol	Ave	0.0137	0.0119			1000	-13.4	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4279		17.3	20.0	-13.3	30.0
2-Butanone (MEK)	Ave	0.0653	0.0547		167	200	-16.4	30.0
1,1-Dichloropropene	Ave	0.3849	0.3672		19.1	20.0	-4.6	30.0
n-Heptane	Ave	0.5408	0.5253			20.0	-2.9	30.0
Benzene	Ave	1.175	1.053		17.9	20.0	-10.4	30.0
Tert-amyl methyl ether	Lin		0.5571		17.9	20.0	-10.7	30.0

TC 3/31/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48469/2 Calibration Date: 09/01/2009 16:33

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44646.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.2398	0.2022		16.9	20.0	-15.7	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2299		20.5	20.0	2.4	30.0
Isopropyl acetate	Ave	0.2848	0.2583			200	-9.3	30.0
Methylcyclohexane	Ave	0.5730	0.5322		18.6	20.0	-7.1	30.0
Trichloroethene	Ave	0.2943	0.2649		18.0	20.0	-10.0	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1747		18.0	20.0	-9.8	30.0
Dibromomethane	Ave	0.1115	0.0913		16.4	20.0	-18.1	30.0
1,2-Dichloropropane	Lin		0.1948		21.3	20.0	6.4	20.0
Dichlorobromomethane	Ave	0.2830	0.2423		17.1	20.0	-14.4	30.0
Methyl methacrylate	Ave	0.0593	0.0464		15.6	20.0	-21.8	30.0
1,4-Dioxane	Ave	0.0211	0.0216		205	200	2.5	30.0
n-Propyl acetate	Ave	0.1438	0.1294			200	-10.0	30.0
2-Chloroethyl vinyl ether	Lin1		0.0359		164	200	-18.0	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2481		16.7	20.0	-16.3	30.0
Toluene	Ave	0.6775	0.5822		17.2	20.0	-14.1	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1162		171	200	-14.3	30.0
Tetrachloroethene	Ave	0.2090	0.1793		17.2	20.0	-14.2	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1630		15.4	20.0	-23.2	30.0
Isobutyl acetate	Ave	0.3717	0.3613			200	-2.8	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0832		15.3	20.0	-23.6	30.0
Chlorodibromomethane	Ave	0.1624	0.1217		15.0	20.0	-25.1	30.0
1,3-Dichloropropane	Ave	0.2134	0.1650		15.5	20.0	-22.7	30.0
Ethylene Dibromide	Ave	0.1323	0.0988		14.9	20.0	-25.3	30.0
n-Butyl acetate	Lin1		0.1715			200	-13.0	30.0
2-Hexanone	Ave	0.0865	0.0622		144	200	-28.0	30.0
Chlorobenzene	Ave	1.083	0.9982	0.3000	18.4	20.0	-7.8	30.0
Ethylbenzene	Lin		1.924		21.0	20.0	4.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3667		19.2	20.0	-3.8	30.0
m-Xylene & p-Xylene	Lin1		1.474		42.1	40.0	5.3	30.0
o-Xylene	Ave	1.735	1.700		19.6	20.0	-2.0	30.0
Styrene	Ave	1.258	1.133		18.0	20.0	-10.0	30.0
Bromoform	Ave	0.2952	0.2459	0.1000	16.7	20.0	-16.7	20.0
Isopropylbenzene	Ave	2.247	2.309		20.6	20.0	2.8	30.0
Bromobenzene	Ave	0.7726	0.7217		18.7	20.0	-6.6	30.0
N-Propylbenzene	Ave	2.529	2.567		20.3	20.0	1.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.4406	0.3000	17.1	20.0	-14.6	30.0
2-Chlorotoluene	Ave	1.717	1.680		19.6	20.0	-2.2	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.886		20.1	20.0	0.4	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0557		16.3	20.0	-18.6	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0555		15.3	20.0	-23.6	30.0
4-Chlorotoluene	Ave	1.492	1.415		19.0	20.0	-5.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24309-1

SDG No.: OCRI-06

Lab Sample ID: CCVIS 360-48469/2 Calibration Date: 09/01/2009 16:33

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44646.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
tert-Butylbenzene	Ave	1.551	1.607		20.7	20.0	3.6	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.887		19.3	20.0	-3.3	30.0
sec-Butylbenzene	Ave	2.541	2.583		20.3	20.0	1.7	30.0
4-Isopropyltoluene	Ave	2.050	2.090		20.4	20.0	1.9	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.8781		17.9	20.0	-10.5	30.0
1,4-Dichlorobenzene	Ave	1.821	1.622		17.8	20.0	-10.9	30.0
n-Butylbenzene	Ave	3.711	3.905		21.0	20.0	5.2	30.0
1,2-Dichlorobenzene	Ave	1.574	1.430		18.2	20.0	-9.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0712		17.3	20.0	-13.7	30.0
1,3,5-Trichlorobenzene	Ave	1.434	1.600			20.0	11.6	30.0
Hexachlorobutadiene	Ave	0.5157	0.5429		21.1	20.0	5.3	30.0
1,2,4-Trichlorobenzene	Ave	1.075	1.039		19.3	20.0	-3.4	30.0
Naphthalene	Ave	1.428	1.276		17.9	20.0	-10.6	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7871		19.5	20.0	-2.6	30.0
Dibromofluoromethane	Ave	0.2595	0.2472		19.1	20.0	-4.7	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8375		18.8	20.0	-6.2	30.0
4-Bromofluorobenzene	Ave	0.5061	0.4997		19.7	20.0	-1.3	30.0

TC 3/31/10

OCRI-07

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / II / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: OCRI-07 360-24327-1

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES NO NA	
Data completeness ☑ ☐ ☐ All data summaries, QC forms and raw data available from hard copy or electronic data package ☑ ☐ ☐ Data summaries match EDD	Contact lab if missing data. Lab to respond with 24 hours.
Holding Times and Preservation ☑ ☐ ☐ Hold times met (14 days with preservation) ☑ ☐ ☐ Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune) ☑ ☐ ☐ Tune available for each 12-hour period samples were analyzed ☑ ☐ ☐ Appropriate number of significant figures reported (at least 2) ☑ ☐ ☐ Mass/Charge list (m/z) criteria met	
Initial Calibration ☑ ☐ ☐ %RSD less than or equal to 30% ☐ ☑ ☐ RRF greater than or equal to 0.05	8/24/09 HP#1 9/08/09 HP#1 See OCRI-06 for details
Continuing Calibration ☐ ☑ ☐ %D less than or equal to 25% ☑ ☐ ☐ RRF greater than or equal to 0.05.	ICV Qualified for acetone →
Blank Contamination ☑ ☐ ☐ Method blank contamination ☐ ☑ ☐ Trip blank contamination ☐ ☐ ☑ Equipment/Rinseate blank contamination	Evaluate all blanks for contamination. Highest contaminant level used for action level. → only naphthalene and there were no hits in associated samples

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes NO N/A — TIER I / II / III (circle one)

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples ☐ ☑ ☐ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☑ ☐ ☐ MS/MSD RPD criteria met (water and soil <30%) ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	→ See attached Form 3 → See attached Form 3 & 5
Field Duplicates ☑ ☐ ☐ RPD criteria (water <30%, soils <50%) met	
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: _____

Date: 3-31-10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-403-0.0/1.0-XXX**

Lab Sample ID: 360-24327-1
Client Matrix: Solid % Moisture: 6.3

Date Sampled: 08/26/2009 1325
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44804.D
Dilution:	1.0			Initial Weight/Volume:	5.83 g
Date Analyzed:	09/08/2009 2227			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.92	2.3
1,1,1-Trichloroethane		ND		0.92	2.3
1,1,2,2-Tetrachloroethane		ND		0.92	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.92	11
1,1,2-Trichloroethane		ND		0.92	2.3
1,1-Dichloroethane		ND		0.92	2.3
1,1-Dichloroethene		ND		0.92	2.3
1,1-Dichloropropene		ND		0.92	2.3
1,2,3-Trichlorobenzene		ND		0.92	2.3
1,2,3-Trichloropropane		ND		1.3	2.3
1,2,4-Trichlorobenzene		ND		0.92	2.3
1,2,4-Trimethylbenzene		ND		0.92	2.3
1,2-Dibromo-3-Chloropropane		ND		1.6	23
Ethylene Dibromide		ND		0.92	2.3
1,2-Dichlorobenzene		ND		0.92	2.3
1,2-Dichloroethane		ND		0.92	2.3
Acetone		ND		16	230
1,2-Dichloropropane		ND		0.92	2.3
1,3,5-Trimethylbenzene		ND		0.92	2.3
1,3-Dichlorobenzene		ND		0.92	2.3
1,3-Dichloropropane		ND		0.92	2.3
1,4-Dichlorobenzene		ND		0.92	2.3
1,4-Dioxane		ND	J	30	230
2,2-Dichloropropane		ND		0.92	2.3
2,4,4-Trimethyl-1-pentene		ND		0.92	4.6
2,4,4-Trimethyl-2-pentene		ND		0.92	4.6
2-Chlorotoluene		ND		0.92	2.3
2-Hexanone		ND	J	4.7	23
4-Chlorotoluene		ND		0.92	2.3
Benzene		ND		0.92	2.3
Bromobenzene		ND		0.92	2.3
Chlorobromomethane		ND		0.92	2.3
Dichlorobromomethane		ND		0.92	2.3
Bromoform		ND		0.92	2.3
Bromomethane		ND		0.92	4.6
n-Butylbenzene		ND		0.92	2.3
Carbon disulfide		ND		0.92	2.3
Carbon tetrachloride		ND		0.92	2.3
Chlorobenzene		ND		0.92	2.3
Chloroethane		ND		0.92	4.6
Chloroform		ND		0.92	2.3
Chloromethane		ND		0.92	4.6
cis-1,2-Dichloroethene		ND		0.92	2.3
cis-1,3-Dichloropropene		ND		0.92	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.92	2.3

4/1/10 TC

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-403-0.0/1.0-XXX**

Lab Sample ID: 360-24327-1
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 08/26/2009 1325
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44804.D
Dilution:	1.0			Initial Weight/Volume:	5.83 g
Date Analyzed:	09/08/2009 2227			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.92	2.3
Dichlorodifluoromethane		ND	*	0.92	4.6
Ethyl ether		ND		0.92	2.3
Isopropyl ether		ND		0.92	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.92	2.3
Hexachlorobutadiene		ND		0.92	2.3
Isopropylbenzene		ND		0.92	2.3
Methyl acetate		ND		15	46
2-Butanone (MEK)		ND	J	6.2	23
4-Methyl-2-pentanone (MIBK)		ND		4.7	23
Methyl tert-butyl ether		ND		0.92	2.3
Methylcyclohexane		ND		0.92	2.3
Methylene Chloride		ND		4.4	9.2
m-Xylene & p-Xylene		ND		0.92	4.6
Naphthalene		ND		0.92	23
N-Propylbenzene		ND		0.92	2.3
o-Xylene		ND		0.92	2.3
4-Isopropyltoluene		ND		0.92	2.3
sec-Butylbenzene		ND		0.92	2.3
Styrene		ND		0.92	2.3
Tert-amyl methyl ether		ND		0.92	2.3
tert-Butylbenzene		ND		0.92	2.3
Tetrachloroethene		ND		0.92	2.3
Tetrahydrofuran		ND		5.0	23
Toluene		ND		0.92	2.3
trans-1,2-Dichloroethene		ND		0.92	2.3
trans-1,3-Dichloropropene		ND		0.92	2.3
Trichloroethene		ND		0.92	2.3
Trichlorofluoromethane		ND		0.92	4.6
Vinyl chloride		ND		0.92	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	101		70 - 130

4/1/10 TC

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-403-0.0/1.0-XXX**

Lab Sample ID: 360-24327-1
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 08/26/2009 1325
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44804.D
Dilution:	1.0			Initial Weight/Volume:	5.83 g
Date Analyzed:	09/08/2009 2227			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.37	5.2	T J

TC 4/1/10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-403-6.0/8.0-XXX**

Lab Sample ID: 360-24327-3
Client Matrix: Solid

% Moisture: 38.2

Date Sampled: 08/26/2009 1330
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44644.D
Dilution:	1.0			Initial Weight/Volume:	3.43 g
Date Analyzed:	09/01/2009 1022			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		2.4	5.9
1,1,1-Trichloroethane		ND		2.4	5.9
1,1,2,2-Tetrachloroethane		ND		2.4	5.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		2.4	29
1,1,2-Trichloroethane		ND		2.4	5.9
1,1-Dichloroethane		ND		2.4	5.9
1,1-Dichloroethene		ND		2.4	5.9
1,1-Dichloropropene		ND		2.4	5.9
1,2,3-Trichlorobenzene		ND		2.4	5.9
1,2,3-Trichloropropane		ND		3.5	5.9
1,2,4-Trichlorobenzene		ND		2.4	5.9
1,2,4-Trimethylbenzene		ND		2.4	5.9
1,2-Dibromo-3-Chloropropane		ND		4.2	59
Ethylene Dibromide		ND		2.4	5.9
1,2-Dichlorobenzene		ND		2.4	5.9
1,2-Dichloroethane		ND		2.4	5.9
Acetone		ND	J	42	590
1,2-Dichloropropane		ND		2.4	5.9
1,3,5-Trimethylbenzene		ND		2.4	5.9
1,3-Dichlorobenzene		ND		2.4	5.9
1,3-Dichloropropane		ND		2.4	5.9
1,4-Dichlorobenzene		ND		2.4	5.9
1,4-Dioxane		ND	J	78	590
2,2-Dichloropropane		ND		2.4	5.9
2,4,4-Trimethyl-1-pentene		ND		2.4	12
2,4,4-Trimethyl-2-pentene		ND		2.4	12
2-Chlorotoluene		ND		2.4	5.9
2-Hexanone		ND		12	59
4-Chlorotoluene		ND		2.4	5.9
Benzene		ND		2.4	5.9
Bromobenzene		ND		2.4	5.9
Chlorobromomethane		ND		2.4	5.9
Dichlorobromomethane		ND		2.4	5.9
Bromoform		ND		2.4	5.9
Bromomethane		ND		2.4	12
n-Butylbenzene		ND		2.4	5.9
Carbon disulfide		ND		2.4	5.9
Carbon tetrachloride		ND		2.4	5.9
Chlorobenzene		ND		2.4	5.9
Chloroethane		ND		2.4	12
Chloroform		ND		2.4	5.9
Chloromethane		ND		2.4	12
cis-1,2-Dichloroethene		ND		2.4	5.9
cis-1,3-Dichloropropene		ND		2.4	5.9
Cyclohexane		ND		6.1	59
Chlorodibromomethane		ND		2.4	5.9

TC 4/1/10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: OC-SB-403-6.0/8.0-XXX

Lab Sample ID: 360-24327-3
Client Matrix: Solid % Moisture: 38.2

Date Sampled: 08/26/2009 1330
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44644.D
Dilution:	1.0			Initial Weight/Volume:	3.43 g
Date Analyzed:	09/01/2009 1022			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		2.4	5.9
Dichlorodifluoromethane		ND J	*	2.4	12
Ethyl ether		ND		2.4	5.9
Isopropyl ether		ND		2.4	5.9
Tert-butyl ethyl ether		ND		5.9	5.9
Ethylbenzene		ND		2.4	5.9
Hexachlorobutadiene		ND		2.4	5.9
Isopropylbenzene		ND		2.4	5.9
Methyl acetate		ND		38	120
2-Butanone (MEK)		33	J	16	59
4-Methyl-2-pentanone (MIBK)		ND		12	59
Methyl tert-butyl ether		ND		2.4	5.9
Methylcyclohexane		ND		2.4	5.9
Methylene Chloride		ND		11	24
m-Xylene & p-Xylene		ND		2.4	12
Naphthalene		ND		2.4	59
N-Propylbenzene		ND		2.4	5.9
o-Xylene		ND		2.4	5.9
4-Isopropyltoluene		ND		2.4	5.9
sec-Butylbenzene		ND		2.4	5.9
Styrene		ND		2.4	5.9
Tert-amyl methyl ether		ND		2.4	5.9
tert-Butylbenzene		ND		2.4	5.9
Tetrachloroethene		ND		2.4	5.9
Tetrahydrofuran		ND		13	59
Toluene		ND		2.4	5.9
trans-1,2-Dichloroethene		ND		2.4	5.9
trans-1,3-Dichloropropene		ND		2.4	5.9
Trichloroethene		ND		2.4	5.9
Trichlorofluoromethane		ND		2.4	12
Vinyl chloride		ND		2.4	5.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	109		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 4/6/10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-403-6.0/8.0-XXX**

Lab Sample ID: 360-24327-3
Client Matrix: Solid
% Moisture: 38.2

Date Sampled: 08/26/2009 1330
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44644.D
Dilution:	1.0			Initial Weight/Volume:	3.43 g
Date Analyzed:	09/01/2009 1022			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 4/1/10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-404-5.0/7.0-XXX**

Lab Sample ID: 360-24327-5
Client Matrix: Solid % Moisture: 14.6

Date Sampled: 08/26/2009 1520
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44639.D
Dilution:	1.0			Initial Weight/Volume:	6.12 g
Date Analyzed:	09/01/2009 0822			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.96	2.4
1,1,1-Trichloroethane		ND		0.96	2.4
1,1,2,2-Tetrachloroethane		ND		0.96	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.96	12
1,1,2-Trichloroethane		ND		0.96	2.4
1,1-Dichloroethane		ND		0.96	2.4
1,1-Dichloroethene		ND		0.96	2.4
1,1-Dichloropropene		ND		0.96	2.4
1,2,3-Trichlorobenzene		ND		0.96	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.96	2.4
1,2,4-Trimethylbenzene		ND		0.96	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.96	2.4
1,2-Dichlorobenzene		ND		0.96	2.4
1,2-Dichloroethane		ND		0.96	2.4
Acetone		ND	J *	17	240
1,2-Dichloropropane		ND		0.96	2.4
1,3,5-Trimethylbenzene		ND		0.96	2.4
1,3-Dichlorobenzene		ND		0.96	2.4
1,3-Dichloropropane		ND		0.96	2.4
1,4-Dichlorobenzene		ND		0.96	2.4
1,4-Dioxane		ND	J	32	240
2,2-Dichloropropane		ND		0.96	2.4
2,4,4-Trimethyl-1-pentene		ND		0.96	4.8
2,4,4-Trimethyl-2-pentene		ND		0.96	4.8
2-Chlorotoluene		ND		0.96	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.96	2.4
Benzene		ND		0.96	2.4
Bromobenzene		ND		0.96	2.4
Chlorobromomethane		ND		0.96	2.4
Dichlorobromomethane		ND		0.96	2.4
Bromoform		ND		0.96	2.4
Bromomethane		ND		0.96	4.8
n-Butylbenzene		ND		0.96	2.4
Carbon disulfide		ND		0.96	2.4
Carbon tetrachloride		ND		0.96	2.4
Chlorobenzene		ND		0.96	2.4
Chloroethane		ND		0.96	4.8
Chloroform		ND		0.96	2.4
Chloromethane		ND		0.96	4.8
cis-1,2-Dichloroethene		ND		0.96	2.4
cis-1,3-Dichloropropene		ND		0.96	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.96	2.4

TC 4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-404-5.0/7.0-XXX**

Lab Sample ID: 360-24327-5
Client Matrix: Solid % Moisture: 14.6

Date Sampled: 08/26/2009 1520
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44639.D
Dilution:	1.0			Initial Weight/Volume:	6.12 g
Date Analyzed:	09/01/2009 0822			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.96	2.4
Dichlorodifluoromethane		ND J	*	0.96	4.8
Ethyl ether		ND		0.96	2.4
Isopropyl ether		ND		0.96	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.96	2.4
Hexachlorobutadiene		ND		0.96	2.4
Isopropylbenzene		ND		0.96	2.4
Methyl acetate		ND		16	48
2-Butanone (MEK)		ND		6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.96	2.4
Methylcyclohexane		ND		0.96	2.4
Methylene Chloride		ND		4.6	9.6
m-Xylene & p-Xylene		ND		0.96	4.8
Naphthalene		ND		0.96	24
N-Propylbenzene		ND		0.96	2.4
o-Xylene		ND		0.96	2.4
4-Isopropyltoluene		ND		0.96	2.4
sec-Butylbenzene		ND		0.96	2.4
Styrene		ND		0.96	2.4
Tert-amyl methyl ether		ND		0.96	2.4
tert-Butylbenzene		ND		0.96	2.4
Tetrachloroethene		ND		0.96	2.4
Tetrahydrofuran		ND		5.3	24
Toluene		ND		0.96	2.4
trans-1,2-Dichloroethene		ND		0.96	2.4
trans-1,3-Dichloropropene		ND		0.96	2.4
Trichloroethene		ND		0.96	2.4
Trichlorofluoromethane		ND		0.96	4.8
Vinyl chloride		ND		0.96	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC 4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-404-5.0/7.0-XXX**

Lab Sample ID: 360-24327-5
Client Matrix: Solid % Moisture: 14.6

Date Sampled: 08/26/2009 1520
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44639.D
Dilution:	1.0			Initial Weight/Volume:	6.12 g
Date Analyzed:	09/01/2009 0822			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-409-0.0/1.0-XXX**

Lab Sample ID: 360-24327-6
Client Matrix: Solid % Moisture: 4.2

Date Sampled: 08/26/2009 1650
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710	Lab File ID: V44805.D
Dilution:	1.0		Initial Weight/Volume: 5.21 g
Date Analyzed:	09/08/2009 2250		Final Weight/Volume: 5 g
Date Prepared:	09/08/2009 1551		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	4	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND	4	5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-409-0.0/1.0-XXX**

Lab Sample ID: 360-24327-6
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 08/26/2009 1650
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710	Lab File ID: V44805.D
Dilution:	1.0		Initial Weight/Volume: 5.21 g
Date Analyzed:	09/08/2009 2250		Final Weight/Volume: 5 g
Date Prepared:	09/08/2009 1551		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND J		6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TC 4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-409-0.0/1.0-XXX**

Lab Sample ID: 360-24327-6
Client Matrix: Solid % Moisture: 4.2

Date Sampled: 08/26/2009 1650
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44805.D
Dilution:	1.0			Initial Weight/Volume:	5.21 g
Date Analyzed:	09/08/2009 2250			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.36	0.93	T J

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-409-6.0/8.0-XXX**

Lab Sample ID: 360-24327-8
Client Matrix: Solid

% Moisture: 21.3

Date Sampled: 08/26/2009 1705
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44640.D
Dilution:	1.0			Initial Weight/Volume:	6.44 g
Date Analyzed:	09/01/2009 0846			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND J	*	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND J		33	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	4.9
2,4,4-Trimethyl-2-pentene		ND		0.99	4.9
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	4.9
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		2.3	J	0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	4.9
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	4.9
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND		2.5	25
Chlorodibromomethane		ND		0.99	2.5

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-409-6.0/8.0-XXX**

Lab Sample ID: 360-24327-8
Client Matrix: Solid % Moisture: 21.3

Date Sampled: 08/26/2009 1705
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44640.D
Dilution:	1.0			Initial Weight/Volume:	6.44 g
Date Analyzed:	09/01/2009 0846			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND J	*	0.99	4.9
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	4.9
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		ND		5.4	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	4.9
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	96		70 - 130

TC
4-1-10 09/28/2009

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-409-6.0/8.0-XXX**

Lab Sample ID: 360-24327-8
Client Matrix: Solid % Moisture: 21.3

Date Sampled: 08/26/2009 1705
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44640.D
Dilution:	1.0			Initial Weight/Volume:	6.44 g
Date Analyzed:	09/01/2009 0846			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: OC-SB-410-0.0/1.0-XXX

Lab Sample ID: 360-24327-9
Client Matrix: Solid

% Moisture: 10.1

Date Sampled: 08/27/2009 1010
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44806.D
Dilution:	1.0			Initial Weight/Volume:	5.52 g
Date Analyzed:	09/08/2009 2314			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND	J	5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

4-1-10 TC

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: OC-SB-410-0.0/1.0-XXX

Lab Sample ID: 360-24327-9
Client Matrix: Solid

% Moisture: 10.1

Date Sampled: 08/27/2009 1010
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44806.D
Dilution:	1.0			Initial Weight/Volume:	5.52 g
Date Analyzed:	09/08/2009 2314			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND J		6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-410-0.0/1.0-XXX**

Lab Sample ID: 360-24327-9
Client Matrix: Solid

% Moisture: 10.1

Date Sampled: 08/27/2009 1010
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44806.D
Dilution:	1.0			Initial Weight/Volume:	5.52 g
Date Analyzed:	09/08/2009 2314			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.66	4.9	T J

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-410-6.0/8.0-DUP**

Lab Sample ID: 360-24327-11
Client Matrix: Solid % Moisture: 24.1

Date Sampled: 08/27/2009 1015
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44641.D
Dilution:	1.0			Initial Weight/Volume:	6.30 g
Date Analyzed:	09/01/2009 0910			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

TC 4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-410-6.0/8.0-DUP**

Lab Sample ID: 360-24327-11
Client Matrix: Solid

% Moisture: 24.1

Date Sampled: 08/27/2009 1015
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407	Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405	Lab File ID:	V44641.D
Dilution:	1.0		Initial Weight/Volume:	6.30 g
Date Analyzed:	09/01/2009 0910		Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	52
2-Butanone (MEK)		ND		7.0	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.1	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.8	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC
4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-410-6.0/8.0-DUP**

Lab Sample ID: 360-24327-11
Client Matrix: Solid

% Moisture: 24.1

Date Sampled: 08/27/2009 1015
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44641.D
Dilution:	1.0			Initial Weight/Volume:	6.30 g
Date Analyzed:	09/01/2009 0910			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	12.81	5.5	T J

TC
4-01-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-410-6.0/8.0-XXX**

Lab Sample ID: 360-24327-12
Client Matrix: Solid

% Moisture: 23.4

Date Sampled: 08/27/2009 1015
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44674.D
Dilution:	1.0			Initial Weight/Volume:	6.34 g
Date Analyzed:	09/02/2009 0349			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	4 *	18	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	4	34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

4-1-01 Tc

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-410-6.0/8.0-XXX**

Lab Sample ID: 360-24327-12
Client Matrix: Solid

% Moisture: 23.4

Date Sampled: 08/27/2009 1015
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44674.D
Dilution:	1.0			Initial Weight/Volume:	6.34 g
Date Analyzed:	09/02/2009 0349			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.1
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND	*	17	51
2-Butanone (MEK)		ND		6.9	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		7.4	J	5.0	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	90		70 - 130

TC 4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-410-6.0/8.0-XXX**

Lab Sample ID: 360-24327-12
Client Matrix: Solid % Moisture: 23.4

Date Sampled: 08/27/2009 1015
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44674.D
Dilution:	1.0			Initial Weight/Volume:	6.34 g
Date Analyzed:	09/02/2009 0349			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-411-0.0/1.0-XXX**

Lab Sample ID: 360-24327-13
Client Matrix: Solid % Moisture: 6.7

Date Sampled: 08/27/2009 1020
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44807.D
Dilution:	1.0			Initial Weight/Volume:	5.62 g
Date Analyzed:	09/08/2009 2339			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.95	2.4
1,1,1-Trichloroethane		ND		0.95	2.4
1,1,2,2-Tetrachloroethane		ND		0.95	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.95	12
1,1,2-Trichloroethane		ND		0.95	2.4
1,1-Dichloroethane		ND		0.95	2.4
1,1-Dichloroethene		ND		0.95	2.4
1,1-Dichloropropene		ND		0.95	2.4
1,2,3-Trichlorobenzene		ND		0.95	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.95	2.4
1,2,4-Trimethylbenzene		ND		0.95	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.95	2.4
1,2-Dichlorobenzene		ND		0.95	2.4
1,2-Dichloroethane		ND		0.95	2.4
Acetone		ND	J	17	240
1,2-Dichloropropane		ND		0.95	2.4
1,3,5-Trimethylbenzene		ND		0.95	2.4
1,3-Dichlorobenzene		ND		0.95	2.4
1,3-Dichloropropane		ND		0.95	2.4
1,4-Dichlorobenzene		ND		0.95	2.4
1,4-Dioxane		ND	J	31	240
2,2-Dichloropropane		ND		0.95	2.4
2,4,4-Trimethyl-1-pentene		ND		0.95	4.8
2,4,4-Trimethyl-2-pentene		ND		0.95	4.8
2-Chlorotoluene		ND		0.95	2.4
2-Hexanone		ND	J	4.9	24
4-Chlorotoluene		ND		0.95	2.4
Benzene		ND		0.95	2.4
Bromobenzene		ND		0.95	2.4
Chlorobromomethane		ND		0.95	2.4
Dichlorobromomethane		ND		0.95	2.4
Bromoform		ND		0.95	2.4
Bromomethane		ND		0.95	4.8
n-Butylbenzene		ND		0.95	2.4
Carbon disulfide		ND		0.95	2.4
Carbon tetrachloride		ND		0.95	2.4
Chlorobenzene		ND		0.95	2.4
Chloroethane		ND		0.95	4.8
Chloroform		ND		0.95	2.4
Chloromethane		ND		0.95	4.8
cis-1,2-Dichloroethene		ND		0.95	2.4
cis-1,3-Dichloropropene		ND		0.95	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.95	2.4

TC 4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-411-0.0/1.0-XXX**

Lab Sample ID: 360-24327-13
Client Matrix: Solid
% Moisture: 6.7

Date Sampled: 08/27/2009 1020
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710	Lab File ID: V44807.D
Dilution:	1.0		Initial Weight/Volume: 5.62 g
Date Analyzed:	09/08/2009 2339		Final Weight/Volume: 5 g
Date Prepared:	09/08/2009 1551		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.95	2.4
Dichlorodifluoromethane		ND	*	0.95	4.8
Ethyl ether		ND		0.95	2.4
Isopropyl ether		ND		0.95	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.95	2.4
Hexachlorobutadiene		ND		0.95	2.4
Isopropylbenzene		ND		0.95	2.4
Methyl acetate		ND		16	48
2-Butanone (MEK)		ND	J	6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.95	2.4
Methylcyclohexane		ND		0.95	2.4
Methylene Chloride		4.7	J	4.6	9.5
m-Xylene & p-Xylene		ND		0.95	4.8
Naphthalene		ND		0.95	24
N-Propylbenzene		ND		0.95	2.4
o-Xylene		ND		0.95	2.4
4-Isopropyltoluene		ND		0.95	2.4
sec-Butylbenzene		ND		0.95	2.4
Styrene		ND		0.95	2.4
Tert-amyl methyl ether		ND		0.95	2.4
tert-Butylbenzene		ND		0.95	2.4
Tetrachloroethene		ND		0.95	2.4
Tetrahydrofuran		ND		5.2	24
Toluene		ND		0.95	2.4
trans-1,2-Dichloroethene		ND		0.95	2.4
trans-1,3-Dichloropropene		ND		0.95	2.4
Trichloroethene		ND		0.95	2.4
Trichlorofluoromethane		ND		0.95	4.8
Vinyl chloride		ND		0.95	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-411-0.0/1.0-XXX**

Lab Sample ID: 360-24327-13
Client Matrix: Solid % Moisture: 6.7

Date Sampled: 08/27/2009 1020
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44807.D
Dilution:	1.0			Initial Weight/Volume:	5.62 g
Date Analyzed:	09/08/2009 2339			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	1.8	T J

TC
4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-411-4.7/6.7-XXX**

Lab Sample ID: 360-24327-14
Client Matrix: Solid % Moisture: 5.2

Date Sampled: 08/27/2009 1035
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44642.D
Dilution:	1.0			Initial Weight/Volume:	4.89 g
Date Analyzed:	09/01/2009 0934			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

TC
4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-411-4.7/6.7-XXX**

Lab Sample ID: 360-24327-14
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 08/27/2009 1035
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44642.D
Dilution:	1.0			Initial Weight/Volume:	4.89 g
Date Analyzed:	09/01/2009 0934			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		18	54
2-Butanone (MEK)		ND		7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-411-4.7/6.7-XXX**

Lab Sample ID: 360-24327-14
Client Matrix: Solid % Moisture: 5.2

Date Sampled: 08/27/2009 1035
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44642.D
Dilution:	1.0			Initial Weight/Volume:	4.89 g
Date Analyzed:	09/01/2009 0934			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-418-0.0/1.0-XXX**

Lab Sample ID: 360-24327-15
Client Matrix: Solid % Moisture: 7.8

Date Sampled: 08/27/2009 0825
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44808.D
Dilution:	1.0			Initial Weight/Volume:	5.52 g
Date Analyzed:	09/09/2009 0003			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.98	2.5
1,1,1-Trichloroethane		ND		0.98	2.5
1,1,2,2-Tetrachloroethane		ND		0.98	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.98	12
1,1,2-Trichloroethane		ND		0.98	2.5
1,1-Dichloroethane		ND		0.98	2.5
1,1-Dichloroethene		ND		0.98	2.5
1,1-Dichloropropene		ND		0.98	2.5
1,2,3-Trichlorobenzene		ND		0.98	2.5
1,2,3-Trichloropropane		ND		1.4	2.5
1,2,4-Trichlorobenzene		ND		0.98	2.5
1,2,4-Trimethylbenzene		ND		0.98	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.98	2.5
1,2-Dichlorobenzene		ND		0.98	2.5
1,2-Dichloroethane		ND		0.98	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		0.98	2.5
1,3,5-Trimethylbenzene		ND		0.98	2.5
1,3-Dichlorobenzene		ND		0.98	2.5
1,3-Dichloropropane		ND		0.98	2.5
1,4-Dichlorobenzene		ND		0.98	2.5
1,4-Dioxane		ND	J	32	250
2,2-Dichloropropane		ND		0.98	2.5
2,4,4-Trimethyl-1-pentene		ND		0.98	4.9
2,4,4-Trimethyl-2-pentene		ND		0.98	4.9
2-Chlorotoluene		ND		0.98	2.5
2-Hexanone		ND	J	5.1	25
4-Chlorotoluene		ND		0.98	2.5
Benzene		ND		0.98	2.5
Bromobenzene		ND		0.98	2.5
Chlorobromomethane		ND		0.98	2.5
Dichlorobromomethane		ND		0.98	2.5
Bromoform		ND		0.98	2.5
Bromomethane		ND		0.98	4.9
n-Butylbenzene		ND		0.98	2.5
Carbon disulfide		ND		0.98	2.5
Carbon tetrachloride		ND		0.98	2.5
Chlorobenzene		ND		0.98	2.5
Chloroethane		ND		0.98	4.9
Chloroform		ND		0.98	2.5
Chloromethane		ND		0.98	4.9
cis-1,2-Dichloroethene		ND		0.98	2.5
cis-1,3-Dichloropropene		ND		0.98	2.5
Cyclohexane		ND		2.5	25
Chlorodibromomethane		ND		0.98	2.5

TC 4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-418-0.0/1.0-XXX**

Lab Sample ID: 360-24327-15
Client Matrix: Solid % Moisture: 7.8

Date Sampled: 08/27/2009 0825
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710	Lab File ID: V44808.D
Dilution:	1.0		Initial Weight/Volume: 5.52 g
Date Analyzed:	09/09/2009 0003		Final Weight/Volume: 5 g
Date Prepared:	09/08/2009 1551		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.98	2.5
Dichlorodifluoromethane		ND J	*	0.98	4.9
Ethyl ether		ND		0.98	2.5
Isopropyl ether		ND		0.98	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.98	2.5
Hexachlorobutadiene		ND		0.98	2.5
Isopropylbenzene		ND		0.98	2.5
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND J		6.6	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.98	2.5
Methylcyclohexane		ND		0.98	2.5
Methylene Chloride		5.5	J	4.8	9.8
m-Xylene & p-Xylene		ND		0.98	4.9
Naphthalene		ND		0.98	25
N-Propylbenzene		ND		0.98	2.5
o-Xylene		ND		0.98	2.5
4-Isopropyltoluene		ND		0.98	2.5
sec-Butylbenzene		ND		0.98	2.5
Styrene		ND		0.98	2.5
Tert-amyl methyl ether		ND		0.98	2.5
tert-Butylbenzene		ND		0.98	2.5
Tetrachloroethene		ND		0.98	2.5
Tetrahydrofuran		ND		5.4	25
Toluene		ND		0.98	2.5
trans-1,2-Dichloroethene		ND		0.98	2.5
trans-1,3-Dichloropropene		ND		0.98	2.5
Trichloroethene		ND		0.98	2.5
Trichlorofluoromethane		ND		0.98	4.9
Vinyl chloride		ND		0.98	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TC 4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-418-0.0/1.0-XXX**

Lab Sample ID: 360-24327-15
Client Matrix: Solid % Moisture: 7.8

Date Sampled: 08/27/2009 0825
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44808.D
Dilution:	1.0			Initial Weight/Volume:	5.52 g
Date Analyzed:	09/09/2009 0003			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-418-8/10-XXX**

Lab Sample ID: 360-24327-17
Client Matrix: Solid

% Moisture: 9.1

Date Sampled: 08/27/2009 0835
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44643.D
Dilution:	1.0			Initial Weight/Volume:	6.09 g
Date Analyzed:	09/01/2009 0958			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.90	2.3
1,1,1-Trichloroethane		ND		0.90	2.3
1,1,2,2-Tetrachloroethane		ND		0.90	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.90	11
1,1,2-Trichloroethane		ND		0.90	2.3
1,1-Dichloroethane		ND		0.90	2.3
1,1-Dichloroethene		ND		0.90	2.3
1,1-Dichloropropene		ND		0.90	2.3
1,2,3-Trichlorobenzene		ND		0.90	2.3
1,2,3-Trichloropropane		ND		1.3	2.3
1,2,4-Trichlorobenzene		ND		0.90	2.3
1,2,4-Trimethylbenzene		ND		0.90	2.3
1,2-Dibromo-3-Chloropropane		ND		1.6	23
Ethylene Dibromide		ND		0.90	2.3
1,2-Dichlorobenzene		ND		0.90	2.3
1,2-Dichloroethane		ND		0.90	2.3
Acetone		ND	J *	16	230
1,2-Dichloropropane		ND		0.90	2.3
1,3,5-Trimethylbenzene		ND		0.90	2.3
1,3-Dichlorobenzene		ND		0.90	2.3
1,3-Dichloropropane		ND		0.90	2.3
1,4-Dichlorobenzene		ND		0.90	2.3
1,4-Dioxane		ND	J	30	230
2,2-Dichloropropane		ND		0.90	2.3
2,4,4-Trimethyl-1-pentene		ND		0.90	4.5
2,4,4-Trimethyl-2-pentene		ND		0.90	4.5
2-Chlorotoluene		ND		0.90	2.3
2-Hexanone		ND		4.6	23
4-Chlorotoluene		ND		0.90	2.3
Benzene		ND		0.90	2.3
Bromobenzene		ND		0.90	2.3
Chlorobromomethane		ND		0.90	2.3
Dichlorobromomethane		ND		0.90	2.3
Bromoform		ND		0.90	2.3
Bromomethane		ND		0.90	4.5
n-Butylbenzene		ND		0.90	2.3
Carbon disulfide		ND		0.90	2.3
Carbon tetrachloride		ND		0.90	2.3
Chlorobenzene		ND		0.90	2.3
Chloroethane		ND		0.90	4.5
Chloroform		ND		0.90	2.3
Chloromethane		ND		0.90	4.5
cis-1,2-Dichloroethene		ND		0.90	2.3
cis-1,3-Dichloropropene		ND		0.90	2.3
Cyclohexane		ND		2.3	23
Chlorodibromomethane		ND		0.90	2.3

TC 4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-418-8/10-XXX**

Lab Sample ID: 360-24327-17
Client Matrix: Solid
% Moisture: 9.1

Date Sampled: 08/27/2009 0835
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407	Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405	Lab File ID:	V44643.D
Dilution:	1.0		Initial Weight/Volume:	6.09 g
Date Analyzed:	09/01/2009 0958		Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.90	2.3
Dichlorodifluoromethane		ND	*	0.90	4.5
Ethyl ether		ND		0.90	2.3
Isopropyl ether		ND		0.90	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.90	2.3
Hexachlorobutadiene		ND		0.90	2.3
Isopropylbenzene		ND		0.90	2.3
Methyl acetate		ND		15	45
2-Butanone (MEK)		ND		6.1	23
4-Methyl-2-pentanone (MIBK)		ND		4.7	23
Methyl tert-butyl ether		ND		0.90	2.3
Methylcyclohexane		ND		0.90	2.3
Methylene Chloride		ND		4.4	9.0
m-Xylene & p-Xylene		ND		0.90	4.5
Naphthalene		ND		0.90	23
N-Propylbenzene		ND		0.90	2.3
o-Xylene		ND		0.90	2.3
4-Isopropyltoluene		ND		0.90	2.3
sec-Butylbenzene		ND		0.90	2.3
Styrene		ND		0.90	2.3
Tert-amyl methyl ether		ND		0.90	2.3
tert-Butylbenzene		ND		0.90	2.3
Tetrachloroethene		ND		0.90	2.3
Tetrahydrofuran		ND		5.0	23
Toluene		ND		0.90	2.3
trans-1,2-Dichloroethene		ND		0.90	2.3
trans-1,3-Dichloropropene		ND		0.90	2.3
Trichloroethene		ND		0.90	2.3
Trichlorofluoromethane		ND		0.90	4.5
Vinyl chloride		ND		0.90	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	93		70 - 130

4-1-10
TC

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-SB-418-8/10-XXX**

Lab Sample ID: 360-24327-17
Client Matrix: Solid % Moisture: 9.1

Date Sampled: 08/27/2009 0835
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48407		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48405		Lab File ID:	V44643.D
Dilution:	1.0			Initial Weight/Volume:	6.09 g
Date Analyzed:	09/01/2009 0958			Final Weight/Volume:	5 g
Date Prepared:	08/31/2009 1650				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-1-10

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-TBK-009**

Lab Sample ID: 360-24327-18
Client Matrix: Solid

Date Sampled: 08/27/2009 1440
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44809.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/09/2009 0028			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-TBK-009**

Lab Sample ID: 360-24327-18
Client Matrix: Solid

Date Sampled: 08/27/2009 1440
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44809.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/09/2009 0028			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-TBK-009**

Lab Sample ID: 360-24327-18
Client Matrix: Solid

Date Sampled: 08/27/2009 1440
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44809.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/09/2009 0028			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.66	1.7	T J

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-EBK-005**

Lab Sample ID: 360-24327-19
Client Matrix: Water

Date Sampled: 08/27/2009 0800
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48713		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06789.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	09/09/2009 0256			Final Weight/Volume:	5 mL
Date Prepared:	09/09/2009 0256				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND		0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND		0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	ND		0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-EBK-005**

Lab Sample ID: 360-24327-19
Client Matrix: Water

Date Sampled: 08/27/2009 0800
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48713	Instrument ID: Agilent#2 GC/MS
Preparation:	5030B		Lab File ID: V06789.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	09/09/2009 0256		Final Weight/Volume: 5 mL
Date Prepared:	09/09/2009 0256		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND	*	0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	88		70 - 130
Dibromofluoromethane	107		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Olin Corporation

Job Number: 360-24327-1
Sdg Number: OCRI-07

Client Sample ID: **OC-EBK-005**

Lab Sample ID: 360-24327-19
Client Matrix: Water

Date Sampled: 08/27/2009 0800
Date Received: 08/27/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48713		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06789.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	09/09/2009 0256			Final Weight/Volume:	5 mL
Date Prepared:	09/09/2009 0256				

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	2.00	1.5	T J

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab File ID: V06771.D BFB Injection Date: 09/08/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 20:41

Analysis Batch No.: 48713

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.7	
75	30.0 - 60.0 % of mass 95	54.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.3	(0.5)1
174	50.0 - 120.00 % of mass 95	67.0	
175	5.0 - 9.0 % of mass 174	5.2	(7.7)1
176	95.0 - 101.0 % of mass 174	64.8	(96.8)1
177	5.0 - 9.0 % of mass 176	4.3	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48713/2	V06772.D	09/08/2009	21:02
	LCS 360-48713/3	V06773.D	09/08/2009	21:23
	LCSD 360-48713/4	V06774.D	09/08/2009	21:44
	MB 360-48713/6	V06776.D	09/08/2009	22:25
OC-EBK-005	360-24327-19	V06789.D	09/09/2009	02:56

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab File ID: V06680.D BFB Injection Date: 09/03/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:33

Analysis Batch No.: 48601

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.7	
75	30.0 - 60.0 % of mass 95	55.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	67.6	
175	5.0 - 9.0 % of mass 174	4.9	(7.3)1
176	95.0 - 101.0 % of mass 174	65.1	(96.3)1
177	5.0 - 9.0 % of mass 176	4.2	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD03 360-48601/4	V06683.D	09/03/2009	17:36
	STD05 360-48601/5	V06684.D	09/03/2009	17:57
	STD1 360-48601/6	V06685.D	09/03/2009	18:18
	STD5 360-48601/7	V06686.D	09/03/2009	18:38
	STD10 360-48601/8	V06687.D	09/03/2009	18:59
	STD40 360-48601/9	V06688.D	09/03/2009	19:20
	STD80 360-48601/10	V06689.D	09/03/2009	19:41
	STD160 360-48601/11	V06690.D	09/03/2009	20:02

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab File ID: V44418.D BFB Injection Date: 08/24/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 17:23

Analysis Batch No.: 48090

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	42.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	76.7	
175	5.0 - 9.0 % of mass 174	6.0	(7.8)1
176	95.0 - 101.0 % of mass 174	75.2	(98.1)1
177	5.0 - 9.0 % of mass 176	5.0	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48090/2	V44419.D	08/24/2009	17:47
	STD0005 360-48090/3	V44421.D	08/24/2009	18:35
	STD001 360-48090/4	V44422.D	08/24/2009	18:59
	STD005 360-48090/5	V44423.D	08/24/2009	19:24
	STD010 360-48090/6	V44424.D	08/24/2009	19:48
	STD040 360-48090/7	V44425.D	08/24/2009	20:13
	STD080 360-48090/8	V44426.D	08/24/2009	20:37
	ICV 360-48090/10	V44456.D	08/25/2009	15:29

TC
3/31/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab File ID: V44625.D BFB Injection Date: 09/01/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 02:45

Analysis Batch No.: 48407

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.3	
75	30.0 - 60.0 % of mass 95	44.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	77.3	
175	5.0 - 9.0 % of mass 174	5.8	(7.6)1
176	95.0 - 101.0 % of mass 174	75.7	(97.9)1
177	5.0 - 9.0 % of mass 176	5.0	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48407/2	V44626.D	09/01/2009	03:09
	LCS 360-48405/1-A	V44627.D	09/01/2009	03:33
	LCSD 360-48405/2-A	V44628.D	09/01/2009	03:57
	MB 360-48405/3-A	V44632.D	09/01/2009	05:33
OC-SB-404-5.0/7.0-XXX	360-24327-5	V44639.D	09/01/2009	08:22
OC-SB-409-6.0/8.0-XXX	360-24327-8	V44640.D	09/01/2009	08:46
OC-SB-410-6.0/8.0-DUP	360-24327-11	V44641.D	09/01/2009	09:10
OC-SB-411-4.7/6.7-XXX	360-24327-14	V44642.D	09/01/2009	09:34
OC-SB-418-8/10-XXX	360-24327-17	V44643.D	09/01/2009	09:58
OC-SB-403-6.0/8.0-XXX	360-24327-3	V44644.D	09/01/2009	10:22

Clean

Acetone 62%
Dichlorodifluoromethane 47%/49%

acetone -29%
dichlorodifluoromethane -55%

TC
3/31/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab File ID: V44666.D BFB Injection Date: 09/02/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 00:36

Analysis Batch No.: 48475

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.2	
75	30.0 - 60.0 % of mass 95	45.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	76.1	
175	5.0 - 9.0 % of mass 174	5.8	(7.6)1
176	95.0 - 101.0 % of mass 174	74.5	(97.9)1
177	5.0 - 9.0 % of mass 176	4.8	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48475/2	V44667.D	09/02/2009	01:00
	LCS 360-48473/1-A	V44668.D	09/02/2009	01:24
	LCSD 360-48473/2-A	V44669.D	09/02/2009	01:48
OC-SB-410-6.0/8.0-XXX MS	360-24327-12 MS	V44670.D	09/02/2009	02:12
OC-SB-410-6.0/8.0-XXX MSD	360-24327-12 MSD	V44671.D	09/02/2009	02:36
	MB 360-48473/3-A	V44673.D	09/02/2009	03:25
OC-SB-410-6.0/8.0-XXX	360-24327-12	V44674.D	09/02/2009	03:49

Clean

Acetone 66% | 56%
Dichlorodifluoromethane 51% | 49%

TC 3/31/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

TC 3/31/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab File ID: V44797.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 19:37

Analysis Batch No.: 48711

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.8	
75	30.0 - 60.0 % of mass 95	52.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.7	
175	5.0 - 9.0 % of mass 174	5.5	(8.3)1
176	95.0 - 101.0 % of mass 174	65.1	(97.6)1
177	5.0 - 9.0 % of mass 176	4.4	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48711/2	V44798.D	09/08/2009	20:02
	LCS 360-48710/1-A	V44799.D	09/08/2009	20:26
	LCSD 360-48710/2-A	V44800.D	09/08/2009	20:50
	MB 360-48710/3-A	V44802.D	09/08/2009	21:38
OC-SB-403-0.0/1.0-XXX	360-24327-1	V44804.D	09/08/2009	22:27
OC-SB-409-0.0/1.0-XXX	360-24327-6	V44805.D	09/08/2009	22:50
OC-SB-410-0.0/1.0-XXX	360-24327-9	V44806.D	09/08/2009	23:14
OC-SB-411-0.0/1.0-XXX	360-24327-13	V44807.D	09/08/2009	23:39
OC-SB-418-0.0/1.0-XXX	360-24327-15	V44808.D	09/09/2009	00:03
OC-TBK-009	360-24327-18	V44809.D	09/09/2009	00:28

Dichlorodifluoromethane 61%/62%

TC 3/31/10

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-403-0.0/1.0-XXX	360-24327-1	100	101	102
OC-SB-403-6.0/8.0-XXX	360-24327-3	109	92	102
OC-SB-404-5.0/7.0-XXX	360-24327-5	103	92	102
OC-SB-409-0.0/1.0-XXX	360-24327-6	105	99	105
OC-SB-409-6.0/8.0-XXX	360-24327-8	99	96	97
OC-SB-410-0.0/1.0-XXX	360-24327-9	102	100	104
OC-SB-410-6.0/8.0-DUP	360-24327-11	103	92	101
OC-SB-410-6.0/8.0-XXX	360-24327-12	103	90	103
OC-SB-411-0.0/1.0-XXX	360-24327-13	103	99	102
OC-SB-411-4.7/6.7-XXX	360-24327-14	106	93	104
OC-SB-418-0.0/1.0-XXX	360-24327-15	100	98	102
OC-SB-418-8/10-XXX	360-24327-17	104	93	102
OC-TBK-009	360-24327-18	103	100	104
	MB 360-48405/3-A	105	93	104
	MB 360-48473/3-A	104	95	101
	MB 360-48710/3-A	99	101	103
	LCS 360-48405/1-A	96	94	98
	LCS 360-48473/1-A	96	94	101
	LCS 360-48710/1-A	98	100	101
	LCSD 360-48405/2-A	96	94	99
	LCSD 360-48473/2-A	97	94	103
	LCSD 360-48710/2-A	99	101	100
OC-SB-410-6.0/8.0-XXX MS	360-24327-12 MS	98	94	99
OC-SB-410-6.0/8.0-XXX MSD	360-24327-12 MSD	95	93	98

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

TC ✓ 3/31/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: Lab Sample ID: MB 360-48405/3-A

Matrix: Solid Lab File ID: V44632.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48407 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

3/31/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: Lab Sample ID: MB 360-48405/3-A

Matrix: Solid Lab File ID: V44632.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48407 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: | Lab Sample ID: MB 360-48405/3-A

Matrix: Solid | Lab File ID: V44632.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48407 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	104	70-130	
1868-53-7	Dibromofluoromethane	105	70-130	
2037-26-5	Toluene-d8 (Surr)	93	70-130	

3/31/10
TC 09/28/2009

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: Lab Sample ID: MB 360-48405/3-A

Matrix: Solid Lab File ID: V44632.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/01/2009 05:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48407 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

3/31/10
TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: | Lab Sample ID: MB 360-48473/3-A

Matrix: Solid | Lab File ID: V44673.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/02/2009 03:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48475 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: | Lab Sample ID: MB 360-48473/3-A

Matrix: Solid | Lab File ID: V44673.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/02/2009 03:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48475 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

3/31/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: | Lab Sample ID: MB 360-48473/3-A

Matrix: Solid | Lab File ID: V44673.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/02/2009 03:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48475 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	101	70-130	
1868-53-7	Dibromofluoromethane	104	70-130	
2037-26-5	Toluene-d8 (Surr)	95	70-130	

3/31/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: Lab Sample ID: MB 360-48473/3-A

Matrix: Solid Lab File ID: V44673.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/02/2009 03:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48475 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

3/31/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: Lab Sample ID: MB 360-48710/3-A

Matrix: Solid Lab File ID: V44802.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48711 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

TC 3/31/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	1.16	J	25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

No detections in associated samples 09/28/2009 TC 3/31/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: Lab Sample ID: MB 360-48710/3-A

Matrix: Solid Lab File ID: V44802.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48711 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	103	70-130	
1868-53-7	Dibromofluoromethane	99	70-130	
2037-26-5	Toluene-d8 (Surr)	101	70-130	

TC 3/31/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Client Sample ID: Lab Sample ID: MB 360-48710/3-A

Matrix: Solid Lab File ID: V44802.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48711 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

3/31/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44627.D

Lab ID: LCS 360-48405/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	88.7	89	70-130	
1,1,1,2-Tetrachloroethane	100	103	103	70-130	
1,1,2,2-Tetrachloroethane	100	101	101	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	82.5	82	70-130	
1,1,2-Trichloroethane	100	84.8	85	70-130	
1,1-Dichloroethane	100	107	107	70-130	
1,1-Dichloroethene	100	93.3	93	70-130	
1,1-Dichloropropene	100	96.3	96	70-130	
1,2,3-Trichlorobenzene	100	108	108	70-130	
1,2,3-Trichloropropane	100	100	100	70-130	
1,2,4-Trichlorobenzene	100	106	106	70-130	
1,2,4-Trimethylbenzene	100	99.4	99	70-130	
1,2-Dibromo-3-Chloropropane	100	97.8	98	70-130	
Ethylene Dibromide	100	79.3	79	70-130	
1,2-Dichlorobenzene	100	100	100	70-130	
1,2-Dichloroethane	100	95.9	96	70-130	
1,2-Dichloropropane	100	116	116	70-130	
1,3,5-Trimethylbenzene	100	104	104	70-130	
1,3-Dichlorobenzene	100	95.8	96	70-130	
1,3-Dichloropropane	100	86.1	86	70-130	
1,4-Dichlorobenzene	100	98.3	98	70-130	
1,4-Dioxane	1000	956	96	70-130	
2,2-Dichloropropane	100	81.8	82	70-130	
2,4,4-Trimethyl-1-pentene	100	104	104	70-130	
2,4,4-Trimethyl-2-pentene	100	93.0	93	70-130	
2-Chlorotoluene	100	103	103	70-130	
2-Hexanone	1000	745	75	70-130	
4-Chlorotoluene	100	99.9	100	70-130	
Acetone	1000	617	62	70-130	*
Benzene	100	94.9	95	70-130	
Bromobenzene	100	99.9	100	70-130	
Chlorobromomethane	100	87.1	87	70-130	
Dichlorobromomethane	100	93.9	94	70-130	
Bromoform	100	89.1	89	70-130	
Bromomethane	100	95.3	95	70-130	
n-Butylbenzene	100	108	108	70-130	
Carbon disulfide	100	94.6	95	70-130	
Carbon tetrachloride	100	92.5	92	70-130	
Chlorobenzene	100	98.2	98	70-130	
Chloroethane	100	91.7	92	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44627.D

Lab ID: LCS 360-48405/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	101	101	70-130	
Chloromethane	100	89.4	89	70-130	
cis-1,2-Dichloroethene	100	98.6	99	70-130	
cis-1,3-Dichloropropene	100	87.5	87	70-130	
Cyclohexane	100	89.5	89	70-130	
Chlorodibromomethane	100	80.1	80	70-130	
Dibromomethane	100	91.0	91	70-130	
Dichlorodifluoromethane	100	47.3	47	70-130	*
Ethyl ether	100	96.9	97	70-130	
Isopropyl ether	100	95.0	95	70-130	
Tert-butyl ethyl ether	100	102	102	70-130	
Ethylbenzene	100	109	109	70-130	
Hexachlorobutadiene	100	101	101	70-130	
Isopropylbenzene	100	105	105	70-130	
Methyl acetate	1000	963	96	70-130	
2-Butanone (MEK)	1000	851	85	70-130	
4-Methyl-2-pentanone (MIBK)	1000	926	93	70-130	
Methyl tert-butyl ether	100	96.8	97	70-130	
Methylcyclohexane	100	88.0	88	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	219	109	70-130	
Naphthalene	100	100	100	70-130	
N-Propylbenzene	100	104	104	70-130	
o-Xylene	100	103	103	70-130	
4-Isopropyltoluene	100	106	106	70-130	
sec-Butylbenzene	100	104	104	70-130	
Styrene	100	94.8	95	70-130	
Tert-amyl methyl ether	100	99.6	100	70-130	
tert-Butylbenzene	100	107	107	70-130	
Tetrachloroethene	100	84.3	84	70-130	
Tetrahydrofuran	1000	1040	104	70-130	
Toluene	100	89.9	90	70-130	
trans-1,2-Dichloroethene	100	92.0	92	70-130	
trans-1,3-Dichloropropene	100	83.8	84	70-130	
Trichloroethene	100	96.0	96	70-130	
Trichlorofluoromethane	100	78.0	78	70-130	
Vinyl chloride	100	85.5	85	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44628.D

Lab ID: LCSD 360-48405/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	88.6	89	0	25	70-130	
1,1,1,2-Tetrachloroethane	100	102	102	1	25	70-130	
1,1,2,2-Tetrachloroethane	100	104	104	3	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	81.9	82	1	25	70-130	
1,1,2-Trichloroethane	100	88.0	88	4	25	70-130	
1,1-Dichloroethane	100	108	108	0	25	70-130	
1,1-Dichloroethene	100	94.1	94	1	25	70-130	
1,1-Dichloropropene	100	97.6	98	1	25	70-130	
1,2,3-Trichlorobenzene	100	102	102	5	25	70-130	
1,2,3-Trichloropropane	100	103	103	2	25	70-130	
1,2,4-Trichlorobenzene	100	102	102	4	25	70-130	
1,2,4-Trimethylbenzene	100	98.6	99	1	25	70-130	
1,2-Dibromo-3-Chloropropane	100	96.2	96	2	25	70-130	
Ethylene Dibromide	100	84.1	84	6	25	70-130	
1,2-Dichlorobenzene	100	99.7	100	1	25	70-130	
1,2-Dichloroethane	100	96.7	97	1	25	70-130	
1,2-Dichloropropane	100	120	120	3	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	2	25	70-130	
1,3-Dichlorobenzene	100	94.4	94	1	25	70-130	
1,3-Dichloropropane	100	88.1	88	2	25	70-130	
1,4-Dichlorobenzene	100	98.3	98	0	25	70-130	
1,4-Dioxane	1000	1050	105	9	25	70-130	
2,2-Dichloropropane	100	82.9	83	1	25	70-130	
2,4,4-Trimethyl-1-pentene	100	105	105	2	25	70-130	
2,4,4-Trimethyl-2-pentene	100	91.1	91	2	25	70-130	
2-Chlorotoluene	100	101	101	2	25	70-130	
2-Hexanone	1000	794	79	6	25	70-130	
4-Chlorotoluene	100	101	101	1	25	70-130	
Acetone	1000	721	72	16	25	70-130	
Benzene	100	96.1	96	1	25	70-130	
Bromobenzene	100	101	101	1	25	70-130	
Chlorobromomethane	100	88.8	89	2	25	70-130	
Dichlorobromomethane	100	94.9	95	1	25	70-130	
Bromoform	100	94.6	95	6	25	70-130	
Bromomethane	100	97.3	97	2	25	70-130	
n-Butylbenzene	100	106	106	2	25	70-130	
Carbon disulfide	100	94.6	95	0	25	70-130	
Carbon tetrachloride	100	92.1	92	0	25	70-130	
Chlorobenzene	100	98.3	98	0	25	70-130	
Chloroethane	100	92.9	93	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44628.D

Lab ID: LCSD 360-48405/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	101	101	0	25	70-130	
Chloromethane	100	91.5	92	2	25	70-130	
cis-1,2-Dichloroethene	100	100	100	2	25	70-130	
cis-1,3-Dichloropropene	100	88.5	88	1	25	70-130	
Cyclohexane	100	90.0	90	1	25	70-130	
Chlorodibromomethane	100	84.0	84	5	25	70-130	
Dibromomethane	100	92.3	92	1	25	70-130	
Dichlorodifluoromethane	100	48.8	49	3	25	70-130	*
Ethyl ether	100	98.8	99	2	25	70-130	
Isopropyl ether	100	97.3	97	2	25	70-130	
Tert-butyl ethyl ether	100	106	106	4	25	70-130	
Ethylbenzene	100	107	107	2	25	70-130	
Hexachlorobutadiene	100	97.1	97	4	25	70-130	
Isopropylbenzene	100	104	104	1	25	70-130	
Methyl acetate	1000	983	98	2	25	70-130	
2-Butanone (MEK)	1000	889	89	4	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	973	97	5	25	70-130	
Methyl tert-butyl ether	100	101	101	4	25	70-130	
Methylcyclohexane	100	88.5	89	1	25	70-130	
Methylene Chloride	100	104	104	0	25	70-130	
m-Xylene & p-Xylene	200	215	108	2	25	70-130	
Naphthalene	100	97.1	97	3	25	70-130	
N-Propylbenzene	100	103	103	1	25	70-130	
o-Xylene	100	101	101	2	25	70-130	
4-Isopropyltoluene	100	103	103	3	25	70-130	
sec-Butylbenzene	100	102	102	2	25	70-130	
Styrene	100	95.0	95	0	25	70-130	
Tert-amyl methyl ether	100	102	102	3	25	70-130	
tert-Butylbenzene	100	105	105	2	25	70-130	
Tetrachloroethene	100	86.2	86	2	25	70-130	
Tetrahydrofuran	1000	1090	109	5	25	70-130	
Toluene	100	90.7	91	1	25	70-130	
trans-1,2-Dichloroethene	100	92.7	93	1	25	70-130	
trans-1,3-Dichloropropene	100	84.9	85	1	25	70-130	
Trichloroethene	100	95.6	96	0	25	70-130	
Trichlorofluoromethane	100	79.5	80	2	25	70-130	
Vinyl chloride	100	88.0	88	3	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44668.D

Lab ID: LCS 360-48473/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	96.1	96	70-130	
1,1,1,2-Tetrachloroethane	100	110	110	70-130	
1,1,2,2-Tetrachloroethane	100	98.0	98	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	83.1	83	70-130	
1,1,2-Trichloroethane	100	82.3	82	70-130	
1,1-Dichloroethane	100	113	113	70-130	
1,1-Dichloroethene	100	101	101	70-130	
1,1-Dichloropropene	100	101	101	70-130	
1,2,3-Trichlorobenzene	100	110	110	70-130	
1,2,3-Trichloropropane	100	103	103	70-130	
1,2,4-Trichlorobenzene	100	111	111	70-130	
1,2,4-Trimethylbenzene	100	110	110	70-130	
1,2-Dibromo-3-Chloropropane	100	93.6	94	70-130	
Ethylene Dibromide	100	77.1	77	70-130	
1,2-Dichlorobenzene	100	101	101	70-130	
1,2-Dichloroethane	100	93.2	93	70-130	
1,2-Dichloropropane	100	123	123	70-130	
1,3,5-Trimethylbenzene	100	115	115	70-130	
1,3-Dichlorobenzene	100	103	103	70-130	
1,3-Dichloropropane	100	82.9	83	70-130	
1,4-Dichlorobenzene	100	99.8	100	70-130	
1,4-Dioxane	1000	1010	101	70-130	
2,2-Dichloropropane	100	100	100	70-130	
2,4,4-Trimethyl-1-pentene	100	108	108	70-130	
2,4,4-Trimethyl-2-pentene	100	92.8	93	70-130	
2-Chlorotoluene	100	112	112	70-130	
2-Hexanone	1000	735	73	70-130	
4-Chlorotoluene	100	109	109	70-130	
Acetone	1000	658	66	70-130	*
Benzene	100	98.8	99	70-130	
Bromobenzene	100	108	108	70-130	
Chlorobromomethane	100	87.3	87	70-130	
Dichlorobromomethane	100	93.1	93	70-130	
Bromoform	100	85.3	85	70-130	
Bromomethane	100	114	114	70-130	
n-Butylbenzene	100	115	115	70-130	
Carbon disulfide	100	103	103	70-130	
Carbon tetrachloride	100	98.9	99	70-130	
Chlorobenzene	100	103	103	70-130	
Chloroethane	100	110	110	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44668.D

Lab ID: LCS 360-48473/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	104	104	70-130	
Chloromethane	100	104	104	70-130	
cis-1,2-Dichloroethene	100	104	104	70-130	
cis-1,3-Dichloropropene	100	84.5	85	70-130	
Cyclohexane	100	91.4	91	70-130	
Chlorodibromomethane	100	77.6	78	70-130	
Dibromomethane	100	87.8	88	70-130	
Dichlorodifluoromethane	100	51.3	51	70-130	*
Ethyl ether	100	92.5	93	70-130	
Isopropyl ether	100	100	100	70-130	
Tert-butyl ethyl ether	100	109	109	70-130	
Ethylbenzene	100	117	117	70-130	
Hexachlorobutadiene	100	109	109	70-130	
Isopropylbenzene	100	116	116	70-130	
Methyl acetate	1000	1430	143	70-130	*
2-Butanone (MEK)	1000	815	81	70-130	
4-Methyl-2-pentanone (MIBK)	1000	931	93	70-130	
Methyl tert-butyl ether	100	99.9	100	70-130	
Methylcyclohexane	100	88.3	88	70-130	
Methylene Chloride	100	118	118	70-130	
m-Xylene & p-Xylene	200	236	118	70-130	
Naphthalene	100	99.7	100	70-130	
N-Propylbenzene	100	115	115	70-130	
o-Xylene	100	111	111	70-130	
4-Isopropyltoluene	100	118	118	70-130	
sec-Butylbenzene	100	115	115	70-130	
Styrene	100	101	101	70-130	
Tert-amyl methyl ether	100	104	104	70-130	
tert-Butylbenzene	100	119	119	70-130	
Tetrachloroethene	100	87.3	87	70-130	
Tetrahydrofuran	1000	1010	101	70-130	
Toluene	100	91.5	92	70-130	
trans-1,2-Dichloroethene	100	99.8	100	70-130	
trans-1,3-Dichloropropene	100	79.6	80	70-130	
Trichloroethene	100	97.5	97	70-130	
Trichlorofluoromethane	100	86.5	86	70-130	
Vinyl chloride	100	95.4	95	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44669.D

Lab ID: LCSD 360-48473/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	91.8	92	5	25	70-130	
1,1,1,2-Tetrachloroethane	100	107	107	2	25	70-130	
1,1,2,2-Tetrachloroethane	100	104	104	6	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	83.3	83	0	25	70-130	
1,1,2-Trichloroethane	100	85.3	85	3	25	70-130	
1,1-Dichloroethane	100	111	111	2	25	70-130	
1,1-Dichloroethene	100	96.3	96	5	25	70-130	
1,1-Dichloropropene	100	97.9	98	3	25	70-130	
1,2,3-Trichlorobenzene	100	107	107	3	25	70-130	
1,2,3-Trichloropropane	100	107	107	4	25	70-130	
1,2,4-Trichlorobenzene	100	106	106	4	25	70-130	
1,2,4-Trimethylbenzene	100	106	106	4	25	70-130	
1,2-Dibromo-3-Chloropropane	100	95.5	95	2	25	70-130	
Ethylene Dibromide	100	78.8	79	2	25	70-130	
1,2-Dichlorobenzene	100	99.1	99	2	25	70-130	
1,2-Dichloroethane	100	95.3	95	2	25	70-130	
1,2-Dichloropropane	100	121	121	1	25	70-130	
1,3,5-Trimethylbenzene	100	110	110	4	25	70-130	
1,3-Dichlorobenzene	100	99.7	100	3	25	70-130	
1,3-Dichloropropane	100	84.4	84	2	25	70-130	
1,4-Dichlorobenzene	100	98.1	98	2	25	70-130	
1,4-Dioxane	1000	1060	106	5	25	70-130	
2,2-Dichloropropane	100	94.3	94	6	25	70-130	
2,4,4-Trimethyl-1-pentene	100	110	110	2	25	70-130	
2,4,4-Trimethyl-2-pentene	100	92.2	92	1	25	70-130	
2-Chlorotoluene	100	108	108	4	25	70-130	
2-Hexanone	1000	772	77	5	25	70-130	
4-Chlorotoluene	100	105	105	4	25	70-130	
Acetone	1000	563	56	16	25	70-130	*
Benzene	100	96.0	96	3	25	70-130	
Bromobenzene	100	104	104	3	25	70-130	
Chlorobromomethane	100	86.3	86	1	25	70-130	
Dichlorobromomethane	100	93.2	93	0	25	70-130	
Bromoform	100	87.9	88	3	25	70-130	
Bromomethane	100	106	106	7	25	70-130	
n-Butylbenzene	100	109	109	5	25	70-130	
Carbon disulfide	100	98.8	99	4	25	70-130	
Carbon tetrachloride	100	95.1	95	4	25	70-130	
Chlorobenzene	100	99.4	99	3	25	70-130	
Chloroethane	100	101	101	8	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44669.D

Lab ID: LCSD 360-48473/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	100	100	4	25	70-130	
Chloromethane	100	96.9	97	8	25	70-130	
cis-1,2-Dichloroethene	100	102	102	2	25	70-130	
cis-1,3-Dichloropropene	100	85.2	85	1	25	70-130	
Cyclohexane	100	94.4	94	3	25	70-130	
Chlorodibromomethane	100	79.5	80	3	25	70-130	
Dibromomethane	100	89.0	89	1	25	70-130	
Dichlorodifluoromethane	100	49.2	49	4	25	70-130	*
Ethyl ether	100	96.2	96	4	25	70-130	
Isopropyl ether	100	99.3	99	1	25	70-130	
Tert-butyl ethyl ether	100	110	110	0	25	70-130	
Ethylbenzene	100	112	112	4	25	70-130	
Hexachlorobutadiene	100	102	102	7	25	70-130	
Isopropylbenzene	100	111	111	5	25	70-130	
Methyl acetate	1000	1520	152	6	25	70-130	*
2-Butanone (MEK)	1000	865	87	6	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	985	99	6	25	70-130	
Methyl tert-butyl ether	100	103	103	3	25	70-130	
Methylcyclohexane	100	90.2	90	2	25	70-130	
Methylene Chloride	100	115	115	3	25	70-130	
m-Xylene & p-Xylene	200	227	113	4	25	70-130	
Naphthalene	100	101	101	1	25	70-130	
N-Propylbenzene	100	109	109	5	25	70-130	
o-Xylene	100	108	108	3	25	70-130	
4-Isopropyltoluene	100	112	112	4	25	70-130	
sec-Butylbenzene	100	110	110	5	25	70-130	
Styrene	100	97.8	98	3	25	70-130	
Tert-amyl methyl ether	100	105	105	1	25	70-130	
tert-Butylbenzene	100	113	113	5	25	70-130	
Tetrachloroethene	100	83.4	83	5	25	70-130	
Tetrahydrofuran	1000	1080	108	7	25	70-130	
Toluene	100	89.3	89	2	25	70-130	
trans-1,2-Dichloroethene	100	96.8	97	3	25	70-130	
trans-1,3-Dichloropropene	100	81.2	81	2	25	70-130	
Trichloroethene	100	94.1	94	3	25	70-130	
Trichlorofluoromethane	100	81.8	82	6	25	70-130	
Vinyl chloride	100	90.7	91	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44799.D

Lab ID: LCS 360-48710/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	95.2	95	70-130	
1,1,1,2-Tetrachloroethane	100	105	105	70-130	
1,1,2,2-Tetrachloroethane	100	89.3	89	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	94.7	95	70-130	
1,1,2-Trichloroethane	100	89.6	90	70-130	
1,1-Dichloroethane	100	104	104	70-130	
1,1-Dichloroethene	100	100	100	70-130	
1,1-Dichloropropene	100	94.7	95	70-130	
1,2,3-Trichlorobenzene	100	100	100	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	99.7	100	70-130	
1,2,4-Trimethylbenzene	100	100	100	70-130	
1,2-Dibromo-3-Chloropropane	100	87.3	87	70-130	
Ethylene Dibromide	100	90.7	91	70-130	
1,2-Dichlorobenzene	100	95.8	96	70-130	
1,2-Dichloroethane	100	93.0	93	70-130	
1,2-Dichloropropane	100	107	107	70-130	
1,3,5-Trimethylbenzene	100	104	104	70-130	
1,3-Dichlorobenzene	100	101	101	70-130	
1,3-Dichloropropane	100	92.1	92	70-130	
1,4-Dichlorobenzene	100	98.0	98	70-130	
1,4-Dioxane	1000	974	97	70-130	
2,2-Dichloropropane	100	110	110	70-130	
2,4,4-Trimethyl-1-pentene	100	111	111	70-130	
2,4,4-Trimethyl-2-pentene	100	100	100	70-130	
2-Chlorotoluene	100	101	101	70-130	
2-Hexanone	1000	802	80	70-130	
4-Chlorotoluene	100	104	104	70-130	
Acetone	1000	840	84	70-130	
Benzene	100	98.0	98	70-130	
Bromobenzene	100	98.9	99	70-130	
Chlorobromomethane	100	94.4	94	70-130	
Dichlorobromomethane	100	94.5	95	70-130	
Bromoform	100	85.7	86	70-130	
Bromomethane	100	102	102	70-130	
n-Butylbenzene	100	100	100	70-130	
Carbon disulfide	100	98.4	98	70-130	
Carbon tetrachloride	100	95.2	95	70-130	
Chlorobenzene	100	101	101	70-130	
Chloroethane	100	105	105	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44799.D

Lab ID: LCS 360-48710/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	103	103	70-130	
Chloromethane	100	96.4	96	70-130	
cis-1,2-Dichloroethene	100	98.8	99	70-130	
cis-1,3-Dichloropropene	100	93.0	93	70-130	
Cyclohexane	100	101	101	70-130	
Chlorodibromomethane	100	90.5	91	70-130	
Dibromomethane	100	91.2	91	70-130	
Dichlorodifluoromethane	100	61.0	61	70-130	*
Ethyl ether	100	101	101	70-130	
Isopropyl ether	100	94.6	95	70-130	
Tert-butyl ethyl ether	100	94.6	95	70-130	
Ethylbenzene	100	107	107	70-130	
Hexachlorobutadiene	100	98.6	99	70-130	
Isopropylbenzene	100	103	103	70-130	
Methyl acetate	1000	1070	107	70-130	
2-Butanone (MEK)	1000	861	86	70-130	
4-Methyl-2-pentanone (MIBK)	1000	847	85	70-130	
Methyl tert-butyl ether	100	89.4	89	70-130	
Methylcyclohexane	100	101	101	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	201	101	70-130	
Naphthalene	100	90.9	91	70-130	
N-Propylbenzene	100	103	103	70-130	
o-Xylene	100	102	102	70-130	
4-Isopropyltoluene	100	106	106	70-130	
sec-Butylbenzene	100	103	103	70-130	
Styrene	100	100	100	70-130	
Tert-amyl methyl ether	100	93.6	94	70-130	
tert-Butylbenzene	100	106	106	70-130	
Tetrachloroethene	100	99.6	100	70-130	
Tetrahydrofuran	1000	970	97	70-130	
Toluene	100	100	100	70-130	
trans-1,2-Dichloroethene	100	95.2	95	70-130	
trans-1,3-Dichloropropene	100	92.4	92	70-130	
Trichloroethene	100	98.1	98	70-130	
Trichlorofluoromethane	100	93.1	93	70-130	
Vinyl chloride	100	97.8	98	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44800.D

Lab ID: LCSD 360-48710/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	95.9	96	1	25	70-130	
1,1,1,2-Tetrachloroethane	100	108	108	3	25	70-130	
1,1,2,2-Tetrachloroethane	100	97.6	98	9	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	92.3	92	3	25	70-130	
1,1,2-Trichloroethane	100	101	101	12	25	70-130	
1,1-Dichloroethane	100	106	106	2	25	70-130	
1,1-Dichloroethene	100	98.9	99	1	25	70-130	
1,1-Dichloropropene	100	95.6	96	1	25	70-130	
1,2,3-Trichlorobenzene	100	106	106	5	25	70-130	
1,2,3-Trichloropropane	100	119	119	10	25	70-130	
1,2,4-Trichlorobenzene	100	105	105	5	25	70-130	
1,2,4-Trimethylbenzene	100	100	100	0	25	70-130	
1,2-Dibromo-3-Chloropropane	100	98.8	99	12	25	70-130	
Ethylene Dibromide	100	100	100	10	25	70-130	
1,2-Dichlorobenzene	100	100	100	5	25	70-130	
1,2-Dichloroethane	100	100	100	7	25	70-130	
1,2-Dichloropropane	100	111	111	4	25	70-130	
1,3,5-Trimethylbenzene	100	103	103	0	25	70-130	
1,3-Dichlorobenzene	100	101	101	0	25	70-130	
1,3-Dichloropropane	100	99.0	99	7	25	70-130	
1,4-Dichlorobenzene	100	102	102	4	25	70-130	
1,4-Dioxane	1000	912	91	7	25	70-130	
2,2-Dichloropropane	100	109	109	0	25	70-130	
2,4,4-Trimethyl-1-pentene	100	109	109	1	25	70-130	
2,4,4-Trimethyl-2-pentene	100	98.7	99	2	25	70-130	
2-Chlorotoluene	100	101	101	0	25	70-130	
2-Hexanone	1000	931	93	15	25	70-130	
4-Chlorotoluene	100	104	104	0	25	70-130	
Acetone	1000	826	83	2	25	70-130	
Benzene	100	99.6	100	2	25	70-130	
Bromobenzene	100	101	101	2	25	70-130	
Chlorobromomethane	100	99.8	100	5	25	70-130	
Dichlorobromomethane	100	101	101	7	25	70-130	
Bromoform	100	92.1	92	7	25	70-130	
Bromomethane	100	104	104	2	25	70-130	
n-Butylbenzene	100	101	101	1	25	70-130	
Carbon disulfide	100	98.0	98	0	25	70-130	
Carbon tetrachloride	100	93.5	94	2	25	70-130	
Chlorobenzene	100	103	103	2	25	70-130	
Chloroethane	100	104	104	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44800.D

Lab ID: LCSD 360-48710/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	103	103	0	25	70-130	
Chloromethane	100	97.3	97	1	25	70-130	
cis-1,2-Dichloroethene	100	100	100	1	25	70-130	
cis-1,3-Dichloropropene	100	98.3	98	6	25	70-130	
Cyclohexane	100	92.1	92	9	25	70-130	
Chlorodibromomethane	100	97.1	97	7	25	70-130	
Dibromomethane	100	98.7	99	8	25	70-130	
Dichlorodifluoromethane	100	62.4	62	2	25	70-130	*
Ethyl ether	100	110	110	9	25	70-130	
Isopropyl ether	100	98.8	99	4	25	70-130	
Tert-butyl ethyl ether	100	101	101	6	25	70-130	
Ethylbenzene	100	105	105	1	25	70-130	
Hexachlorobutadiene	100	99.9	100	1	25	70-130	
Isopropylbenzene	100	103	103	0	25	70-130	
Methyl acetate	1000	1040	104	2	25	70-130	
2-Butanone (MEK)	1000	949	95	10	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	945	94	11	25	70-130	
Methyl tert-butyl ether	100	98.1	98	9	25	70-130	
Methylcyclohexane	100	93.6	94	8	25	70-130	
Methylene Chloride	100	107	107	3	25	70-130	
m-Xylene & p-Xylene	200	201	100	0	25	70-130	
Naphthalene	100	101	101	10	25	70-130	
N-Propylbenzene	100	103	103	0	25	70-130	
o-Xylene	100	101	101	0	25	70-130	
4-Isopropyltoluene	100	105	105	1	25	70-130	
sec-Butylbenzene	100	103	103	0	25	70-130	
Styrene	100	102	102	2	25	70-130	
Tert-amyl methyl ether	100	101	101	8	25	70-130	
tert-Butylbenzene	100	106	106	0	25	70-130	
Tetrachloroethene	100	100	100	1	25	70-130	
Tetrahydrofuran	1000	1090	109	11	25	70-130	
Toluene	100	102	102	2	25	70-130	
trans-1,2-Dichloroethene	100	95.5	96	0	25	70-130	
trans-1,3-Dichloropropene	100	102	102	10	25	70-130	
Trichloroethene	100	99.9	100	2	25	70-130	
Trichlorofluoromethane	100	93.2	93	0	25	70-130	
Vinyl chloride	100	96.6	97	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44670.D

Lab ID: 360-24327-12 MS Client ID: OC-SB-410-6.0/8.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	103	ND	111	108	70-130	
1,1,1-Trichloroethane	103	ND	95.6	93	70-130	
1,1,2,2-Tetrachloroethane	103	ND	106	103	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	103	ND	91.1	88	70-130	
1,1,2-Trichloroethane	103	ND	88.0	85	70-130	
1,1-Dichloroethane	103	ND	114	111	70-130	
1,1-Dichloroethene	103	ND	102	99	70-130	
1,1-Dichloropropene	103	ND	103	100	70-130	
1,2,3-Trichlorobenzene	103	ND	108	104	70-130	
1,2,3-Trichloropropane	103	ND	106	103	70-130	
1,2,4-Trichlorobenzene	103	ND	107	104	70-130	
1,2,4-Trimethylbenzene	103	ND	106	102	70-130	
1,2-Dibromo-3-Chloropropane	103	ND	101	98	70-130	
Ethylene Dibromide	103	ND	81.2	79	70-130	
1,2-Dichlorobenzene	103	ND	102	99	70-130	
1,2-Dichloroethane	103	ND	98.9	96	70-130	
Acetone	1030	ND	728	71	70-130	
1,2-Dichloropropane	103	ND	126	122	70-130	
1,3,5-Trimethylbenzene	103	ND	110	106	70-130	
1,3-Dichlorobenzene	103	ND	97.3	94	70-130	
1,3-Dichloropropane	103	ND	89.1	86	70-130	
1,4-Dichlorobenzene	103	ND	97.6	95	70-130	
1,4-Dioxane	1030	ND	1130	110	70-130	
2,2-Dichloropropane	103	ND	95.6	93	70-130	
2,4,4-Trimethyl-1-pentene	103	ND	116	113	70-130	
2,4,4-Trimethyl-2-pentene	103	ND	99.8	97	70-130	
2-Chlorotoluene	103	ND	107	104	70-130	
2-Hexanone	1030	ND	773	75	70-130	
4-Chlorotoluene	103	ND	104	101	70-130	
Benzene	103	ND	99.7	97	70-130	
Bromobenzene	103	ND	105	102	70-130	
Chlorobromomethane	103	ND	89.2	87	70-130	
Dichlorobromomethane	103	ND	96.3	93	70-130	
Bromoform	103	ND	90.8	88	70-130	
Bromomethane	103	ND	108	105	70-130	
n-Butylbenzene	103	ND	111	108	70-130	
Carbon disulfide	103	ND	98.8	96	70-130	
Carbon tetrachloride	103	ND	95.7	93	70-130	
Chlorobenzene	103	ND	103	100	70-130	
Chloroethane	103	ND	103	100	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 3/31/10

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44670.D

Lab ID: 360-24327-12 MS Client ID: OC-SB-410-6.0/8.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloroform	103	ND	109	106	70-130	
Chloromethane	103	ND	99.3	96	70-130	
cis-1,2-Dichloroethene	103	ND	105	101	70-130	
cis-1,3-Dichloropropene	103	ND	90.0	87	70-130	
Cyclohexane	103	ND	103	100	70-130	
Chlorodibromomethane	103	ND	80.7	78	70-130	
Dibromomethane	103	ND	90.9	88	70-130	
Dichlorodifluoromethane	103	ND	58.1	56	70-130	F
Ethyl ether	103	ND	98.9	96	70-130	
Isopropyl ether	103	ND	104	101	70-130	
Tert-butyl ethyl ether	103	ND	112	109	70-130	
Ethylbenzene	103	ND	115	112	70-130	
Hexachlorobutadiene	103	ND	97.8	95	70-130	
Isopropylbenzene	103	ND	112	109	70-130	
Methyl acetate	1030	ND	1110	107	70-130	
2-Butanone (MEK)	1030	ND	872	85	70-130	
4-Methyl-2-pentanone (MIBK)	1030	ND	963	93	70-130	
Methyl tert-butyl ether	103	ND	104	101	70-130	
Methylcyclohexane	103	ND	99.4	96	70-130	
Methylene Chloride	103	7.4 J	116	106	70-130	
m-Xylene & p-Xylene	206	ND	231	112	70-130	
Naphthalene	103	ND	103	100	70-130	
N-Propylbenzene	103	ND	110	106	70-130	
o-Xylene	103	ND	110	106	70-130	
4-Isopropyltoluene	103	ND	111	108	70-130	
sec-Butylbenzene	103	ND	110	107	70-130	
Styrene	103	ND	97.1	94	70-130	
Tert-amyl methyl ether	103	ND	107	104	70-130	
tert-Butylbenzene	103	ND	113	110	70-130	
Tetrachloroethene	103	ND	87.7	85	70-130	
Tetrahydrofuran	1030	ND	1130	110	70-130	
Toluene	103	ND	92.8	90	70-130	
trans-1,2-Dichloroethene	103	ND	97.0	94	70-130	
trans-1,3-Dichloropropene	103	ND	84.6	82	70-130	
Trichloroethene	103	ND	97.1	94	70-130	
Trichlorofluoromethane	103	ND	91.2	89	70-130	
Vinyl chloride	103	ND	95.4	93	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
3/31/10

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44671.D

Lab ID: 360-24327-12 MSD Client ID: OC-SB-410-6.0/8.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	99.6	102	102	9	30	70-130	
1,1,1-Trichloroethane	99.6	91.1	91	5	30	70-130	
1,1,2,2-Tetrachloroethane	99.6	101	101	6	30	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	99.6	85.0	85	7	30	70-130	
1,1,2-Trichloroethane	99.6	81.7	82	7	30	70-130	
1,1-Dichloroethane	99.6	109	109	5	30	70-130	
1,1-Dichloroethene	99.6	96.5	97	5	30	70-130	
1,1-Dichloropropene	99.6	100	101	3	30	70-130	
1,2,3-Trichlorobenzene	99.6	97.8	98	10	30	70-130	
1,2,3-Trichloropropane	99.6	96.2	97	10	30	70-130	
1,2,4-Trichlorobenzene	99.6	98.3	99	9	30	70-130	
1,2,4-Trimethylbenzene	99.6	97.2	98	8	30	70-130	
1,2-Dibromo-3-Chloropropane	99.6	91.5	92	10	30	70-130	
Ethylene Dibromide	99.6	77.1	77	5	30	70-130	
1,2-Dichlorobenzene	99.6	96.1	96	6	30	70-130	
1,2-Dichloroethane	99.6	91.3	92	8	30	70-130	
Acetone	996	678	68	7	30	70-130	F
1,2-Dichloropropane	99.6	119	119	6	30	70-130	
1,3,5-Trimethylbenzene	99.6	102	102	7	30	70-130	
1,3-Dichlorobenzene	99.6	90.6	91	7	30	70-130	
1,3-Dichloropropane	99.6	83.6	84	6	30	70-130	
1,4-Dichlorobenzene	99.6	92.5	93	5	30	70-130	
1,4-Dioxane	996	1020	103	10	30	70-130	
2,2-Dichloropropane	99.6	88.2	89	8	30	70-130	
2,4,4-Trimethyl-1-pentene	99.6	108	109	7	30	70-130	
2,4,4-Trimethyl-2-pentene	99.6	93.5	94	7	30	70-130	
2-Chlorotoluene	99.6	100	101	7	30	70-130	
2-Hexanone	996	723	73	7	30	70-130	
4-Chlorotoluene	99.6	96.7	97	7	30	70-130	
Benzene	99.6	94.2	95	6	30	70-130	
Bromobenzene	99.6	98.6	99	6	30	70-130	
Chlorobromomethane	99.6	83.0	83	7	30	70-130	
Dichlorobromomethane	99.6	91.3	92	5	30	70-130	
Bromoform	99.6	88.8	89	2	30	70-130	
Bromomethane	99.6	98.6	99	9	30	70-130	
n-Butylbenzene	99.6	105	106	5	30	70-130	
Carbon disulfide	99.6	94.0	94	5	30	70-130	
Carbon tetrachloride	99.6	95.0	95	1	30	70-130	
Chlorobenzene	99.6	96.0	96	7	30	70-130	
Chloroethane	99.6	96.8	97	6	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

3/31/10 TC

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Matrix: Solid Level: Low Lab File ID: V44671.D

Lab ID: 360-24327-12 MSD Client ID: OC-SB-410-6.0/8.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	99.6	101	101	8	30	70-130	
Chloromethane	99.6	94.5	95	5	30	70-130	
cis-1,2-Dichloroethene	99.6	98.4	99	6	30	70-130	
cis-1,3-Dichloropropene	99.6	83.7	84	7	30	70-130	
Cyclohexane	99.6	97.1	97	6	30	70-130	
Chlorodibromomethane	99.6	76.4	77	5	30	70-130	
Dibromomethane	99.6	87.0	87	4	30	70-130	
Dichlorodifluoromethane	99.6	54.5	55*	6	30	70-130	F
Ethyl ether	99.6	92.9	93	6	30	70-130	
Isopropyl ether	99.6	97.7	98	6	30	70-130	
Tert-butyl ethyl ether	99.6	105	105	7	30	70-130	
Ethylbenzene	99.6	107	107	8	30	70-130	
Hexachlorobutadiene	99.6	89.2	90	9	30	70-130	
Isopropylbenzene	99.6	104	105	7	30	70-130	
Methyl acetate	996	977	98	12	30	70-130	
2-Butanone (MEK)	996	836	84	4	30	70-130	
4-Methyl-2-pentanone (MIBK)	996	897	90	7	30	70-130	
Methyl tert-butyl ether	99.6	97.6	98	6	30	70-130	
Methylcyclohexane	99.6	92.4	93	7	30	70-130	
Methylene Chloride	99.6	109	102	7	30	70-130	
m-Xylene & p-Xylene	199	215	108	7	30	70-130	
Naphthalene	99.6	93.5	94	9	30	70-130	
N-Propylbenzene	99.6	103	103	7	30	70-130	
o-Xylene	99.6	101	102	8	30	70-130	
4-Isopropyltoluene	99.6	103	103	8	30	70-130	
sec-Butylbenzene	99.6	102	103	7	30	70-130	
Styrene	99.6	91.0	91	7	30	70-130	
Tert-amyl methyl ether	99.6	101	101	6	30	70-130	
tert-Butylbenzene	99.6	104	105	8	30	70-130	
Tetrachloroethene	99.6	82.1	82	7	30	70-130	
Tetrahydrofuran	996	1050	105	8	30	70-130	
Toluene	99.6	88.3	89	5	30	70-130	
trans-1,2-Dichloroethene	99.6	92.2	93	5	30	70-130	
trans-1,3-Dichloropropene	99.6	80.3	81	5	30	70-130	
Trichloroethene	99.6	92.8	93	5	30	70-130	
Trichlorofluoromethane	99.6	83.8	84	8	30	70-130	
Vinyl chloride	99.6	89.0	89	7	30	70-130	

TC 3/31/10

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Sample No.: CCVIS 360-48407/2 Date Analyzed: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44626.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22012	5.65	503638	5.88	293455	8.32
UPPER LIMIT		44024	6.15	1007276	6.38	586910	8.82
LOWER LIMIT		11006	5.15	251819	5.38	146728	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48405/1-A		23323	5.65	505359	5.88	285506	8.33
LCSD 360-48405/2-A		24645	5.65	518108	5.88	303717	8.32
MB 360-48405/3-A		18902	5.65	416254	5.88	243617	8.32
360-24327-5	OC-SB-404-5.0/7.0-XXX	19004	5.65	426418	5.87	241981	8.32
360-24327-8	OC-SB-409-6.0/8.0-XXX	21901	5.65	483674	5.88	294972	8.32
360-24327-11	OC-SB-410-6.0/8.0-DUP	20084	5.65	434170	5.88	250616	8.32
360-24327-14	OC-SB-411-4.7/6.7-XXX	18856	5.64	411629	5.87	236169	8.32
360-24327-17	OC-SB-418-8/10-XXX	20358	5.65	433953	5.87	251339	8.32
360-24327-3	OC-SB-403-6.0/8.0-XXX	21585	5.65	444930	5.88	249714	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

3/31/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Sample No.: CCVIS 360-48407/2 Date Analyzed: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44626.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		152860	10.14				
UPPER LIMIT		305720	10.64				
LOWER LIMIT		76430	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48405/1-A		148470	10.14				
LCSD 360-48405/2-A		155061	10.14				
MB 360-48405/3-A		135048	10.14				
360-24327-5	OC-SB-404-5.0/7.0-XXX	128938	10.13				
360-24327-8	OC-SB-409-6.0/8.0-XXX	146729	10.13				
360-24327-11	OC-SB-410-6.0/8.0-DUP	135788	10.14				
360-24327-14	OC-SB-411-4.7/6.7-XXX	131136	10.13				
360-24327-17	OC-SB-418-8/10-XXX	137024	10.13				
360-24327-3	OC-SB-403-6.0/8.0-XXX	134366	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/31/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Sample No.: CCVIS 360-48475/2 Date Analyzed: 09/02/2009 01:00

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44667.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		24474	5.65	508694	5.88	280482	8.32
UPPER LIMIT		48948	6.15	1017388	6.38	560964	8.82
LOWER LIMIT		12237	5.15	254347	5.38	140241	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48473/1-A		21993	5.65	493097	5.88	271829	8.32
LCSD 360-48473/2-A		23469	5.64	510686	5.87	282596	8.32
360-24327-12 MS	OC-SB-410-6.0/8.0-XXX MS	23336	5.65	507730	5.88	282654	8.32
360-24327-12 MSD	OC-SB-410-6.0/8.0-XXX MSD	23585	5.65	511039	5.87	288645	8.32
MB 360-48473/3-A		22258	5.65	476523	5.88	284068	8.32
360-24327-12	OC-SB-410-6.0/8.0-XXX	20139	5.64	442674	5.88	247412	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/31/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Sample No.: CCVIS 360-48475/2 Date Analyzed: 09/02/2009 01:00

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44667.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		150904	10.14				
UPPER LIMIT		301808	10.64				
LOWER LIMIT		75452	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48473/1-A		147714	10.14				
LCSD 360-48473/2-A		153655	10.14				
360-24327-12 MS	OC-SB-410-6.0/8.0-XXX MS	148550	10.14				
360-24327-12 MSD	OC-SB-410-6.0/8.0-XXX MSD	147590	10.14				
MB 360-48473/3-A		155743	10.14				
360-24327-12	OC-SB-410-6.0/8.0-XXX	136087	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/31/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Sample No.: CCVIS 360-48711/2 Date Analyzed: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44798.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		23523	5.65	535921	5.88	339021	8.32
UPPER LIMIT		47046	6.15	1071842	6.38	678042	8.82
LOWER LIMIT		11762	5.15	267961	5.38	169511	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48710/1-A		19516	5.65	472049	5.88	281506	8.32
LCSD 360-48710/2-A		21446	5.65	500977	5.88	306473	8.32
MB 360-48710/3-A		20326	5.65	472610	5.88	289005	8.32
360-24327-1	OC-SB-403-0.0/1.0-XXX	20247	5.65	481374	5.88	294030	8.32
360-24327-6	OC-SB-409-0.0/1.0-XXX	20253	5.65	457296	5.88	272563	8.32
360-24327-9	OC-SB-410-0.0/1.0-XXX	20744	5.65	462995	5.88	277753	8.32
360-24327-13	OC-SB-411-0.0/1.0-XXX	20865	5.66	479565	5.88	291763	8.32
360-24327-15	OC-SB-418-0.0/1.0-XXX	19522	5.65	454870	5.88	265968	8.32
360-24327-18	OC-TBK-009	21103	5.65	468984	5.88	281973	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/31/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Sample No.: CCVIS 360-48711/2 Date Analyzed: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44798.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		150244	10.14				
UPPER LIMIT		300488	10.64				
LOWER LIMIT		75122	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48710/1-A		133039	10.13				
LCSD 360-48710/2-A		142604	10.13				
MB 360-48710/3-A		136070	10.13				
360-24327-1	OC-SB-403-0.0/1.0-XXX	140295	10.13				
360-24327-6	OC-SB-409-0.0/1.0-XXX	135705	10.13				
360-24327-9	OC-SB-410-0.0/1.0-XXX	133957	10.13				
360-24327-13	OC-SB-411-0.0/1.0-XXX	142866	10.13				
360-24327-15	OC-SB-418-0.0/1.0-XXX	126695	10.13				
360-24327-18	OC-TBK-009	142232	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

3/31/10 TC

FORM VIII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab Sample ID: CCVIS 360-48407/2 Calibration Date: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44626.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Linl		0.1778		8.82	20.0	-55.9*	30.0
Chloromethane	Lin		0.5834	0.1000	19.8	20.0	-1.1	30.0
Vinyl chloride	Lin		0.4346		19.7	20.0	-1.5	20.0
Bromomethane	Lin		0.2743		18.7	20.0	-6.6	30.0
Chloroethane	Lin		0.2402		19.9	20.0	-0.3	30.0
Trichlorofluoromethane	Lin		0.3846		17.0	20.0	-14.8	30.0
Ethyl ether	Ave	0.1998	0.1791		17.9	20.0	-10.4	30.0
1,1-Dichloroethene	Lin		0.3132		19.6	20.0	-2.2	20.0
Carbon disulfide	Ave	1.172	1.105		18.8	20.0	-5.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.1808		17.5	20.0	-12.4	30.0
Acrolein	Linl		0.5376		1070	1000	6.8	30.0
Methylene Chloride	Lin		0.3597		21.3	20.0	6.5	30.0
Acetone	Qua		0.0387		140	200	-29.9	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5127		19.4	20.0	-2.9	30.0
Methyl acetate	Lin		0.1131		161	200	-19.4	30.0
Methyl tert-butyl ether	Lin		0.5337		19.5	20.0	-2.6	30.0
2-Methyl-2-propanol	Lin1		0.2427		191	200	-4.6	30.0
Isopropyl ether	Ave	1.438	1.400		19.5	20.0	-2.7	30.0
1,1-Dichloroethane	Lin		0.5967	0.1000	21.8	20.0	8.9	30.0
Acrylonitrile	Lin2		0.0492		19.1	20.0	-4.3	30.0
Tert-butyl ethyl ether	Lin		0.8692		20.6	20.0	2.9	30.0
Vinyl acetate	Lin1		0.3622		233	200	16.3	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4565		19.9	20.0	-0.4	30.0
2,2-Dichloropropane	Qua		0.3573		17.0	20.0	-15.2	30.0
Cyclohexane	Ave	0.6383	0.5715		17.9	20.0	-10.5	30.0
Chlorobromomethane	Ave	0.1791	0.1564		17.5	20.0	-12.7	30.0
Chloroform	Lin		0.5242		20.4	20.0	1.8	20.0
Carbon tetrachloride	Ave	0.3593	0.3383		18.8	20.0	-5.8	30.0
Tetrahydrofuran	Lin1		0.0485		200	200	0.1	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4574		18.5	20.0	-7.3	30.0
2-Butanone (MEK)	Ave	0.0653	0.0568		174	200	-13.1	30.0
1,1-Dichloropropene	Ave	0.3849	0.3919		20.4	20.0	1.8	30.0
Benzene	Ave	1.175	1.151		19.6	20.0	-2.0	30.0
Tert-amyl methyl ether	Lin		0.6290		20.3	20.0	1.5	30.0
1,2-Dichloroethane	Ave	0.2398	0.2236		18.6	20.0	-6.8	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2355		21.0	20.0	5.0	30.0
Methylcyclohexane	Ave	0.5730	0.5104		17.8	20.0	-10.9	30.0
Trichloroethene	Ave	0.2943	0.2901		19.7	20.0	-1.4	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1817		18.8	20.0	-6.2	30.0
Dibromomethane	Ave	0.1115	0.1020		18.3	20.0	-8.6	30.0

3/31/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab Sample ID: CCVIS 360-48407/2 Calibration Date: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44626.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2201		24.4	20.0	21.9*	20.0
Dichlorobromomethane	Ave	0.2830	0.2684		19.0	20.0	-5.2	30.0
Methyl methacrylate	Ave	0.0593	0.0543		18.3	20.0	-8.5	30.0
1,4-Dioxane	Ave	0.0211	0.0216		205	200	2.6	30.0
2-Chloroethyl vinyl ether	Lin1		0.0397		181	200	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2735		18.4	20.0	-7.8	30.0
Toluene	Ave	0.6775	0.6464		19.1	20.0	-4.6	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1330		198	200	-0.9	30.0
Tetrachloroethene	Ave	0.2090	0.1879		18.0	20.0	-10.1	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1805		17.0	20.0	-15.0	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0973		17.9	20.0	-10.6	30.0
Chlorodibromomethane	Ave	0.1624	0.1416		17.4	20.0	-12.8	30.0
1,3-Dichloropropane	Ave	0.2134	0.1902		17.8	20.0	-10.9	30.0
Ethylene Dibromide	Ave	0.1323	0.1108		16.7	20.0	-16.3	30.0
2-Hexanone	Ave	0.0865	0.0707		163	200	-18.3	30.0
Chlorobenzene	Ave	1.083	1.097	0.3000	20.3	20.0	1.3	30.0
Ethylbenzene	Lin		2.095		22.9	20.0	14.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.3979		20.9	20.0	4.4	30.0
m-Xylene & p-Xylene	Lin1		1.593		45.6	40.0	13.9	30.0
o-Xylene	Ave	1.735	1.848		21.3	20.0	6.5	30.0
Styrene	Ave	1.258	1.264		20.1	20.0	0.4	30.0
Bromoform	Ave	0.2952	0.2751	0.1000	18.6	20.0	-6.8	20.0
Isopropylbenzene	Ave	2.247	2.468		22.0	20.0	9.9	30.0
Bromobenzene	Ave	0.7726	0.8008		20.7	20.0	3.6	30.0
N-Propylbenzene	Ave	2.529	2.757		21.8	20.0	9.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5241	0.3000	20.3	20.0	1.6	30.0
2-Chlorotoluene	Ave	1.717	1.833		21.3	20.0	6.7	30.0
1,3,5-Trimethylbenzene	Ave	1.879	2.039		21.7	20.0	8.5	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0629		18.4	20.0	-8.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0633		17.4	20.0	-12.8	30.0
4-Chlorotoluene	Ave	1.492	1.563		21.0	20.0	4.8	30.0
tert-Butylbenzene	Ave	1.551	1.722		22.2	20.0	11.0	30.0
1,2,4-Trimethylbenzene	Ave	1.951	2.047		21.0	20.0	4.9	30.0
sec-Butylbenzene	Ave	2.541	2.761		21.7	20.0	8.7	30.0
4-Isopropyltoluene	Ave	2.050	2.204		21.5	20.0	7.5	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9706		19.8	20.0	-1.1	30.0
1,4-Dichlorobenzene	Ave	1.821	1.808		19.9	20.0	-0.7	30.0
n-Butylbenzene	Ave	3.711	4.131		22.3	20.0	11.3	30.0
1,2-Dichlorobenzene	Ave	1.574	1.575		20.0	20.0	0.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0772		18.7	20.0	-6.5	30.0
Hexachlorobutadiene	Ave	0.5157	0.5371		20.8	20.0	4.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab Sample ID: CCVIS 360-48407/2 Calibration Date: 09/01/2009 03:09

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44626.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.102		20.5	20.0	2.5	30.0
Naphthalene	Ave	1.428	1.421		19.9	20.0	-0.5	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.8332		20.6	20.0	3.1	30.0
Dibromofluoromethane	Ave	0.2595	0.2454		18.9	20.0	-5.4	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8491		19.0	20.0	-4.9	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5038		19.9	20.0	-0.4	30.0

3/31/10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab Sample ID: ICV 360-48701/9 Calibration Date: 09/08/2009 19:13

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44796.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2809		58.2	100	-41.8*	30.0
Chloromethane	Ave	0.9034	0.7721	0.1000	91.4	100	-14.5	30.0
Vinyl chloride	Ave	0.6300	0.5305		89.4	100	-15.8	30.0
Bromomethane	Ave	0.3127	0.2881		96.6	100	-7.9	30.0
Chloroethane	Lin2		0.3159		97.4	100	-2.6	30.0
Trichlorofluoromethane	Ave	0.5183	0.4459		86.0	100	-14.0	30.0
Ethyl ether	Ave	0.2603	0.2269		93.1	100	-12.8	30.0
1,1-Dichloroethene	Ave	0.3201	0.2867		93.2	100	-10.4	30.0
Carbon disulfide	Ave	1.395	1.292		92.7	100	-7.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1678		90.3	100	-9.7	30.0
Acrolein	Ave	0.7836	0.8353		5330	5000	6.6	30.0
Methylene Chloride	Lin1		0.3422		97.8	100	-2.2	30.0
Acetone	Lin2		0.0365		691	1000	-30.9*	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6302		89.4	100	-10.7	30.0
Methyl acetate	Lin1		0.1409		968	1000	-3.2	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5991		85.7	100	-14.3	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3790		989	1000	-1.1	30.0
Isopropyl ether	Ave	1.997	1.774		89.1	100	-11.2	30.0
1,1-Dichloroethane	Ave	0.7919	0.7286	0.1000	98.1	100	-8.0	30.0
Acrylonitrile	Lin1		0.0621		95.3	100	-4.7	30.0
Tert-butyl ethyl ether	Ave	1.194	1.063		89.1	100	-10.9	30.0
Vinyl acetate	Ave	0.5745	0.4385		763	1000	-23.7	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5793		94.1	100	-5.8	30.0
2,2-Dichloropropane	Ave	0.5371	0.4945		106	100	-7.9	30.0
Cyclohexane	Ave	0.8898	0.8215		92.9	100	-7.7	30.0
Chlorobromomethane	Ave	0.1386	0.1254		90.5	100	-9.5	30.0
Chloroform	Ave	0.6243	0.5520		94.5	100	-11.6	30.0
Carbon tetrachloride	Ave	0.3645	0.3253		88.9	100	-10.8	30.0
Tetrahydrofuran	Ave	0.0762	0.0643		918	1000	-15.7	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4713		90.3	100	-8.9	30.0
2-Butanone (MEK)	Ave	0.0960	0.0716		789	1000	-25.5	30.0
1,1-Dichloropropene	Ave	0.4990	0.4485		89.8	100	-10.1	30.0
Benzene	Ave	1.352	1.237		91.5	100	-8.5	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6686		87.7	100	-12.3	30.0
1,2-Dichloroethane	Ave	0.3253	0.2852		87.7	100	-12.3	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3587		106	100	-5.7	30.0
Methylcyclohexane	Ave	0.6300	0.5963		95.1	100	-5.4	30.0
Trichloroethene	Ave	0.3155	0.2852		94.0	100	-9.6	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1829		97.7	100	-2.3	30.0
Dibromomethane	Ave	0.1188	0.1009		84.5	100	-15.1	30.0

3/31/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab Sample ID: ICV 360-48701/9 Calibration Date: 09/08/2009 19:13

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44796.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2806		99.6	100	-11.8	30.0
Dichlorobromomethane	Ave	0.3427	0.3047		88.2	100	-11.1	30.0
Methyl methacrylate	Ave	0.0864	0.0741		83.9	100	-14.3	30.0
1,4-Dioxane	Qua		0.0215		1000	1000	0.1	30.0
2-Chloroethyl vinyl ether	Lin		0.0277		772	1000	-22.8	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3428		86.2	100	-13.8	30.0
Toluene	Ave	0.7062	0.6354		92.5	100	-10.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1575		771	1000	-23.1	30.0
Tetrachloroethene	Ave	0.1859	0.1710		91.8	100	-8.0	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2543		87.5	100	-12.7	30.0
1,1,2-Trichloroethane	Lin1		0.1061		85.2	100	-14.8	30.0
Chlorodibromomethane	Ave	0.1504	0.1256		83.5	100	-16.5	30.0
1,3-Dichloropropane	Ave	0.2828	0.2393		84.6	100	-15.4	30.0
Ethylene Dibromide	Ave	0.1260	0.1093		86.6	100	-13.3	30.0
2-Hexanone	Ave	0.1294	0.0944		741	1000	-27.0	30.0
Chlorobenzene	Ave	1.096	0.9983	0.3000	91.7	100	-8.9	30.0
Ethylbenzene	Ave	2.279	2.091		98.1	100	-8.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3262		98.5	100	-6.1	30.0
m-Xylene & p-Xylene	Ave	1.752	1.632		186	200	-6.9	30.0
o-Xylene	Ave	1.903	1.794		94.6	100	-5.8	30.0
Styrene	Ave	1.294	1.186		91.9	100	-8.4	30.0
Bromoform	Ave	0.3131	0.2672	0.1000	81.4	100	-14.7	30.0
Isopropylbenzene	Ave	2.255	2.177		96.7	100	-3.5	30.0
Bromobenzene	Ave	1.024	0.9365		91.9	100	-8.5	30.0
N-Propylbenzene	Ave	2.901	2.784		95.9	100	-4.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5837	0.3000	84.7	100	-14.8	30.0
2-Chlorotoluene	Ave	1.927	1.807		94.2	100	-6.2	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.788		96.7	100	-3.4	30.0
1,2,3-Trichloropropane	Lin2		0.0628		101	100	1.0	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1023		96.2	100	-3.8	30.0
4-Chlorotoluene	Ave	1.683	1.616		95.6	100	-4.0	30.0
tert-Butylbenzene	Ave	1.471	1.459		99.1	100	-0.8	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.766		93.9	100	-5.8	30.0
sec-Butylbenzene	Ave	2.518	2.422		96.2	100	-3.8	30.0
4-Isopropyltoluene	Ave	1.894	1.889		99.5	100	-0.3	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7990		94.9	100	-5.1	30.0
1,4-Dichlorobenzene	Ave	1.788	1.668		93.6	100	-6.7	30.0
n-Butylbenzene	Ave	4.614	4.465		96.8	100	-3.2	30.0
1,2-Dichlorobenzene	Ave	1.492	1.370		91.9	100	-8.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0672		87.3	100	-12.7	30.0
Hexachlorobutadiene	Ave	0.5170	0.5013		97.0	100	-3.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24327-1

SDG No.: OCRI-07

Lab Sample ID: ICV 360-48701/9 Calibration Date: 09/08/2009 19:13

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44796.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9441		96.8	100	-3.2	30.0
Naphthalene	Ave	1.288	1.195		92.8	100	-7.2	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7174		99.4	100	-0.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2272		97.6	100	-2.4	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8951		101	100	0.8	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5636		98.4	100	-1.6	30.0

3/31/10 TC

Cover Page ✓

OCRI-08

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: OCRI-08 360-24543-1

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Data completeness				
☑	☐	☐	All data summaries, QC forms and raw data available from hard copy or electronic data package	Contact lab if missing data. Lab to respond with 24 hours.
☑	☐	☐	Data summaries match EDD	COC matches EDD
Holding Times and Preservation				
☑	☐	☐	Hold times met (14 days with preservation)	
☑	☐	☐	Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune)				
☑	☐	☐	Tune available for each 12-hour period samples were analyzed	
☑	☐	☐	Appropriate number of significant figures reported (at least 2)	
☑	☐	☐	Mass/Charge list (m/z) criteria met	
Initial Calibration				I-Cal = 8/24/09 HP#1 9/08/09 HP#1 9/04/09 HP#3
☑	☐	☐	%RSD less than or equal to 30%	
☐	☑	☐	RRF greater than or equal to 0.05	
Continuing Calibration (TC)				→ See attached Form 3's
☑	☑	☐	%D less than or equal to 25%	
☑	☑	☐	RRF greater than or equal to 0.05.	
Blank Contamination				Evaluate all blanks for contamination. Highest contaminant level used for action level.
☑	☐	☐	Method blank contamination	→ Naphthalene @ 1.16 ug/kg No hits No Quals
☐	☑	☐	Trip blank contamination	
☐	☑	☐	Equipment/Rinseate blank contamination	

MeCl2 @ 5.0 ug/kg (V) Qualified mecl2 in OC-SB-444-12/14-XXX

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes No N/A — **TIER I / (II) / III (circle one)**

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples ☐ ☑ ☐ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☐ ☑ ☐ MS/MSD RPD criteria met (water and soil <30%) ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	→ Two ms/msd samples in this SDG see attached form 3 for outliers See attached Form 3 for LCS outliers
Field Duplicates ☑ ☐ ☐ RPD criteria (water <30%, soils <50%) met	
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: _____

Date: 4-5-10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-444-0.0/1.0-XXX

Lab Sample ID: 360-24343-1
Client Matrix: Solid % Moisture: 4.7

Date Sampled: 08/27/2009 1320
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44815.D
Dilution:	1.0			Initial Weight/Volume:	5.50 g
Date Analyzed:	09/09/2009 0252			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.95	2.4
1,1,1-Trichloroethane		ND		0.95	2.4
1,1,2,2-Tetrachloroethane		ND		0.95	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.95	12
1,1,2-Trichloroethane		ND		0.95	2.4
1,1-Dichloroethane		ND		0.95	2.4
1,1-Dichloroethene		ND		0.95	2.4
1,1-Dichloropropene		ND		0.95	2.4
1,2,3-Trichlorobenzene		ND		0.95	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.95	2.4
1,2,4-Trimethylbenzene		ND		0.95	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.95	2.4
1,2-Dichlorobenzene		ND		0.95	2.4
1,2-Dichloroethane		ND		0.95	2.4
Acetone		ND	J	17	240
1,2-Dichloropropane		ND		0.95	2.4
1,3,5-Trimethylbenzene		ND		0.95	2.4
1,3-Dichlorobenzene		ND		0.95	2.4
1,3-Dichloropropane		ND		0.95	2.4
1,4-Dichlorobenzene		ND		0.95	2.4
1,4-Dioxane		ND	J	31	240
2,2-Dichloropropane		ND		0.95	2.4
2,4,4-Trimethyl-1-pentene		ND		0.95	4.8
2,4,4-Trimethyl-2-pentene		ND		0.95	4.8
2-Chlorotoluene		ND		0.95	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.95	2.4
Benzene		ND		0.95	2.4
Bromobenzene		ND		0.95	2.4
Chlorobromomethane		ND		0.95	2.4
Dichlorobromomethane		ND		0.95	2.4
Bromoform		ND		0.95	2.4
Bromomethane		ND		0.95	4.8
n-Butylbenzene		ND		0.95	2.4
Carbon disulfide		ND		0.95	2.4
Carbon tetrachloride		ND		0.95	2.4
Chlorobenzene		ND		0.95	2.4
Chloroethane		ND		0.95	4.8
Chloroform		ND		0.95	2.4
Chloromethane		ND		0.95	4.8
cis-1,2-Dichloroethene		ND		0.95	2.4
cis-1,3-Dichloropropene		ND		0.95	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.95	2.4

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: **OC-SB-444-0.0/1.0-XXX**

Lab Sample ID: 360-24343-1
Client Matrix: Solid % Moisture: 4.7

Date Sampled: 08/27/2009 1320
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44815.D
Dilution:	1.0			Initial Weight/Volume:	5.50 g
Date Analyzed:	09/09/2009 0252			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.95	2.4
Dichlorodifluoromethane		ND J	*	0.95	4.8
Ethyl ether		ND		0.95	2.4
Isopropyl ether		ND		0.95	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.95	2.4
Hexachlorobutadiene		ND		0.95	2.4
Isopropylbenzene		ND		0.95	2.4
Methyl acetate		ND		16	48
2-Butanone (MEK)		ND		6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.95	2.4
Methylcyclohexane		ND		0.95	2.4
Methylene Chloride		ND		4.6	9.5
m-Xylene & p-Xylene		ND		0.95	4.8
Naphthalene		ND		0.95	24
N-Propylbenzene		ND		0.95	2.4
o-Xylene		ND		0.95	2.4
4-Isopropyltoluene		ND		0.95	2.4
sec-Butylbenzene		ND		0.95	2.4
Styrene		ND		0.95	2.4
Tert-amyl methyl ether		ND		0.95	2.4
tert-Butylbenzene		ND		0.95	2.4
Tetrachloroethene		ND		0.95	2.4
Tetrahydrofuran		ND		5.2	24
Toluene		ND		0.95	2.4
trans-1,2-Dichloroethene		ND		0.95	2.4
trans-1,3-Dichloropropene		ND		0.95	2.4
Trichloroethene		ND		0.95	2.4
Trichlorofluoromethane		ND		0.95	4.8
Vinyl chloride		ND		0.95	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	101		70 - 130

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: **OC-SB-444-0.0/1.0-XXX**

Lab Sample ID: 360-24343-1
Client Matrix: Solid

% Moisture: 4.7

Date Sampled: 08/27/2009 1320
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44815.D
Dilution:	1.0			Initial Weight/Volume:	5.50 g
Date Analyzed:	09/09/2009 0252			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	5.65	26	T J

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-444-12/14-XXX

Lab Sample ID: 360-24343-2
Client Matrix: Solid % Moisture: 7.5

Date Sampled: 08/27/2009 1400
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/09/2009 2017
Date Prepared: 09/09/2009 1557

Analysis Batch: 360-48767
Prep Batch: 360-48765

Instrument ID: HP #1 GC/MS
Lab File ID: V44846.D
Initial Weight/Volume: 5.81 g
Final Weight/Volume: 5 g

Analyte (DryWt Corrected: Y)	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.93	2.3
1,1,1-Trichloroethane	ND		0.93	2.3
1,1,2,2-Tetrachloroethane	ND		0.93	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.93	12
1,1,2-Trichloroethane	ND		0.93	2.3
1,1-Dichloroethane	ND		0.93	2.3
1,1-Dichloroethene	ND		0.93	2.3
1,1-Dichloropropene	ND		0.93	2.3
1,2,3-Trichlorobenzene	ND		0.93	2.3
1,2,3-Trichloropropane	ND		1.4	2.3
1,2,4-Trichlorobenzene	ND		0.93	2.3
1,2,4-Trimethylbenzene	ND		0.93	2.3
1,2-Dibromo-3-Chloropropane	ND		1.7	23
Ethylene Dibromide	ND		0.93	2.3
1,2-Dichlorobenzene	ND		0.93	2.3
1,2-Dichloroethane	ND		0.93	2.3
Acetone	220	J	17	230
1,2-Dichloropropane	ND		0.93	2.3
1,3,5-Trimethylbenzene	ND		0.93	2.3
1,3-Dichlorobenzene	ND		0.93	2.3
1,3-Dichloropropane	ND		0.93	2.3
1,4-Dichlorobenzene	ND		0.93	2.3
1,4-Dioxane	ND J		31	230
2,2-Dichloropropane	ND		0.93	2.3
2,4,4-Trimethyl-1-pentene	ND		0.93	4.7
2,4,4-Trimethyl-2-pentene	ND		0.93	4.7
2-Chlorotoluene	ND		0.93	2.3
2-Hexanone	ND		4.8	23
4-Chlorotoluene	ND		0.93	2.3
Benzene	ND		0.93	2.3
Bromobenzene	ND		0.93	2.3
Chlorobromomethane	ND		0.93	2.3
Dichlorobromomethane	ND		0.93	2.3
Bromoform	ND		0.93	2.3
Bromomethane	ND		0.93	4.7
n-Butylbenzene	ND		0.93	2.3
Carbon disulfide	3.4		0.93	2.3
Carbon tetrachloride	ND		0.93	2.3
Chlorobenzene	ND		0.93	2.3
Chloroethane	ND		0.93	4.7
Chloroform	ND		0.93	2.3
Chloromethane	ND		0.93	4.7
cis-1,2-Dichloroethene	ND		0.93	2.3
cis-1,3-Dichloropropene	ND		0.93	2.3
Cyclohexane	ND		2.4	23
Chlorodibromomethane	ND		0.93	2.3

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-444-12/14-XXX

Lab Sample ID: 360-24343-2
Client Matrix: Solid

% Moisture: 7.5

Date Sampled: 08/27/2009 1400
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48767		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48765		Lab File ID:	V44846.D
Dilution:	1.0			Initial Weight/Volume:	5.81 g
Date Analyzed:	09/09/2009 2017			Final Weight/Volume:	5 g
Date Prepared:	09/09/2009 1557				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.93	2.3
Dichlorodifluoromethane		ND J	*	0.93	4.7
Ethyl ether		ND		0.93	2.3
Isopropyl ether		ND		0.93	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.93	2.3
Hexachlorobutadiene		ND		0.93	2.3
Isopropylbenzene		ND		0.93	2.3
Methyl acetate		ND		15	47
2-Butanone (MEK)		65		6.3	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.93	2.3
Methylcyclohexane		ND		0.93	2.3
Methylene Chloride		~~4.8~~ ND	~~J B~~	4.5	9.3
m-Xylene & p-Xylene		ND		0.93	4.7
Naphthalene		ND		0.93	23
N-Propylbenzene		ND		0.93	2.3
o-Xylene		ND		0.93	2.3
4-Isopropyltoluene		ND		0.93	2.3
sec-Butylbenzene		ND		0.93	2.3
Styrene		ND		0.93	2.3
Tert-amyl methyl ether		ND		0.93	2.3
tert-Butylbenzene		ND		0.93	2.3
Tetrachloroethene		ND		0.93	2.3
Tetrahydrofuran		ND		5.1	23
Toluene		ND		0.93	2.3
trans-1,2-Dichloroethene		ND		0.93	2.3
trans-1,3-Dichloropropene		ND		0.93	2.3
Trichloroethene		ND		0.93	2.3
Trichlorofluoromethane		ND		0.93	4.7
Vinyl chloride		ND		0.93	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	101		70 - 130

TE 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-444-12/14-XXX

Lab Sample ID: 360-24343-2
Client Matrix: Solid % Moisture: 7.5

Date Sampled: 08/27/2009 1400
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48767		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48765		Lab File ID:	V44846.D
Dilution:	1.0			Initial Weight/Volume:	5.81 g
Date Analyzed:	09/09/2009 2017			Final Weight/Volume:	5 g
Date Prepared:	09/09/2009 1557				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	4.41	13	T J
	Unknown	10.65	2.6	T J

TC 4/5/10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-444-5.0/7.0-XXX

Lab Sample ID: 360-24343-3
Client Matrix: Solid % Moisture: 11.3

Date Sampled: 08/27/2009 1330
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44686.D
Dilution:	1.0			Initial Weight/Volume:	5.44 g
Date Analyzed:	09/02/2009 0837			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND J	*	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND J		34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-444-5.0/7.0-XXX

Lab Sample ID: 360-24343-3
Client Matrix: Solid % Moisture: 11.3

Date Sampled: 08/27/2009 1330
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44686.D
Dilution:	1.0			Initial Weight/Volume:	5.44 g
Date Analyzed:	09/02/2009 0837			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND	*	17	52
2-Butanone (MEK)		ND		7.0	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-444-5.0/7.0-XXX

Lab Sample ID: 360-24343-3
Client Matrix: Solid

% Moisture: 11.3

Date Sampled: 08/27/2009 1330
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44686.D
Dilution:	1.0			Initial Weight/Volume:	5.44 g
Date Analyzed:	09/02/2009 0837			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-449-0.0/1.0-XXX

Lab Sample ID: 360-24343-4
Client Matrix: Solid

% Moisture: 7.7

Date Sampled: 08/27/2009 1515
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/09/2009 0316
Date Prepared: 09/08/2009 1551

Analysis Batch: 360-48711
Prep Batch: 360-48710

Instrument ID: HP #1 GC/MS
Lab File ID: V44816.D
Initial Weight/Volume: 4.45 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.2	3.0
1,1,1-Trichloroethane		ND		1.2	3.0
1,1,2,2-Tetrachloroethane		ND		1.2	3.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	15
1,1,2-Trichloroethane		ND		1.2	3.0
1,1-Dichloroethane		ND		1.2	3.0
1,1-Dichloroethene		ND		1.2	3.0
1,1-Dichloropropene		ND		1.2	3.0
1,2,3-Trichlorobenzene		ND		1.2	3.0
1,2,3-Trichloropropane		ND		1.8	3.0
1,2,4-Trichlorobenzene		ND		1.2	3.0
1,2,4-Trimethylbenzene		ND		1.2	3.0
1,2-Dibromo-3-Chloropropane		ND		2.2	30
Ethylene Dibromide		ND		1.2	3.0
1,2-Dichlorobenzene		ND		1.2	3.0
1,2-Dichloroethane		ND		1.2	3.0
Acetone		ND	J	22	300
1,2-Dichloropropane		ND		1.2	3.0
1,3,5-Trimethylbenzene		ND		1.2	3.0
1,3-Dichlorobenzene		ND		1.2	3.0
1,3-Dichloropropane		ND		1.2	3.0
1,4-Dichlorobenzene		ND		1.2	3.0
1,4-Dioxane		ND	J	40	300
2,2-Dichloropropane		ND		1.2	3.0
2,4,4-Trimethyl-1-pentene		ND		1.2	6.1
2,4,4-Trimethyl-2-pentene		ND		1.2	6.1
2-Chlorotoluene		ND		1.2	3.0
2-Hexanone		ND		6.3	30
4-Chlorotoluene		ND		1.2	3.0
Benzene		ND		1.2	3.0
Bromobenzene		ND		1.2	3.0
Chlorobromomethane		ND		1.2	3.0
Dichlorobromomethane		ND		1.2	3.0
Bromoform		ND		1.2	3.0
Bromomethane		ND		1.2	6.1
n-Butylbenzene		ND		1.2	3.0
Carbon disulfide		ND		1.2	3.0
Carbon tetrachloride		ND		1.2	3.0
Chlorobenzene		ND		1.2	3.0
Chloroethane		ND		1.2	6.1
Chloroform		ND		1.2	3.0
Chloromethane		ND		1.2	6.1
cis-1,2-Dichloroethene		ND		1.2	3.0
cis-1,3-Dichloropropene		ND		1.2	3.0
Cyclohexane		ND		3.1	30
Chlorodibromomethane		ND		1.2	3.0

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-449-0.0/1.0-XXX

Lab Sample ID: 360-24343-4
Client Matrix: Solid

% Moisture: 7.7

Date Sampled: 08/27/2009 1515
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44816.D
Dilution:	1.0			Initial Weight/Volume:	4.45 g
Date Analyzed:	09/09/2009 0316			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.2	3.0
Dichlorodifluoromethane		ND	*	1.2	6.1
Ethyl ether		ND		1.2	3.0
Isopropyl ether		ND		1.2	3.0
Tert-butyl ethyl ether		ND		3.0	3.0
Ethylbenzene		ND		1.2	3.0
Hexachlorobutadiene		ND		1.2	3.0
Isopropylbenzene		ND		1.2	3.0
Methyl acetate		ND		20	61
2-Butanone (MEK)		ND		8.2	30
4-Methyl-2-pentanone (MIBK)		ND		6.3	30
Methyl tert-butyl ether		ND		1.2	3.0
Methylcyclohexane		ND		1.2	3.0
Methylene Chloride		ND		5.9	12
m-Xylene & p-Xylene		ND		1.2	6.1
Naphthalene		ND		1.2	30
N-Propylbenzene		ND		1.2	3.0
o-Xylene		ND		1.2	3.0
4-Isopropyltoluene		ND		1.2	3.0
sec-Butylbenzene		ND		1.2	3.0
Styrene		ND		1.2	3.0
Tert-amyl methyl ether		ND		1.2	3.0
tert-Butylbenzene		ND		1.2	3.0
Tetrachloroethene		ND		1.2	3.0
Tetrahydrofuran		ND		6.7	30
Toluene		ND		1.2	3.0
trans-1,2-Dichloroethene		ND		1.2	3.0
trans-1,3-Dichloropropene		ND		1.2	3.0
Trichloroethene		ND		1.2	3.0
Trichlorofluoromethane		ND		1.2	6.1
Vinyl chloride		ND		1.2	3.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TC
4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-449-0.0/1.0-XXX

Lab Sample ID: 360-24343-4
Client Matrix: Solid

% Moisture: 7.7

Date Sampled: 08/27/2009 1515
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44816.D
Dilution:	1.0			Initial Weight/Volume:	4.45 g
Date Analyzed:	09/09/2009 0316			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	2.6	T J

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-449-6.0/8.0-XXX

Lab Sample ID: 360-24343-6
Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 08/27/2009 1520
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/02/2009 0902
Date Prepared: 09/01/2009 1635

Analysis Batch: 360-48475
Prep Batch: 360-48473

Instrument ID: HP #1 GC/MS
Lab File ID: V44687.D
Initial Weight/Volume: 5.79 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.8	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	*	18	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND		34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		12		1.0	5.1
2,4,4-Trimethyl-2-pentene		1.3	J	1.0	5.1
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.6	26
Chlorodibromomethane		ND		1.0	2.6

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-449-6.0/8.0-XXX

Lab Sample ID: 360-24343-6
Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 08/27/2009 1520
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44687.D
Dilution:	1.0			Initial Weight/Volume:	5.79 g
Date Analyzed:	09/02/2009 0902			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.1
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND	*	17	51
2-Butanone (MEK)		ND		6.9	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.6	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: **OC-SB-449-6.0/8.0-XXX**

Lab Sample ID: 360-24343-6
Client Matrix: Solid % Moisture: 15.9

Date Sampled: 08/27/2009 1520
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44687.D
Dilution:	1.0			Initial Weight/Volume:	5.79 g
Date Analyzed:	09/02/2009 0902			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
15220-85-6	1-Propene, 2-methyl-, tetramer	13.34	12	T J N
	Unknown	13.62	8.5	T J

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-451-0.0/1.0-XXX

Lab Sample ID: 360-24343-7
Client Matrix: Solid % Moisture: 3.2

Date Sampled: 08/28/2009 1120
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44817.D
Dilution:	1.0			Initial Weight/Volume:	4.97 g
Date Analyzed:	09/09/2009 0341			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-451-0.0/1.0-XXX

Lab Sample ID: 360-24343-7
Client Matrix: Solid % Moisture: 3.2

Date Sampled: 08/28/2009 1120
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44817.D
Dilution:	1.0			Initial Weight/Volume:	4.97 g
Date Analyzed:	09/09/2009 0341			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	52
2-Butanone (MEK)		ND		7.0	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: **OC-SB-451-0.0/1.0-XXX**

Lab Sample ID: 360-24343-7
Client Matrix: Solid % Moisture: 3.2

Date Sampled: 08/28/2009 1120
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44817.D
Dilution:	1.0			Initial Weight/Volume:	4.97 g
Date Analyzed:	09/09/2009 0341			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC 4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-451-2.5/4.5-DUP

Lab Sample ID: 360-24343-9
Client Matrix: Solid

% Moisture: 5.6

Date Sampled: 08/28/2009 1140
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/02/2009 0926
Date Prepared: 09/01/2009 1635

Analysis Batch: 360-48475
Prep Batch: 360-48473

Instrument ID: HP #1 GC/MS
Lab File ID: V44688.D
Initial Weight/Volume: 4.90 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	*	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND		36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

TC
4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-451-2.5/4.5-DUP

Lab Sample ID: 360-24343-9
Client Matrix: Solid

% Moisture: 5.6

Date Sampled: 08/28/2009 1140
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/02/2009 0926
Date Prepared: 09/01/2009 1635

Analysis Batch: 360-48475
Prep Batch: 360-48473

Instrument ID: HP #1 GC/MS
Lab File ID: V44688.D
Initial Weight/Volume: 4.90 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND	*	1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND	*	18	54
2-Butanone (MEK)		ND		7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	95		70 - 130

TC
4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: **OC-SB-451-2.5/4.5-DUP**

Lab Sample ID: 360-24343-9
Client Matrix: Solid
% Moisture: 5.6

Date Sampled: 08/28/2009 1140
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44688.D
Dilution:	1.0			Initial Weight/Volume:	4.90 g
Date Analyzed:	09/02/2009 0926			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-451-2.5/4.5-XXX

Lab Sample ID: 360-24343-10
Client Matrix: Solid

% Moisture: 4.9

Date Sampled: 08/28/2009 1140
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/05/2009 0309
Date Prepared: 09/03/2009 1545

Analysis Batch: 360-48642
Prep Batch: 360-48640

Instrument ID: HP #3 GC/MS
Lab File ID: V07487.D
Initial Weight/Volume: 5.09 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	*	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	*	34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

TC
4-5-10

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-451-2.5/4.5-XXX

Lab Sample ID: 360-24343-10
Client Matrix: Solid

% Moisture: 4.9

Date Sampled: 08/28/2009 1140
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07487.D
Dilution:	1.0			Initial Weight/Volume:	5.09 g
Date Analyzed:	09/05/2009 0309			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	52
2-Butanone (MEK)		ND		7.0	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND	*	1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	97		70 - 130

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TC

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: **OC-SB-451-2.5/4.5-XXX**

Lab Sample ID: 360-24343-10
Client Matrix: Solid

% Moisture: 4.9

Date Sampled: 08/28/2009 1140
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07487.D
Dilution:	1.0			Initial Weight/Volume:	5.09 g
Date Analyzed:	09/05/2009 0309			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.59	7.3	TJ

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TC

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-454-0.0/1.0-XXX

Lab Sample ID: 360-24343-11
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 08/27/2009 1710
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44818.D
Dilution:	1.0			Initial Weight/Volume:	4.77 g
Date Analyzed:	09/09/2009 0405			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		2.0	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	4	20	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	4	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

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TC

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-454-0.0/1.0-XXX

Lab Sample ID: 360-24343-11
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 08/27/2009 1710
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44818.D
Dilution:	1.0			Initial Weight/Volume:	4.77 g
Date Analyzed:	09/09/2009 0405			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.5
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		18	55
2-Butanone (MEK)		ND		7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.3	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	100		70 - 130

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TC

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: **OC-SB-454-0.0/1.0-XXX**

Lab Sample ID: 360-24343-11
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 08/27/2009 1710
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44818.D
Dilution:	1.0			Initial Weight/Volume:	4.77 g
Date Analyzed:	09/09/2009 0405			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.66	2.1	T J

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TC

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: **OC-SB-454-6.0/8.0-XXX**

Lab Sample ID: 360-24343-13
Client Matrix: Solid % Moisture: 15.0

Date Sampled: 08/27/2009 1715
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44689.D
Dilution:	1.0			Initial Weight/Volume:	6.22 g
Date Analyzed:	09/02/2009 0950			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.95	2.4
1,1,1-Trichloroethane		ND		0.95	2.4
1,1,2,2-Tetrachloroethane		ND		0.95	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.95	12
1,1,2-Trichloroethane		ND		0.95	2.4
1,1-Dichloroethane		ND		0.95	2.4
1,1-Dichloroethene		ND		0.95	2.4
1,1-Dichloropropene		ND		0.95	2.4
1,2,3-Trichlorobenzene		ND		0.95	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.95	2.4
1,2,4-Trimethylbenzene		ND		0.95	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.95	2.4
1,2-Dichlorobenzene		ND		0.95	2.4
1,2-Dichloroethane		ND		0.95	2.4
Acetone		ND J	*	17	240
1,2-Dichloropropane		ND		0.95	2.4
1,3,5-Trimethylbenzene		ND		0.95	2.4
1,3-Dichlorobenzene		ND		0.95	2.4
1,3-Dichloropropane		ND		0.95	2.4
1,4-Dichlorobenzene		ND		0.95	2.4
1,4-Dioxane		ND J		31	240
2,2-Dichloropropane		ND		0.95	2.4
2,4,4-Trimethyl-1-pentene		ND		0.95	4.7
2,4,4-Trimethyl-2-pentene		ND		0.95	4.7
2-Chlorotoluene		ND		0.95	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.95	2.4
Benzene		ND		0.95	2.4
Bromobenzene		ND		0.95	2.4
Chlorobromomethane		ND		0.95	2.4
Dichlorobromomethane		ND		0.95	2.4
Bromoform		ND		0.95	2.4
Bromomethane		ND		0.95	4.7
n-Butylbenzene		ND		0.95	2.4
Carbon disulfide		ND		0.95	2.4
Carbon tetrachloride		ND		0.95	2.4
Chlorobenzene		ND		0.95	2.4
Chloroethane		ND		0.95	4.7
Chloroform		ND		0.95	2.4
Chloromethane		ND		0.95	4.7
cis-1,2-Dichloroethene		ND		0.95	2.4
cis-1,3-Dichloropropene		ND		0.95	2.4
Cyclohexane		ND		2.4	24
Chlorodibromomethane		ND		0.95	2.4

TC
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Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-454-6.0/8.0-XXX

Lab Sample ID: 360-24343-13
Client Matrix: Solid % Moisture: 15.0

Date Sampled: 08/27/2009 1715
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/02/2009 0950
Date Prepared: 09/01/2009 1635

Analysis Batch: 360-48475
Prep Batch: 360-48473

Instrument ID: HP #1 GC/MS
Lab File ID: V44689.D
Initial Weight/Volume: 6.22 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.95	2.4
Dichlorodifluoromethane		ND J	*	0.95	4.7
Ethyl ether		ND		0.95	2.4
Isopropyl ether		ND		0.95	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.95	2.4
Hexachlorobutadiene		ND		0.95	2.4
Isopropylbenzene		ND		0.95	2.4
Methyl acetate		ND	*	15	47
2-Butanone (MEK)		ND		6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.95	2.4
Methylcyclohexane		ND		0.95	2.4
Methylene Chloride		ND		4.6	9.5
m-Xylene & p-Xylene		ND		0.95	4.7
Naphthalene		ND		0.95	24
N-Propylbenzene		ND		0.95	2.4
o-Xylene		ND		0.95	2.4
4-Isopropyltoluene		ND		0.95	2.4
sec-Butylbenzene		ND		0.95	2.4
Styrene		ND		0.95	2.4
Tert-amyl methyl ether		ND		0.95	2.4
tert-Butylbenzene		ND		0.95	2.4
Tetrachloroethene		ND		0.95	2.4
Tetrahydrofuran		ND		5.2	24
Toluene		ND		0.95	2.4
trans-1,2-Dichloroethene		ND		0.95	2.4
trans-1,3-Dichloropropene		ND		0.95	2.4
Trichloroethene		ND		0.95	2.4
Trichlorofluoromethane		ND		0.95	4.7
Vinyl chloride		ND		0.95	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	92		70 - 130

TC
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Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: **OC-SB-454-6.0/8.0-XXX**

Lab Sample ID: 360-24343-13
Client Matrix: Solid % Moisture: 15.0

Date Sampled: 08/27/2009 1715
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44689.D
Dilution:	1.0			Initial Weight/Volume:	6.22 g
Date Analyzed:	09/02/2009 0950			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

FC
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Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-455-6.0/8.0-DUP

Lab Sample ID: 360-24343-16
Client Matrix: Solid

% Moisture: 24.2

Date Sampled: 08/28/2009 0840
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/02/2009 1015
Date Prepared: 09/01/2009 1635

Analysis Batch: 360-48475
Prep Batch: 360-48473

Instrument ID: HP #1 GC/MS
Lab File ID: V44690.D
Initial Weight/Volume: 5.04 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.3	3.3
1,1,1-Trichloroethane		ND		1.3	3.3
1,1,2,2-Tetrachloroethane		ND		1.3	3.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	16
1,1,2-Trichloroethane		ND		1.3	3.3
1,1-Dichloroethane		ND		1.3	3.3
1,1-Dichloroethene		ND		1.3	3.3
1,1-Dichloropropene		ND		1.3	3.3
1,2,3-Trichlorobenzene		ND		1.3	3.3
1,2,3-Trichloropropane		ND		1.9	3.3
1,2,4-Trichlorobenzene		ND		1.3	3.3
1,2,4-Trimethylbenzene		ND		1.3	3.3
1,2-Dibromo-3-Chloropropane		ND		2.4	33
Ethylene Dibromide		ND		1.3	3.3
1,2-Dichlorobenzene		ND		1.3	3.3
1,2-Dichloroethane		ND		1.3	3.3
Acetone		ND		23	330
1,2-Dichloropropane		ND		1.3	3.3
1,3,5-Trimethylbenzene		ND		1.3	3.3
1,3-Dichlorobenzene		ND		1.3	3.3
1,3-Dichloropropane		ND		1.3	3.3
1,4-Dichlorobenzene		ND		1.3	3.3
1,4-Dioxane		ND		43	330
2,2-Dichloropropane		ND		1.3	3.3
2,4,4-Trimethyl-1-pentene		ND		1.3	6.5
2,4,4-Trimethyl-2-pentene		ND		1.3	6.5
2-Chlorotoluene		ND		1.3	3.3
2-Hexanone		ND		6.7	33
4-Chlorotoluene		ND		1.3	3.3
Benzene		ND		1.3	3.3
Bromobenzene		ND		1.3	3.3
Chlorobromomethane		ND		1.3	3.3
Dichlorobromomethane		ND		1.3	3.3
Bromoform		ND		1.3	3.3
Bromomethane		ND		1.3	6.5
n-Butylbenzene		ND		1.3	3.3
Carbon disulfide		ND		1.3	3.3
Carbon tetrachloride		ND		1.3	3.3
Chlorobenzene		ND		1.3	3.3
Chloroethane		ND		1.3	6.5
Chloroform		ND		1.3	3.3
Chloromethane		ND		1.3	6.5
cis-1,2-Dichloroethene		ND		1.3	3.3
cis-1,3-Dichloropropene		ND		1.3	3.3
Cyclohexane		ND		3.4	33
Chlorodibromomethane		ND		1.3	3.3

TC

TC
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Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-455-6.0/8.0-DUP

Lab Sample ID: 360-24343-16
Client Matrix: Solid

% Moisture: 24.2

Date Sampled: 08/28/2009 0840
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/02/2009 1015
Date Prepared: 09/01/2009 1635

Analysis Batch: 360-48475
Prep Batch: 360-48473

Instrument ID: HP #1 GC/MS
Lab File ID: V44690.D
Initial Weight/Volume: 5.04 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.3	3.3
Dichlorodifluoromethane		ND	*	1.3	6.5
Ethyl ether		ND		1.3	3.3
Isopropyl ether		ND		1.3	3.3
Tert-butyl ethyl ether		ND		3.3	3.3
Ethylbenzene		ND		1.3	3.3
Hexachlorobutadiene		ND		1.3	3.3
Isopropylbenzene		ND		1.3	3.3
Methyl acetate		ND	*	21	65
2-Butanone (MEK)		ND		8.8	33
4-Methyl-2-pentanone (MIBK)		ND		6.8	33
Methyl tert-butyl ether		ND		1.3	3.3
Methylcyclohexane		ND		1.3	3.3
Methylene Chloride		ND		6.3	13
m-Xylene & p-Xylene		ND		1.3	6.5
Naphthalene		ND		1.3	33
N-Propylbenzene		ND		1.3	3.3
o-Xylene		ND		1.3	3.3
4-Isopropyltoluene		ND		1.3	3.3
sec-Butylbenzene		ND		1.3	3.3
Styrene		ND		1.3	3.3
Tert-amyl methyl ether		ND		1.3	3.3
tert-Butylbenzene		ND		1.3	3.3
Tetrachloroethene		ND		7.2	33
Tetrahydrofuran		ND		1.3	3.3
Toluene		ND		1.3	3.3
trans-1,2-Dichloroethene		ND		1.3	3.3
trans-1,3-Dichloropropene		ND		1.3	3.3
Trichloroethene		ND		1.3	6.5
Trichlorofluoromethane		ND		1.3	3.3
Vinyl chloride		ND			

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: **OC-SB-455-6.0/8.0-DUP**

Lab Sample ID: 360-24343-16
Client Matrix: Solid
% Moisture: 24.2

Date Sampled: 08/28/2009 0840
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48475		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48473		Lab File ID:	V44690.D
Dilution:	1.0			Initial Weight/Volume:	5.04 g
Date Analyzed:	09/02/2009 1015			Final Weight/Volume:	5 g
Date Prepared:	09/01/2009 1635				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-455-6.0/8.0-XXX

Lab Sample ID: 360-24343-17
Client Matrix: Solid

% Moisture: 24.2

Date Sampled: 08/28/2009 0840
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07488.D
Dilution:	1.0			Initial Weight/Volume:	5.07 g
Date Analyzed:	09/05/2009 0332			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.3	3.3
1,1,1-Trichloroethane		ND		1.3	3.3
1,1,2,2-Tetrachloroethane		ND		1.3	3.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	16
1,1,2-Trichloroethane		ND		1.3	3.3
1,1-Dichloroethane		ND		1.3	3.3
1,1-Dichloroethene		ND		1.3	3.3
1,1-Dichloropropene		ND		1.3	3.3
1,2,3-Trichlorobenzene		ND		1.3	3.3
1,2,3-Trichloropropane		ND		1.9	3.3
1,2,4-Trichlorobenzene		ND		1.3	3.3
1,2,4-Trimethylbenzene		ND		1.3	3.3
1,2-Dibromo-3-Chloropropane		ND		2.3	33
Ethylene Dibromide		ND		1.3	3.3
1,2-Dichlorobenzene		ND		1.3	3.3
1,2-Dichloroethane		ND		1.3	3.3
Acetone		78	J *	23	330
1,2-Dichloropropane		ND		1.3	3.3
1,3,5-Trimethylbenzene		ND		1.3	3.3
1,3-Dichlorobenzene		ND		1.3	3.3
1,3-Dichloropropane		ND		1.3	3.3
1,4-Dichlorobenzene		ND		1.3	3.3
1,4-Dioxane		ND	*	43	330
2,2-Dichloropropane		ND		1.3	3.3
2,4,4-Trimethyl-1-pentene		ND		1.3	6.5
2,4,4-Trimethyl-2-pentene		ND		1.3	6.5
2-Chlorotoluene		ND		1.3	3.3
2-Hexanone		ND		6.7	33
4-Chlorotoluene		ND		1.3	3.3
Benzene		ND		1.3	3.3
Bromobenzene		ND		1.3	3.3
Chlorobromomethane		ND		1.3	3.3
Dichlorobromomethane		ND		1.3	3.3
Bromoform		ND		1.3	3.3
Bromomethane		ND		1.3	6.5
n-Butylbenzene		ND		1.3	3.3
Carbon disulfide		ND		1.3	3.3
Carbon tetrachloride		ND		1.3	3.3
Chlorobenzene		ND		1.3	3.3
Chloroethane		ND		1.3	6.5
Chloroform		ND		1.3	3.3
Chloromethane		ND		1.3	6.5
cis-1,2-Dichloroethene		ND		1.3	3.3
cis-1,3-Dichloropropene		ND		1.3	3.3
Cyclohexane		ND		3.4	33
Chlorodibromomethane		ND		1.3	3.3

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TC

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: OC-SB-455-6.0/8.0-XXX

Lab Sample ID: 360-24343-17
Client Matrix: Solid

% Moisture: 24.2

Date Sampled: 08/28/2009 0840
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07488.D
Dilution:	1.0			Initial Weight/Volume:	5.07 g
Date Analyzed:	09/05/2009 0332			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.3	3.3
Dichlorodifluoromethane		ND	*	1.3	6.5
Ethyl ether		ND		1.3	3.3
Isopropyl ether		ND		1.3	3.3
Tert-butyl ethyl ether		ND		3.3	3.3
Ethylbenzene		ND		1.3	3.3
Hexachlorobutadiene		ND		1.3	3.3
Isopropylbenzene		ND		1.3	3.3
Methyl acetate		ND		21	65
2-Butanone (MEK)		ND		8.8	33
4-Methyl-2-pentanone (MIBK)		ND		6.7	33
Methyl tert-butyl ether		ND		1.3	3.3
Methylcyclohexane		ND		1.3	3.3
Methylene Chloride		ND		6.3	13
m-Xylene & p-Xylene		ND		1.3	6.5
Naphthalene		ND		1.3	33
N-Propylbenzene		ND		1.3	3.3
o-Xylene		ND		1.3	3.3
4-Isopropyltoluene		ND		1.3	3.3
sec-Butylbenzene		ND		1.3	3.3
Styrene		ND		1.3	3.3
Tert-amyl methyl ether		ND		1.3	3.3
tert-Butylbenzene		ND		1.3	3.3
Tetrachloroethene		ND		1.3	3.3
Tetrahydrofuran		ND		7.2	33
Toluene		ND		1.3	3.3
trans-1,2-Dichloroethene		ND		1.3	3.3
trans-1,3-Dichloropropene		ND		1.3	3.3
Trichloroethene		ND		1.3	3.3
Trichlorofluoromethane		ND	*	1.3	6.5
Vinyl chloride		ND		1.3	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Olin Corporation

Job Number: 360-24343-1
Sdg Number: OCRI-08

Client Sample ID: **OC-SB-455-6.0/8.0-XXX**

Lab Sample ID: 360-24343-17
Client Matrix: Solid

% Moisture: 24.2

Date Sampled: 08/28/2009 0840
Date Received: 08/28/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07488.D
Dilution:	1.0			Initial Weight/Volume:	5.07 g
Date Analyzed:	09/05/2009 0332			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.66	9.0	T J

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TC

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-444-0.0/1.0-XXX	360-24343-1	97	101	95
OC-SB-444-12/14-XXX	360-24343-2	102	101	98
OC-SB-444-5.0/7.0-XXX	360-24343-3	102	95	104
OC-SB-449-0.0/1.0-XXX	360-24343-4	102	99	104
OC-SB-449-6.0/8.0-XXX	360-24343-6	102	93	101
OC-SB-451-0.0/1.0-XXX	360-24343-7	102	99	103
OC-SB-451-2.5/4.5-DUP	360-24343-9	101	95	101
OC-SB-451-2.5/4.5-XXX	360-24343-10	106	97	104
OC-SB-454-0.0/1.0-XXX	360-24343-11	104	100	105
OC-SB-454-6.0/8.0-XXX	360-24343-13	101	92	101
OC-SB-455-6.0/8.0-DUP	360-24343-16	103	92	100
OC-SB-455-6.0/8.0-XXX	360-24343-17	105	97	105
OC-TBK-010	360-24343-22	100	102	100
	MB 360-48473/3-A	104	95	101
	MB 360-48640/3-A	104	99	102
	MB 360-48710/3-A	99	101	103
	MB 360-48765/3-A	101	99	103
	LCS 360-48473/1-A	96	94	101
	LCS 360-48640/1-A	99	100	97
	LCS 360-48710/1-A	98	100	101
	LCS 360-48765/1-A	100	99	97
	LCSD 360-48473/2-A	97	94	103
	LCSD 360-48640/2-A	99	99	99
	LCSD 360-48710/2-A	99	101	100
	LCSD 360-48765/2-A	99	99	98

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

TC 9/1/10

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-451-2.5/4.5-XXX MS	360-24343-10 MS	101	98	102
OC-SB-455-6.0/8.0-XXX MS	360-24343-17 MS	101	99	101
OC-SB-451-2.5/4.5-XXX MSD	360-24343-10 MSD	102	97	102
OC-SB-455-6.0/8.0-XXX MSD	360-24343-17 MSD	101	99	102

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

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FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab File ID: V44666.D BFB Injection Date: 09/02/2009

Instrument ID: HP #1 GC/MS 8-24-09 BFB Injection Time: 00:36

Analysis Batch No.: 48475

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.2	
75	30.0 - 60.0 % of mass 95	45.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	76.1	
175	5.0 - 9.0 % of mass 174	5.8	(7.6)1
176	95.0 - 101.0 % of mass 174	74.5	(97.9)1
177	5.0 - 9.0 % of mass 176	4.8	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48475/2	V44667.D	09/02/2009	01:00
	LCS 360-48473/1-A	V44668.D	09/02/2009	01:24
	LCSD 360-48473/2-A	V44669.D	09/02/2009	01:48
	MB 360-48473/3-A	V44673.D	09/02/2009	03:25
OC-SB-444-5.0/7.0-XXX	360-24343-3	V44686.D	09/02/2009	08:37
OC-SB-449-6.0/8.0-XXX	360-24343-6	V44687.D	09/02/2009	09:02
OC-SB-451-2.5/4.5-DUP	360-24343-9	V44688.D	09/02/2009	09:26
OC-SB-454-6.0/8.0-XXX	360-24343-13	V44689.D	09/02/2009	09:50
OC-SB-455-6.0/8.0-DUP	360-24343-16	V44690.D	09/02/2009	10:15

OK
w/ control

Acetone 66% / 56%
Dichlorodifluoromethane 51% / 49%

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab File ID: V44797.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS 9-8-09 BFB Injection Time: 19:37

Analysis Batch No.: 48711

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.8	
75	30.0 - 60.0 % of mass 95	52.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.7	
175	5.0 - 9.0 % of mass 174	5.5	(8.3)1
176	95.0 - 101.0 % of mass 174	65.1	(97.6)1
177	5.0 - 9.0 % of mass 176	4.4	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48711/2	V44798.D	09/08/2009	20:02
	LCS 360-48710/1-A	V44799.D	09/08/2009	20:26
	LCSD 360-48710/2-A	V44800.D	09/08/2009	20:50
	MB 360-48710/3-A	V44802.D	09/08/2009	21:38
OC-SB-444-0.0/1.0-XXX	360-24343-1	V44815.D	09/09/2009	02:52
OC-SB-449-0.0/1.0-XXX	360-24343-4	V44816.D	09/09/2009	03:16
OC-SB-451-0.0/1.0-XXX	360-24343-7	V44817.D	09/09/2009	03:41
OC-SB-454-0.0/1.0-XXX	360-24343-11	V44818.D	09/09/2009	04:05
OC-TBK-010	360-24343-22	V44819.D	09/09/2009	04:29

OK

Dichlorodifluoromethane 61%/62%

TC
4-1-10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab File ID: V44836A.D BFB Injection Date: 09/09/2009

Instrument ID: HP #1 GC/MS 9-8-09 BFB Injection Time: 16:42

Analysis Batch No.: 48767

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.5	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	64.6	
175	5.0 - 9.0 % of mass 174	5.2	(8.0)1
176	95.0 - 101.0 % of mass 174	63.0	(97.6)1
177	5.0 - 9.0 % of mass 176	4.3	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48767/2	V44837.D	09/09/2009	16:42
	LCS 360-48765/1-A	V44838.D	09/09/2009	17:06
	LCSD 360-48765/2-A	V44839.D	09/09/2009	17:30
	MB 360-48765/3-A	V44843.D	09/09/2009	19:05
OC-SB-444-12/14-XXX	360-24343-2	V44846.D	09/09/2009	20:17

OK

Dichlorodifluoromethane 61%/67%

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab File ID: V07455.D BFB Injection Date: 09/04/2009

Instrument ID: HP #3 GC/MS BFB Injection Time: 14:59

Analysis Batch No.: 48619

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	57.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.6	
175	5.0 - 9.0 % of mass 174	6.3	(7.0)1
176	95.0 - 101.0 % of mass 174	88.6	(97.9)1
177	5.0 - 9.0 % of mass 176	5.6	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48619/2	V07456.D	09/04/2009	15:22
	STD0005 360-48619/3	V07458.D	09/04/2009	16:08
	STD001 360-48619/4	V07459.D	09/04/2009	16:31
	STD005 360-48619/5	V07460.D	09/04/2009	16:53
	STD010 360-48619/6	V07461.D	09/04/2009	17:16
	STD040 360-48619/7	V07462.D	09/04/2009	17:39
	STD080 360-48619/8	V07463.D	09/04/2009	18:02
	ICV 360-48619/9	V07464.D	09/04/2009	18:25

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab File ID: V07480.D BFB Injection Date: 09/05/2009

Instrument ID: HP #3 GC/MS 9-4-09 BFB Injection Time: 00:30

Analysis Batch No.: 48642

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.4	
75	30.0 - 60.0 % of mass 95	54.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.2	
175	5.0 - 9.0 % of mass 174	6.4	(7.1)1
176	95.0 - 101.0 % of mass 174	87.7	(97.2)1
177	5.0 - 9.0 % of mass 176	6.0	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48642/2	V07481.D	09/05/2009	00:52
	LCS 360-48640/1-A	V07482.D	09/05/2009	01:15
	LCSD 360-48640/2-A	V07483.D	09/05/2009	01:38
	MB 360-48640/3-A	V07485.D	09/05/2009	02:24
OC-SB-451-2.5/4.5-XXX	360-24343-10	V07487.D	09/05/2009	03:09
OC-SB-455-6.0/8.0-XXX	360-24343-17	V07488.D	09/05/2009	03:32
OC-SB-451-2.5/4.5-XXX MS	360-24343-10 MS	V07501.D	09/05/2009	08:25
OC-SB-451-2.5/4.5-XXX MSD	360-24343-10 MSD	V07502.D	09/05/2009	08:48
OC-SB-455-6.0/8.0-XXX MS	360-24343-17 MS	V07503.D	09/05/2009	09:10
OC-SB-455-6.0/8.0-XXX MSD	360-24343-17 MSD	V07504.D	09/05/2009	09:33

Acetone -31
244TMP-1 -26.7

Acetone 54%/68%
Dichlorodifluoromethane 44%/50%
Trichlorofluoromethane 65%

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab File ID: V44418.D BFB Injection Date: 08/24/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 17:23

Analysis Batch No.: 48090

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	42.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	76.7	
175	5.0 - 9.0 % of mass 174	6.0	(7.8)1
176	95.0 - 101.0 % of mass 174	75.2	(98.1)1
177	5.0 - 9.0 % of mass 176	5.0	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48090/2	V44419.D	08/24/2009	17:47
	STD0005 360-48090/3	V44421.D	08/24/2009	18:35
	STD001 360-48090/4	V44422.D	08/24/2009	18:59
	STD005 360-48090/5	V44423.D	08/24/2009	19:24
	STD010 360-48090/6	V44424.D	08/24/2009	19:48
	STD040 360-48090/7	V44425.D	08/24/2009	20:13
	STD080 360-48090/8	V44426.D	08/24/2009	20:37
	ICV 360-48090/10	V44456.D	08/25/2009	15:29

4-1-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44668.D

Lab ID: LCS 360-48473/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	110	110	70-130	
1,1,1-Trichloroethane	100	96.1	96	70-130	
1,1,2,2-Tetrachloroethane	100	98.0	98	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	83.1	83	70-130	
1,1,2-Trichloroethane	100	82.3	82	70-130	
1,1-Dichloroethane	100	113	113	70-130	
1,1-Dichloroethene	100	101	101	70-130	
1,1-Dichloropropene	100	101	101	70-130	
1,2,3-Trichlorobenzene	100	110	110	70-130	
1,2,3-Trichloropropane	100	103	103	70-130	
1,2,4-Trichlorobenzene	100	111	111	70-130	
1,2,4-Trimethylbenzene	100	110	110	70-130	
1,2-Dibromo-3-Chloropropane	100	93.6	94	70-130	
Ethylene Dibromide	100	77.1	77	70-130	
1,2-Dichlorobenzene	100	101	101	70-130	
1,2-Dichloroethane	100	93.2	93	70-130	
Acetone	1000	658	66	70-130	*
1,2-Dichloropropane	100	123	123	70-130	
1,3,5-Trimethylbenzene	100	115	115	70-130	
1,3-Dichlorobenzene	100	103	103	70-130	
1,3-Dichloropropane	100	82.9	83	70-130	
1,4-Dichlorobenzene	100	99.8	100	70-130	
1,4-Dioxane	1000	1010	101	70-130	
2,2-Dichloropropane	100	100	100	70-130	
2,4,4-Trimethyl-1-pentene	100	108	108	70-130	
2,4,4-Trimethyl-2-pentene	100	92.8	93	70-130	
2-Chlorotoluene	100	112	112	70-130	
2-Hexanone	1000	735	73	70-130	
4-Chlorotoluene	100	109	109	70-130	
Benzene	100	98.8	99	70-130	
Bromobenzene	100	108	108	70-130	
Chlorobromomethane	100	87.3	87	70-130	
Dichlorobromomethane	100	93.1	93	70-130	
Bromoform	100	85.3	85	70-130	
Bromomethane	100	114	114	70-130	
n-Butylbenzene	100	115	115	70-130	
Carbon disulfide	100	103	103	70-130	
Carbon tetrachloride	100	98.9	99	70-130	
Chlorobenzene	100	103	103	70-130	
Chloroethane	100	110	110	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44668.D

Lab ID: LCS 360-48473/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	104	104	70-130	
Chloromethane	100	104	104	70-130	
cis-1,2-Dichloroethene	100	104	104	70-130	
cis-1,3-Dichloropropene	100	84.5	85	70-130	
Cyclohexane	100	91.4	91	70-130	
Chlorodibromomethane	100	77.6	78	70-130	
Dibromomethane	100	87.8	88	70-130	
Dichlorodifluoromethane	100	51.3	51	70-130	*
Ethyl ether	100	92.5	93	70-130	
Isopropyl ether	100	100	100	70-130	
Tert-butyl ethyl ether	100	109	109	70-130	
Ethylbenzene	100	117	117	70-130	
Hexachlorobutadiene	100	109	109	70-130	
Isopropylbenzene	100	116	116	70-130	
Methyl acetate	1000	1430	143	70-130	*
2-Butanone (MEK)	1000	815	81	70-130	
4-Methyl-2-pentanone (MIBK)	1000	931	93	70-130	
Methyl tert-butyl ether	100	99.9	100	70-130	
Methylcyclohexane	100	88.3	88	70-130	
Methylene Chloride	100	118	118	70-130	
m-Xylene & p-Xylene	200	236	118	70-130	
Naphthalene	100	99.7	100	70-130	
N-Propylbenzene	100	115	115	70-130	
o-Xylene	100	111	111	70-130	
4-Isopropyltoluene	100	118	118	70-130	
sec-Butylbenzene	100	115	115	70-130	
Styrene	100	101	101	70-130	
Tert-amyl methyl ether	100	104	104	70-130	
tert-Butylbenzene	100	119	119	70-130	
Tetrachloroethene	100	87.3	87	70-130	
Tetrahydrofuran	1000	1010	101	70-130	
Toluene	100	91.5	92	70-130	
trans-1,2-Dichloroethene	100	99.8	100	70-130	
trans-1,3-Dichloropropene	100	79.6	80	70-130	
Trichloroethene	100	97.5	97	70-130	
Trichlorofluoromethane	100	86.5	86	70-130	
Vinyl chloride	100	95.4	95	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44669.D

Lab ID: LCSD 360-48473/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	107	107	2	25	70-130	
1,1,1-Trichloroethane	100	91.8	92	5	25	70-130	
1,1,2,2-Tetrachloroethane	100	104	104	6	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	83.3	83	0	25	70-130	
1,1,2-Trichloroethane	100	85.3	85	3	25	70-130	
1,1-Dichloroethane	100	111	111	2	25	70-130	
1,1-Dichloroethene	100	96.3	96	5	25	70-130	
1,1-Dichloropropene	100	97.9	98	3	25	70-130	
1,2,3-Trichlorobenzene	100	107	107	3	25	70-130	
1,2,3-Trichloropropane	100	107	107	4	25	70-130	
1,2,4-Trichlorobenzene	100	106	106	4	25	70-130	
1,2,4-Trimethylbenzene	100	106	106	4	25	70-130	
1,2-Dibromo-3-Chloropropane	100	95.5	95	2	25	70-130	
Ethylene Dibromide	100	78.8	79	2	25	70-130	
1,2-Dichlorobenzene	100	99.1	99	2	25	70-130	
1,2-Dichloroethane	100	95.3	95	2	25	70-130	
Acetone	1000	563	56*	16	25	70-130	*
1,2-Dichloropropane	100	121	121	1	25	70-130	
1,3,5-Trimethylbenzene	100	110	110	4	25	70-130	
1,3-Dichlorobenzene	100	99.7	100	3	25	70-130	
1,3-Dichloropropane	100	84.4	84	2	25	70-130	
1,4-Dichlorobenzene	100	98.1	98	2	25	70-130	
1,4-Dioxane	1000	1060	106	5	25	70-130	
2,2-Dichloropropane	100	94.3	94	6	25	70-130	
2,4,4-Trimethyl-1-pentene	100	110	110	2	25	70-130	
2,4,4-Trimethyl-2-pentene	100	92.2	92	1	25	70-130	
2-Chlorotoluene	100	108	108	4	25	70-130	
2-Hexanone	1000	772	77	5	25	70-130	
4-Chlorotoluene	100	105	105	4	25	70-130	
Benzene	100	96.0	96	3	25	70-130	
Bromobenzene	100	104	104	3	25	70-130	
Chlorobromomethane	100	86.3	86	1	25	70-130	
Dichlorobromomethane	100	93.2	93	0	25	70-130	
Bromoform	100	87.9	88	3	25	70-130	
Bromomethane	100	106	106	7	25	70-130	
n-Butylbenzene	100	109	109	5	25	70-130	
Carbon disulfide	100	98.8	99	4	25	70-130	
Carbon tetrachloride	100	95.1	95	4	25	70-130	
Chlorobenzene	100	99.4	99	3	25	70-130	
Chloroethane	100	101	101	8	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44669.D

Lab ID: LCSD 360-48473/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	100	100	4	25	70-130	
Chloromethane	100	96.9	97	8	25	70-130	
cis-1,2-Dichloroethene	100	102	102	2	25	70-130	
cis-1,3-Dichloropropene	100	85.2	85	1	25	70-130	
Cyclohexane	100	94.4	94	3	25	70-130	
Chlorodibromomethane	100	79.5	80	3	25	70-130	
Dibromomethane	100	89.0	89	1	25	70-130	
Dichlorodifluoromethane	100	49.2	49	4	25	70-130	*
Ethyl ether	100	96.2	96	4	25	70-130	
Isopropyl ether	100	99.3	99	1	25	70-130	
Tert-butyl ethyl ether	100	110	110	0	25	70-130	
Ethylbenzene	100	112	112	4	25	70-130	
Hexachlorobutadiene	100	102	102	7	25	70-130	
Isopropylbenzene	100	111	111	5	25	70-130	
Methyl acetate	1000	1520	152	6	25	70-130	*
2-Butanone (MEK)	1000	865	87	6	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	985	99	6	25	70-130	
Methyl tert-butyl ether	100	103	103	3	25	70-130	
Methylcyclohexane	100	90.2	90	2	25	70-130	
Methylene Chloride	100	115	115	3	25	70-130	
m-Xylene & p-Xylene	200	227	113	4	25	70-130	
Naphthalene	100	101	101	1	25	70-130	
N-Propylbenzene	100	109	109	5	25	70-130	
o-Xylene	100	108	108	3	25	70-130	
4-Isopropyltoluene	100	112	112	4	25	70-130	
sec-Butylbenzene	100	110	110	5	25	70-130	
Styrene	100	97.8	98	3	25	70-130	
Tert-amyl methyl ether	100	105	105	1	25	70-130	
tert-Butylbenzene	100	113	113	5	25	70-130	
Tetrachloroethene	100	83.4	83	5	25	70-130	
Tetrahydrofuran	1000	1080	108	7	25	70-130	
Toluene	100	89.3	89	2	25	70-130	
trans-1,2-Dichloroethene	100	96.8	97	3	25	70-130	
trans-1,3-Dichloropropene	100	81.2	81	2	25	70-130	
Trichloroethene	100	94.1	94	3	25	70-130	
Trichlorofluoromethane	100	81.8	82	6	25	70-130	
Vinyl chloride	100	90.7	91	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07482.D

Lab ID: LCS 360-48640/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	94.7	95	70-130	
1,1,1-Trichloroethane	100	83.7	84	70-130	
1,1,2,2-Tetrachloroethane	100	95.4	95	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	70.1	70	70-130	
1,1,2-Trichloroethane	100	98.0	98	70-130	
1,1-Dichloroethane	100	94.7	95	70-130	
1,1-Dichloroethene	100	84.8	85	70-130	
1,1-Dichloropropene	100	91.7	92	70-130	
1,2,3-Trichlorobenzene	100	109	109	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	106	106	70-130	
1,2,4-Trimethylbenzene	100	94.4	94	70-130	
1,2-Dibromo-3-Chloropropane	100	98.8	99	70-130	
Ethylene Dibromide	100	101	101	70-130	
1,2-Dichlorobenzene	100	96.3	96	70-130	
1,2-Dichloroethane	100	94.8	95	70-130	
Acetone	1000	538	54	70-130	*
1,2-Dichloropropane	100	101	101	70-130	
1,3,5-Trimethylbenzene	100	93.0	93	70-130	
1,3-Dichlorobenzene	100	96.8	97	70-130	
1,3-Dichloropropane	100	101	101	70-130	
1,4-Dichlorobenzene	100	95.3	95	70-130	
1,4-Dioxane	1000	1150	115	70-130	
2,2-Dichloropropane	100	77.3	77	70-130	
2,4,4-Trimethyl-1-pentene	100	72.1	72	70-130	
2,4,4-Trimethyl-2-pentene	100	77.6	78	70-130	
2-Chlorotoluene	100	92.2	92	70-130	
2-Hexanone	1000	885	88	70-130	
4-Chlorotoluene	100	95.3	95	70-130	
Benzene	100	97.2	97	70-130	
Bromobenzene	100	93.7	94	70-130	
Chlorobromomethane	100	98.6	99	70-130	
Dichlorobromomethane	100	96.4	96	70-130	
Bromoform	100	97.3	97	70-130	
Bromomethane	100	81.5	81	70-130	
n-Butylbenzene	100	92.1	92	70-130	
Carbon disulfide	100	91.2	91	70-130	
Carbon tetrachloride	100	80.4	80	70-130	
Chlorobenzene	100	95.8	96	70-130	
Chloroethane	100	78.3	78	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07482.D

Lab ID: LCS 360-48640/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	97.8	98	70-130	
Chloromethane	100	78.4	78	70-130	
cis-1,2-Dichloroethene	100	95.9	96	70-130	
cis-1,3-Dichloropropene	100	99.3	99	70-130	
Cyclohexane	100	85.0	85	70-130	
Chlorodibromomethane	100	94.8	95	70-130	
Dibromomethane	100	96.3	96	70-130	
Dichlorodifluoromethane	100	43.8	44	70-130	*
Ethyl ether	100	98.5	99	70-130	
Isopropyl ether	100	100	100	70-130	
Tert-butyl ethyl ether	100	102	102	70-130	
Ethylbenzene	100	91.2	91	70-130	
Hexachlorobutadiene	100	112	112	70-130	
Isopropylbenzene	100	94.5	95	70-130	
Methyl acetate	1000	1090	109	70-130	
2-Butanone (MEK)	1000	814	81	70-130	
4-Methyl-2-pentanone (MIBK)	1000	880	88	70-130	
Methyl tert-butyl ether	100	101	101	70-130	
Methylcyclohexane	100	83.3	83	70-130	
Methylene Chloride	100	103	103	70-130	
m-Xylene & p-Xylene	200	188	94	70-130	
Naphthalene	100	109	109	70-130	
N-Propylbenzene	100	90.7	91	70-130	
o-Xylene	100	96.8	97	70-130	
4-Isopropyltoluene	100	96.3	96	70-130	
sec-Butylbenzene	100	89.3	89	70-130	
Styrene	100	99.4	99	70-130	
Tert-amyl methyl ether	100	105	105	70-130	
tert-Butylbenzene	100	93.8	94	70-130	
Tetrachloroethene	100	89.6	90	70-130	
Tetrahydrofuran	1000	1010	101	70-130	
Toluene	100	94.3	94	70-130	
trans-1,2-Dichloroethene	100	91.4	91	70-130	
trans-1,3-Dichloropropene	100	101	101	70-130	
Trichloroethene	100	93.4	93	70-130	
Trichlorofluoromethane	100	64.9	65	70-130	*
Vinyl chloride	100	82.3	82	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07483.D

Lab ID: LCSD 360-48640/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	103	103	9	25	70-130	
1,1,1-Trichloroethane	100	91.7	92	9	25	70-130	
1,1,2,2-Tetrachloroethane	100	105	105	9	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	77.9	78	11	25	70-130	
1,1,2-Trichloroethane	100	105	105	7	25	70-130	
1,1-Dichloroethane	100	102	102	7	25	70-130	
1,1-Dichloroethene	100	90.9	91	7	25	70-130	
1,1-Dichloropropene	100	98.1	98	7	25	70-130	
1,2,3-Trichlorobenzene	100	119	119	9	25	70-130	
1,2,3-Trichloropropane	100	123	123	13	25	70-130	
1,2,4-Trichlorobenzene	100	115	115	8	25	70-130	
1,2,4-Trimethylbenzene	100	104	104	10	25	70-130	
1,2-Dibromo-3-Chloropropane	100	109	109	10	25	70-130	
Ethylene Dibromide	100	108	108	7	25	70-130	
1,2-Dichlorobenzene	100	105	105	9	25	70-130	
1,2-Dichloroethane	100	101	101	6	25	70-130	
Acetone	1000	676	68	23	25	70-130	*
1,2-Dichloropropane	100	107	107	6	25	70-130	
1,3,5-Trimethylbenzene	100	103	103	10	25	70-130	
1,3-Dichlorobenzene	100	106	106	9	25	70-130	
1,3-Dichloropropane	100	108	108	7	25	70-130	
1,4-Dichlorobenzene	100	103	103	8	25	70-130	
1,4-Dioxane	1000	1490	149	26	25	70-130	*
2,2-Dichloropropane	100	88.5	89	14	25	70-130	
2,4,4-Trimethyl-1-pentene	100	77.5	77	7	25	70-130	
2,4,4-Trimethyl-2-pentene	100	84.2	84	8	25	70-130	
2-Chlorotoluene	100	102	102	11	25	70-130	
2-Hexanone	1000	950	95	7	25	70-130	
4-Chlorotoluene	100	105	105	10	25	70-130	
Benzene	100	105	105	7	25	70-130	
Bromobenzene	100	103	103	10	25	70-130	
Chlorobromomethane	100	107	107	8	25	70-130	
Dichlorobromomethane	100	102	102	6	25	70-130	
Bromoform	100	103	103	5	25	70-130	
Bromomethane	100	103	103	23	25	70-130	
n-Butylbenzene	100	99.6	100	8	25	70-130	
Carbon disulfide	100	98.3	98	8	25	70-130	
Carbon tetrachloride	100	87.2	87	8	25	70-130	
Chlorobenzene	100	102	102	6	25	70-130	
Chloroethane	100	96.0	96	20	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 4-1-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07483.D

Lab ID: LCSD 360-48640/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	104	104	6	25	70-130	
Chloromethane	100	93.1	93	17	25	70-130	
cis-1,2-Dichloroethene	100	105	105	9	25	70-130	
cis-1,3-Dichloropropene	100	104	104	5	25	70-130	
Cyclohexane	100	84.9	85	0	25	70-130	
Chlorodibromomethane	100	101	101	6	25	70-130	
Dibromomethane	100	105	105	9	25	70-130	
Dichlorodifluoromethane	100	50.0	50	13	25	70-130	*
Ethyl ether	100	108	108	9	25	70-130	
Isopropyl ether	100	110	110	10	25	70-130	
Tert-butyl ethyl ether	100	112	112	9	25	70-130	
Ethylbenzene	100	98.9	99	8	25	70-130	
Hexachlorobutadiene	100	120	120	7	25	70-130	
Isopropylbenzene	100	104	104	10	25	70-130	
Methyl acetate	1000	1110	111	2	25	70-130	
2-Butanone (MEK)	1000	907	91	11	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	974	97	10	25	70-130	
Methyl tert-butyl ether	100	110	110	9	25	70-130	
Methylcyclohexane	100	84.4	84	1	25	70-130	
Methylene Chloride	100	111	111	8	25	70-130	
m-Xylene & p-Xylene	200	202	101	8	25	70-130	
Naphthalene	100	118	118	8	25	70-130	
N-Propylbenzene	100	101	101	11	25	70-130	
o-Xylene	100	106	106	9	25	70-130	
4-Isopropyltoluene	100	108	108	12	25	70-130	
sec-Butylbenzene	100	99.2	99	10	25	70-130	
Styrene	100	107	107	7	25	70-130	
Tert-amyl methyl ether	100	116	116	10	25	70-130	
tert-Butylbenzene	100	105	105	11	25	70-130	
Tetrachloroethene	100	95.2	95	6	25	70-130	
Tetrahydrofuran	1000	1110	111	9	25	70-130	
Toluene	100	101	101	7	25	70-130	
trans-1,2-Dichloroethene	100	99.3	99	8	25	70-130	
trans-1,3-Dichloropropene	100	104	104	3	25	70-130	
Trichloroethene	100	99.8	100	7	25	70-130	
Trichlorofluoromethane	100	78.2	78	19	25	70-130	
Vinyl chloride	100	97.3	97	17	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 4-1-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44799.D

Lab ID: LCS 360-48710/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	105	105	70-130	
1,1,1-Trichloroethane	100	95.2	95	70-130	
1,1,2,2-Tetrachloroethane	100	89.3	89	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	94.7	95	70-130	
1,1,2-Trichloroethane	100	89.6	90	70-130	
1,1-Dichloroethane	100	104	104	70-130	
1,1-Dichloroethene	100	100	100	70-130	
1,1-Dichloropropene	100	94.7	95	70-130	
1,2,3-Trichlorobenzene	100	100	100	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	99.7	100	70-130	
1,2,4-Trimethylbenzene	100	100	100	70-130	
1,2-Dibromo-3-Chloropropane	100	87.3	87	70-130	
Ethylene Dibromide	100	90.7	91	70-130	
1,2-Dichlorobenzene	100	95.8	96	70-130	
1,2-Dichloroethane	100	93.0	93	70-130	
Acetone	1000	840	84	70-130	
1,2-Dichloropropane	100	107	107	70-130	
1,3,5-Trimethylbenzene	100	104	104	70-130	
1,3-Dichlorobenzene	100	101	101	70-130	
1,3-Dichloropropane	100	92.1	92	70-130	
1,4-Dichlorobenzene	100	98.0	98	70-130	
1,4-Dioxane	1000	974	97	70-130	
2,2-Dichloropropane	100	110	110	70-130	
2,4,4-Trimethyl-1-pentene	100	111	111	70-130	
2,4,4-Trimethyl-2-pentene	100	100	100	70-130	
2-Chlorotoluene	100	101	101	70-130	
2-Hexanone	1000	802	80	70-130	
4-Chlorotoluene	100	104	104	70-130	
Benzene	100	98.0	98	70-130	
Bromobenzene	100	98.9	99	70-130	
Chlorobromomethane	100	94.4	94	70-130	
Dichlorobromomethane	100	94.5	95	70-130	
Bromoform	100	85.7	86	70-130	
Bromomethane	100	102	102	70-130	
n-Butylbenzene	100	100	100	70-130	
Carbon disulfide	100	98.4	98	70-130	
Carbon tetrachloride	100	95.2	95	70-130	
Chlorobenzene	100	101	101	70-130	
Chloroethane	100	105	105	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44799.D

Lab ID: LCS 360-48710/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	103	103	70-130	
Chloromethane	100	96.4	96	70-130	
cis-1,2-Dichloroethene	100	98.8	99	70-130	
cis-1,3-Dichloropropene	100	93.0	93	70-130	
Cyclohexane	100	101	101	70-130	
Chlorodibromomethane	100	90.5	91	70-130	
Dibromomethane	100	91.2	91	70-130	
Dichlorodifluoromethane	100	61.0	61	70-130	*
Ethyl ether	100	101	101	70-130	
Isopropyl ether	100	94.6	95	70-130	
Tert-butyl ethyl ether	100	94.6	95	70-130	
Ethylbenzene	100	107	107	70-130	
Hexachlorobutadiene	100	98.6	99	70-130	
Isopropylbenzene	100	103	103	70-130	
Methyl acetate	1000	1070	107	70-130	
2-Butanone (MEK)	1000	861	86	70-130	
4-Methyl-2-pentanone (MIBK)	1000	847	85	70-130	
Methyl tert-butyl ether	100	89.4	89	70-130	
Methylcyclohexane	100	101	101	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	201	101	70-130	
Naphthalene	100	90.9	91	70-130	
N-Propylbenzene	100	103	103	70-130	
o-Xylene	100	102	102	70-130	
4-Isopropyltoluene	100	106	106	70-130	
sec-Butylbenzene	100	103	103	70-130	
Styrene	100	100	100	70-130	
Tert-amyl methyl ether	100	93.6	94	70-130	
tert-Butylbenzene	100	106	106	70-130	
Tetrachloroethene	100	99.6	100	70-130	
Tetrahydrofuran	1000	970	97	70-130	
Toluene	100	100	100	70-130	
trans-1,2-Dichloroethene	100	95.2	95	70-130	
trans-1,3-Dichloropropene	100	92.4	92	70-130	
Trichloroethene	100	98.1	98	70-130	
Trichlorofluoromethane	100	93.1	93	70-130	
Vinyl chloride	100	97.8	98	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44800.D

Lab ID: LCSD 360-48710/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	108	108	3	25	70-130	
1,1,1-Trichloroethane	100	95.9	96	1	25	70-130	
1,1,2,2-Tetrachloroethane	100	97.6	98	9	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	92.3	92	3	25	70-130	
1,1,2-Trichloroethane	100	101	101	12	25	70-130	
1,1-Dichloroethane	100	106	106	2	25	70-130	
1,1-Dichloroethene	100	98.9	99	1	25	70-130	
1,1-Dichloropropene	100	95.6	96	1	25	70-130	
1,2,3-Trichlorobenzene	100	106	106	5	25	70-130	
1,2,3-Trichloropropane	100	119	119	10	25	70-130	
1,2,4-Trichlorobenzene	100	105	105	5	25	70-130	
1,2,4-Trimethylbenzene	100	100	100	0	25	70-130	
1,2-Dibromo-3-Chloropropane	100	98.8	99	12	25	70-130	
Ethylene Dibromide	100	100	100	10	25	70-130	
1,2-Dichlorobenzene	100	100	100	5	25	70-130	
1,2-Dichloroethane	100	100	100	7	25	70-130	
Acetone	1000	826	83	2	25	70-130	
1,2-Dichloropropane	100	111	111	4	25	70-130	
1,3,5-Trimethylbenzene	100	103	103	0	25	70-130	
1,3-Dichlorobenzene	100	101	101	0	25	70-130	
1,3-Dichloropropane	100	99.0	99	7	25	70-130	
1,4-Dichlorobenzene	100	102	102	4	25	70-130	
1,4-Dioxane	1000	912	91	7	25	70-130	
2,2-Dichloropropane	100	109	109	0	25	70-130	
2,4,4-Trimethyl-1-pentene	100	109	109	1	25	70-130	
2,4,4-Trimethyl-2-pentene	100	98.7	99	2	25	70-130	
2-Chlorotoluene	100	101	101	0	25	70-130	
2-Hexanone	1000	931	93	15	25	70-130	
4-Chlorotoluene	100	104	104	0	25	70-130	
Benzene	100	99.6	100	2	25	70-130	
Bromobenzene	100	101	101	2	25	70-130	
Chlorobromomethane	100	99.8	100	5	25	70-130	
Dichlorobromomethane	100	101	101	7	25	70-130	
Bromoform	100	92.1	92	7	25	70-130	
Bromomethane	100	104	104	2	25	70-130	
n-Butylbenzene	100	101	101	1	25	70-130	
Carbon disulfide	100	98.0	98	0	25	70-130	
Carbon tetrachloride	100	93.5	94	2	25	70-130	
Chlorobenzene	100	103	103	2	25	70-130	
Chloroethane	100	104	104	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44800.D

Lab ID: LCSD 360-48710/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	103	103	0	25	70-130	
Chloromethane	100	97.3	97	1	25	70-130	
cis-1,2-Dichloroethene	100	100	100	1	25	70-130	
cis-1,3-Dichloropropene	100	98.3	98	6	25	70-130	
Cyclohexane	100	92.1	92	9	25	70-130	
Chlorodibromomethane	100	97.1	97	7	25	70-130	
Dibromomethane	100	98.7	99	8	25	70-130	
Dichlorodifluoromethane	100	62.4	62	2	25	70-130	*
Ethyl ether	100	110	110	9	25	70-130	
Isopropyl ether	100	98.8	99	4	25	70-130	
Tert-butyl ethyl ether	100	101	101	6	25	70-130	
Ethylbenzene	100	105	105	1	25	70-130	
Hexachlorobutadiene	100	99.9	100	1	25	70-130	
Isopropylbenzene	100	103	103	0	25	70-130	
Methyl acetate	1000	1040	104	2	25	70-130	
2-Butanone (MEK)	1000	949	95	10	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	945	94	11	25	70-130	
Methyl tert-butyl ether	100	98.1	98	9	25	70-130	
Methylcyclohexane	100	93.6	94	8	25	70-130	
Methylene Chloride	100	107	107	3	25	70-130	
m-Xylene & p-Xylene	200	201	100	0	25	70-130	
Naphthalene	100	101	101	10	25	70-130	
N-Propylbenzene	100	103	103	0	25	70-130	
o-Xylene	100	101	101	0	25	70-130	
4-Isopropyltoluene	100	105	105	1	25	70-130	
sec-Butylbenzene	100	103	103	0	25	70-130	
Styrene	100	102	102	2	25	70-130	
Tert-amyl methyl ether	100	101	101	8	25	70-130	
tert-Butylbenzene	100	106	106	0	25	70-130	
Tetrachloroethene	100	100	100	1	25	70-130	
Tetrahydrofuran	1000	1090	109	11	25	70-130	
Toluene	100	102	102	2	25	70-130	
trans-1,2-Dichloroethene	100	95.5	96	0	25	70-130	
trans-1,3-Dichloropropene	100	102	102	10	25	70-130	
Trichloroethene	100	99.9	100	2	25	70-130	
Trichlorofluoromethane	100	93.2	93	0	25	70-130	
Vinyl chloride	100	96.6	97	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44838.D

Lab ID: LCS 360-48765/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	96.3	96	70-130	
1,1,1-Trichloroethane	100	90.5	90	70-130	
1,1,2,2-Tetrachloroethane	100	89.9	90	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	90.6	91	70-130	
1,1,2-Trichloroethane	100	92.8	93	70-130	
1,1-Dichloroethane	100	97.2	97	70-130	
1,1-Dichloroethene	100	94.9	95	70-130	
1,1-Dichloropropene	100	91.0	91	70-130	
1,2,3-Trichlorobenzene	100	101	101	70-130	
1,2,3-Trichloropropane	100	110	110	70-130	
1,2,4-Trichlorobenzene	100	98.9	99	70-130	
1,2,4-Trimethylbenzene	100	91.4	91	70-130	
1,2-Dibromo-3-Chloropropane	100	93.9	94	70-130	
Ethylene Dibromide	100	94.6	95	70-130	
1,2-Dichlorobenzene	100	92.2	92	70-130	
1,2-Dichloroethane	100	92.0	92	70-130	
Acetone	1000	918	92	70-130	
1,2-Dichloropropane	100	100	100	70-130	
1,3,5-Trimethylbenzene	100	94.0	94	70-130	
1,3-Dichlorobenzene	100	94.1	94	70-130	
1,3-Dichloropropane	100	91.3	91	70-130	
1,4-Dichlorobenzene	100	93.8	94	70-130	
1,4-Dioxane	1000	923	92	70-130	
2,2-Dichloropropane	100	105	105	70-130	
2,4,4-Trimethyl-1-pentene	100	104	104	70-130	
2,4,4-Trimethyl-2-pentene	100	95.9	96	70-130	
2-Chlorotoluene	100	90.7	91	70-130	
2-Hexanone	1000	887	89	70-130	
4-Chlorotoluene	100	93.4	93	70-130	
Benzene	100	91.6	92	70-130	
Bromobenzene	100	91.1	91	70-130	
Chlorobromomethane	100	94.5	95	70-130	
Dichlorobromomethane	100	91.8	92	70-130	
Bromoform	100	86.1	86	70-130	
Bromomethane	100	98.6	99	70-130	
n-Butylbenzene	100	94.7	95	70-130	
Carbon disulfide	100	92.1	92	70-130	
Carbon tetrachloride	100	90.4	90	70-130	
Chlorobenzene	100	93.4	93	70-130	
Chloroethane	100	95.9	96	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-16 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44838.D

Lab ID: LCS 360-48765/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	95.4	95	70-130	
Chloromethane	100	89.5	89	70-130	
cis-1,2-Dichloroethene	100	92.7	93	70-130	
cis-1,3-Dichloropropene	100	89.9	90	70-130	
Cyclohexane	100	97.8	98	70-130	
Chlorodibromomethane	100	88.6	89	70-130	
Dibromomethane	100	89.7	90	70-130	
Dichlorodifluoromethane	100	61.0	61	70-130	*
Ethyl ether	100	103	103	70-130	
Isopropyl ether	100	91.8	92	70-130	
Tert-butyl ethyl ether	100	94.7	95	70-130	
Ethylbenzene	100	95.6	96	70-130	
Hexachlorobutadiene	100	93.3	93	70-130	
Isopropylbenzene	100	94.4	94	70-130	
Methyl acetate	1000	1070	107	70-130	
2-Butanone (MEK)	1000	930	93	70-130	
4-Methyl-2-pentanone (MIBK)	1000	920	92	70-130	
Methyl tert-butyl ether	100	92.4	92	70-130	
Methylcyclohexane	100	99.8	100	70-130	
Methylene Chloride	100	102	102	70-130	
m-Xylene & p-Xylene	200	182	91	70-130	
Naphthalene	100	95.1	95	70-130	
N-Propylbenzene	100	93.8	94	70-130	
o-Xylene	100	91.4	91	70-130	
4-Isopropyltoluene	100	99.2	99	70-130	
sec-Butylbenzene	100	95.6	96	70-130	
Styrene	100	92.3	92	70-130	
Tert-amyl methyl ether	100	96.6	97	70-130	
tert-Butylbenzene	100	97.2	97	70-130	
Tetrachloroethene	100	96.0	96	70-130	
Tetrahydrofuran	1000	1030	103	70-130	
Toluene	100	93.1	93	70-130	
trans-1,2-Dichloroethene	100	88.3	88	70-130	
trans-1,3-Dichloropropene	100	92.8	93	70-130	
Trichloroethene	100	93.5	93	70-130	
Trichlorofluoromethane	100	91.9	92	70-130	
Vinyl chloride	100	91.8	92	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44839.D

Lab ID: LCSD 360-48765/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	102	102	6	25	70-130	
1,1,1-Trichloroethane	100	95.9	96	6	25	70-130	
1,1,2,2-Tetrachloroethane	100	91.5	91	2	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	97.0	97	7	25	70-130	
1,1,2-Trichloroethane	100	93.7	94	1	25	70-130	
1,1-Dichloroethane	100	102	102	4	25	70-130	
1,1-Dichloroethene	100	101	101	6	25	70-130	
1,1-Dichloropropene	100	95.2	95	5	25	70-130	
1,2,3-Trichlorobenzene	100	108	108	7	25	70-130	
1,2,3-Trichloropropane	100	114	114	4	25	70-130	
1,2,4-Trichlorobenzene	100	105	105	6	25	70-130	
1,2,4-Trimethylbenzene	100	98.6	99	8	25	70-130	
1,2-Dibromo-3-Chloropropane	100	97.7	98	4	25	70-130	
Ethylene Dibromide	100	95.0	95	0	25	70-130	
1,2-Dichlorobenzene	100	96.4	96	4	25	70-130	
1,2-Dichloroethane	100	95.0	95	3	25	70-130	
Acetone	1000	877	88	5	25	70-130	
1,2-Dichloropropane	100	105	105	5	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	8	25	70-130	
1,3-Dichlorobenzene	100	100	100	6	25	70-130	
1,3-Dichloropropane	100	92.2	92	1	25	70-130	
1,4-Dichlorobenzene	100	97.8	98	4	25	70-130	
1,4-Dioxane	1000	846	85	9	25	70-130	
2,2-Dichloropropane	100	112	112	6	25	70-130	
2,4,4-Trimethyl-1-pentene	100	114	114	9	25	70-130	
2,4,4-Trimethyl-2-pentene	100	102	102	7	25	70-130	
2-Chlorotoluene	100	97.1	97	7	25	70-130	
2-Hexanone	1000	902	90	2	25	70-130	
4-Chlorotoluene	100	99.7	100	7	25	70-130	
Benzene	100	95.9	96	5	25	70-130	
Bromobenzene	100	95.5	96	5	25	70-130	
Chlorobromomethane	100	97.5	97	3	25	70-130	
Dichlorobromomethane	100	93.8	94	2	25	70-130	
Bromoform	100	85.1	85	1	25	70-130	
Bromomethane	100	106	106	7	25	70-130	
n-Butylbenzene	100	99.3	99	5	25	70-130	
Carbon disulfide	100	96.5	96	5	25	70-130	
Carbon tetrachloride	100	95.8	96	6	25	70-130	
Chlorobenzene	100	97.6	98	4	25	70-130	
Chloroethane	100	103	103	7	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 4-1-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V44839.D

Lab ID: LCSD 360-48765/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	100	100	5	25	70-130	
Chloromethane	100	98.2	98	9	25	70-130	
cis-1,2-Dichloroethene	100	96.2	96	4	25	70-130	
cis-1,3-Dichloropropene	100	91.6	92	2	25	70-130	
Cyclohexane	100	98.3	98	0	25	70-130	
Chlorodibromomethane	100	91.1	91	3	25	70-130	
Dibromomethane	100	92.7	93	3	25	70-130	
Dichlorodifluoromethane	100	66.6	67	9	25	70-130	*
Ethyl ether	100	101	101	1	25	70-130	
Isopropyl ether	100	94.9	95	3	25	70-130	
Tert-butyl ethyl ether	100	97.8	98	3	25	70-130	
Ethylbenzene	100	101	101	6	25	70-130	
Hexachlorobutadiene	100	99.3	99	6	25	70-130	
Isopropylbenzene	100	101	101	7	25	70-130	
Methyl acetate	1000	1020	102	4	25	70-130	
2-Butanone (MEK)	1000	903	90	3	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	942	94	2	25	70-130	
Methyl tert-butyl ether	100	95.2	95	3	25	70-130	
Methylcyclohexane	100	99.6	100	0	25	70-130	
Methylene Chloride	100	105	105	3	25	70-130	
m-Xylene & p-Xylene	200	192	96	6	25	70-130	
Naphthalene	100	99.9	100	5	25	70-130	
N-Propylbenzene	100	99.5	99	6	25	70-130	
o-Xylene	100	97.5	98	6	25	70-130	
4-Isopropyltoluene	100	106	106	7	25	70-130	
sec-Butylbenzene	100	103	103	7	25	70-130	
Styrene	100	96.7	97	5	25	70-130	
Tert-amyl methyl ether	100	99.7	100	3	25	70-130	
tert-Butylbenzene	100	105	105	8	25	70-130	
Tetrachloroethene	100	99.1	99	3	25	70-130	
Tetrahydrofuran	1000	1050	105	2	25	70-130	
Toluene	100	97.3	97	4	25	70-130	
trans-1,2-Dichloroethene	100	92.5	93	5	25	70-130	
trans-1,3-Dichloropropene	100	91.6	92	1	25	70-130	
Trichloroethene	100	99.3	99	6	25	70-130	
Trichlorofluoromethane	100	98.7	99	7	25	70-130	
Vinyl chloride	100	98.4	98	7	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4-1-10

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07501.D

Lab ID: 360-24343-10 MS Client ID: OC-SB-451-2.5/4.5-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	113	ND	85.4	76	70-130	
1,1,1-Trichloroethane	113	ND	148	131	70-130	F
1,1,2,2-Tetrachloroethane	113	ND	81.4	72	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	113	ND	61.3	54	70-130	F
1,1,2-Trichloroethane	113	ND	92.5	82	70-130	
1,1-Dichloroethane	113	ND	105	93	70-130	
1,1-Dichloroethene	113	ND	92.4	82	70-130	
1,1-Dichloropropene	113	ND	79.7	71	70-130	
1,2,3-Trichlorobenzene	113	ND	30.6	27	70-130	F
1,2,3-Trichloropropane	113	ND	88.2	78	70-130	
1,2,4-Trichlorobenzene	113	ND	29.0	26	70-130	F
1,2,4-Trimethylbenzene	113	ND	52.3	46	70-130	F
1,2-Dibromo-3-Chloropropane	113	ND	72.2	64	70-130	F
Ethylene Dibromide	113	ND	89.9	80	70-130	
1,2-Dichlorobenzene	113	ND	46.7	41	70-130	F
1,2-Dichloroethane	113	ND	103	91	70-130	
Acetone	1130	ND	946	84	70-130	
1,2-Dichloropropane	113	ND	103	91	70-130	
1,3,5-Trimethylbenzene	113	ND	53.5	48	70-130	F
1,3-Dichlorobenzene	113	ND	46.3	41	70-130	F
1,3-Dichloropropane	113	ND	94.5	84	70-130	
1,4-Dichlorobenzene	113	ND	45.2	40	70-130	F
1,4-Dioxane	1130	ND	1670	149	70-130	F
2,2-Dichloropropane	113	ND	53.9	48	70-130	F
2,4,4-Trimethyl-1-pentene	113	ND	49.0	44	70-130	F
2,4,4-Trimethyl-2-pentene	113	ND	52.2	46	70-130	F
2-Chlorotoluene	113	ND	53.5	48	70-130	F
2-Hexanone	1130	ND	798	71	70-130	
4-Chlorotoluene	113	ND	51.9	46	70-130	F
Benzene	113	ND	97.8	87	70-130	
Bromobenzene	113	ND	61.5	55	70-130	F
Chlorobromomethane	113	ND	106	94	70-130	
Dichlorobromomethane	113	ND	95.7	85	70-130	
Bromoform	113	ND	83.6	74	70-130	
Bromomethane	113	ND	99.4	88	70-130	
n-Butylbenzene	113	ND	34.9	31	70-130	F
Carbon disulfide	113	ND	85.2	76	70-130	
Carbon tetrachloride	113	ND	76.7	68	70-130	F
Chlorobenzene	113	ND	69.4	62	70-130	F
Chloroethane	113	ND	95.9	85	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

Ranging
18% - 68%
131% - 287%

4-1-10
TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07501.D

Lab ID: 360-24343-10 MS Client ID: OC-SB-451-2.5/4.5-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloroform	113	ND	105	93	70-130	
Chloromethane	113	ND	88.8	79	70-130	
cis-1,2-Dichloroethene	113	ND	103	92	70-130	
cis-1,3-Dichloropropene	113	ND	82.3	73	70-130	
Cyclohexane	113	ND	66.2	59	70-130	F
Chlorodibromomethane	113	ND	84.2	75	70-130	
Dibromomethane	113	ND	99.9	89	70-130	
Dichlorodifluoromethane	113	ND	36.0	32	70-130	F
Ethyl ether	113	ND	108	96	70-130	
Isopropyl ether	113	ND	114	101	70-130	
Tert-butyl ethyl ether	113	ND	114	101	70-130	
Ethylbenzene	113	ND	64.8	58	70-130	F
Hexachlorobutadiene	113	ND	20.1	18	70-130	F
Isopropylbenzene	113	ND	60.1	53	70-130	F
Methyl acetate	1130	ND	3230	287	70-130	F
2-Butanone (MEK)	1130	ND	1130	100	70-130	
4-Methyl-2-pentanone (MIBK)	1130	ND	931	83	70-130	
Methyl tert-butyl ether	113	ND	111	99	70-130	
Methylcyclohexane	113	ND	57.0	51	70-130	F
Methylene Chloride	113	ND	114	101	70-130	
m-Xylene & p-Xylene	225	ND	127	56	70-130	F
Naphthalene	113	ND	41.0	36	70-130	F
N-Propylbenzene	113	ND	52.2	46	70-130	F
o-Xylene	113	ND	70.5	63	70-130	F
4-Isopropyltoluene	113	ND	45.9	41	70-130	F
sec-Butylbenzene	113	ND	45.9	41	70-130	F
Styrene	113	ND	66.2	59	70-130	F
Tert-amyl methyl ether	113	ND	113	100	70-130	
tert-Butylbenzene	113	ND	54.0	48	70-130	F
Tetrachloroethene	113	ND	61.1	54	70-130	F
Tetrahydrofuran	1130	ND	957	85	70-130	
Toluene	113	ND	77.2	69	70-130	F
trans-1,2-Dichloroethene	113	ND	93.8	83	70-130	
trans-1,3-Dichloropropene	113	ND	79.0	70	70-130	
Trichloroethene	113	ND	81.1	72	70-130	
Trichlorofluoromethane	113	ND	69.6	62	70-130	F
Vinyl chloride	113	ND	88.6	79	70-130	

38 out of 77 failed

4-1-10 TC

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07502.D

Lab ID: 360-24343-10 MSD Client ID: OC-SB-451-2.5/4.5-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	117	93.2	80	9	30	70-130	
1,1,1-Trichloroethane	117	102	87	37	30	70-130	F
1,1,2,2-Tetrachloroethane	117	94.5	81	15	30	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	117	65.6	56	7	30	70-130	F
1,1,2-Trichloroethane	117	101	86	8	30	70-130	
1,1-Dichloroethane	117	112	96	7	30	70-130	
1,1-Dichloroethene	117	98.8	85	7	30	70-130	
1,1-Dichloropropene	117	88.4	76	10	30	70-130	
1,2,3-Trichlorobenzene	117	22.8	20	29	30	70-130	F
1,2,3-Trichloropropane	117	121	103	31	30	70-130	F
1,2,4-Trichlorobenzene	117	22.3	19	26	30	70-130	F
1,2,4-Trimethylbenzene	117	53.4	46	2	30	70-130	F
1,2-Dibromo-3-Chloropropane	117	83.1	71	14	30	70-130	
Ethylene Dibromide	117	99.8	85	10	30	70-130	
1,2-Dichlorobenzene	117	46.5	40	0	30	70-130	F
1,2-Dichloroethane	117	108	92	5	30	70-130	
Acetone	1170	1120	96	17	30	70-130	
1,2-Dichloropropane	117	111	95	8	30	70-130	
1,3,5-Trimethylbenzene	117	54.6	47	2	30	70-130	F
1,3-Dichlorobenzene	117	46.0	39	1	30	70-130	F
1,3-Dichloropropane	117	102	88	8	30	70-130	
1,4-Dichlorobenzene	117	45.1	39	0	30	70-130	F
1,4-Dioxane	1170	1650	142	1	30	70-130	F
2,2-Dichloropropane	117	56.3	48	4	30	70-130	F
2,4,4-Trimethyl-1-pentene	117	44.3	38	10	30	70-130	F
2,4,4-Trimethyl-2-pentene	117	48.5	42	7	30	70-130	F
2-Chlorotoluene	117	55.8	48	4	30	70-130	F
2-Hexanone	1170	912	78	13	30	70-130	
4-Chlorotoluene	117	54.4	47	5	30	70-130	F
Benzene	117	105	90	7	30	70-130	
Bromobenzene	117	65.4	56	6	30	70-130	F
Chlorobromomethane	117	114	98	8	30	70-130	
Dichlorobromomethane	117	104	89	8	30	70-130	
Bromoform	117	95.7	82	14	30	70-130	
Bromomethane	117	97.2	83	2	30	70-130	
n-Butylbenzene	117	29.2	25	18	30	70-130	F
Carbon disulfide	117	92.7	79	8	30	70-130	
Carbon tetrachloride	117	85.6	73	11	30	70-130	
Chlorobenzene	117	73.7	63	6	30	70-130	F
Chloroethane	117	95.7	82	0	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07502.D

Lab ID: 360-24343-10 MSD Client ID: OC-SB-451-2.5/4.5-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	117	114	97	8	30	70-130	
Chloromethane	117	90.0	77	1	30	70-130	
cis-1,2-Dichloroethene	117	109	93	6	30	70-130	
cis-1,3-Dichloropropene	117	86.6	74	5	30	70-130	
Cyclohexane	117	73.1	63	10	30	70-130	F
Chlorodibromomethane	117	92.6	79	9	30	70-130	
Dibromomethane	117	108	92	8	30	70-130	
Dichlorodifluoromethane	117	38.1	33	6	30	70-130	F
Ethyl ether	117	118	101	9	30	70-130	
Isopropyl ether	117	123	105	8	30	70-130	
Tert-butyl ethyl ether	117	126	108	10	30	70-130	
Ethylbenzene	117	72.5	62	11	30	70-130	F
Hexachlorobutadiene	117	4.61	4	125	30	70-130	F
Isopropylbenzene	117	64.9	56	8	30	70-130	F
Methyl acetate	1170	3170	272	2	30	70-130	F
2-Butanone (MEK)	1170	1460	125	26	30	70-130	
4-Methyl-2-pentanone (MIBK)	1170	1030	88	10	30	70-130	
Methyl tert-butyl ether	117	123	106	11	30	70-130	
Methylcyclohexane	117	55.2	47	3	30	70-130	F
Methylene Chloride	117	125	107	9	30	70-130	
m-Xylene & p-Xylene	234	142	61	11	30	70-130	F
Naphthalene	117	34.4	29	17	30	70-130	F
N-Propylbenzene	117	53.9	46	3	30	70-130	F
o-Xylene	117	78.1	67	10	30	70-130	F
4-Isopropyltoluene	117	43.0	37	7	30	70-130	F
sec-Butylbenzene	117	41.6	36	10	30	70-130	F
Styrene	117	69.3	59	5	30	70-130	F
Tert-amyl methyl ether	117	127	109	11	30	70-130	
tert-Butylbenzene	117	53.2	46	2	30	70-130	F
Tetrachloroethene	117	68.5	59	11	30	70-130	F
Tetrahydrofuran	1170	1020	87	6	30	70-130	
Toluene	117	85.6	73	10	30	70-130	
trans-1,2-Dichloroethene	117	99.3	85	6	30	70-130	
trans-1,3-Dichloropropene	117	83.1	71	5	30	70-130	
Trichloroethene	117	86.3	74	6	30	70-130	
Trichlorofluoromethane	117	71.4	61	3	30	70-130	F
Vinyl chloride	117	92.0	79	4	30	70-130	

* Reject in Sample & FD

36 of 77 failed

TC 4-1-10

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07503.D

Lab ID: 360-24343-17 MS Client ID: OC-SB-455-6.0/8.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	139	ND	81.2	59	70-130	F
1,1,1-Trichloroethane	139	ND	95.7	69	70-130	F
1,1,2,2-Tetrachloroethane	139	ND	78.2	56	70-130	F
1,1,2-Trichloro-1,2,2-trifluoroethane	139	ND	74.1	53	70-130	F
1,1,2-Trichloroethane	139	ND	82.9	60	70-130	F
1,1-Dichloroethane	139	ND	106	77	70-130	
1,1-Dichloroethene	139	ND	87.7	63	70-130	F
1,1-Dichloropropene	139	ND	68.0	49	70-130	F
1,2,3-Trichlorobenzene	139	ND	16.4	12	70-130	F
1,2,3-Trichloropropane	139	ND	92.3	67	70-130	F
1,2,4-Trichlorobenzene	139	ND	15.4	11	70-130	F
1,2,4-Trimethylbenzene	139	ND	41.2	30	70-130	F
1,2-Dibromo-3-Chloropropane	139	ND	59.2	43	70-130	F
Ethylene Dibromide	139	ND	70.6	51	70-130	F
1,2-Dichlorobenzene	139	ND	28.9	21	70-130	F
1,2-Dichloroethane	139	ND	91.1	66	70-130	F
Acetone	1390	78 J	3430	242	70-130	F
1,2-Dichloropropane	139	ND	95.9	69	70-130	F
1,3,5-Trimethylbenzene	139	ND	46.3	33	70-130	F
1,3-Dichlorobenzene	139	ND	27.1	20	70-130	F
1,3-Dichloropropane	139	ND	79.3	57	70-130	F
1,4-Dichlorobenzene	139	ND	26.6	19	70-130	F
1,4-Dioxane	1390	ND	1700	123	70-130	
2,2-Dichloropropane	139	ND	61.5	44	70-130	F
2,4,4-Trimethyl-1-pentene	139	ND	60.0	43	70-130	F
2,4,4-Trimethyl-2-pentene	139	ND	62.7	45	70-130	F
2-Chlorotoluene	139	ND	39.9	29	70-130	F
2-Hexanone	1390	ND	771	56	70-130	F
4-Chlorotoluene	139	ND	32.8	24	70-130	F
Benzene	139	ND	83.7	60	70-130	F
Bromobenzene	139	ND	39.1	28	70-130	F
Chlorobromomethane	139	ND	100	72	70-130	
Dichlorobromomethane	139	ND	84.7	61	70-130	F
Bromoform	139	ND	68.7	50	70-130	F
Bromomethane	139	ND	99.4	72	70-130	
n-Butylbenzene	139	ND	26.3	19	70-130	F
Carbon disulfide	139	ND	69.8	50	70-130	F
Carbon tetrachloride	139	ND	84.6	61	70-130	F
Chlorobenzene	139	ND	45.7	33	70-130	F
Chloroethane	139	ND	103	75	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-1-10 TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07503.D

Lab ID: 360-24343-17 MS Client ID: OC-SB-455-6.0/8.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloroform	139	ND	97.9	71	70-130	
Chloromethane	139	ND	104	75	70-130	
cis-1,2-Dichloroethene	139	ND	83.5	60	70-130	F
cis-1,3-Dichloropropene	139	ND	58.5	42	70-130	F
Cyclohexane	139	ND	84.6	61	70-130	F
Chlorodibromomethane	139	ND	71.7	52	70-130	F
Dibromomethane	139	ND	85.0	61	70-130	F
Dichlorodifluoromethane	139	ND	44.7	32	70-130	F
Ethyl ether	139	ND	127	92	70-130	
Isopropyl ether	139	ND	130	94	70-130	
Tert-butyl ethyl ether	139	ND	139	100	70-130	
Ethylbenzene	139	ND	55.7	40	70-130	F
Hexachlorobutadiene	139	ND	11.3	8	70-130	F
Isopropylbenzene	139	ND	57.7	42	70-130	F
Methyl acetate	1390	ND	2780	200	70-130	F
2-Butanone (MEK)	1390	ND	3280	237	70-130	F
4-Methyl-2-pentanone (MIBK)	1390	ND	1010	73	70-130	
Methyl tert-butyl ether	139	ND	137	99	70-130	
Methylcyclohexane	139	ND	69.2	50	70-130	F
Methylene Chloride	139	ND	120	86	70-130	
m-Xylene & p-Xylene	277	ND	104	38	70-130	F
Naphthalene	139	ND	17.8 J	13	70-130	F
N-Propylbenzene	139	ND	43.6	31	70-130	F
o-Xylene	139	ND	58.7	42	70-130	F
4-Isopropyltoluene	139	ND	40.3	29	70-130	F
sec-Butylbenzene	139	ND	41.1	30	70-130	F
Styrene	139	ND	32.7	24	70-130	F
Tert-amyl methyl ether	139	ND	133	96	70-130	
tert-Butylbenzene	139	ND	54.2	39	70-130	F
Tetrachloroethene	139	ND	54.0	39	70-130	F
Tetrahydrofuran	1390	ND	1190	86	70-130	
Toluene	139	ND	62.1	45	70-130	F
trans-1,2-Dichloroethene	139	ND	75.2	54	70-130	F
trans-1,3-Dichloropropene	139	ND	53.3	38	70-130	F
Trichloroethene	139	ND	62.2	45	70-130	F
Trichlorofluoromethane	139	ND	77.1	56	70-130	F
Vinyl chloride	139	ND	93.6	67	70-130	F

59 of 77 out low

4/1/10 TC

Reject < 10%

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07504.D

Lab ID: 360-24343-17 MSD Client ID: OC-SB-455-6.0/8.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	113	68.9	61	16	30	70-130	F
1,1,1-Trichloroethane	113	65.0	58	38	30	70-130	F
1,1,2,2-Tetrachloroethane	113	76.3	68	2	30	70-130	F
1,1,2-Trichloro-1,2,2-trifluoroethane	113	46.4	41	46	30	70-130	F
1,1,2-Trichloroethane	113	81.1	72	2	30	70-130	
1,1-Dichloroethane	113	80.4	71	28	30	70-130	
1,1-Dichloroethene	113	66.1	59	28	30	70-130	F
1,1-Dichloropropene	113	61.6	55	10	30	70-130	F
1,2,3-Trichlorobenzene	113	20.7	18	24	30	70-130	F
1,2,3-Trichloropropane	113	81.9	72	12	30	70-130	
1,2,4-Trichlorobenzene	113	20.8	18	30	30	70-130	F
1,2,4-Trimethylbenzene	113	40.6	36	1	30	70-130	F
1,2-Dibromo-3-Chloropropane	113	67.2	59	13	30	70-130	F
Ethylene Dibromide	113	83.6	74	17	30	70-130	
1,2-Dichlorobenzene	113	37.4	33	26	30	70-130	F
1,2-Dichloroethane	113	86.4	76	5	30	70-130	
Acetone	1130	1820	154	61	30	70-130	F
1,2-Dichloropropane	113	82.2	73	15	30	70-130	
1,3,5-Trimethylbenzene	113	40.5	36	13	30	70-130	F
1,3-Dichlorobenzene	113	37.3	33	32	30	70-130	F
1,3-Dichloropropane	113	84.1	74	6	30	70-130	
1,4-Dichlorobenzene	113	38.1	34	35	30	70-130	F
1,4-Dioxane	1130	1580	140	7	30	70-130	F
2,2-Dichloropropane	113	39.4	35	44	30	70-130	F
2,4,4-Trimethyl-1-pentene	113	32.5	29	59	30	70-130	F
2,4,4-Trimethyl-2-pentene	113	34.9	31	57	30	70-130	F
2-Chlorotoluene	113	41.8	37	5	30	70-130	F
2-Hexanone	1130	757	67	2	30	70-130	F
4-Chlorotoluene	113	42.7	38	26	30	70-130	F
Benzene	113	75.1	66	11	30	70-130	F
Bromobenzene	113	51.7	46	28	30	70-130	F
Chlorobromomethane	113	89.5	79	11	30	70-130	
Dichlorobromomethane	113	78.3	69	8	30	70-130	F
Bromoform	113	74.6	66	8	30	70-130	F
Bromomethane	113	73.1	65	30	30	70-130	F
n-Butylbenzene	113	22.0	19	18	30	70-130	F
Carbon disulfide	113	60.0	53	15	30	70-130	F
Carbon tetrachloride	113	56.7	50	39	30	70-130	F
Chlorobenzene	113	58.1	51	24	30	70-130	F
Chloroethane	113	70.1	62	39	30	70-130	F

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Matrix: Solid Level: Low Lab File ID: V07504.D

Lab ID: 360-24343-17 MSD Client ID: OC-SB-455-6.0/8.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	113	80.2	71	20	30	70-130	
Chloromethane	113	65.5	58	45	30	70-130	F
cis-1,2-Dichloroethene	113	81.0	72	3	30	70-130	
cis-1,3-Dichloropropene	113	67.7	60	15	30	70-130	F
Cyclohexane	113	50.7	45	50	30	70-130	F
Chlorodibromomethane	113	72.8	64	2	30	70-130	F
Dibromomethane	113	87.6	77	3	30	70-130	
Dichlorodifluoromethane	113	27.1	24	49	30	70-130	F
Ethyl ether	113	96.6	85	27	30	70-130	
Isopropyl ether	113	94.3	83	32	30	70-130	F
Tert-butyl ethyl ether	113	100	89	33	30	70-130	F
Ethylbenzene	113	52.8	47	6	30	70-130	F
Hexachlorobutadiene	113	5.67	5	66	30	70-130	F
Isopropylbenzene	113	45.3	40	24	30	70-130	F
Methyl acetate	1130	3760	333	30	30	70-130	F
2-Butanone (MEK)	1130	1880	166	55	30	70-130	F
4-Methyl-2-pentanone (MIBK)	1130	889	79	13	30	70-130	
Methyl tert-butyl ether	113	100	89	31	30	70-130	F
Methylcyclohexane	113	38.5	34	57	30	70-130	F
Methylene Chloride	113	95.2	84	23	30	70-130	
m-Xylene & p-Xylene	226	103	46	1	30	70-130	F
Naphthalene	113	33.2	29	60	30	70-130	F
N-Propylbenzene	113	38.9	34	11	30	70-130	F
o-Xylene	113	56.4	50	4	30	70-130	F
4-Isopropyltoluene	113	31.5	28	24	30	70-130	F
sec-Butylbenzene	113	31.2	28	27	30	70-130	F
Styrene	113	51.1	45	44	30	70-130	F
Tert-amyl methyl ether	113	101	89	28	30	70-130	
tert-Butylbenzene	113	41.4	37	27	30	70-130	F
Tetrachloroethene	113	46.9	42	14	30	70-130	F
Tetrahydrofuran	1130	952	84	22	30	70-130	
Toluene	113	62.6	55	1	30	70-130	F
trans-1,2-Dichloroethene	113	73.1	65	3	30	70-130	F
trans-1,3-Dichloropropene	113	69.6	62	26	30	70-130	F
Trichloroethene	113	62.4	55	0	30	70-130	F
Trichlorofluoromethane	113	48.9	43	45	30	70-130	F
Vinyl chloride	113	61.0	54	42	30	70-130	F

57 of 77 low Recoveries

4-1-10
TC

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: Lab Sample ID: MB 360-48473/3-A

Matrix: Solid Lab File ID: V44673.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/02/2009 03:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48475 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

TC
4-1-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: Lab Sample ID: MB 360-48473/3-A

Matrix: Solid Lab File ID: V44673.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/02/2009 03:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48475 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

TC 4-1-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: | Lab Sample ID: MB 360-48473/3-A

Matrix: Solid | Lab File ID: V44673.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/02/2009 03:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48475 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	101	70-130	
1868-53-7	Dibromofluoromethane	104	70-130	
2037-26-5	Toluene-d8 (Surr)	95	70-130	

TC 4-2-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield | Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: | Lab Sample ID: MB 360-48473/3-A

Matrix: Solid | Lab File ID: V44673.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/02/2009 03:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48475 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

TC
4-2-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: Lab Sample ID: MB 360-48640/3-A

Matrix: Solid Lab File ID: V07485.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48642 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

TC 4-2-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: Lab Sample ID: MB 360-48640/3-A

Matrix: Solid Lab File ID: V07485.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48642 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

TC 4-2-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: | Lab Sample ID: MB 360-48640/3-A

Matrix: Solid | Lab File ID: V07485.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48642 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	102	70-130	
1868-53-7	Dibromofluoromethane	104	70-130	
2037-26-5	Toluene-d8 (Surr)	99	70-130	

TC 4-2-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield | Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: | Lab Sample ID: MB 360-48640/3-A

Matrix: Solid | Lab File ID: V07485.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48642 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 9.17

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	3.60	9.17	T J

TC 4-2-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: Lab Sample ID: MB 360-48710/3-A

Matrix: Solid Lab File ID: V44802.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48711 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

TC 4-2-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	1.16	J	25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

x5 = 5.5 mg/kg

No hits
No Quals

TC 4-2-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	103	70-130	
1868-53-7	Dibromofluoromethane	99	70-130	
2037-26-5	Toluene-d8 (Surr)	101	70-130	

TC
4-2-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield | Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

TC
4-2-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: | Lab Sample ID: MB 360-48765/3-A

Matrix: Solid | Lab File ID: V44843.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/09/2009 19:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48767 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: | Lab Sample ID: MB 360-48765/3-A

Matrix: Solid | Lab File ID: V44843.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/09/2009 19:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48767 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	5.03	J	10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

TC 4-2-10 09/29/2009

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: Lab Sample ID: MB 360-48765/3-A

Matrix: Solid Lab File ID: V44843.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/09/2009 19:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48767 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	103	70-130	
1868-53-7	Dibromofluoromethane	101	70-130	
2037-26-5	Toluene-d8 (Surr)	99	70-130	

TC 4-2-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Client Sample ID: Lab Sample ID: MB 360-48765/3-A

Matrix: Solid Lab File ID: V44843.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/09/2009 19:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48767 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 2.16

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	12.79	2.16	T J

4-2-10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48475/2 Calibration Date: 09/02/2009 01:00

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44667.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3190		16.1	20.0	-19.3	30.0
Chloromethane	Lin		0.5952	0.1000	20.2	20.0	1.1	30.0
Vinyl chloride	Lin		0.4177		18.9	20.0	-5.7	20.0
Bromomethane	Lin		0.2859		19.6	20.0	-2.1	30.0
Chloroethane	Lin		0.2445		20.3	20.0	1.7	30.0
Trichlorofluoromethane	Lin		0.3619		15.9	20.0	-20.3	30.0
Ethyl ether	Ave	0.1998	0.1883		18.8	20.0	-5.8	30.0
1,1-Dichloroethene	Lin		0.2971		18.5	20.0	-7.6	20.0
Carbon disulfide	Ave	1.172	1.081		18.4	20.0	-7.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		0.1639		15.7	20.0	-21.3	30.0
Acrolein	Lin1		0.5226		1040	1000	3.8	30.0
Methylene Chloride	Lin		0.3971		23.8	20.0	19.2	30.0
Acetone	Qua		0.0412		152	200	-24.0	30.0
trans-1,2-Dichloroethene	Ave	0.5280	0.5025		19.0	20.0	-4.8	30.0
Methyl acetate	Lin		0.1211		174	200	-13.0	30.0
Methyl tert-butyl ether	Lin		0.5425		19.8	20.0	-0.9	30.0
2-Methyl-2-propanol	Lin1		0.2367		186	200	-7.0	30.0
Isopropyl ether	Ave	1.438	1.410		19.6	20.0	-1.9	30.0
1,1-Dichloroethane	Lin		0.5806	0.1000	21.2	20.0	5.9	30.0
Acrylonitrile	Lin2		0.0511		19.9	20.0	-0.4	30.0
Tert-butyl ethyl ether	Lin		0.8861		21.0	20.0	5.0	30.0
Vinyl acetate	Lin1		0.3636		233	200	16.7	30.0
cis-1,2-Dichloroethene	Ave	0.4581	0.4561		19.9	20.0	-0.4	30.0
2,2-Dichloropropane	Qua		0.3763		18.0	20.0	-10.2	30.0
Cyclohexane	Ave	0.6383	0.5950		18.6	20.0	-6.8	30.0
Chlorobromomethane	Ave	0.1791	0.1524		17.0	20.0	-14.9	30.0
Chloroform	Lin		0.5076		19.7	20.0	-1.5	20.0
Carbon tetrachloride	Ave	0.3593	0.3179		17.7	20.0	-11.5	30.0
Tetrahydrofuran	Lin1		0.0497		205	200	2.6	30.0
1,1,1-Trichloroethane	Ave	0.4934	0.4388		17.8	20.0	-11.1	30.0
2-Butanone (MEK)	Ave	0.0653	0.0574		176	200	-12.2	30.0
1,1-Dichloropropene	Ave	0.3849	0.3606		18.7	20.0	-6.3	30.0
Benzene	Ave	1.175	1.102		18.7	20.0	-6.3	30.0
Tert-amyl methyl ether	Lin		0.6251		20.2	20.0	0.9	30.0
1,2-Dichloroethane	Ave	0.2398	0.2194		18.3	20.0	-8.5	30.0
2,4,4-Trimethyl-1-pentene	Lin1		0.2169		19.3	20.0	-3.5	30.0
Methylcyclohexane	Ave	0.5730	0.5175		18.1	20.0	-9.7	30.0
Trichloroethene	Ave	0.2943	0.2680		18.2	20.0	-8.9	30.0
2,4,4-Trimethyl-2-pentene	Lin1		0.1655		17.1	20.0	-14.6	30.0
Dibromomethane	Ave	0.1115	0.0987		17.7	20.0	-11.5	30.0

TC 4/5/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48475/2 Calibration Date: 09/02/2009 01:00

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44667.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2116		23.3	20.0	16.7	20.0
Dichlorobromomethane	Ave	0.2830	0.2540		17.9	20.0	-10.3	30.0
Methyl methacrylate	Ave	0.0593	0.0511		17.2	20.0	-13.9	30.0
1,4-Dioxane	Ave	0.0211	0.0199		189	200	-5.6	30.0
2-Chloroethyl vinyl ether	Lin1		0.0386		176	200	-12.1	30.0
cis-1,3-Dichloropropene	Ave	0.2966	0.2508		16.9	20.0	-15.4	30.0
Toluene	Ave	0.6775	0.5919		17.5	20.0	-12.6	20.0
4-Methyl-2-pentanone (MIBK)	Lin		0.1332		199	200	-0.7	30.0
Tetrachloroethene	Ave	0.2090	0.1688		16.1	20.0	-19.3	30.0
trans-1,3-Dichloropropene	Ave	0.2123	0.1669		15.7	20.0	-21.4	30.0
1,1,2-Trichloroethane	Ave	0.1089	0.0895		16.4	20.0	-17.8	30.0
Chlorodibromomethane	Ave	0.1624	0.1278		15.7	20.0	-21.3	30.0
1,3-Dichloropropane	Ave	0.2134	0.1745		16.3	20.0	-18.3	30.0
Ethylene Dibromide	Ave	0.1323	0.0994		15.0	20.0	-24.9	30.0
2-Hexanone	Ave	0.0865	0.0661		153	200	-23.6	30.0
Chlorobenzene	Ave	1.083	1.034	0.3000	19.1	20.0	-4.5	30.0
Ethylbenzene	Lin		2.006		21.9	20.0	9.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3812	0.4018		21.1	20.0	5.4	30.0
m-Xylene & p-Xylene	Lin1		1.530		43.7	40.0	9.3	30.0
o-Xylene	Ave	1.735	1.827		21.1	20.0	5.3	30.0
Styrene	Ave	1.258	1.196		19.0	20.0	-5.0	30.0
Bromoform	Ave	0.2952	0.2512	0.1000	17.0	20.0	-14.9	20.0
Isopropylbenzene	Ave	2.247	2.405		21.4	20.0	7.1	30.0
Bromobenzene	Ave	0.7726	0.7749		20.1	20.0	0.3	30.0
N-Propylbenzene	Ave	2.529	2.638		20.9	20.0	4.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.5115	0.3000	19.8	20.0	-0.8	30.0
2-Chlorotoluene	Ave	1.717	1.771		20.6	20.0	3.2	30.0
1,3,5-Trimethylbenzene	Ave	1.879	1.977		21.0	20.0	5.2	30.0
1,2,3-Trichloropropane	Ave	0.0684	0.0629		18.4	20.0	-8.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0726	0.0687		18.9	20.0	-5.3	30.0
4-Chlorotoluene	Ave	1.492	1.479		19.8	20.0	-0.9	30.0
tert-Butylbenzene	Ave	1.551	1.656		21.4	20.0	6.8	30.0
1,2,4-Trimethylbenzene	Ave	1.951	1.991		20.4	20.0	2.0	30.0
sec-Butylbenzene	Ave	2.541	2.669		21.0	20.0	5.0	30.0
4-Isopropyltoluene	Ave	2.050	2.131		20.8	20.0	4.0	30.0
1,3-Dichlorobenzene	Ave	0.9813	0.9257		18.9	20.0	-5.7	30.0
1,4-Dichlorobenzene	Ave	1.821	1.676		18.4	20.0	-8.0	30.0
n-Butylbenzene	Ave	3.711	3.862		20.8	20.0	4.1	30.0
1,2-Dichlorobenzene	Ave	1.574	1.499		19.0	20.0	-4.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0825	0.0748		18.1	20.0	-9.3	30.0
Hexachlorobutadiene	Ave	0.5157	0.5024		19.5	20.0	-2.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48475/2 Calibration Date: 09/02/2009 01:00

Instrument ID: HP #1 GC/MS Calib Start Date: 08/24/2009 17:47

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 08/24/2009 20:37

Lab File ID: V44667.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.075	1.031		19.2	20.0	-4.1	30.0
Naphthalene	Ave	1.428	1.332		18.7	20.0	-6.7	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7768		19.2	20.0	-3.8	30.0
Dibromofluoromethane	Ave	0.2595	0.2514		19.4	20.0	-3.1	30.0
Toluene-d8 (Surr)	Ave	0.8925	0.8398		18.8	20.0	-5.9	30.0
4-Bromofluorobenzene	Ave	0.5061	0.5125		20.3	20.0	1.3	30.0

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TK

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48711/2 Calibration Date: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44798.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4267		17.7	20.0	-11.6	30.0
Chloromethane	Ave	0.9034	0.8147	0.1000	19.4	20.0	-9.8	30.0
Vinyl chloride	Ave	0.6300	0.5535		18.7	20.0	-12.2	20.0
Bromomethane	Ave	0.3127	0.2870		19.2	20.0	-8.2	30.0
Chloroethane	Lin2		0.3212		19.8	20.0	-0.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4560		17.6	20.0	-12.0	30.0
Ethyl ether	Ave	0.2603	0.2528		20.8	20.0	-2.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.2911		18.9	20.0	-9.0	20.0
Carbon disulfide	Ave	1.395	1.266		18.2	20.0	-9.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1663		17.9	20.0	-10.5	30.0
Acrolein	Ave	0.7836	0.7714		984	1000	-1.6	30.0
Methylene Chloride	Lin1		0.3608		20.7	20.0	3.4	30.0
Acetone	Lin2		0.0546		209	200	4.5	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6417		18.2	20.0	-9.1	30.0
Methyl acetate	Lin1		0.1507		207	200	3.6	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6704		19.2	20.0	-4.1	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3628		189	200	-5.4	30.0
Isopropyl ether	Ave	1.997	1.926		19.4	20.0	-3.6	30.0
1,1-Dichloroethane	Ave	0.7919	0.7422	0.1000	20.0	20.0	-6.3	30.0
Acrylonitrile	Lin1		0.0659		20.3	20.0	1.4	30.0
Tert-butyl ethyl ether	Ave	1.194	1.175		19.7	20.0	-1.5	30.0
Vinyl acetate	Ave	0.5745	0.5927		206	200	3.2	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5877		19.1	20.0	-4.4	30.0
2,2-Dichloropropane	Ave	0.5371	0.4569		19.4	20.0	-14.9	30.0
Chlorobromomethane	Ave	0.1386	0.1366		19.7	20.0	-1.4	30.0
Cyclohexane	Ave	0.8898	0.7961		18.0	20.0	-10.5	30.0
Chloroform	Ave	0.6243	0.5772		19.8	20.0	-7.5	20.0
Carbon tetrachloride	Ave	0.3645	0.3368		18.4	20.0	-7.6	30.0
Tetrahydrofuran	Ave	0.0762	0.0745		213	200	-2.2	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4633		17.7	20.0	-10.4	30.0
2-Butanone (MEK)	Ave	0.0960	0.0947		210	200	-1.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4586		18.4	20.0	-8.1	30.0
Benzene	Ave	1.352	1.315		19.5	20.0	-2.7	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7620		20.0	20.0	0.0	30.0
1,2-Dichloroethane	Ave	0.3253	0.3207		19.7	20.0	-1.4	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3173		18.5	20.0	-16.6	30.0
Methylcyclohexane	Ave	0.6300	0.5754		18.3	20.0	-8.7	30.0
Trichloroethene	Ave	0.3155	0.2950		19.4	20.0	-6.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1671		17.9	20.0	-10.7	30.0
Dibromomethane	Ave	0.1188	0.1209		20.3	20.0	1.8	30.0

TC 4/5/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48711/2 Calibration Date: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44798.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3026		21.5	20.0	-4.9	20.0
Dichlorobromomethane	Ave	0.3427	0.3416		19.8	20.0	-0.3	30.0
Methyl methacrylate	Ave	0.0864	0.0927		21.0	20.0	7.3	30.0
1,4-Dioxane	Qua		0.0204		190	200	-5.0	30.0
2-Chloroethyl vinyl ether	Lin		0.0414		222	200	11.0	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.4142		20.8	20.0	4.2	30.0
Toluene	Ave	0.7062	0.6889		20.1	20.0	-2.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.2131		209	200	4.0	30.0
Tetrachloroethene	Ave	0.1859	0.1874		20.1	20.0	0.8	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.3076		21.2	20.0	5.5	30.0
1,1,2-Trichloroethane	Lin1		0.1310		20.9	20.0	4.7	30.0
Chlorodibromomethane	Ave	0.1504	0.1549		20.6	20.0	3.0	30.0
1,3-Dichloropropane	Ave	0.2828	0.2918		20.6	20.0	3.2	30.0
Ethylene Dibromide	Ave	0.1260	0.1329		21.1	20.0	5.5	30.0
2-Hexanone	Ave	0.1294	0.1350		212	200	4.3	30.0
Chlorobenzene	Ave	1.096	1.063	0.3000	19.5	20.0	-3.0	30.0
Ethylbenzene	Ave	2.279	2.113		19.8	20.0	-7.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3333		20.1	20.0	-4.1	30.0
m-Xylene & p-Xylene	Ave	1.752	1.637		37.4	40.0	-6.6	30.0
o-Xylene	Ave	1.903	1.780		18.8	20.0	-6.5	30.0
Styrene	Ave	1.294	1.244		19.3	20.0	-3.9	30.0
Bromoform	Ave	0.3131	0.3200	0.1000	19.3	20.0	2.2	20.0
Isopropylbenzene	Ave	2.255	2.092		18.6	20.0	-7.2	30.0
Bromobenzene	Ave	1.024	0.9511		18.7	20.0	-7.1	30.0
N-Propylbenzene	Ave	2.901	2.655		18.3	20.0	-8.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6784	0.3000	19.7	20.0	-0.9	30.0
2-Chlorotoluene	Ave	1.927	1.771		18.5	20.0	-8.1	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.715		18.5	20.0	-7.4	30.0
1,2,3-Trichloropropane	Lin2		0.0630		20.3	20.0	1.4	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1056		19.9	20.0	-0.6	30.0
4-Chlorotoluene	Ave	1.683	1.567		18.5	20.0	-6.9	30.0
tert-Butylbenzene	Ave	1.471	1.371		18.6	20.0	-6.8	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.716		18.2	20.0	-8.4	30.0
sec-Butylbenzene	Ave	2.518	2.298		18.3	20.0	-8.7	30.0
4-Isopropyltoluene	Ave	1.894	1.751		18.4	20.0	-7.6	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7806		18.5	20.0	-7.2	30.0
1,4-Dichlorobenzene	Ave	1.788	1.741		19.5	20.0	-2.6	30.0
n-Butylbenzene	Ave	4.614	4.348		18.8	20.0	-5.8	30.0
1,2-Dichlorobenzene	Ave	1.492	1.464		19.6	20.0	-1.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0775		20.1	20.0	0.7	30.0
Hexachlorobutadiene	Ave	0.5170	0.4963		19.2	20.0	-4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48711/2 Calibration Date: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44798.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9552		19.6	20.0	-2.0	30.0
Naphthalene	Ave	1.288	1.298		20.2	20.0	0.8	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7322		20.3	20.0	1.5	30.0
Dibromofluoromethane	Ave	0.2328	0.2332		20.0	20.0	0.2	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9123		20.5	20.0	2.7	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5523		19.3	20.0	-3.6	30.0

TC 4/6/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48767/2 Calibration Date: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44837.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4534		18.8	20.0	-6.1	30.0
Chloromethane	Ave	0.9034	0.7851	0.1000	18.6	20.0	-13.1	30.0
Vinyl chloride	Ave	0.6300	0.5356		18.1	20.0	-15.0	20.0
Bromomethane	Ave	0.3127	0.2857		19.2	20.0	-8.6	30.0
Chloroethane	Lin2		0.3023		18.6	20.0	-7.1	30.0
Trichlorofluoromethane	Ave	0.5183	0.4732		18.3	20.0	-8.7	30.0
Ethyl ether	Ave	0.2603	0.2240		18.4	20.0	-14.0	30.0
1,1-Dichloroethene	Ave	0.3201	0.2793		18.1	20.0	-12.7	20.0
Carbon disulfide	Ave	1.395	1.077		15.5	20.0	-22.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1631		17.6	20.0	-12.2	30.0
Acrolein	Ave	0.7836	0.6624		845	1000	-15.5	30.0
Methylene Chloride	Lin1		0.3658		21.0	20.0	4.9	30.0
Acetone	Lin2		0.0531		203	200	1.5	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.5911		16.8	20.0	-16.3	30.0
Methyl acetate	Lin1		0.1351		186	200	-7.2	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6190		17.7	20.0	-11.5	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2764		144	200	-27.9	30.0
Isopropyl ether	Ave	1.997	1.745		17.5	20.0	-12.6	30.0
1,1-Dichloroethane	Ave	0.7919	0.6728	0.1000	18.1	20.0	-15.0	30.0
Acrylonitrile	Lin1		0.0640		19.7	20.0	-1.5	30.0
Tert-butyl ethyl ether	Ave	1.194	1.077		18.1	20.0	-9.7	30.0
Vinyl acetate	Ave	0.5745	0.5579		194	200	-2.9	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5333		17.3	20.0	-13.3	30.0
2,2-Dichloropropane	Ave	0.5371	0.4317		18.2	20.0	-19.6	30.0
Cyclohexane	Ave	0.8898	0.7871		17.8	20.0	-11.5	30.0
Chlorobromomethane	Ave	0.1386	0.1279		18.5	20.0	-7.7	30.0
Chloroform	Ave	0.6243	0.5344		18.3	20.0	-14.4	20.0
Carbon tetrachloride	Ave	0.3645	0.3201		17.5	20.0	-12.2	30.0
Tetrahydrofuran	Ave	0.0762	0.0704		202	200	-7.5	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4470		17.1	20.0	-13.6	30.0
2-Butanone (MEK)	Ave	0.0960	0.0883		195	200	-8.0	30.0
1,1-Dichloropropene	Ave	0.4990	0.4343		17.4	20.0	-13.0	30.0
Benzene	Ave	1.352	1.227		18.2	20.0	-9.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7178		18.8	20.0	-5.8	30.0
1,2-Dichloroethane	Ave	0.3253	0.3022		18.6	20.0	-7.1	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3166		18.4	20.0	-16.8	30.0
Methylcyclohexane	Ave	0.6300	0.5726		18.3	20.0	-9.1	30.0
Trichloroethene	Ave	0.3155	0.2813		18.5	20.0	-10.8	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1688		18.0	20.0	-9.9	30.0
Dibromomethane	Ave	0.1188	0.1148		19.2	20.0	-3.3	30.0

Not reported

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48767/2 Calibration Date: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44837.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2825		20.1	20.0	-11.2	20.0
Dichlorobromomethane	Ave	0.3427	0.3197		18.5	20.0	-6.7	30.0
Methyl methacrylate	Ave	0.0864	0.0847		19.2	20.0	-1.9	30.0
1,4-Dioxane	Qua		0.0180		167	200	-16.3	30.0
2-Chloroethyl vinyl ether	Lin		0.0630		329	200	64.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3861		19.4	20.0	-2.9	30.0
Toluene	Ave	0.7062	0.6559		19.1	20.0	-7.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1942		190	200	-5.2	30.0
Tetrachloroethene	Ave	0.1859	0.1834		19.7	20.0	-1.3	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2845		19.6	20.0	-2.4	30.0
1,1,2-Trichloroethane	Lin1		0.1193		19.1	20.0	-4.4	30.0
Chlorodibromomethane	Ave	0.1504	0.1453		19.3	20.0	-3.4	30.0
1,3-Dichloropropane	Ave	0.2828	0.2702		19.1	20.0	-4.5	30.0
Ethylene Dibromide	Ave	0.1260	0.1241		19.7	20.0	-1.5	30.0
2-Hexanone	Ave	0.1294	0.1192		187	200	-7.9	30.0
Chlorobenzene	Ave	1.096	0.9938	0.3000	18.3	20.0	-9.3	30.0
Ethylbenzene	Ave	2.279	1.995		18.7	20.0	-12.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3102		18.7	20.0	-10.7	30.0
m-Xylene & p-Xylene	Ave	1.752	1.542		35.2	40.0	-12.0	30.0
o-Xylene	Ave	1.903	1.665		17.5	20.0	-12.5	30.0
Styrene	Ave	1.294	1.118		17.3	20.0	-13.6	30.0
Bromoform	Ave	0.3131	0.2872	0.1000	17.4	20.0	-8.3	20.0
Isopropylbenzene	Ave	2.255	1.984		17.6	20.0	-12.0	30.0
Bromobenzene	Ave	1.024	0.8478		16.6	20.0	-17.2	30.0
N-Propylbenzene	Ave	2.901	2.469		17.0	20.0	-14.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5898	0.3000	17.1	20.0	-13.9	30.0
2-Chlorotoluene	Ave	1.927	1.612		16.8	20.0	-16.4	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.588		17.2	20.0	-14.2	30.0
1,2,3-Trichloropropane	Lin2		0.0588		18.9	20.0	-5.5	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1004		18.9	20.0	-5.6	30.0
4-Chlorotoluene	Ave	1.683	1.413		16.7	20.0	-16.1	30.0
tert-Butylbenzene	Ave	1.471	1.301		17.7	20.0	-11.5	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.606		17.1	20.0	-14.3	30.0
sec-Butylbenzene	Ave	2.518	2.197		17.5	20.0	-12.7	30.0
4-Isopropyltoluene	Ave	1.894	1.664		17.5	20.0	-12.1	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7186		17.1	20.0	-14.6	30.0
1,4-Dichlorobenzene	Ave	1.788	1.561		17.5	20.0	-12.7	30.0
n-Butylbenzene	Ave	4.614	4.044		17.5	20.0	-12.4	30.0
1,2-Dichlorobenzene	Ave	1.492	1.326		17.8	20.0	-11.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0688		17.9	20.0	-10.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4606		17.8	20.0	-10.9	30.0

Not Reported

TC 4/5/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48767/2 Calibration Date: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44837.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.8755		18.0	20.0	-10.2	30.0
Naphthalene	Ave	1.288	1.186		18.4	20.0	-7.9	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6741		18.7	20.0	-6.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2302		19.8	20.0	-1.1	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9013		20.3	20.0	1.5	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5256		18.3	20.0	-8.3	30.0

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48642/2 Calibration Date: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3549	0.2860		16.1	20.0	-19.4	30.0
Chloromethane	Ave	0.3516	0.3507	0.1000	19.9	20.0	-0.3	30.0
Vinyl chloride	Lin		0.2850		21.1	20.0	5.6	20.0
Bromomethane	Ave	0.2017	0.2089		20.7	20.0	3.6	30.0
Chloroethane	Ave	0.1469	0.1456		19.8	20.0	-0.9	30.0
Trichlorofluoromethane	Ave	0.5103	0.4186		16.4	20.0	-18.0	30.0
Ethyl ether	Ave	0.1302	0.1256		19.3	20.0	-3.6	30.0
1,1-Dichloroethene	Lin		0.3983		19.3	20.0	-3.4	20.0
Carbon disulfide	Ave	0.7933	0.7843		19.8	20.0	-1.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2246	0.1730		15.4	20.0	-23.0	30.0
Acrolein	Ave	0.0337	0.0338		1000	1000	0.1	30.0
Methylene Chloride	Lin1		0.2578		22.0	20.0	10.2	30.0
Acetone	Qua		0.0266		136	200	-31.9*	30.0
trans-1,2-Dichloroethene	Ave	0.4029	0.4109		20.4	20.0	2.0	30.0
Methyl acetate	Ave	0.0693	0.0714		206	200	3.1	30.0
Methyl tert-butyl ether	Ave	0.4796	0.4973		20.7	20.0	3.7	30.0
2-Methyl-2-propanol	Ave	0.0251	0.0191		153	200	-23.7	30.0
Isopropyl ether	Ave	0.7012	0.7528		21.5	20.0	7.4	30.0
1,1-Dichloroethane	Ave	0.4775	0.4831	0.1000	20.2	20.0	1.2	30.0
Acrylonitrile	Ave	0.0301	0.0309		20.5	20.0	2.7	30.0
Tert-butyl ethyl ether	Ave	0.5985	0.6363		21.3	20.0	6.3	30.0
Vinyl acetate	Ave	0.2215	0.2269		205	200	2.5	30.0
cis-1,2-Dichloroethene	Ave	0.3646	0.3729		20.5	20.0	2.3	30.0
2,2-Dichloropropane	Ave	0.3560	0.3203		18.0	20.0	-10.0	30.0
Chlorobromomethane	Ave	0.1334	0.1353		20.3	20.0	1.4	30.0
Cyclohexane	Ave	0.3705	0.3343		18.0	20.0	-9.8	30.0
Chloroform	Lin		0.4858		20.6	20.0	2.8	20.0
Carbon tetrachloride	Ave	0.4677	0.4233		18.1	20.0	-9.5	30.0
Tetrahydrofuran	Ave	0.0320	0.0305		191	200	-4.5	30.0
1,1,1-Trichloroethane	Ave	0.4887	0.4603		18.8	20.0	-5.8	30.0
2-Butanone (MEK)	Ave	0.0420	0.0377		179	200	-10.3	30.0
1,1-Dichloropropene	Ave	0.3247	0.3178		19.6	20.0	-2.1	30.0
Benzene	Ave	0.8655	0.8925		20.6	20.0	3.1	30.0
Tert-amyl methyl ether	Ave	0.4485	0.4767		21.3	20.0	6.3	30.0
1,2-Dichloroethane	Ave	0.2867	0.2717		19.0	20.0	-5.2	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.2112	0.1548		14.7	20.0	-26.7	30.0
Methylcyclohexane	Ave	0.3984	0.3545		17.8	20.0	-11.0	30.0
Trichloroethene	Ave	0.2687	0.2639		19.6	20.0	-1.8	30.0
2,4,4-Trimethyl-2-pentene	Lin2		0.4230		16.4	20.0	-18.2	30.0
Dibromomethane	Ave	0.1028	0.1005		19.5	20.0	-2.3	30.0

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48642/2 Calibration Date: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2063		21.0	20.0	4.9	20.0
Dichlorobromomethane	Ave	0.3128	0.3080		19.7	20.0	-1.5	30.0
Methyl methacrylate	Ave	0.0557	0.0590		21.2	20.0	5.9	30.0
1,4-Dioxane	Qua		0.0006		191	200	-4.7	30.0
2-Chloroethyl vinyl ether	Lin1		0.0381		213	200	6.6	30.0
cis-1,3-Dichloropropene	Ave	0.2887	0.2938		20.4	20.0	1.8	30.0
Toluene	Ave	0.5358	0.5307		19.8	20.0	-0.9	20.0
Tetrachloroethene	Ave	0.2139	0.2049		19.2	20.0	-4.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0961	0.0964		201	200	0.3	30.0
trans-1,3-Dichloropropene	Ave	0.2493	0.2429		19.5	20.0	-2.6	30.0
1,1,2-Trichloroethane	Ave	0.1097	0.1097		20.0	20.0	0.0	30.0
Chlorodibromomethane	Ave	0.2068	0.2032		19.7	20.0	-1.7	30.0
1,3-Dichloropropane	Ave	0.2015	0.2027		20.1	20.0	0.6	30.0
Ethylene Dibromide	Ave	0.1243	0.1251		20.1	20.0	0.7	30.0
2-Hexanone	Ave	0.0677	0.0649		192	200	-4.2	30.0
Chlorobenzene	Ave	0.8153	0.8157	0.3000	20.0	20.0	0.0	30.0
Ethylbenzene	Ave	1.543	1.518		19.7	20.0	-1.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3374		20.4	20.0	2.0	30.0
m-Xylene & p-Xylene	Ave	1.222	1.255		41.1	40.0	2.6	30.0
o-Xylene	Ave	1.203	1.284		21.3	20.0	6.7	30.0
Styrene	Ave	0.8537	0.9114		21.4	20.0	6.8	30.0
Bromoform	Ave	0.3031	0.2945	0.1000	19.4	20.0	-2.8	20.0
Isopropylbenzene	Ave	1.477	1.563		21.2	20.0	5.8	30.0
Bromobenzene	Ave	0.6398	0.6520		20.4	20.0	1.9	30.0
N-Propylbenzene	Ave	1.839	1.843		20.0	20.0	0.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3430	0.3341	0.3000	19.5	20.0	-2.6	30.0
2-Chlorotoluene	Ave	1.244	1.275		20.5	20.0	2.5	30.0
1,3,5-Trimethylbenzene	Ave	1.293	1.334		20.6	20.0	3.1	30.0
1,2,3-Trichloropropane	Lin		0.1500		20.5	20.0	2.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0555	0.0547		19.7	20.0	-1.6	30.0
4-Chlorotoluene	Ave	1.124	1.154		20.5	20.0	2.6	30.0
tert-Butylbenzene	Ave	1.057	1.129		21.4	20.0	6.9	30.0
1,2,4-Trimethylbenzene	Ave	1.270	1.356		21.4	20.0	6.8	30.0
sec-Butylbenzene	Ave	1.577	1.611		20.4	20.0	2.2	30.0
4-Isopropyltoluene	Ave	1.281	1.342		21.0	20.0	4.8	30.0
1,3-Dichlorobenzene	Ave	0.7125	0.7417		20.8	20.0	4.1	30.0
1,4-Dichlorobenzene	Ave	1.274	1.271		19.9	20.0	-0.3	30.0
n-Butylbenzene	Ave	2.283	2.274		19.9	20.0	-0.4	30.0
1,2-Dichlorobenzene	Ave	1.066	1.081		20.3	20.0	1.3	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0579		19.2	20.0	-4.1	30.0
Hexachlorobutadiene	Qua		0.5219		23.8	20.0	18.8	30.0

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24343-1

SDG No.: OCRI-08

Lab Sample ID: CCVIS 360-48642/2 Calibration Date: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.7037	0.7249		20.6	20.0	3.0	30.0
Naphthalene	Ave	0.8853	0.9618		21.7	20.0	8.6	30.0
1,2,3-Trichlorobenzene	Ave	0.5445	0.5640		20.7	20.0	3.6	30.0
Dibromofluoromethane	Ave	0.2974	0.2931		19.7	20.0	-1.4	30.0
Toluene-d8 (Surr)	Ave	1.029	1.024		19.9	20.0	-0.5	30.0
4-Bromofluorobenzene	Ave	0.5350	0.5322		19.9	20.0	-0.5	30.0

TC 4-5-10

Cover Page

OCRI-09

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: OCRI-09 360-24365-1

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES NO NA	
Data completeness ☑ ☐ ☐ All data summaries, QC forms and raw data available from hard copy or electronic data package ☑ ☐ ☐ Data summaries match EDD	Contact lab if missing data. Lab to respond with 24 hours.
Holding Times and Preservation ☑ ☐ ☐ Hold times met (14 days with preservation) ☑ ☐ ☐ Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune) ☑ ☐ ☐ Tune available for each 12-hour period samples were analyzed ☑ ☐ ☐ Appropriate number of significant figures reported (at least 2) ☑ ☐ ☐ Mass/Charge list (m/z) criteria met	
* **Initial Calibration** ☑ ☐ ☐ %RSD less than or equal to 30% ☐ ☑ ☐ RRF greater than or equal to 0.05	Ical 9/8/09 HP#1 9/4/09 HP#3
* **Continuing Calibration** ☐ ☑ ☐ %D less than or equal to 25% ☑ ☐ ☐ RRF greater than or equal to 0.05.	→ see attached
* **Blank Contamination** ☑ ☐ ☐ Method blank contamination ☐ ☑ ☐ Trip blank contamination ☐ ☑ ☐ Equipment/Rinseate blank contamination	Evaluate all blanks for contamination. Highest contaminant level used for action level. see attached Form I : Form I

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes	No	N/A	TIER I / II / III (circle one)	
Surrogate Recoveries				
☑	☐	☐	Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples				
☐	☑	☐	MS/MSD percent recovery criteria met (water and soil: 70%-130%)	→ See attached
☑	☐	☐	MS/MSD RPD criteria met (water and soil <30%)	
☐	☑	☐	LCS percent recovery criteria (water and soil: 70%-130%)	→ See attached Form V : Form 3
Field Duplicates				
☑	☐	☐	RPD criteria (water <30%, soils <50%) met	Sample : FD were ND
Internal Standard				
☑	☐	☐	Area counts within -50 to +100 percent of calib. std.	
☑	☐	☐	Retention Time within 30 seconds of calib. std.	
Target Compounds				
☑	☐	☐	Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs)				
☑	☐	☐	TCL compounds reported as TICs	

Validator's Signature: Trip Lee

Date: 4-5-10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-442-0.0/1.0-XXX**

Lab Sample ID: 360-24365-1
Client Matrix: Solid % Moisture: 6.4

Date Sampled: 08/31/2009 1200
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44884.D
Dilution:	1.0			Initial Weight/Volume:	5.14 g
Date Analyzed:	09/10/2009 1939			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

4-6-10 TC

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-442-0.0/1.0-XXX**

Lab Sample ID: 360-24365-1
Client Matrix: Solid % Moisture: 6.4

Date Sampled: 08/31/2009 1200
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815	Lab File ID: V44884.D
Dilution:	1.0		Initial Weight/Volume: 5.14 g
Date Analyzed:	09/10/2009 1939		Final Weight/Volume: 5 g
Date Prepared:	09/10/2009 1440		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND J		17	52
2-Butanone (MEK)		ND		7.0	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	101		70 - 130

4-6-10 TC

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-442-0.0/1.0-XXX**

Lab Sample ID: 360-24365-1
Client Matrix: Solid % Moisture: 6.4

Date Sampled: 08/31/2009 1200
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44884.D
Dilution:	1.0			Initial Weight/Volume:	5.14 g
Date Analyzed:	09/10/2009 1939			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	9.13	1.3	T J

4-6-10 TC

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-442-8.0/10-DUP**

Lab Sample ID: 360-24365-3
Client Matrix: Solid

% Moisture: 12.1

Date Sampled: 08/31/2009 1210
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07489.D
Dilution:	1.0			Initial Weight/Volume:	6.90 g
Date Analyzed:	09/05/2009 0355			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.82	2.1
1,1,1-Trichloroethane		ND		0.82	2.1
1,1,2,2-Tetrachloroethane		ND		0.82	2.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.82	10
1,1,2-Trichloroethane		ND		0.82	2.1
1,1-Dichloroethane		ND		0.82	2.1
1,1-Dichloroethene		ND		0.82	2.1
1,1-Dichloropropene		ND		0.82	2.1
1,2,3-Trichlorobenzene		ND		0.82	2.1
1,2,3-Trichloropropane		ND		1.2	2.1
1,2,4-Trichlorobenzene		ND		0.82	2.1
1,2,4-Trimethylbenzene		ND		0.82	2.1
1,2-Dibromo-3-Chloropropane		ND		1.5	21
Ethylene Dibromide		ND		0.82	2.1
1,2-Dichlorobenzene		ND		0.82	2.1
1,2-Dichloroethane		ND		0.82	2.1
Acetone		ND J	*	15	210
1,2-Dichloropropane		ND		0.82	2.1
1,3,5-Trimethylbenzene		ND		0.82	2.1
1,3-Dichlorobenzene		ND		0.82	2.1
1,3-Dichloropropane		ND		0.82	2.1
1,4-Dichlorobenzene		ND		0.82	2.1
1,4-Dioxane		~~ND~~ J R	*	27	210
2,2-Dichloropropane		ND		0.82	2.1
2,4,4-Trimethyl-1-pentene		ND J		0.82	4.1
2,4,4-Trimethyl-2-pentene		ND		0.82	4.1
2-Chlorotoluene		ND		0.82	2.1
2-Hexanone		ND		4.2	21
4-Chlorotoluene		ND		0.82	2.1
Benzene		ND		0.82	2.1
Bromobenzene		ND		0.82	2.1
Chlorobromomethane		ND		0.82	2.1
Dichlorobromomethane		ND		0.82	2.1
Bromoform		ND		0.82	2.1
Bromomethane		ND		0.82	4.1
n-Butylbenzene		ND		0.82	2.1
Carbon disulfide		ND		0.82	2.1
Carbon tetrachloride		ND		0.82	2.1
Chlorobenzene		ND		0.82	2.1
Chloroethane		ND		0.82	4.1
Chloroform		ND		0.82	2.1
Chloromethane		ND		0.82	4.1
cis-1,2-Dichloroethene		ND		0.82	2.1
cis-1,3-Dichloropropene		ND		0.82	2.1
Cyclohexane		ND		2.1	21
Chlorodibromomethane		ND		0.82	2.1

4-6-10 TC

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-442-8.0/10-DUP**

Lab Sample ID: 360-24365-3
Client Matrix: Solid

% Moisture: 12.1

Date Sampled: 08/31/2009 1210
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07489.D
Dilution:	1.0			Initial Weight/Volume:	6.90 g
Date Analyzed:	09/05/2009 0355			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.82	2.1
Dichlorodifluoromethane		ND J	*	0.82	4.1
Ethyl ether		ND		0.82	2.1
Isopropyl ether		ND		0.82	2.1
Tert-butyl ethyl ether		ND		2.1	2.1
Ethylbenzene		ND		0.82	2.1
Hexachlorobutadiene		ND		0.82	2.1
Isopropylbenzene		ND		0.82	2.1
Methyl acetate		ND		13	41
2-Butanone (MEK)		ND J		5.6	21
4-Methyl-2-pentanone (MIBK)		ND		4.3	21
Methyl tert-butyl ether		ND		0.82	2.1
Methylcyclohexane		ND		0.82	2.1
Methylene Chloride		ND		4.0	8.2
m-Xylene & p-Xylene		ND		0.82	4.1
Naphthalene		ND		0.82	21
N-Propylbenzene		ND		0.82	2.1
o-Xylene		ND		0.82	2.1
4-Isopropyltoluene		ND		0.82	2.1
sec-Butylbenzene		ND		0.82	2.1
Styrene		ND		0.82	2.1
Tert-amyl methyl ether		ND		0.82	2.1
tert-Butylbenzene		ND		0.82	2.1
Tetrachloroethene		ND		0.82	2.1
Tetrahydrofuran		ND J		4.5	21
Toluene		ND		0.82	2.1
trans-1,2-Dichloroethene		ND		0.82	2.1
trans-1,3-Dichloropropene		ND		0.82	2.1
Trichloroethene		ND		0.82	2.1
Trichlorofluoromethane		ND J	*	0.82	4.1
Vinyl chloride		ND		0.82	2.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TC 4/6/10

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-442-8.0/10-DUP**

Lab Sample ID: 360-24365-3
Client Matrix: Solid % Moisture: 12.1

Date Sampled: 08/31/2009 1210
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07489.D
Dilution:	1.0			Initial Weight/Volume:	6.90 g
Date Analyzed:	09/05/2009 0355			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
~~Unknown~~		~~3.59~~	~~6.5~~	~~TJ~~

e

TC 4/6/10

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-442-8.0/10-XXX**

Lab Sample ID: 360-24365-4
Client Matrix: Solid
% Moisture: 12.7

Date Sampled: 08/31/2009 1210
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07490.D
Dilution:	1.0			Initial Weight/Volume:	6.18 g
Date Analyzed:	09/05/2009 0417			Final Weight/Volume:	5 g
Date Prepared:	09/04/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.93	2.3
1,1,1-Trichloroethane		ND		0.93	2.3
1,1,2,2-Tetrachloroethane		ND		0.93	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.93	12
1,1,2-Trichloroethane		ND		0.93	2.3
1,1-Dichloroethane		ND		0.93	2.3
1,1-Dichloroethene		ND		0.93	2.3
1,1-Dichloropropene		ND		0.93	2.3
1,2,3-Trichlorobenzene		ND		0.93	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.93	2.3
1,2,4-Trimethylbenzene		ND		0.93	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.93	2.3
1,2-Dichlorobenzene		ND		0.93	2.3
1,2-Dichloroethane		ND		0.93	2.3
Acetone		ND J	*	17	230
1,2-Dichloropropane		ND		0.93	2.3
1,3,5-Trimethylbenzene		ND		0.93	2.3
1,3-Dichlorobenzene		ND		0.93	2.3
1,3-Dichloropropane		ND		0.93	2.3
1,4-Dichlorobenzene		ND		0.93	2.3
1,4-Dioxane		~~ND~~ R	*	31	230
2,2-Dichloropropane		ND		0.93	2.3
2,4,4-Trimethyl-1-pentene		ND J		0.93	4.6
2,4,4-Trimethyl-2-pentene		ND		0.93	4.6
2-Chlorotoluene		ND		0.93	2.3
2-Hexanone		ND		4.8	23
4-Chlorotoluene		ND		0.93	2.3
Benzene		ND		0.93	2.3
Bromobenzene		ND		0.93	2.3
Chlorobromomethane		ND		0.93	2.3
Dichlorobromomethane		ND		0.93	2.3
Bromoform		ND		0.93	2.3
Bromomethane		ND		0.93	4.6
n-Butylbenzene		ND		0.93	2.3
Carbon disulfide		ND		0.93	2.3
Carbon tetrachloride		ND		0.93	2.3
Chlorobenzene		ND		0.93	2.3
Chloroethane		ND		0.93	4.6
Chloroform		ND		0.93	2.3
Chloromethane		ND		0.93	4.6
cis-1,2-Dichloroethene		ND		0.93	2.3
cis-1,3-Dichloropropene		ND		0.93	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.93	2.3

TC 4/6/10

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-442-8.0/10-XXX**

Lab Sample ID: 360-24365-4
Client Matrix: Solid % Moisture: 12.7

Date Sampled: 08/31/2009 1210
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07490.D
Dilution:	1.0			Initial Weight/Volume:	6.18 g
Date Analyzed:	09/05/2009 0417			Final Weight/Volume:	5 g
Date Prepared:	09/04/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.93	2.3
Dichlorodifluoromethane		ND J	*	0.93	4.6
Ethyl ether		ND		0.93	2.3
Isopropyl ether		ND		0.93	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.93	2.3
Hexachlorobutadiene		ND		0.93	2.3
Isopropylbenzene		ND		0.93	2.3
Methyl acetate		ND		15	46
2-Butanone (MEK)		ND J		6.2	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.93	2.3
Methylcyclohexane		ND		0.93	2.3
Methylene Chloride		ND		4.5	9.3
m-Xylene & p-Xylene		ND		0.93	4.6
Naphthalene		ND		0.93	23
N-Propylbenzene		ND		0.93	2.3
o-Xylene		ND		0.93	2.3
4-Isopropyltoluene		ND		0.93	2.3
sec-Butylbenzene		ND		0.93	2.3
Styrene		ND		0.93	2.3
Tert-amyl methyl ether		ND		0.93	2.3
tert-Butylbenzene		ND		0.93	2.3
Tetrachloroethene		ND		0.93	2.3
Tetrahydrofuran		ND J		5.1	23
Toluene		ND		0.93	2.3
trans-1,2-Dichloroethene		ND		0.93	2.3
trans-1,3-Dichloropropene		ND		0.93	2.3
Trichloroethene		ND		0.93	2.3
Trichlorofluoromethane		ND J	*	0.93	4.6
Vinyl chloride		ND		0.93	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-442-8.0/10-XXX**

Lab Sample ID: 360-24365-4
Client Matrix: Solid

% Moisture: 12.7

Date Sampled: 08/31/2009 1210
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07490.D
Dilution:	1.0			Initial Weight/Volume:	6.18 g
Date Analyzed:	09/05/2009 0417			Final Weight/Volume:	5 g
Date Prepared:	09/04/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	11.96	0.43	T J

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-447-0.0/1.0-XXX**

Lab Sample ID: 360-24365-5
Client Matrix: Solid % Moisture: 14.3

Date Sampled: 08/31/2009 0810
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44885.D
Dilution:	1.0			Initial Weight/Volume:	4.85 g
Date Analyzed:	09/10/2009 2003			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.2	3.0
1,1,1-Trichloroethane		ND		1.2	3.0
1,1,2,2-Tetrachloroethane		ND		1.2	3.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	15
1,1,2-Trichloroethane		ND		1.2	3.0
1,1-Dichloroethane		ND		1.2	3.0
1,1-Dichloroethene		ND		1.2	3.0
1,1-Dichloropropene		ND		1.2	3.0
1,2,3-Trichlorobenzene		ND		1.2	3.0
1,2,3-Trichloropropane		ND		1.8	3.0
1,2,4-Trichlorobenzene		ND		1.2	3.0
1,2,4-Trimethylbenzene		ND		1.2	3.0
1,2-Dibromo-3-Chloropropane		ND		2.2	30
Ethylene Dibromide		ND		1.2	3.0
1,2-Dichlorobenzene		ND		1.2	3.0
1,2-Dichloroethane		ND		1.2	3.0
Acetone		ND	J	22	300
1,2-Dichloropropane		ND		1.2	3.0
1,3,5-Trimethylbenzene		ND		1.2	3.0
1,3-Dichlorobenzene		ND		1.2	3.0
1,3-Dichloropropane		ND		1.2	3.0
1,4-Dichlorobenzene		ND		1.2	3.0
1,4-Dioxane		ND	J	40	300
2,2-Dichloropropane		ND		1.2	3.0
2,4,4-Trimethyl-1-pentene		ND		1.2	6.0
2,4,4-Trimethyl-2-pentene		ND		1.2	6.0
2-Chlorotoluene		ND		1.2	3.0
2-Hexanone		ND		6.2	30
4-Chlorotoluene		ND		1.2	3.0
Benzene		ND		1.2	3.0
Bromobenzene		ND		1.2	3.0
Chlorobromomethane		ND		1.2	3.0
Dichlorobromomethane		ND		1.2	3.0
Bromoform		ND		1.2	3.0
Bromomethane		ND		1.2	6.0
n-Butylbenzene		ND		1.2	3.0
Carbon disulfide		ND		1.2	3.0
Carbon tetrachloride		ND		1.2	3.0
Chlorobenzene		ND		1.2	3.0
Chloroethane		ND		1.2	6.0
Chloroform		ND		1.2	3.0
Chloromethane		ND		1.2	6.0
cis-1,2-Dichloroethene		ND		1.2	3.0
cis-1,3-Dichloropropene		ND		1.2	3.0
Cyclohexane		ND		3.1	30
Chlorodibromomethane		ND		1.2	3.0

TC
4/6/10

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-447-0.0/1.0-XXX**

Lab Sample ID: 360-24365-5
Client Matrix: Solid

% Moisture: 14.3

Date Sampled: 08/31/2009 0810
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44885.D
Dilution:	1.0			Initial Weight/Volume:	4.85 g
Date Analyzed:	09/10/2009 2003			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.2	3.0
Dichlorodifluoromethane		ND J	*	1.2	6.0
Ethyl ether		ND		1.2	3.0
Isopropyl ether		ND		1.2	3.0
Tert-butyl ethyl ether		ND		3.0	3.0
Ethylbenzene		ND		1.2	3.0
Hexachlorobutadiene		ND		1.2	3.0
Isopropylbenzene		ND		1.2	3.0
Methyl acetate		ND J		20	60
2-Butanone (MEK)		ND		8.1	30
4-Methyl-2-pentanone (MIBK)		ND		6.2	30
Methyl tert-butyl ether		ND		1.2	3.0
Methylcyclohexane		ND		1.2	3.0
Methylene Chloride		ND		5.8	12
m-Xylene & p-Xylene		ND		1.2	6.0
Naphthalene		ND		1.2	30
N-Propylbenzene		ND		1.2	3.0
o-Xylene		ND		1.2	3.0
4-Isopropyltoluene		ND		1.2	3.0
sec-Butylbenzene		ND		1.2	3.0
Styrene		ND		1.2	3.0
Tert-amyl methyl ether		ND		1.2	3.0
tert-Butylbenzene		ND		1.2	3.0
Tetrachloroethene		ND		1.2	3.0
Tetrahydrofuran		ND		6.6	30
Toluene		ND		1.2	3.0
trans-1,2-Dichloroethene		ND		1.2	3.0
trans-1,3-Dichloropropene		ND		1.2	3.0
Trichloroethene		ND		1.2	3.0
Trichlorofluoromethane		ND		1.2	6.0
Vinyl chloride		ND		1.2	3.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TC
4-6-10

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-447-0.0/1.0-XXX**

Lab Sample ID: 360-24365-5
Client Matrix: Solid

% Moisture: 14.3

Date Sampled: 08/31/2009 0810
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44885.D
Dilution:	1.0			Initial Weight/Volume:	4.85 g
Date Analyzed:	09/10/2009 2003			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.65	2.8	T J

TC
4-6-10

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-447-18/20-XXX**

Lab Sample ID: 360-24365-6
Client Matrix: Solid % Moisture: 9.4

Date Sampled: 08/31/2009 0905
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44928.D
Dilution:	1.0			Initial Weight/Volume:	5.88 g
Date Analyzed:	09/12/2009 1519			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.94	2.3
1,1,1-Trichloroethane		ND		0.94	2.3
1,1,2,2-Tetrachloroethane		ND		0.94	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.94	12
1,1,2-Trichloroethane		ND		0.94	2.3
1,1-Dichloroethane		ND		0.94	2.3
1,1-Dichloroethene		ND		0.94	2.3
1,1-Dichloropropene		ND		0.94	2.3
1,2,3-Trichlorobenzene		ND		0.94	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.94	2.3
1,2,4-Trimethylbenzene		ND		0.94	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.94	2.3
1,2-Dichlorobenzene		ND		0.94	2.3
1,2-Dichloroethane		ND		0.94	2.3
Acetone		ND	J	17	230
1,2-Dichloropropane		ND		0.94	2.3
1,3,5-Trimethylbenzene		ND		0.94	2.3
1,3-Dichlorobenzene		ND		0.94	2.3
1,3-Dichloropropane		ND		0.94	2.3
1,4-Dichlorobenzene		ND		0.94	2.3
1,4-Dioxane		ND	J	31	230
2,2-Dichloropropane		ND		0.94	2.3
2,4,4-Trimethyl-1-pentene		ND		0.94	4.7
2,4,4-Trimethyl-2-pentene		ND		0.94	4.7
2-Chlorotoluene		ND		0.94	2.3
2-Hexanone		ND		4.8	23
4-Chlorotoluene		ND		0.94	2.3
Benzene		ND		0.94	2.3
Bromobenzene		ND		0.94	2.3
Chlorobromomethane		ND		0.94	2.3
Dichlorobromomethane		ND		0.94	2.3
Bromoform		ND		0.94	2.3
Bromomethane		ND		0.94	4.7
n-Butylbenzene		ND		0.94	2.3
Carbon disulfide		ND		0.94	2.3
Carbon tetrachloride		ND		0.94	2.3
Chlorobenzene		ND		0.94	2.3
Chloroethane		ND		0.94	4.7
Chloroform		ND		0.94	2.3
Chloromethane		ND		0.94	4.7
cis-1,2-Dichloroethene		ND		0.94	2.3
cis-1,3-Dichloropropene		ND		0.94	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.94	2.3

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-447-18/20-XXX**

Lab Sample ID: 360-24365-6
Client Matrix: Solid
% Moisture: 9.4

Date Sampled: 08/31/2009 0905
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44928.D
Dilution:	1.0			Initial Weight/Volume:	5.88 g
Date Analyzed:	09/12/2009 1519			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.94	2.3
Dichlorodifluoromethane		ND J	*	0.94	4.7
Ethyl ether		ND		0.94	2.3
Isopropyl ether		ND		0.94	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.94	2.3
Hexachlorobutadiene		ND		0.94	2.3
Isopropylbenzene		ND		0.94	2.3
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.3	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.94	2.3
Methylcyclohexane		ND		0.94	2.3
Methylene Chloride		ND		4.5	9.4
m-Xylene & p-Xylene		ND		0.94	4.7
Naphthalene		ND		0.94	23
N-Propylbenzene		ND		0.94	2.3
o-Xylene		ND		0.94	2.3
4-Isopropyltoluene		ND		0.94	2.3
sec-Butylbenzene		ND		0.94	2.3
Styrene		ND		0.94	2.3
Tert-amyl methyl ether		ND		0.94	2.3
tert-Butylbenzene		ND		0.94	2.3
Tetrachloroethene		ND		0.94	2.3
Tetrahydrofuran		ND		5.2	23
Toluene		ND		0.94	2.3
trans-1,2-Dichloroethene		ND		0.94	2.3
trans-1,3-Dichloropropene		ND		0.94	2.3
Trichloroethene		ND		0.94	2.3
Trichlorofluoromethane		ND		0.94	4.7
Vinyl chloride		ND		0.94	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-447-18/20-XXX**

Lab Sample ID: 360-24365-6
Client Matrix: Solid % Moisture: 9.4

Date Sampled: 08/31/2009 0905
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44928.D
Dilution:	1.0			Initial Weight/Volume:	5.88 g
Date Analyzed:	09/12/2009 1519			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	1.5	T J
92-52-4	Biphenyl	16.10	76	T J N
101-84-8	Diphenyl ether	16.41	110	T J N

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-447-3.0/5.0-XXX**

Lab Sample ID: 360-24365-7
Client Matrix: Solid

% Moisture: 11.0

Date Sampled: 08/31/2009 0825
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48655		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48654		Lab File ID:	V07514.D
Dilution:	1.0			Initial Weight/Volume:	3.27 g
Date Analyzed:	09/08/2009 1207			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 0900				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.7	4.3
1,1,1-Trichloroethane		ND		1.7	4.3
1,1,2,2-Tetrachloroethane		ND		1.7	4.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.7	21
1,1,2-Trichloroethane		ND		1.7	4.3
1,1-Dichloroethane		ND		1.7	4.3
1,1-Dichloroethene		ND		1.7	4.3
1,1-Dichloropropene		ND		1.7	4.3
1,2,3-Trichlorobenzene		ND		1.7	4.3
1,2,3-Trichloropropane		ND		2.5	4.3
1,2,4-Trichlorobenzene		ND		1.7	4.3
1,2,4-Trimethylbenzene		ND		1.7	4.3
1,2-Dibromo-3-Chloropropane		ND		3.1	43
Ethylene Dibromide		ND		1.7	4.3
1,2-Dichlorobenzene		ND		1.7	4.3
1,2-Dichloroethane		ND		1.7	4.3
Acetone		ND J		31	430
1,2-Dichloropropane		ND		1.7	4.3
1,3,5-Trimethylbenzene		ND		1.7	4.3
1,3-Dichlorobenzene		ND		1.7	4.3
1,3-Dichloropropane		ND		1.7	4.3
1,4-Dichlorobenzene		ND		1.7	4.3
1,4-Dioxane		~~ND~~ R	*	57	430
2,2-Dichloropropane		ND		1.7	4.3
2,4,4-Trimethyl-1-pentene		43		1.7	8.6
2,4,4-Trimethyl-2-pentene		12		1.7	8.6
2-Chlorotoluene		ND		1.7	4.3
2-Hexanone		ND		8.8	43
4-Chlorotoluene		ND		1.7	4.3
Benzene		ND		1.7	4.3
Bromobenzene		ND		1.7	4.3
Chlorobromomethane		ND		1.7	4.3
Dichlorobromomethane		ND		1.7	4.3
Bromoform		ND		1.7	4.3
Bromomethane		ND		1.7	8.6
n-Butylbenzene		ND		1.7	4.3
Carbon disulfide		ND		1.7	4.3
Carbon tetrachloride		ND		1.7	4.3
Chlorobenzene		ND		1.7	4.3
Chloroethane		ND		1.7	8.6
Chloroform		ND		1.7	4.3
Chloromethane		ND		1.7	8.6
cis-1,2-Dichloroethene		ND		1.7	4.3
cis-1,3-Dichloropropene		ND		1.7	4.3
Cyclohexane		ND		4.4	43
Chlorodibromomethane		ND		1.7	4.3

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-447-3.0/5.0-XXX**

Lab Sample ID: 360-24365-7
Client Matrix: Solid % Moisture: 11.0

Date Sampled: 08/31/2009 0825
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48655		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48654		Lab File ID:	V07514.D
Dilution:	1.0			Initial Weight/Volume:	3.27 g
Date Analyzed:	09/08/2009 1207			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 0900				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.7	4.3
Dichlorodifluoromethane		ND J	*	1.7	8.6
Ethyl ether		ND		1.7	4.3
Isopropyl ether		ND		1.7	4.3
Tert-butyl ethyl ether		ND		4.3	4.3
Ethylbenzene		ND		1.7	4.3
Hexachlorobutadiene		ND J	*	1.7	4.3
Isopropylbenzene		ND		1.7	4.3
Methyl acetate		ND		28	86
2-Butanone (MEK)		ND J		12	43
4-Methyl-2-pentanone (MIBK)		ND		8.9	43
Methyl tert-butyl ether		ND		1.7	4.3
Methylcyclohexane		ND		1.7	4.3
Methylene Chloride		ND		8.3	17
m-Xylene & p-Xylene		ND		1.7	8.6
Naphthalene		ND		1.7	43
N-Propylbenzene		ND		1.7	4.3
o-Xylene		ND		1.7	4.3
4-Isopropyltoluene		ND		1.7	4.3
sec-Butylbenzene		ND		1.7	4.3
Styrene		ND		1.7	4.3
Tert-amyl methyl ether		ND		1.7	4.3
tert-Butylbenzene		ND		1.7	4.3
Tetrachloroethene		ND		1.7	4.3
Tetrahydrofuran		ND J		9.4	43
Toluene		ND		1.7	4.3
trans-1,2-Dichloroethene		ND		1.7	4.3
trans-1,3-Dichloropropene		ND		1.7	4.3
Trichloroethene		7.0		1.7	4.3
Trichlorofluoromethane		ND		1.7	8.6
Vinyl chloride		ND		1.7	4.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-447-3.0/5.0-XXX**

Lab Sample ID: 360-24365-7
Client Matrix: Solid % Moisture: 11.0

Date Sampled: 08/31/2009 0825
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48655		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48654		Lab File ID:	V07514.D
Dilution:	1.0			Initial Weight/Volume:	3.27 g
Date Analyzed:	09/08/2009 1207			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 0900				

Tentatively Identified Compounds **Number TIC's Found:** 4

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	13.70	380	T J
	Unknown	13.84	320	T J
	Unknown	13.89	170	T J
101-84-8	Diphenyl ether	15.14	21	T J N

4/6/10
TC

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-452-0.0/1.0-XXX**

Lab Sample ID: 360-24365-8
Client Matrix: Solid % Moisture: 2.5

Date Sampled: 08/31/2009 1030
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44886.D
Dilution:	1.0			Initial Weight/Volume:	4.67 g
Date Analyzed:	09/10/2009 2028			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		2.0	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	H	20	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	H	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

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TC

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-452-0.0/1.0-XXX**

Lab Sample ID: 360-24365-8
Client Matrix: Solid % Moisture: 2.5

Date Sampled: 08/31/2009 1030
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44886.D
Dilution:	1.0			Initial Weight/Volume:	4.67 g
Date Analyzed:	09/10/2009 2028			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.5
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND J		18	55
2-Butanone (MEK)		ND		7.4	27
4-Methyl-2-pentanone (MIBK)		ND		5.7	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.3	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		8.3	J	6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	102		70 - 130

4/6/10
TC

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-452-0.0/1.0-XXX**

Lab Sample ID: 360-24365-8
Client Matrix: Solid

% Moisture: 2.5

Date Sampled: 08/31/2009 1030
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44886.D
Dilution:	1.0			Initial Weight/Volume:	4.67 g
Date Analyzed:	09/10/2009 2028			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	7.75	6.4	T J

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-452-5.0/7.0-XXX**

Lab Sample ID: 360-24365-10
Client Matrix: Solid % Moisture: 17.2

Date Sampled: 08/31/2009 1045
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07491.D
Dilution:	1.0			Initial Weight/Volume:	6.14 g
Date Analyzed:	09/05/2009 0440			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.98	2.5
1,1,1-Trichloroethane		ND		0.98	2.5
1,1,2,2-Tetrachloroethane		ND		0.98	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.98	12
1,1,2-Trichloroethane		ND		0.98	2.5
1,1-Dichloroethane		ND		0.98	2.5
1,1-Dichloroethene		ND		0.98	2.5
1,1-Dichloropropene		ND		0.98	2.5
1,2,3-Trichlorobenzene		ND		0.98	2.5
1,2,3-Trichloropropane		ND		1.4	2.5
1,2,4-Trichlorobenzene		ND		0.98	2.5
1,2,4-Trimethylbenzene		ND		0.98	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.98	2.5
1,2-Dichlorobenzene		ND		0.98	2.5
1,2-Dichloroethane		ND		0.98	2.5
Acetone		ND J	*	18	250
1,2-Dichloropropane		ND		0.98	2.5
1,3,5-Trimethylbenzene		ND		0.98	2.5
1,3-Dichlorobenzene		ND		0.98	2.5
1,3-Dichloropropane		ND		0.98	2.5
1,4-Dichlorobenzene		ND		0.98	2.5
1,4-Dioxane		~~ND~~ R	*	32	250
2,2-Dichloropropane		ND		0.98	2.5
2,4,4-Trimethyl-1-pentene		ND J		0.98	4.9
2,4,4-Trimethyl-2-pentene		ND		0.98	4.9
2-Chlorotoluene		ND		0.98	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.98	2.5
Benzene		ND		0.98	2.5
Bromobenzene		ND		0.98	2.5
Chlorobromomethane		ND		0.98	2.5
Dichlorobromomethane		ND		0.98	2.5
Bromoform		ND		0.98	2.5
Bromomethane		ND		0.98	4.9
n-Butylbenzene		ND		0.98	2.5
Carbon disulfide		ND		0.98	2.5
Carbon tetrachloride		ND		0.98	2.5
Chlorobenzene		ND		0.98	2.5
Chloroethane		ND		0.98	4.9
Chloroform		ND		0.98	2.5
Chloromethane		ND		0.98	4.9
cis-1,2-Dichloroethene		ND		0.98	2.5
cis-1,3-Dichloropropene		ND		0.98	2.5
Cyclohexane		ND		2.5	25
Chlorodibromomethane		ND		0.98	2.5

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-452-5.0/7.0-XXX**

Lab Sample ID: 360-24365-10
Client Matrix: Solid

% Moisture: 17.2

Date Sampled: 08/31/2009 1045
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642	Instrument ID: HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640	Lab File ID: V07491.D
Dilution:	1.0		Initial Weight/Volume: 6.14 g
Date Analyzed:	09/05/2009 0440		Final Weight/Volume: 5 g
Date Prepared:	09/03/2009 1545		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.98	2.5
Dichlorodifluoromethane		ND J	*	0.98	4.9
Ethyl ether		ND		0.98	2.5
Isopropyl ether		ND		0.98	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.98	2.5
Hexachlorobutadiene		ND		0.98	2.5
Isopropylbenzene		ND		0.98	2.5
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND J		6.6	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.98	2.5
Methylcyclohexane		ND		0.98	2.5
Methylene Chloride		ND		4.8	9.8
m-Xylene & p-Xylene		ND		0.98	4.9
Naphthalene		ND		0.98	25
N-Propylbenzene		ND		0.98	2.5
o-Xylene		ND		0.98	2.5
4-Isopropyltoluene		ND		0.98	2.5
sec-Butylbenzene		ND		0.98	2.5
Styrene		ND		0.98	2.5
Tert-amyl methyl ether		ND		0.98	2.5
tert-Butylbenzene		ND		0.98	2.5
Tetrachloroethene		ND		0.98	2.5
Tetrahydrofuran		ND J		5.4	25
Toluene		ND		0.98	2.5
trans-1,2-Dichloroethene		ND		0.98	2.5
trans-1,3-Dichloropropene		ND		0.98	2.5
Trichloroethene		ND		0.98	2.5
Trichlorofluoromethane		ND J	*	0.98	4.9
Vinyl chloride		ND		0.98	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	107		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-452-5.0/7.0-XXX**

Lab Sample ID: 360-24365-10
Client Matrix: Solid

% Moisture: 17.2

Date Sampled: 08/31/2009 1045
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07491.D
Dilution:	1.0			Initial Weight/Volume:	6.14 g
Date Analyzed:	09/05/2009 0440			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.59	8.0	TJ

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-TBK-011**

Lab Sample ID: 360-24365-11
Client Matrix: Solid

Date Sampled: 08/31/2009 1420
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44887.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	09/10/2009 2052			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-TBK-011**

Lab Sample ID: 360-24365-11
Client Matrix: Solid

Date Sampled: 08/31/2009 1420
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44887.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	09/10/2009 2052			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		5.7	J B	4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		13	J	5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	99		70 - 130

4/6/10
TC

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-TBK-011**

Lab Sample ID: 360-24365-11
Client Matrix: Solid

Date Sampled: 08/31/2009 1420
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44887.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	09/10/2009 2052			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.83	5.1	T J

4/6/10
TC

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-EBK-006**

Lab Sample ID: 360-24365-12EB
Client Matrix: Water

Date Sampled: 08/31/2009 1415
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/10/2009 1914
Date Prepared: 09/10/2009 1914

Analysis Batch: 360-48826

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06857.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND		0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND		0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	1.3		0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-EBK-006**

Lab Sample ID: 360-24365-12EB
Client Matrix: Water

Date Sampled: 08/31/2009 1415
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48826	Instrument ID: Agilent#2 GC/MS
Preparation:	5030B		Lab File ID: V06857.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	09/10/2009 1914		Final Weight/Volume: 5 mL
Date Prepared:	09/10/2009 1914		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND	*	0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		70 - 130
Dibromofluoromethane	109		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-EBK-006**

Lab Sample ID: 360-24365-12EB
Client Matrix: Water

Date Sampled: 08/31/2009 1415
Date Received: 08/31/2009 1745

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48826		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06857.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	09/10/2009 1914			Final Weight/Volume:	5 mL
Date Prepared:	09/10/2009 1914				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	3.07	3.4	T J

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-458-0.0/1.0-XXX**

Lab Sample ID: 360-24365-13
Client Matrix: Solid % Moisture: 8.3

Date Sampled: 08/31/2009 1530
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44888.D
Dilution:	1.0			Initial Weight/Volume:	5.24 g
Date Analyzed:	09/10/2009 2115			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-458-0.0/1.0-XXX**

Lab Sample ID: 360-24365-13
Client Matrix: Solid % Moisture: 8.3

Date Sampled: 08/31/2009 1530
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44888.D
Dilution:	1.0			Initial Weight/Volume:	5.24 g
Date Analyzed:	09/10/2009 2115			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND J		17	52
2-Butanone (MEK)		ND		7.0	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-458-0.0/1.0-XXX**

Lab Sample ID: 360-24365-13
Client Matrix: Solid % Moisture: 8.3

Date Sampled: 08/31/2009 1530
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44888.D
Dilution:	1.0			Initial Weight/Volume:	5.24 g
Date Analyzed:	09/10/2009 2115			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	9.85	1.1	T J

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-458-5.0/7.0-XXX**

Lab Sample ID: 360-24365-15
Client Matrix: Solid % Moisture: 16.4

Date Sampled: 08/31/2009 1545
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07492.D
Dilution:	1.0			Initial Weight/Volume:	5.60 g
Date Analyzed:	09/05/2009 0502			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND J	*	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		~~ND~~ R	*	35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND J		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-458-5.0/7.0-XXX**

Lab Sample ID: 360-24365-15
Client Matrix: Solid

% Moisture: 16.4

Date Sampled: 08/31/2009 1545
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07492.D
Dilution:	1.0			Initial Weight/Volume:	5.60 g
Date Analyzed:	09/05/2009 0502			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.3
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		17	53
2-Butanone (MEK)		ND J		7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND J		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND J	*	1.1	5.3
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-458-5.0/7.0-XXX**

Lab Sample ID: 360-24365-15
Client Matrix: Solid

% Moisture: 16.4

Date Sampled: 08/31/2009 1545
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07492.D
Dilution:	1.0			Initial Weight/Volume:	5.60 g
Date Analyzed:	09/05/2009 0502			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	~~Unknown~~	~~3.59~~	~~7.8~~	~~T J~~

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: OC-SB-460-0.0/1.0-XXX

Lab Sample ID: 360-24365-16
Client Matrix: Solid

% Moisture: 8.1

Date Sampled: 09/01/2009 0840
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44889.D
Dilution:	1.0			Initial Weight/Volume:	4.94 g
Date Analyzed:	09/10/2009 2139			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.8
1,1,1-Trichloroethane		ND		1.1	2.8
1,1,2,2-Tetrachloroethane		ND		1.1	2.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.8
1,1-Dichloroethane		ND		1.1	2.8
1,1-Dichloroethene		ND		1.1	2.8
1,1-Dichloropropene		ND		1.1	2.8
1,2,3-Trichlorobenzene		ND		1.1	2.8
1,2,3-Trichloropropane		ND		1.6	2.8
1,2,4-Trichlorobenzene		ND		1.1	2.8
1,2,4-Trimethylbenzene		ND		1.1	2.8
1,2-Dibromo-3-Chloropropane		ND		2.0	28
Ethylene Dibromide		ND		1.1	2.8
1,2-Dichlorobenzene		ND		1.1	2.8
1,2-Dichloroethane		ND		1.1	2.8
Acetone		ND	J	20	280
1,2-Dichloropropane		ND		1.1	2.8
1,3,5-Trimethylbenzene		ND		1.1	2.8
1,3-Dichlorobenzene		ND		1.1	2.8
1,3-Dichloropropane		ND		1.1	2.8
1,4-Dichlorobenzene		ND		1.1	2.8
1,4-Dioxane		ND	J	36	280
2,2-Dichloropropane		ND		1.1	2.8
2,4,4-Trimethyl-1-pentene		ND		1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.8
2-Hexanone		ND		5.7	28
4-Chlorotoluene		ND		1.1	2.8
Benzene		ND		1.1	2.8
Bromobenzene		ND		1.1	2.8
Chlorobromomethane		ND		1.1	2.8
Dichlorobromomethane		ND		1.1	2.8
Bromoform		ND		1.1	2.8
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.8
Carbon disulfide		ND		1.1	2.8
Carbon tetrachloride		ND		1.1	2.8
Chlorobenzene		ND		1.1	2.8
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.8
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.8
cis-1,3-Dichloropropene		ND		1.1	2.8
Cyclohexane		ND		2.8	28
Chlorodibromomethane		ND		1.1	2.8

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-460-0.0/1.0-XXX**

Lab Sample ID: 360-24365-16
Client Matrix: Solid

% Moisture: 8.1

Date Sampled: 09/01/2009 0840
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44889.D
Dilution:	1.0			Initial Weight/Volume:	4.94 g
Date Analyzed:	09/10/2009 2139			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.8
Dichlorodifluoromethane		ND J	*	1.1	5.5
Ethyl ether		ND		1.1	2.8
Isopropyl ether		ND		1.1	2.8
Tert-butyl ethyl ether		ND		2.8	2.8
Ethylbenzene		ND		1.1	2.8
Hexachlorobutadiene		ND		1.1	2.8
Isopropylbenzene		ND		1.1	2.8
Methyl acetate		ND J		18	55
2-Butanone (MEK)		ND		7.4	28
4-Methyl-2-pentanone (MIBK)		ND		5.7	28
Methyl tert-butyl ether		ND		1.1	2.8
Methylcyclohexane		ND		1.1	2.8
Methylene Chloride		ND		5.3	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	28
N-Propylbenzene		ND		1.1	2.8
o-Xylene		ND		1.1	2.8
4-Isopropyltoluene		ND		1.1	2.8
sec-Butylbenzene		ND		1.1	2.8
Styrene		ND		1.1	2.8
Tert-amyl methyl ether		ND		1.1	2.8
tert-Butylbenzene		ND		1.1	2.8
Tetrachloroethene		ND		1.1	2.8
Tetrahydrofuran		7.0	J	6.1	28
Toluene		ND		1.1	2.8
trans-1,2-Dichloroethene		ND		1.1	2.8
trans-1,3-Dichloropropene		ND		1.1	2.8
Trichloroethene		ND		1.1	2.8
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: OC-SB-460-0.0/1.0-XXX

Lab Sample ID: 360-24365-16
Client Matrix: Solid % Moisture: 8.1

Date Sampled: 09/01/2009 0840
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44889.D
Dilution:	1.0			Initial Weight/Volume:	4.94 g
Date Analyzed:	09/10/2009 2139			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.35	3.6	T J

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-460-5.5/7.5-XXX**

Lab Sample ID: 360-24365-18
Client Matrix: Solid % Moisture: 19.1

Date Sampled: 09/01/2009 0850
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07493.D
Dilution:	1.0			Initial Weight/Volume:	5.28 g
Date Analyzed:	09/05/2009 0525			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.2	2.9
1,1,1-Trichloroethane		ND		1.2	2.9
1,1,2,2-Tetrachloroethane		ND		1.2	2.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	15
1,1,2-Trichloroethane		ND		1.2	2.9
1,1-Dichloroethane		ND		1.2	2.9
1,1-Dichloroethene		ND		1.2	2.9
1,1-Dichloropropene		ND		1.2	2.9
1,2,3-Trichlorobenzene		ND		1.2	2.9
1,2,3-Trichloropropane		ND		1.7	2.9
1,2,4-Trichlorobenzene		ND		1.2	2.9
1,2,4-Trimethylbenzene		ND		1.2	2.9
1,2-Dibromo-3-Chloropropane		ND		2.1	29
Ethylene Dibromide		ND		1.2	2.9
1,2-Dichlorobenzene		ND		1.2	2.9
1,2-Dichloroethane		ND		1.2	2.9
Acetone		ND J	*	21	290
1,2-Dichloropropane		ND		1.2	2.9
1,3,5-Trimethylbenzene		ND		1.2	2.9
1,3-Dichlorobenzene		ND		1.2	2.9
1,3-Dichloropropane		ND		1.2	2.9
1,4-Dichlorobenzene		ND		1.2	2.9
1,4-Dioxane		~~ND~~ R	*	39	290
2,2-Dichloropropane		ND		1.2	2.9
2,4,4-Trimethyl-1-pentene		ND J		1.2	5.8
2,4,4-Trimethyl-2-pentene		ND		1.2	5.8
2-Chlorotoluene		ND		1.2	2.9
2-Hexanone		ND		6.0	29
4-Chlorotoluene		ND		1.2	2.9
Benzene		ND		1.2	2.9
Bromobenzene		ND		1.2	2.9
Chlorobromomethane		ND		1.2	2.9
Dichlorobromomethane		ND		1.2	2.9
Bromoform		ND		1.2	2.9
Bromomethane		ND		1.2	5.8
n-Butylbenzene		ND		1.2	2.9
Carbon disulfide		ND		1.2	2.9
Carbon tetrachloride		ND		1.2	2.9
Chlorobenzene		ND		1.2	2.9
Chloroethane		ND		1.2	5.8
Chloroform		ND		1.2	2.9
Chloromethane		ND		1.2	5.8
cis-1,2-Dichloroethene		ND		1.2	2.9
cis-1,3-Dichloropropene		ND		1.2	2.9
Cyclohexane		ND		3.0	29
Chlorodibromomethane		ND		1.2	2.9

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-460-5.5/7.5-XXX**

Lab Sample ID: 360-24365-18
Client Matrix: Solid

% Moisture: 19.1

Date Sampled: 09/01/2009 0850
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07493.D
Dilution:	1.0			Initial Weight/Volume:	5.28 g
Date Analyzed:	09/05/2009 0525			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.2	2.9
Dichlorodifluoromethane		ND J	*	1.2	5.8
Ethyl ether		ND		1.2	2.9
Isopropyl ether		ND		1.2	2.9
Tert-butyl ethyl ether		ND		2.9	2.9
Ethylbenzene		ND		1.2	2.9
Hexachlorobutadiene		ND		1.2	2.9
Isopropylbenzene		ND		1.2	2.9
Methyl acetate		ND		19	58
2-Butanone (MEK)		ND J		7.9	29
4-Methyl-2-pentanone (MIBK)		ND		6.0	29
Methyl tert-butyl ether		ND		1.2	2.9
Methylcyclohexane		ND		1.2	2.9
Methylene Chloride		ND		5.7	12
m-Xylene & p-Xylene		ND		1.2	5.8
Naphthalene		ND		1.2	29
N-Propylbenzene		ND		1.2	2.9
o-Xylene		ND		1.2	2.9
4-Isopropyltoluene		ND		1.2	2.9
sec-Butylbenzene		ND		1.2	2.9
Styrene		ND		1.2	2.9
Tert-amyl methyl ether		ND		1.2	2.9
tert-Butylbenzene		ND		1.2	2.9
Tetrachloroethene		ND		1.2	2.9
Tetrahydrofuran		ND J		6.4	29
Toluene		ND		1.2	2.9
trans-1,2-Dichloroethene		ND		1.2	2.9
trans-1,3-Dichloropropene		ND		1.2	2.9
Trichloroethene		ND		1.2	2.9
Trichlorofluoromethane		ND J	*	1.2	5.8
Vinyl chloride		ND		1.2	2.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-460-5.5/7.5-XXX**

Lab Sample ID: 360-24365-18
Client Matrix: Solid

% Moisture: 19.1

Date Sampled: 09/01/2009 0850
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48642		Instrument ID:	HP #3 GC/MS
Preparation:	5035	Prep Batch: 360-48640		Lab File ID:	V07493.D
Dilution:	1.0			Initial Weight/Volume:	5.28 g
Date Analyzed:	09/05/2009 0525			Final Weight/Volume:	5 g
Date Prepared:	09/03/2009 1545				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	~~Unknown~~	~~3.60~~	~~7.6~~	~~T J~~

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-PE-VS0355-VOC**

Lab Sample ID: 360-24365-22
Client Matrix: Solid % Moisture: 0.0

Date Sampled: 09/01/2009 1015
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48767		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48765		Lab File ID:	V44844.D
Dilution:	1.0			Initial Weight/Volume:	5.23 g
Date Analyzed:	09/09/2009 1929			Final Weight/Volume:	5 g
Date Prepared:	09/09/2009 1557				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.96	2.4
1,1,1-Trichloroethane		26		0.96	2.4
1,1,2,2-Tetrachloroethane		ND		0.96	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.96	12
1,1,2-Trichloroethane		46		0.96	2.4
1,1-Dichloroethane		ND		0.96	2.4
1,1-Dichloroethene		ND		0.96	2.4
1,1-Dichloropropene		ND		0.96	2.4
1,2,3-Trichlorobenzene		ND		0.96	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		95		0.96	2.4
1,2,4-Trimethylbenzene		ND		0.96	2.4
1,2-Dibromo-3-Chloropropane		17	J	1.7	24
Ethylene Dibromide		ND		0.96	2.4
1,2-Dichlorobenzene		ND		0.96	2.4
1,2-Dichloroethane		38		0.96	2.4
Acetone		250		17	240
1,2-Dichloropropane		82		0.96	2.4
1,3,5-Trimethylbenzene		ND		0.96	2.4
1,3-Dichlorobenzene		75		0.96	2.4
1,3-Dichloropropane		ND		0.96	2.4
1,4-Dichlorobenzene		ND		0.96	2.4
1,4-Dioxane		400		32	240
2,2-Dichloropropane		54		0.96	2.4
2,4,4-Trimethyl-1-pentene		ND		0.96	4.8
2,4,4-Trimethyl-2-pentene		ND		0.96	4.8
2-Chlorotoluene		ND		0.96	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.96	2.4
Benzene		49		0.96	2.4
Bromobenzene		ND		0.96	2.4
Chlorobromomethane		ND		0.96	2.4
Dichlorobromomethane		ND		0.96	2.4
Bromoform		ND		0.96	2.4
Bromomethane		42		0.96	4.8
n-Butylbenzene		ND		0.96	2.4
Carbon disulfide		51		0.96	2.4
Carbon tetrachloride		15		0.96	2.4
Chlorobenzene		ND		0.96	2.4
Chloroethane		23		0.96	4.8
Chloroform		27		0.96	2.4
Chloromethane		ND		0.96	4.8
cis-1,2-Dichloroethene		ND		0.96	2.4
cis-1,3-Dichloropropene		ND		0.96	2.4
Cyclohexane		100		2.5	24
Chlorodibromomethane		38		0.96	2.4

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-PE-VS0355-VOC**

Lab Sample ID: 360-24365-22
Client Matrix: Solid % Moisture: 0.0

Date Sampled: 09/01/2009 1015
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48767		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48765		Lab File ID:	V44844.D
Dilution:	1.0			Initial Weight/Volume:	5.23 g
Date Analyzed:	09/09/2009 1929			Final Weight/Volume:	5 g
Date Prepared:	09/09/2009 1557				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.96	2.4
Dichlorodifluoromethane		ND	*	0.96	4.8
Ethyl ether		ND		0.96	2.4
Isopropyl ether		ND		0.96	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		42		0.96	2.4
Hexachlorobutadiene		ND		0.96	2.4
Isopropylbenzene		48		0.96	2.4
Methyl acetate		ND		16	48
2-Butanone (MEK)		ND		6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		57		0.96	2.4
Methylcyclohexane		73		0.96	2.4
Methylene Chloride		51	B	4.6	9.6
m-Xylene & p-Xylene		ND		0.96	4.8
Naphthalene		ND		0.96	24
N-Propylbenzene		ND		0.96	2.4
o-Xylene		ND		0.96	2.4
4-Isopropyltoluene		ND		0.96	2.4
sec-Butylbenzene		ND		0.96	2.4
Styrene		45		0.96	2.4
Tert-amyl methyl ether		ND		0.96	2.4
tert-Butylbenzene		ND		0.96	2.4
Tetrachloroethene		48		0.96	2.4
Tetrahydrofuran		ND		5.3	24
Toluene		38		0.96	2.4
trans-1,2-Dichloroethene		36		0.96	2.4
trans-1,3-Dichloropropene		ND		0.96	2.4
Trichloroethene		40		0.96	2.4
Trichlorofluoromethane		ND		0.96	4.8
Vinyl chloride		42		0.96	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Olin Corporation

Job Number: 360-24365-1
Sdg Number: OCRI-09

Client Sample ID: **OC-SB-PE-VS0355-VOC**

Lab Sample ID: 360-24365-22
Client Matrix: Solid % Moisture: 0.0

Date Sampled: 09/01/2009 1015
Date Received: 09/01/2009 1715

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48767		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48765		Lab File ID:	V44844.D
Dilution:	1.0			Initial Weight/Volume:	5.23 g
Date Analyzed:	09/09/2009 1929			Final Weight/Volume:	5 g
Date Prepared:	09/09/2009 1557				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

4/6/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab File ID: V44874.D BFB Injection Date: 09/10/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:42

Analysis Batch No.: 48816

I-cal 9/8/09

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.1	
75	30.0 - 60.0 % of mass 95	51.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.9	
175	5.0 - 9.0 % of mass 174	5.3	(7.9)1
176	95.0 - 101.0 % of mass 174	65.5	(97.9)1
177	5.0 - 9.0 % of mass 176	4.2	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48816/2	V44875.D	09/10/2009	16:05
	LCS 360-48815/1-A	V44876.D	09/10/2009	16:29
	LCSD 360-48815/2-A	V44877.D	09/10/2009	16:53
	MB 360-48815/3-A	V44881.D	09/10/2009	18:28
OC-SB-442-0.0/1.0-XXX	360-24365-1	V44884.D	09/10/2009	19:39
OC-SB-447-0.0/1.0-XXX	360-24365-5	V44885.D	09/10/2009	20:03
OC-SB-452-0.0/1.0-XXX	360-24365-8	V44886.D	09/10/2009	20:28
OC-TBK-011	360-24365-11	V44887.D	09/10/2009	20:52
OC-SB-458-0.0/1.0-XXX	360-24365-13	V44888.D	09/10/2009	21:15
OC-SB-460-0.0/1.0-XXX	360-24365-16	V44889.D	09/10/2009	21:39

MeCl2 @ 11.6 ug/kg
NO Samples Qualified

Dichlorodifluoromethane -52.2

Methyl Acetate 55.9%

Dichlorodifluoromethane 36%/32%

4-5-10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab File ID: V44920.D I-cal 9/8/09 BFB Injection Date: 09/12/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 12:07

Analysis Batch No.: 48878

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.0	
75	30.0 - 60.0 % of mass 95	50.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.8	
175	5.0 - 9.0 % of mass 174	5.3	(8.4)1
176	95.0 - 101.0 % of mass 174	63.4	(99.4)1
177	5.0 - 9.0 % of mass 176	4.3	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48878/2	V44921.D	09/12/2009	12:31
	LCS 360-48877/1-A	V44922.D	09/12/2009	12:55
	LCSD 360-48877/2-A	V44923.D	09/12/2009	13:19
	MB 360-48877/3-A	V44925.D	09/12/2009	14:06
OC-SB-447-18/20-XXX	360-24365-6	V44928.D	09/12/2009	15:19

OK

Dichlorodifluoromethane 58%/60%

Unknown @ 3.63 min

4-5-16 TR

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab File ID: V07455.D BFB Injection Date: 09/04/2009

Instrument ID: HP #3 GC/MS BFB Injection Time: 14:59

Analysis Batch No.: 48619

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	57.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.6	
175	5.0 - 9.0 % of mass 174	6.3	(7.0)1
176	95.0 - 101.0 % of mass 174	88.6	(97.9)1
177	5.0 - 9.0 % of mass 176	5.6	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48619/2	V07456.D	09/04/2009	15:22
	STD0005 360-48619/3	V07458.D	09/04/2009	16:08
	STD001 360-48619/4	V07459.D	09/04/2009	16:31
	STD005 360-48619/5	V07460.D	09/04/2009	16:53
	STD010 360-48619/6	V07461.D	09/04/2009	17:16
	STD040 360-48619/7	V07462.D	09/04/2009	17:39
	STD080 360-48619/8	V07463.D	09/04/2009	18:02
	ICV 360-48619/9	V07464.D	09/04/2009	18:25

4-6-10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab File ID: V07480.D I-cal 9-4-09 BFB Injection Date: 09/05/2009

Instrument ID: HP #3 GC/MS BFB Injection Time: 00:30

Analysis Batch No.: 48642

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.4	
75	30.0 - 60.0 % of mass 95	54.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.2	
175	5.0 - 9.0 % of mass 174	6.4	(7.1)1
176	95.0 - 101.0 % of mass 174	87.7	(97.2)1
177	5.0 - 9.0 % of mass 176	6.0	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48642/2	V07481.D	09/05/2009	00:52
	LCS 360-48640/1-A	V07482.D	09/05/2009	01:15
	LCSD 360-48640/2-A	V07483.D	09/05/2009	01:38
	MB 360-48640/3-A	V07485.D	09/05/2009	02:24
OC-SB-442-8.0/10-DUP	360-24365-3	V07489.D	09/05/2009	03:55
OC-SB-442-8.0/10-XXX	360-24365-4	V07490.D	09/05/2009	04:17
OC-SB-452-5.0/7.0-XXX	360-24365-10	V07491.D	09/05/2009	04:40
OC-SB-458-5.0/7.0-XXX	360-24365-15	V07492.D	09/05/2009	05:02
OC-SB-460-5.5/7.5-XXX	360-24365-18	V07493.D	09/05/2009	05:25
OC-SB-442-8.0/10-XXX MS	360-24365-4 MS	V07499.D	09/05/2009	07:40
OC-SB-442-8.0/10-XXX MSD	360-24365-4 MSD	V07500.D	09/05/2009	08:02

Acetone -31.9
2,44-TMP-1 -26.7

Unknown @3.60 min

Acetone 54%/68%
Dichlorodifluoromethane 44%/50%
Trichlorofluoromethane 65%

MS MSD
Acetone 67%/66%
Dichlorodifluoromethane 55%/60%

4-5-10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab File ID: V07507.D I-cal 9-4-09 BFB Injection Date: 09/08/2009

Instrument ID: HP #3 GC/MS BFB Injection Time: 09:28

Analysis Batch No.: 48655

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.6	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.7	
175	5.0 - 9.0 % of mass 174	6.6	(7.3)1
176	95.0 - 101.0 % of mass 174	90.0	(99.2)1
177	5.0 - 9.0 % of mass 176	5.9	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48655/2	V07508.D	09/08/2009	09:51
	LCS 360-48654/1-A	V07509.D	09/08/2009	10:14
	LCSD 360-48654/2-A	V07510.D	09/08/2009	10:36
	MB 360-48654/3-A	V07512.D	09/08/2009	11:21
OC-SB-447-3.0/5.0-XXX	360-24365-7	V07514.D	09/08/2009	12:07

1,4-Dioxae 57.3
Hexachlorobutadiene 36.8
Unknown @3.59min
Dichlorodifluoromethane 61%

4-5-10

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-442-0.0/1.0-XXX	360-24365-1	98	101	94
OC-SB-442-8.0/10-DUP	360-24365-3	103	97	105
OC-SB-442-8.0/10-XXX	360-24365-4	104	95	104
OC-SB-447-0.0/1.0-XXX	360-24365-5	101	100	100
OC-SB-447-18/20-XXX	360-24365-6	97	101	95
OC-SB-447-3.0/5.0-XXX	360-24365-7	103	97	96
OC-SB-452-0.0/1.0-XXX	360-24365-8	101	102	95
OC-SB-452-5.0/7.0-XXX	360-24365-10	105	99	107
OC-TBK-011	360-24365-11	103	99	103
OC-SB-458-0.0/1.0-XXX	360-24365-13	103	99	102
OC-SB-458-5.0/7.0-XXX	360-24365-15	104	98	103
OC-SB-460-0.0/1.0-XXX	360-24365-16	101	101	97
OC-SB-460-5.5/7.5-XXX	360-24365-18	105	94	105
OC-SB-PE-VS0355-VOC	360-24365-22	102	99	101
	MB 360-48640/3-A	104	99	102
	MB 360-48654/3-A	105	98	103
	MB 360-48765/3-A	101	99	103
	MB 360-48815/3-A	102	100	106
	MB 360-48877/3-A	105	99	105
	LCS 360-48640/1-A	99	100	97
	LCS 360-48654/1-A	101	99	100
	LCS 360-48765/1-A	100	99	97
	LCS 360-48815/1-A	97	102	94
	LCS 360-48877/1-A	99	101	96
	LCSD 360-48640/2-A	99	99	99
	LCSD 360-48654/2-A	101	101	100

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

TC 4-5-10

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
	LCSD 360-48765/2-A	99	99	98
	LCSD 360-48815/2-A	99	103	95
	LCSD 360-48877/2-A	100	100	97
OC-SB-442-8.0/10-X XX MS	360-24365-4 MS	103	102	104
OC-SB-442-8.0/10-X XX MSD	360-24365-4 MSD	100	101	100

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

TC 4-5-10

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Water Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-EBK-006	360-24365-12	109	97	89
	MB 360-48826/6	106	96	89
	LCS 360-48826/3	99	104	101
	LCSD 360-48826/4	99	104	101

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48816/2 Calibration Date: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44875.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2305		9.55	20.0	-52.2*	30.0
Chloromethane	Ave	0.9034	0.8553	0.1000	20.4	20.0	-5.3	30.0
Vinyl chloride	Ave	0.6300	0.5760		19.5	20.0	-8.6	20.0
Bromomethane	Ave	0.3127	0.3131		21.0	20.0	0.1	30.0
Chloroethane	Lin2		0.3289		20.4	20.0	1.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4684		18.1	20.0	-9.6	30.0
Ethyl ether	Ave	0.2603	0.2216		18.2	20.0	-14.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.2846		18.5	20.0	-11.1	20.0
Carbon disulfide	Ave	1.395	1.143		16.4	20.0	-18.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1542		16.6	20.0	-17.0	30.0
Acrolein	Ave	0.7836	0.7345		937	1000	-6.3	30.0
Methylene Chloride	Lin1		0.3470		19.9	20.0	-0.7	30.0
Acetone	Lin2		0.0556		213	200	6.3	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6346		18.0	20.0	-10.1	30.0
Methyl acetate	Lin1		0.2270		312	200	55.9*	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6083		17.4	20.0	-13.0	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3073		160	200	-19.9	30.0
Isopropyl ether	Ave	1.997	1.816		18.3	20.0	-9.1	30.0
1,1-Dichloroethane	Ave	0.7919	0.7324	0.1000	19.7	20.0	-7.5	30.0
Acrylonitrile	Lin1		0.0612		18.8	20.0	-6.2	30.0
Tert-butyl ethyl ether	Ave	1.194	1.097		18.4	20.0	-8.1	30.0
Vinyl acetate	Ave	0.5745	0.5475		191	200	-4.7	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5642		18.3	20.0	-8.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.5024		21.6	20.0	-6.5	30.0
Chlorobromomethane	Ave	0.1386	0.1282		18.5	20.0	-7.5	30.0
Cyclohexane	Ave	0.8898	0.7283		16.5	20.0	-18.2	30.0
Chloroform	Ave	0.6243	0.5702		19.5	20.0	-8.7	20.0
Carbon tetrachloride	Ave	0.3645	0.3404		18.6	20.0	-6.6	30.0
Tetrahydrofuran	Ave	0.0762	0.0669		191	200	-12.1	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4772		18.3	20.0	-7.7	30.0
2-Butanone (MEK)	Ave	0.0960	0.0916		203	200	-4.6	30.0
1,1-Dichloropropene	Ave	0.4990	0.4616		18.5	20.0	-7.5	30.0
Benzene	Ave	1.352	1.293		19.1	20.0	-4.3	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7189		18.9	20.0	-5.7	30.0
1,2-Dichloroethane	Ave	0.3253	0.2977		18.3	20.0	-8.5	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3139		18.3	20.0	-17.5	30.0
Methylcyclohexane	Ave	0.6300	0.5197		16.6	20.0	-17.5	30.0
Trichloroethene	Ave	0.3155	0.3014		19.9	20.0	-4.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1607		17.2	20.0	-14.2	30.0
Dibromomethane	Ave	0.1188	0.1126		18.9	20.0	-5.2	30.0

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48816/2 Calibration Date: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44875.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2986		21.2	20.0	-6.2	20.0
Dichlorobromomethane	Ave	0.3427	0.3249		18.8	20.0	-5.2	30.0
Methyl methacrylate	Ave	0.0864	0.0835		18.9	20.0	-3.3	30.0
1,4-Dioxane	Qua		0.0222		207	200	3.3	30.0
2-Chloroethyl vinyl ether	Lin		0.0748		387	200	93.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3909		19.7	20.0	-1.7	30.0
Toluene	Ave	0.7062	0.7026		20.5	20.0	-0.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1946		190	200	-5.0	30.0
Tetrachloroethene	Ave	0.1859	0.1936		20.8	20.0	4.1	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2861		19.7	20.0	-1.8	30.0
1,1,2-Trichloroethane	Lin1		0.1203		19.3	20.0	-3.7	30.0
Chlorodibromomethane	Ave	0.1504	0.1470		19.5	20.0	-2.3	30.0
1,3-Dichloropropane	Ave	0.2828	0.2753		19.5	20.0	-2.7	30.0
Ethylene Dibromide	Ave	0.1260	0.1235		19.6	20.0	-2.0	30.0
2-Hexanone	Ave	0.1294	0.1280		201	200	-1.1	30.0
Chlorobenzene	Ave	1.096	1.105	0.3000	20.3	20.0	0.8	30.0
Ethylbenzene	Ave	2.279	2.210		20.7	20.0	-3.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3324		20.1	20.0	-4.4	30.0
m-Xylene & p-Xylene	Ave	1.752	1.712		39.1	40.0	-2.3	30.0
o-Xylene	Ave	1.903	1.814		19.1	20.0	-4.7	30.0
Styrene	Ave	1.294	1.256		19.5	20.0	-2.9	30.0
Bromoform	Ave	0.3131	0.2942	0.1000	17.8	20.0	-6.1	20.0
Isopropylbenzene	Ave	2.255	2.238		19.9	20.0	-0.8	30.0
Bromobenzene	Ave	1.024	0.9299		18.2	20.0	-9.2	30.0
N-Propylbenzene	Ave	2.901	2.810		19.4	20.0	-3.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6107	0.3000	17.7	20.0	-10.8	30.0
2-Chlorotoluene	Ave	1.927	1.809		18.9	20.0	-6.1	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.810		19.6	20.0	-2.2	30.0
1,2,3-Trichloropropane	Lin2		0.0596		19.2	20.0	-4.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1012		19.0	20.0	-4.8	30.0
4-Chlorotoluene	Ave	1.683	1.598		18.9	20.0	-5.0	30.0
tert-Butylbenzene	Ave	1.471	1.461		19.8	20.0	-0.7	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.782		18.9	20.0	-4.9	30.0
sec-Butylbenzene	Ave	2.518	2.464		19.6	20.0	-2.1	30.0
4-Isopropyltoluene	Ave	1.894	1.871		19.7	20.0	-1.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7909		18.8	20.0	-6.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.716		19.3	20.0	-4.0	30.0
n-Butylbenzene	Ave	4.614	4.495		19.5	20.0	-2.6	30.0
1,2-Dichlorobenzene	Ave	1.492	1.412		18.9	20.0	-5.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0689		17.9	20.0	-10.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4859		18.8	20.0	-6.0	30.0

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48816/2 Calibration Date: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44875.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9230		18.9	20.0	-5.4	30.0
Naphthalene	Ave	1.288	1.172		18.2	20.0	-9.1	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7030		19.5	20.0	-2.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2261		19.4	20.0	-2.9	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9122		20.5	20.0	2.7	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5450		19.0	20.0	-4.9	30.0

4/5/16 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3807		15.8	20.0	-21.1	30.0
Chloromethane	Ave	0.9034	0.7000	0.1000	16.5	20.0	-22.5	30.0
Vinyl chloride	Ave	0.6300	0.4878		16.4	20.0	-22.6*	20.0
Bromomethane	Ave	0.3127	0.2577		17.3	20.0	-17.6	30.0
Chloroethane	Lin2		0.2777		16.9	20.0	-15.4	30.0
Trichlorofluoromethane	Ave	0.5183	0.4067		15.7	20.0	-21.5	30.0
Ethyl ether	Ave	0.2603	0.2193		18.0	20.0	-15.7	30.0
1,1-Dichloroethene	Ave	0.3201	0.2699		17.5	20.0	-15.7	20.0
Carbon disulfide	Ave	1.395	1.145		16.4	20.0	-18.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1556		16.8	20.0	-16.2	30.0
Acrolein	Ave	0.7836	0.6865		876	1000	-12.4	30.0
Methylene Chloride	Lin1		0.3167		18.0	20.0	-9.9	30.0
Acetone	Lin2		0.0593		227	200	13.5	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.5751		16.3	20.0	-18.5	30.0
Methyl acetate	Lin1		0.1613		222	200	10.8	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6100		17.4	20.0	-12.8	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2993		156	200	-21.9	30.0
Isopropyl ether	Ave	1.997	1.736		17.5	20.0	-13.1	30.0
1,1-Dichloroethane	Ave	0.7919	0.6546	0.1000	17.6	20.0	-17.3	30.0
Acrylonitrile	Lin1		0.0634		19.5	20.0	-2.6	30.0
Tert-butyl ethyl ether	Ave	1.194	1.057		17.7	20.0	-11.4	30.0
Vinyl acetate	Ave	0.5745	0.5212		181	200	-9.3	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5153		16.8	20.0	-16.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.4491		19.1	20.0	-16.4	30.0
Cyclohexane	Ave	0.8898	0.7159		16.2	20.0	-19.5	30.0
Chlorobromomethane	Ave	0.1386	0.1200		17.3	20.0	-13.4	30.0
Chloroform	Ave	0.6243	0.5025		17.2	20.0	-19.5	20.0
Carbon tetrachloride	Ave	0.3645	0.3163		17.3	20.0	-13.2	30.0
Tetrahydrofuran	Ave	0.0762	0.0687		197	200	-9.8	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4317		16.5	20.0	-16.5	30.0
2-Butanone (MEK)	Ave	0.0960	0.0919		203	200	-4.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4149		16.6	20.0	-16.8	30.0
Benzene	Ave	1.352	1.159		17.2	20.0	-14.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6945		18.2	20.0	-8.9	30.0
1,2-Dichloroethane	Ave	0.3253	0.2832		17.4	20.0	-13.0	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3159		18.4	20.0	-17.0	30.0
Methylcyclohexane	Ave	0.6300	0.5238		16.7	20.0	-16.9	30.0
Trichloroethene	Ave	0.3155	0.2655		17.5	20.0	-15.8	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1641		17.5	20.0	-12.3	30.0
Dibromomethane	Ave	0.1188	0.1047		17.5	20.0	-11.9	30.0

TC 4-5-09

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2688		19.1	20.0	-15.5	20.0
Dichlorobromomethane	Ave	0.3427	0.2893		16.8	20.0	-15.6	30.0
Methyl methacrylate	Ave	0.0864	0.0766		17.4	20.0	-11.3	30.0
1,4-Dioxane	Qua		0.0193		179	200	-10.5	30.0
2-Chloroethyl vinyl ether	Lin		0.0582		305	200	52.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3425		17.2	20.0	-13.8	30.0
Toluene	Ave	0.7062	0.6062		17.7	20.0	-14.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1893		185	200	-7.6	30.0
Tetrachloroethene	Ave	0.1859	0.1648		17.7	20.0	-11.3	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2551		17.5	20.0	-12.4	30.0
1,1,2-Trichloroethane	Lin1		0.1117		17.9	20.0	-10.4	30.0
Chlorodibromomethane	Ave	0.1504	0.1330		17.7	20.0	-11.6	30.0
1,3-Dichloropropane	Ave	0.2828	0.2486		17.6	20.0	-12.1	30.0
Ethylene Dibromide	Ave	0.1260	0.1121		17.8	20.0	-11.0	30.0
2-Hexanone	Ave	0.1294	0.1199		188	200	-7.3	30.0
Chlorobenzene	Ave	1.096	0.9706	0.3000	17.8	20.0	-11.4	30.0
Ethylbenzene	Ave	2.279	1.964		18.4	20.0	-13.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3074		18.5	20.0	-11.5	30.0
m-Xylene & p-Xylene	Ave	1.752	1.527		34.9	40.0	-12.9	30.0
o-Xylene	Ave	1.903	1.666		17.6	20.0	-12.5	30.0
Styrene	Ave	1.294	1.155		17.9	20.0	-10.8	30.0
Bromoform	Ave	0.3131	0.2788	0.1000	16.9	20.0	-11.0	20.0
Isopropylbenzene	Ave	2.255	2.019		17.9	20.0	-10.5	30.0
Bromobenzene	Ave	1.024	0.8796		17.3	20.0	-14.1	30.0
N-Propylbenzene	Ave	2.901	2.544		17.5	20.0	-12.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5992	0.3000	17.4	20.0	-12.5	30.0
2-Chlorotoluene	Ave	1.927	1.665		17.4	20.0	-13.6	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.671		18.1	20.0	-9.7	30.0
1,2,3-Trichloropropane	Lin2		0.0610		19.6	20.0	-1.9	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0982		18.5	20.0	-7.7	30.0
4-Chlorotoluene	Ave	1.683	1.457		17.2	20.0	-13.4	30.0
tert-Butylbenzene	Ave	1.471	1.348		18.3	20.0	-8.4	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.660		17.6	20.0	-11.4	30.0
sec-Butylbenzene	Ave	2.518	2.276		18.1	20.0	-9.6	30.0
4-Isopropyltoluene	Ave	1.894	1.716		18.1	20.0	-9.4	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7388		17.5	20.0	-12.2	30.0
1,4-Dichlorobenzene	Ave	1.788	1.553		17.4	20.0	-13.2	30.0
n-Butylbenzene	Ave	4.614	4.077		17.7	20.0	-11.6	30.0
1,2-Dichlorobenzene	Ave	1.492	1.313		17.6	20.0	-12.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0673		17.5	20.0	-12.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4388		17.0	20.0	-15.1	30.0

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.8609		17.7	20.0	-11.7	30.0
Naphthalene	Ave	1.288	1.128		17.5	20.0	-12.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6515		18.1	20.0	-9.7	30.0
Dibromofluoromethane	Ave	0.2328	0.2313		19.9	20.0	-0.7	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8911		20.1	20.0	0.3	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5556		19.4	20.0	-3.1	30.0

4-5-10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48642/2 Calibration Date: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3549	0.2860		16.1	20.0	-19.4	30.0
Chloromethane	Ave	0.3516	0.3507	0.1000	19.9	20.0	-0.3	30.0
Vinyl chloride	Lin		0.2850		21.1	20.0	5.6	20.0
Bromomethane	Ave	0.2017	0.2089		20.7	20.0	3.6	30.0
Chloroethane	Ave	0.1469	0.1456		19.8	20.0	-0.9	30.0
Trichlorofluoromethane	Ave	0.5103	0.4186		16.4	20.0	-18.0	30.0
Ethyl ether	Ave	0.1302	0.1256		19.3	20.0	-3.6	30.0
1,1-Dichloroethene	Lin		0.3983		19.3	20.0	-3.4	20.0
Carbon disulfide	Ave	0.7933	0.7843		19.8	20.0	-1.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2246	0.1730		15.4	20.0	-23.0	30.0
Acrolein	Ave	0.0337	0.0338		1000	1000	0.1	30.0
Methylene Chloride	Lin1		0.2578		22.0	20.0	10.2	30.0
Acetone	Qua		0.0266		136	200	-31.9*	30.0
trans-1,2-Dichloroethene	Ave	0.4029	0.4109		20.4	20.0	2.0	30.0
Methyl acetate	Ave	0.0693	0.0714		206	200	3.1	30.0
Methyl tert-butyl ether	Ave	0.4796	0.4973		20.7	20.0	3.7	30.0
2-Methyl-2-propanol	Ave	0.0251	0.0191		153	200	-23.7	30.0
Isopropyl ether	Ave	0.7012	0.7528		21.5	20.0	7.4	30.0
1,1-Dichloroethane	Ave	0.4775	0.4831	0.1000	20.2	20.0	1.2	30.0
Acrylonitrile	Ave	0.0301	0.0309		20.5	20.0	2.7	30.0
Tert-butyl ethyl ether	Ave	0.5985	0.6363		21.3	20.0	6.3	30.0
Vinyl acetate	Ave	0.2215	0.2269		205	200	2.5	30.0
cis-1,2-Dichloroethene	Ave	0.3646	0.3729		20.5	20.0	2.3	30.0
2,2-Dichloropropane	Ave	0.3560	0.3203		18.0	20.0	-10.0	30.0
Chlorobromomethane	Ave	0.1334	0.1353		20.3	20.0	1.4	30.0
Cyclohexane	Ave	0.3705	0.3343		18.0	20.0	-9.8	30.0
Chloroform	Lin		0.4858		20.6	20.0	2.8	20.0
Carbon tetrachloride	Ave	0.4677	0.4233		18.1	20.0	-9.5	30.0
Tetrahydrofuran	Ave	0.0320	0.0305		191	200	-4.5	30.0
1,1,1-Trichloroethane	Ave	0.4887	0.4603		18.8	20.0	-5.8	30.0
2-Butanone (MEK)	Ave	0.0420	0.0377		179	200	-10.3	30.0
1,1-Dichloropropene	Ave	0.3247	0.3178		19.6	20.0	-2.1	30.0
Benzene	Ave	0.8655	0.8925		20.6	20.0	3.1	30.0
Tert-amyl methyl ether	Ave	0.4485	0.4767		21.3	20.0	6.3	30.0
1,2-Dichloroethane	Ave	0.2867	0.2717		19.0	20.0	-5.2	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.2112	0.1548		14.7	20.0	-26.7	30.0
Methylcyclohexane	Ave	0.3984	0.3545		17.8	20.0	-11.0	30.0
Trichloroethene	Ave	0.2687	0.2639		19.6	20.0	-1.8	30.0
2,4,4-Trimethyl-2-pentene	Lin2		0.4230		16.4	20.0	-18.2	30.0
Dibromomethane	Ave	0.1028	0.1005		19.5	20.0	-2.3	30.0

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48642/2 Calibration Date: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2063		21.0	20.0	4.9	20.0
Dichlorobromomethane	Ave	0.3128	0.3080		19.7	20.0	-1.5	30.0
Methyl methacrylate	Ave	0.0557	0.0590		21.2	20.0	5.9	30.0
1,4-Dioxane	Qua		0.0006		191	200	-4.7	30.0
2-Chloroethyl vinyl ether	Lin1		0.0381		213	200	6.6	30.0
cis-1,3-Dichloropropene	Ave	0.2887	0.2938		20.4	20.0	1.8	30.0
Toluene	Ave	0.5358	0.5307		19.8	20.0	-0.9	20.0
Tetrachloroethene	Ave	0.2139	0.2049		19.2	20.0	-4.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0961	0.0964		201	200	0.3	30.0
trans-1,3-Dichloropropene	Ave	0.2493	0.2429		19.5	20.0	-2.6	30.0
1,1,2-Trichloroethane	Ave	0.1097	0.1097		20.0	20.0	0.0	30.0
Chlorodibromomethane	Ave	0.2068	0.2032		19.7	20.0	-1.7	30.0
1,3-Dichloropropane	Ave	0.2015	0.2027		20.1	20.0	0.6	30.0
Ethylene Dibromide	Ave	0.1243	0.1251		20.1	20.0	0.7	30.0
2-Hexanone	Ave	0.0677	0.0649		192	200	-4.2	30.0
Chlorobenzene	Ave	0.8153	0.8157	0.3000	20.0	20.0	0.0	30.0
Ethylbenzene	Ave	1.543	1.518		19.7	20.0	-1.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3374		20.4	20.0	2.0	30.0
m-Xylene & p-Xylene	Ave	1.222	1.255		41.1	40.0	2.6	30.0
o-Xylene	Ave	1.203	1.284		21.3	20.0	6.7	30.0
Styrene	Ave	0.8537	0.9114		21.4	20.0	6.8	30.0
Bromoform	Ave	0.3031	0.2945	0.1000	19.4	20.0	-2.8	20.0
Isopropylbenzene	Ave	1.477	1.563		21.2	20.0	5.8	30.0
Bromobenzene	Ave	0.6398	0.6520		20.4	20.0	1.9	30.0
N-Propylbenzene	Ave	1.839	1.843		20.0	20.0	0.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3430	0.3341	0.3000	19.5	20.0	-2.6	30.0
2-Chlorotoluene	Ave	1.244	1.275		20.5	20.0	2.5	30.0
1,3,5-Trimethylbenzene	Ave	1.293	1.334		20.6	20.0	3.1	30.0
1,2,3-Trichloropropane	Lin		0.1500		20.5	20.0	2.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0555	0.0547		19.7	20.0	-1.6	30.0
4-Chlorotoluene	Ave	1.124	1.154		20.5	20.0	2.6	30.0
tert-Butylbenzene	Ave	1.057	1.129		21.4	20.0	6.9	30.0
1,2,4-Trimethylbenzene	Ave	1.270	1.356		21.4	20.0	6.8	30.0
sec-Butylbenzene	Ave	1.577	1.611		20.4	20.0	2.2	30.0
4-Isopropyltoluene	Ave	1.281	1.342		21.0	20.0	4.8	30.0
1,3-Dichlorobenzene	Ave	0.7125	0.7417		20.8	20.0	4.1	30.0
1,4-Dichlorobenzene	Ave	1.274	1.271		19.9	20.0	-0.3	30.0
n-Butylbenzene	Ave	2.283	2.274		19.9	20.0	-0.4	30.0
1,2-Dichlorobenzene	Ave	1.066	1.081		20.3	20.0	1.3	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0579		19.2	20.0	-4.1	30.0
Hexachlorobutadiene	Qua		0.5219		23.8	20.0	18.8	30.0

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48642/2 Calibration Date: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.7037	0.7249		20.6	20.0	3.0	30.0
Naphthalene	Ave	0.8853	0.9618		21.7	20.0	8.6	30.0
1,2,3-Trichlorobenzene	Ave	0.5445	0.5640		20.7	20.0	3.6	30.0
Dibromofluoromethane	Ave	0.2974	0.2931		19.7	20.0	-1.4	30.0
Toluene-d8 (Surr)	Ave	1.029	1.024		19.9	20.0	-0.5	30.0
4-Bromofluorobenzene	Ave	0.5350	0.5322		19.9	20.0	-0.5	30.0

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48655/2 Calibration Date: 09/08/2009 09:51

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07508.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3549	0.4022		22.7	20.0	13.3	30.0
Chloromethane	Ave	0.3516	0.3499	0.1000	19.9	20.0	-0.5	30.0
Vinyl chloride	Lin		0.3168		23.6	20.0	18.0	20.0
Bromomethane	Ave	0.2017	0.2135		21.2	20.0	5.9	30.0
Chloroethane	Ave	0.1469	0.1560		21.2	20.0	6.2	30.0
Trichlorofluoromethane	Ave	0.5103	0.5690		22.3	20.0	11.5	30.0
Ethyl ether	Ave	0.1302	0.1349		20.7	20.0	3.5	30.0
1,1-Dichloroethene	Lin		0.4417		21.5	20.0	7.6	20.0
Carbon disulfide	Ave	0.7933	0.7861		19.8	20.0	-0.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2246	0.2378		21.2	20.0	5.9	30.0
Acrolein	Ave	0.0337	0.0399		1180	1000	18.1	30.0
Methylene Chloride	Lin1		0.2546		21.7	20.0	8.7	30.0
Acetone	Qua		0.0391		203	200	1.6	30.0
trans-1,2-Dichloroethene	Ave	0.4029	0.4261		21.2	20.0	5.8	30.0
Methyl acetate	Ave	0.0693	0.0744		215	200	7.4	30.0
Methyl tert-butyl ether	Ave	0.4796	0.5633		23.5	20.0	17.5	30.0
2-Methyl-2-propanol	Ave	0.0251	0.0302		241	200	20.5	30.0
Isopropyl ether	Ave	0.7012	0.7913		22.6	20.0	12.9	30.0
1,1-Dichloroethane	Ave	0.4775	0.4931	0.1000	20.7	20.0	3.3	30.0
Acrylonitrile	Ave	0.0301	0.0361		24.0	20.0	20.0	30.0
Tert-butyl ethyl ether	Ave	0.5985	0.7106		23.7	20.0	18.7	30.0
Vinyl acetate	Ave	0.2215	0.2646		239	200	19.5	30.0
cis-1,2-Dichloroethene	Ave	0.3646	0.3843		21.1	20.0	5.4	30.0
2,2-Dichloropropane	Ave	0.3560	0.3873		21.8	20.0	8.8	30.0
Chlorobromomethane	Ave	0.1334	0.1467		22.0	20.0	10.0	30.0
Cyclohexane	Ave	0.3705	0.4103		22.1	20.0	10.7	30.0
Chloroform	Lin		0.5183		22.0	20.0	9.9	20.0
Carbon tetrachloride	Ave	0.4677	0.5084		21.7	20.0	8.7	30.0
Tetrahydrofuran	Ave	0.0320	0.0354		221	200	10.6	30.0
1,1,1-Trichloroethane	Ave	0.4887	0.5193		21.3	20.0	6.3	30.0
2-Butanone (MEK)	Ave	0.0420	0.0467		222	200	11.2	30.0
1,1-Dichloropropene	Ave	0.3247	0.3611		22.2	20.0	11.2	30.0
Benzene	Ave	0.8655	0.9213		21.3	20.0	6.4	30.0
Tert-amyl methyl ether	Ave	0.4485	0.5483		24.5	20.0	22.3	30.0
1,2-Dichloroethane	Ave	0.2867	0.2994		20.9	20.0	4.4	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.2112	0.2166		20.5	20.0	2.6	30.0
Methylcyclohexane	Ave	0.3984	0.4527		22.7	20.0	13.6	30.0
Trichloroethene	Ave	0.2687	0.2770		20.6	20.0	3.1	30.0
2,4,4-Trimethyl-2-pentene	Lin2		0.5871		22.6	20.0	13.2	30.0
Dibromomethane	Ave	0.1028	0.1107		21.5	20.0	7.6	30.0

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48655/2 Calibration Date: 09/08/2009 09:51

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07508.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Lin		0.2103		21.4	20.0	7.0	20.0
Dichlorobromomethane	Ave	0.3128	0.3294		21.1	20.0	5.3	30.0
Methyl methacrylate	Ave	0.0557	0.0688		24.7	20.0	23.5	30.0
1,4-Dioxane	Qua		0.0011		315	200	57.3*	30.0
2-Chloroethyl vinyl ether	Lin1		0.0442		247	200	23.4	30.0
cis-1,3-Dichloropropene	Ave	0.2887	0.3253		22.5	20.0	12.7	30.0
Toluene	Ave	0.5358	0.5587		20.9	20.0	4.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0961	0.1129		235	200	17.5	30.0
Tetrachloroethene	Ave	0.2139	0.2322		21.7	20.0	8.6	30.0
trans-1,3-Dichloropropene	Ave	0.2493	0.2768		22.2	20.0	11.0	30.0
1,1,2-Trichloroethane	Ave	0.1097	0.1208		22.0	20.0	10.1	30.0
Chlorodibromomethane	Ave	0.2068	0.2283		22.1	20.0	10.4	30.0
1,3-Dichloropropane	Ave	0.2015	0.2295		22.8	20.0	13.9	30.0
Ethylene Dibromide	Ave	0.1243	0.1405		22.6	20.0	13.0	30.0
2-Hexanone	Ave	0.0677	0.0767		226	200	13.2	30.0
Chlorobenzene	Ave	0.8153	0.8348	0.3000	20.5	20.0	2.4	30.0
Ethylbenzene	Ave	1.543	1.553		20.1	20.0	0.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3471		21.0	20.0	5.0	30.0
m-Xylene & p-Xylene	Ave	1.222	1.264		41.4	40.0	3.4	30.0
o-Xylene	Ave	1.203	1.301		21.6	20.0	8.1	30.0
Styrene	Ave	0.8537	0.8990		21.1	20.0	5.3	30.0
Bromoform	Ave	0.3031	0.3247	0.1000	21.4	20.0	7.1	20.0
Isopropylbenzene	Ave	1.477	1.614		21.8	20.0	9.2	30.0
Bromobenzene	Ave	0.6398	0.6552		20.5	20.0	2.4	30.0
N-Propylbenzene	Ave	1.839	1.892		20.6	20.0	2.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3430	0.3633	0.3000	21.2	20.0	5.9	30.0
2-Chlorotoluene	Ave	1.244	1.291		20.7	20.0	3.7	30.0
1,3,5-Trimethylbenzene	Ave	1.293	1.368		21.2	20.0	5.8	30.0
1,2,3-Trichloropropane	Lin		0.1787		24.8	20.0	24.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0555	0.0637		22.9	20.0	14.7	30.0
4-Chlorotoluene	Ave	1.124	1.166		20.7	20.0	3.7	30.0
tert-Butylbenzene	Ave	1.057	1.178		22.3	20.0	11.5	30.0
1,2,4-Trimethylbenzene	Ave	1.270	1.364		21.5	20.0	7.4	30.0
sec-Butylbenzene	Ave	1.577	1.706		21.6	20.0	8.2	30.0
4-Isopropyltoluene	Ave	1.281	1.427		22.3	20.0	11.4	30.0
1,3-Dichlorobenzene	Ave	0.7125	0.7630		21.4	20.0	7.1	30.0
1,4-Dichlorobenzene	Ave	1.274	1.309		20.5	20.0	2.7	30.0
n-Butylbenzene	Ave	2.283	2.403		21.1	20.0	5.3	30.0
1,2-Dichlorobenzene	Ave	1.066	1.126		21.1	20.0	5.6	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0677		22.4	20.0	11.8	30.0
Hexachlorobutadiene	Qua		0.6173		27.4	20.0	36.8*	30.0

TC 4-5-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Lab Sample ID: CCVIS 360-48655/2 Calibration Date: 09/08/2009 09:51

Instrument ID: HP #3 GC/MS Calib Start Date: 09/04/2009 15:22

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/04/2009 18:02

Lab File ID: V07508.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.7037	0.8159		23.2	20.0	16.0	30.0
Naphthalene	Ave	0.8853	1.107		25.0	20.0	25.0	30.0
1,2,3-Trichlorobenzene	Ave	0.5445	0.6545		24.0	20.0	20.2	30.0
Dibromofluoromethane	Ave	0.2974	0.3019		20.3	20.0	1.5	30.0
Toluene-d8 (Surr)	Ave	1.029	1.040		20.2	20.0	1.1	30.0
4-Bromofluorobenzene	Ave	0.5350	0.5389		20.1	20.0	0.7	30.0

TC 4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07482.D

Lab ID: LCS 360-48640/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	83.7	84	70-130	
1,1,1,2-Tetrachloroethane	100	94.7	95	70-130	
1,1,2,2-Tetrachloroethane	100	95.4	95	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	70.1	70	70-130	
1,1,2-Trichloroethane	100	98.0	98	70-130	
1,1-Dichloroethane	100	94.7	95	70-130	
1,1-Dichloroethene	100	84.8	85	70-130	
1,1-Dichloropropene	100	91.7	92	70-130	
1,2,3-Trichlorobenzene	100	109	109	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	106	106	70-130	
1,2,4-Trimethylbenzene	100	94.4	94	70-130	
1,2-Dibromo-3-Chloropropane	100	98.8	99	70-130	
Ethylene Dibromide	100	101	101	70-130	
1,2-Dichlorobenzene	100	96.3	96	70-130	
1,2-Dichloroethane	100	94.8	95	70-130	
1,2-Dichloropropane	100	101	101	70-130	
1,3,5-Trimethylbenzene	100	93.0	93	70-130	
1,3-Dichlorobenzene	100	96.8	97	70-130	
1,3-Dichloropropane	100	101	101	70-130	
1,4-Dichlorobenzene	100	95.3	95	70-130	
1,4-Dioxane	1000	1150	115	70-130	
2,2-Dichloropropane	100	77.3	77	70-130	
2,4,4-Trimethyl-1-pentene	100	72.1	72	70-130	
2,4,4-Trimethyl-2-pentene	100	77.6	78	70-130	
2-Chlorotoluene	100	92.2	92	70-130	
2-Hexanone	1000	885	88	70-130	
4-Chlorotoluene	100	95.3	95	70-130	
Acetone	1000	538	54	70-130	*
Benzene	100	97.2	97	70-130	
Bromobenzene	100	93.7	94	70-130	
Chlorobromomethane	100	98.6	99	70-130	
Dichlorobromomethane	100	96.4	96	70-130	
Bromoform	100	97.3	97	70-130	
Bromomethane	100	81.5	81	70-130	
n-Butylbenzene	100	92.1	92	70-130	
Carbon disulfide	100	91.2	91	70-130	
Carbon tetrachloride	100	80.4	80	70-130	
Chlorobenzene	100	95.8	96	70-130	
Chloroethane	100	78.3	78	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4/5/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07482.D

Lab ID: LCS 360-48640/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	97.8	98	70-130	
Chloromethane	100	78.4	78	70-130	
cis-1,2-Dichloroethene	100	95.9	96	70-130	
cis-1,3-Dichloropropene	100	99.3	99	70-130	
Cyclohexane	100	85.0	85	70-130	
Chlorodibromomethane	100	94.8	95	70-130	
Dibromomethane	100	96.3	96	70-130	
Dichlorodifluoromethane	100	43.8	44	70-130	*
Ethyl ether	100	98.5	99	70-130	
Isopropyl ether	100	100	100	70-130	
Tert-butyl ethyl ether	100	102	102	70-130	
Ethylbenzene	100	91.2	91	70-130	
Hexachlorobutadiene	100	112	112	70-130	
Isopropylbenzene	100	94.5	95	70-130	
Methyl acetate	1000	1090	109	70-130	
2-Butanone (MEK)	1000	814	81	70-130	
4-Methyl-2-pentanone (MIBK)	1000	880	88	70-130	
Methyl tert-butyl ether	100	101	101	70-130	
Methylcyclohexane	100	83.3	83	70-130	
Methylene Chloride	100	103	103	70-130	
m-Xylene & p-Xylene	200	188	94	70-130	
Naphthalene	100	109	109	70-130	
N-Propylbenzene	100	90.7	91	70-130	
o-Xylene	100	96.8	97	70-130	
4-Isopropyltoluene	100	96.3	96	70-130	
sec-Butylbenzene	100	89.3	89	70-130	
Styrene	100	99.4	99	70-130	
Tert-amyl methyl ether	100	105	105	70-130	
tert-Butylbenzene	100	93.8	94	70-130	
Tetrachloroethene	100	89.6	90	70-130	
Tetrahydrofuran	1000	1010	101	70-130	
Toluene	100	94.3	94	70-130	
trans-1,2-Dichloroethene	100	91.4	91	70-130	
trans-1,3-Dichloropropene	100	101	101	70-130	
Trichloroethene	100	93.4	93	70-130	
Trichlorofluoromethane	100	64.9	65	70-130	*
Vinyl chloride	100	82.3	82	70-130	

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Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07483.D

Lab ID: LCSD 360-48640/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	91.7	92	9	25	70-130	
1,1,1,2-Tetrachloroethane	100	103	103	9	25	70-130	
1,1,2,2-Tetrachloroethane	100	105	105	9	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	77.9	78	11	25	70-130	
1,1,2-Trichloroethane	100	105	105	7	25	70-130	
1,1-Dichloroethane	100	102	102	7	25	70-130	
1,1-Dichloroethene	100	90.9	91	7	25	70-130	
1,1-Dichloropropene	100	98.1	98	7	25	70-130	
1,2,3-Trichlorobenzene	100	119	119	9	25	70-130	
1,2,3-Trichloropropane	100	123	123	13	25	70-130	
1,2,4-Trichlorobenzene	100	115	115	8	25	70-130	
1,2,4-Trimethylbenzene	100	104	104	10	25	70-130	
1,2-Dibromo-3-Chloropropane	100	109	109	10	25	70-130	
Ethylene Dibromide	100	108	108	7	25	70-130	
1,2-Dichlorobenzene	100	105	105	9	25	70-130	
1,2-Dichloroethane	100	101	101	6	25	70-130	
1,2-Dichloropropane	100	107	107	6	25	70-130	
1,3,5-Trimethylbenzene	100	103	103	10	25	70-130	
1,3-Dichlorobenzene	100	106	106	9	25	70-130	
1,3-Dichloropropane	100	108	108	7	25	70-130	
1,4-Dichlorobenzene	100	103	103	8	25	70-130	
1,4-Dioxane	1000	1490	149	26	25	70-130	*
2,2-Dichloropropane	100	88.5	89	14	25	70-130	
2,4,4-Trimethyl-1-pentene	100	77.5	77	7	25	70-130	
2,4,4-Trimethyl-2-pentene	100	84.2	84	8	25	70-130	
2-Chlorotoluene	100	102	102	11	25	70-130	
2-Hexanone	1000	950	95	7	25	70-130	
4-Chlorotoluene	100	105	105	10	25	70-130	
Acetone	1000	676	68	23	25	70-130	*
Benzene	100	105	105	7	25	70-130	
Bromobenzene	100	103	103	10	25	70-130	
Chlorobromomethane	100	107	107	8	25	70-130	
Dichlorobromomethane	100	102	102	6	25	70-130	
Bromoform	100	103	103	5	25	70-130	
Bromomethane	100	103	103	23	25	70-130	
n-Butylbenzene	100	99.6	100	8	25	70-130	
Carbon disulfide	100	98.3	98	8	25	70-130	
Carbon tetrachloride	100	87.2	87	8	25	70-130	
Chlorobenzene	100	102	102	6	25	70-130	
Chloroethane	100	96.0	96	20	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07483.D

Lab ID: LCSD 360-48640/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	104	104	6	25	70-130	
Chloromethane	100	93.1	93	17	25	70-130	
cis-1,2-Dichloroethene	100	105	105	9	25	70-130	
cis-1,3-Dichloropropene	100	104	104	5	25	70-130	
Cyclohexane	100	84.9	85	0	25	70-130	
Chlorodibromomethane	100	101	101	6	25	70-130	
Dibromomethane	100	105	105	9	25	70-130	
Dichlorodifluoromethane	100	50.0	50	13	25	70-130	*
Ethyl ether	100	108	108	9	25	70-130	
Isopropyl ether	100	110	110	10	25	70-130	
Tert-butyl ethyl ether	100	112	112	9	25	70-130	
Ethylbenzene	100	98.9	99	8	25	70-130	
Hexachlorobutadiene	100	120	120	7	25	70-130	
Isopropylbenzene	100	104	104	10	25	70-130	
Methyl acetate	1000	1110	111	2	25	70-130	
2-Butanone (MEK)	1000	907	91	11	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	974	97	10	25	70-130	
Methyl tert-butyl ether	100	110	110	9	25	70-130	
Methylcyclohexane	100	84.4	84	1	25	70-130	
Methylene Chloride	100	111	111	8	25	70-130	
m-Xylene & p-Xylene	200	202	101	8	25	70-130	
Naphthalene	100	118	118	8	25	70-130	
N-Propylbenzene	100	101	101	11	25	70-130	
o-Xylene	100	106	106	9	25	70-130	
4-Isopropyltoluene	100	108	108	12	25	70-130	
sec-Butylbenzene	100	99.2	99	10	25	70-130	
Styrene	100	107	107	7	25	70-130	
Tert-amyl methyl ether	100	116	116	10	25	70-130	
tert-Butylbenzene	100	105	105	11	25	70-130	
Tetrachloroethene	100	95.2	95	6	25	70-130	
Tetrahydrofuran	1000	1110	111	9	25	70-130	
Toluene	100	101	101	7	25	70-130	
trans-1,2-Dichloroethene	100	99.3	99	8	25	70-130	
trans-1,3-Dichloropropene	100	104	104	3	25	70-130	
Trichloroethene	100	99.8	100	7	25	70-130	
Trichlorofluoromethane	100	78.2	78	19	25	70-130	
Vinyl chloride	100	97.3	97	17	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07509.D

Lab ID: LCS 360-48654/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	103	103	70-130	
1,1,1,2-Tetrachloroethane	100	102	102	70-130	
1,1,2,2-Tetrachloroethane	100	96.2	96	70-130	
1,1,2-Trichloro-1,2,2-trifluor oethane	100	104	104	70-130	
1,1,2-Trichloroethane	100	99.1	99	70-130	
1,1-Dichloroethane	100	104	104	70-130	
1,1-Dichloroethene	100	106	106	70-130	
1,1-Dichloropropene	100	113	113	70-130	
1,2,3-Trichlorobenzene	100	117	117	70-130	
1,2,3-Trichloropropane	100	126	126	70-130	
1,2,4-Trichlorobenzene	100	117	117	70-130	
1,2,4-Trimethylbenzene	100	104	104	70-130	
1,2-Dibromo-3-Chloropropane	100	101	101	70-130	
Ethylene Dibromide	100	104	104	70-130	
1,2-Dichlorobenzene	100	103	103	70-130	
1,2-Dichloroethane	100	100	100	70-130	
1,2-Dichloropropane	100	105	105	70-130	
1,3,5-Trimethylbenzene	100	106	106	70-130	
1,3-Dichlorobenzene	100	108	108	70-130	
1,3-Dichloropropane	100	103	103	70-130	
1,4-Dichlorobenzene	100	102	102	70-130	
1,4-Dioxane	1000	1480	148	70-130	*
2,2-Dichloropropane	100	103	103	70-130	
2,4,4-Trimethyl-1-pentene	100	105	105	70-130	
2,4,4-Trimethyl-2-pentene	100	119	119	70-130	
2-Chlorotoluene	100	101	101	70-130	
2-Hexanone	1000	914	91	70-130	
4-Chlorotoluene	100	106	106	70-130	
Acetone	1000	748	75	70-130	
Benzene	100	104	104	70-130	
Bromobenzene	100	101	101	70-130	
Chlorobromomethane	100	106	106	70-130	
Dichlorobromomethane	100	101	101	70-130	
Bromoform	100	97.0	97	70-130	
Bromomethane	100	97.2	97	70-130	
n-Butylbenzene	100	107	107	70-130	
Carbon disulfide	100	106	106	70-130	
Carbon tetrachloride	100	105	105	70-130	
Chlorobenzene	100	101	101	70-130	
Chloroethane	100	98.3	98	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07509.D

Lab ID: LCS 360-48654/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	108	108	70-130	
Chloromethane	100	89.5	90	70-130	
cis-1,2-Dichloroethene	100	107	107	70-130	
cis-1,3-Dichloropropene	100	106	106	70-130	
Cyclohexane	100	118	118	70-130	
Chlorodibromomethane	100	98.6	99	70-130	
Dibromomethane	100	102	102	70-130	
Dichlorodifluoromethane	100	70.3	70	70-130	
Ethyl ether	100	105	105	70-130	
Isopropyl ether	100	107	107	70-130	
Tert-butyl ethyl ether	100	112	112	70-130	
Ethylbenzene	100	100	100	70-130	
Hexachlorobutadiene	100	136	136	70-130	*
Isopropylbenzene	100	107	107	70-130	
Methyl acetate	1000	1090	109	70-130	
2-Butanone (MEK)	1000	909	91	70-130	
4-Methyl-2-pentanone (MIBK)	1000	976	98	70-130	
Methyl tert-butyl ether	100	107	107	70-130	
Methylcyclohexane	100	118	118	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	203	102	70-130	
Naphthalene	100	114	114	70-130	
N-Propylbenzene	100	105	105	70-130	
o-Xylene	100	106	106	70-130	
4-Isopropyltoluene	100	116	116	70-130	
sec-Butylbenzene	100	109	109	70-130	
Styrene	100	104	104	70-130	
Tert-amyl methyl ether	100	113	113	70-130	
tert-Butylbenzene	100	111	111	70-130	
Tetrachloroethene	100	106	106	70-130	
Tetrahydrofuran	1000	1060	106	70-130	
Toluene	100	100	100	70-130	
trans-1,2-Dichloroethene	100	103	103	70-130	
trans-1,3-Dichloropropene	100	104	104	70-130	
Trichloroethene	100	105	105	70-130	
Trichlorofluoromethane	100	102	102	70-130	
Vinyl chloride	100	106	106	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07510.D

Lab ID: LCSD 360-48654/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	98.8	99	5	25	70-130	
1,1,1,2-Tetrachloroethane	100	97.9	98	4	25	70-130	
1,1,2,2-Tetrachloroethane	100	97.1	97	1	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	92.4	92	12	25	70-130	
1,1,2-Trichloroethane	100	101	101	2	25	70-130	
1,1-Dichloroethane	100	97.5	97	6	25	70-130	
1,1-Dichloroethene	100	97.5	98	8	25	70-130	
1,1-Dichloropropene	100	102	102	10	25	70-130	
1,2,3-Trichlorobenzene	100	120	120	2	25	70-130	
1,2,3-Trichloropropane	100	115	115	8	25	70-130	
1,2,4-Trichlorobenzene	100	116	116	1	25	70-130	
1,2,4-Trimethylbenzene	100	100	100	4	25	70-130	
1,2-Dibromo-3-Chloropropane	100	110	110	9	25	70-130	
Ethylene Dibromide	100	106	106	2	25	70-130	
1,2-Dichlorobenzene	100	99.4	99	4	25	70-130	
1,2-Dichloroethane	100	94.6	95	6	25	70-130	
1,2-Dichloropropane	100	99.7	100	5	25	70-130	
1,3,5-Trimethylbenzene	100	99.6	100	6	25	70-130	
1,3-Dichlorobenzene	100	102	102	5	25	70-130	
1,3-Dichloropropane	100	102	102	0	25	70-130	
1,4-Dichlorobenzene	100	96.0	96	6	25	70-130	
1,4-Dioxane	1000	1910	191	25	25	70-130	*
2,2-Dichloropropane	100	106	106	2	25	70-130	
2,4,4-Trimethyl-1-pentene	100	94.0	94	12	25	70-130	
2,4,4-Trimethyl-2-pentene	100	102	102	15	25	70-130	
2-Chlorotoluene	100	97.5	97	4	25	70-130	
2-Hexanone	1000	936	94	2	25	70-130	
4-Chlorotoluene	100	98.9	99	7	25	70-130	
Acetone	1000	699	70	7	25	70-130	
Benzene	100	99.6	100	5	25	70-130	
Bromobenzene	100	96.9	97	4	25	70-130	
Chlorobromomethane	100	104	104	2	25	70-130	
Dichlorobromomethane	100	96.3	96	5	25	70-130	
Bromoform	100	96.1	96	1	25	70-130	
Bromomethane	100	96.4	96	1	25	70-130	
n-Butylbenzene	100	99.3	99	7	25	70-130	
Carbon disulfide	100	100	100	6	25	70-130	
Carbon tetrachloride	100	97.8	98	7	25	70-130	
Chlorobenzene	100	94.7	95	6	25	70-130	
Chloroethane	100	90.5	91	8	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07510.D

Lab ID: LCSD 360-48654/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	100	100	7	25	70-130	
Chloromethane	100	86.1	86	4	25	70-130	
cis-1,2-Dichloroethene	100	102	102	5	25	70-130	
cis-1,3-Dichloropropene	100	99.9	100	6	25	70-130	
Cyclohexane	100	118	118	0	25	70-130	
Chlorodibromomethane	100	98.9	99	0	25	70-130	
Dibromomethane	100	99.2	99	2	25	70-130	
Dichlorodifluoromethane	100	60.6	61	15	25	70-130	*
Ethyl ether	100	104	104	1	25	70-130	
Isopropyl ether	100	106	106	1	25	70-130	
Tert-butyl ethyl ether	100	112	112	0	25	70-130	
Ethylbenzene	100	93.3	93	7	25	70-130	
Hexachlorobutadiene	100	129	129	5	25	70-130	
Isopropylbenzene	100	102	102	5	25	70-130	
Methyl acetate	1000	1190	119	8	25	70-130	
2-Butanone (MEK)	1000	884	88	3	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	988	99	1	25	70-130	
Methyl tert-butyl ether	100	112	112	4	25	70-130	
Methylcyclohexane	100	118	118	0	25	70-130	
Methylene Chloride	100	102	102	3	25	70-130	
m-Xylene & p-Xylene	200	192	96	6	25	70-130	
Naphthalene	100	120	120	5	25	70-130	
N-Propylbenzene	100	96.7	97	8	25	70-130	
o-Xylene	100	99.3	99	6	25	70-130	
4-Isopropyltoluene	100	109	109	6	25	70-130	
sec-Butylbenzene	100	101	101	7	25	70-130	
Styrene	100	99.0	99	5	25	70-130	
Tert-amyl methyl ether	100	117	117	3	25	70-130	
tert-Butylbenzene	100	104	104	6	25	70-130	
Tetrachloroethene	100	99.7	100	6	25	70-130	
Tetrahydrofuran	1000	1090	109	2	25	70-130	
Toluene	100	96.5	97	4	25	70-130	
trans-1,2-Dichloroethene	100	97.2	97	6	25	70-130	
trans-1,3-Dichloropropene	100	102	102	2	25	70-130	
Trichloroethene	100	93.5	94	12	25	70-130	
Trichlorofluoromethane	100	91.0	91	12	25	70-130	
Vinyl chloride	100	94.5	94	12	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V44876.D

Lab ID: LCS 360-48815/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	93.4	93	70-130	
1,1,1,2-Tetrachloroethane	100	99.0	99	70-130	
1,1,2,2-Tetrachloroethane	100	83.8	84	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	84.0	84	70-130	
1,1,2-Trichloroethane	100	88.0	88	70-130	
1,1-Dichloroethane	100	101	101	70-130	
1,1-Dichloroethene	100	96.2	96	70-130	
1,1-Dichloropropene	100	93.2	93	70-130	
1,2,3-Trichlorobenzene	100	97.7	98	70-130	
1,2,3-Trichloropropane	100	101	101	70-130	
1,2,4-Trichlorobenzene	100	99.3	99	70-130	
1,2,4-Trimethylbenzene	100	94.5	94	70-130	
1,2-Dibromo-3-Chloropropane	100	85.9	86	70-130	
Ethylene Dibromide	100	90.2	90	70-130	
1,2-Dichlorobenzene	100	95.3	95	70-130	
1,2-Dichloroethane	100	86.0	86	70-130	
1,2-Dichloropropane	100	101	101	70-130	
1,3,5-Trimethylbenzene	100	99.6	100	70-130	
1,3-Dichlorobenzene	100	94.4	94	70-130	
1,3-Dichloropropane	100	87.0	87	70-130	
1,4-Dichlorobenzene	100	97.7	98	70-130	
1,4-Dioxane	1000	1020	102	70-130	
2,2-Dichloropropane	100	112	112	70-130	
2,4,4-Trimethyl-1-pentene	100	95.7	96	70-130	
2,4,4-Trimethyl-2-pentene	100	89.5	90	70-130	
2-Chlorotoluene	100	94.4	94	70-130	
2-Hexanone	1000	768	77	70-130	
4-Chlorotoluene	100	96.0	96	70-130	
Acetone	1000	855	85	70-130	
Benzene	100	95.1	95	70-130	
Bromobenzene	100	90.9	91	70-130	
Chlorobromomethane	100	90.9	91	70-130	
Dichlorobromomethane	100	89.7	90	70-130	
Bromoform	100	83.1	83	70-130	
Bromomethane	100	107	107	70-130	
n-Butylbenzene	100	103	103	70-130	
Carbon disulfide	100	92.9	93	70-130	
Carbon tetrachloride	100	92.0	92	70-130	
Chlorobenzene	100	100	100	70-130	
Chloroethane	100	99.7	100	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
45.10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V44876.D

Lab ID: LCS 360-48815/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	95.5	96	70-130	
Chloromethane	100	95.0	95	70-130	
cis-1,2-Dichloroethene	100	94.0	94	70-130	
cis-1,3-Dichloropropene	100	89.4	89	70-130	
Cyclohexane	100	87.9	88	70-130	
Chlorodibromomethane	100	87.0	87	70-130	
Dibromomethane	100	87.9	88	70-130	
Dichlorodifluoromethane	100	36.5	36	70-130	*
Ethyl ether	100	91.1	91	70-130	
Isopropyl ether	100	89.1	89	70-130	
Tert-butyl ethyl ether	100	88.4	88	70-130	
Ethylbenzene	100	104	104	70-130	
Hexachlorobutadiene	100	98.8	99	70-130	
Isopropylbenzene	100	101	101	70-130	
Methyl acetate	1000	923	92	70-130	
2-Butanone (MEK)	1000	766	77	70-130	
4-Methyl-2-pentanone (MIBK)	1000	793	79	70-130	
Methyl tert-butyl ether	100	82.7	83	70-130	
Methylcyclohexane	100	89.8	90	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	194	97	70-130	
Naphthalene	100	87.7	88	70-130	
N-Propylbenzene	100	98.1	98	70-130	
o-Xylene	100	95.3	95	70-130	
4-Isopropyltoluene	100	104	104	70-130	
sec-Butylbenzene	100	100	100	70-130	
Styrene	100	95.7	96	70-130	
Tert-amyl methyl ether	100	89.4	89	70-130	
tert-Butylbenzene	100	102	102	70-130	
Tetrachloroethene	100	102	102	70-130	
Tetrahydrofuran	1000	916	92	70-130	
Toluene	100	100	100	70-130	
trans-1,2-Dichloroethene	100	91.7	92	70-130	
trans-1,3-Dichloropropene	100	90.8	91	70-130	
Trichloroethene	100	100	100	70-130	
Trichlorofluoromethane	100	87.9	88	70-130	
Vinyl chloride	100	92.7	93	70-130	

TC
4-5-10

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V44877.D

Lab ID: LCSD 360-48815/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	90.1	90	4	25	70-130	
1,1,1,2-Tetrachloroethane	100	96.1	96	3	25	70-130	
1,1,2,2-Tetrachloroethane	100	83.9	84	0	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	81.3	81	3	25	70-130	
1,1,2-Trichloroethane	100	91.5	91	4	25	70-130	
1,1-Dichloroethane	100	96.7	97	4	25	70-130	
1,1-Dichloroethene	100	93.6	94	3	25	70-130	
1,1-Dichloropropene	100	89.7	90	4	25	70-130	
1,2,3-Trichlorobenzene	100	99.3	99	2	25	70-130	
1,2,3-Trichloropropane	100	104	104	3	25	70-130	
1,2,4-Trichlorobenzene	100	99.1	99	0	25	70-130	
1,2,4-Trimethylbenzene	100	92.3	92	2	25	70-130	
1,2-Dibromo-3-Chloropropane	100	88.8	89	3	25	70-130	
Ethylene Dibromide	100	95.0	95	5	25	70-130	
1,2-Dichlorobenzene	100	93.0	93	2	25	70-130	
1,2-Dichloroethane	100	90.3	90	5	25	70-130	
1,2-Dichloropropane	100	102	102	1	25	70-130	
1,3,5-Trimethylbenzene	100	95.1	95	5	25	70-130	
1,3-Dichlorobenzene	100	93.6	94	1	25	70-130	
1,3-Dichloropropane	100	91.0	91	5	25	70-130	
1,4-Dichlorobenzene	100	94.9	95	3	25	70-130	
1,4-Dioxane	1000	1040	104	1	25	70-130	
2,2-Dichloropropane	100	108	108	4	25	70-130	
2,4,4-Trimethyl-1-pentene	100	91.4	91	5	25	70-130	
2,4,4-Trimethyl-2-pentene	100	87.0	87	3	25	70-130	
2-Chlorotoluene	100	91.7	92	3	25	70-130	
2-Hexanone	1000	824	82	7	25	70-130	
4-Chlorotoluene	100	92.6	93	4	25	70-130	
Acetone	1000	925	93	8	25	70-130	
Benzene	100	92.4	92	3	25	70-130	
Bromobenzene	100	89.0	89	2	25	70-130	
Chlorobromomethane	100	93.3	93	3	25	70-130	
Dichlorobromomethane	100	90.3	90	1	25	70-130	
Bromoform	100	84.2	84	1	25	70-130	
Bromomethane	100	97.4	97	10	25	70-130	
n-Butylbenzene	100	95.9	96	7	25	70-130	
Carbon disulfide	100	89.6	90	4	25	70-130	
Carbon tetrachloride	100	89.8	90	2	25	70-130	
Chlorobenzene	100	95.5	96	5	25	70-130	
Chloroethane	100	93.6	94	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V44877.D

Lab ID: LCSD 360-48815/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	95.6	96	0	25	70-130	
Chloromethane	100	88.6	89	7	25	70-130	
cis-1,2-Dichloroethene	100	91.5	92	3	25	70-130	
cis-1,3-Dichloropropene	100	89.9	90	0	25	70-130	
Cyclohexane	100	86.6	87	2	25	70-130	
Chlorodibromomethane	100	88.7	89	2	25	70-130	
Dibromomethane	100	89.5	89	2	25	70-130	
Dichlorodifluoromethane	100	31.6	32	14	25	70-130	*
Ethyl ether	100	96.8	97	6	25	70-130	
Isopropyl ether	100	89.1	89	0	25	70-130	
Tert-butyl ethyl ether	100	90.4	90	2	25	70-130	
Ethylbenzene	100	98.3	98	5	25	70-130	
Hexachlorobutadiene	100	95.2	95	4	25	70-130	
Isopropylbenzene	100	95.5	95	6	25	70-130	
Methyl acetate	1000	1060	106	14	25	70-130	
2-Butanone (MEK)	1000	840	84	9	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	850	85	7	25	70-130	
Methyl tert-butyl ether	100	87.3	87	5	25	70-130	
Methylcyclohexane	100	89.8	90	0	25	70-130	
Methylene Chloride	100	104	104	0	25	70-130	
m-Xylene & p-Xylene	200	185	93	5	25	70-130	
Naphthalene	100	90.5	90	3	25	70-130	
N-Propylbenzene	100	94.2	94	4	25	70-130	
o-Xylene	100	91.9	92	4	25	70-130	
4-Isopropyltoluene	100	100	100	3	25	70-130	
sec-Butylbenzene	100	94.3	94	6	25	70-130	
Styrene	100	91.3	91	5	25	70-130	
Tert-amyl methyl ether	100	91.5	92	2	25	70-130	
tert-Butylbenzene	100	98.2	98	4	25	70-130	
Tetrachloroethene	100	100	100	2	25	70-130	
Tetrahydrofuran	1000	991	99	8	25	70-130	
Toluene	100	97.1	97	3	25	70-130	
trans-1,2-Dichloroethene	100	87.4	87	5	25	70-130	
trans-1,3-Dichloropropene	100	93.6	94	3	25	70-130	
Trichloroethene	100	96.3	96	4	25	70-130	
Trichlorofluoromethane	100	84.2	84	4	25	70-130	
Vinyl chloride	100	87.7	88	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V44922.D

Lab ID: LCS 360-48877/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	87.9	88	70-130	
1,1,1,2-Tetrachloroethane	100	96.9	97	70-130	
1,1,2,2-Tetrachloroethane	100	87.2	87	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	88.3	88	70-130	
1,1,2-Trichloroethane	100	91.3	91	70-130	
1,1-Dichloroethane	100	95.0	95	70-130	
1,1-Dichloroethene	100	95.1	95	70-130	
1,1-Dichloropropene	100	90.0	90	70-130	
1,2,3-Trichlorobenzene	100	99.1	99	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	99.0	99	70-130	
1,2,4-Trimethylbenzene	100	92.0	92	70-130	
1,2-Dibromo-3-Chloropropane	100	90.6	91	70-130	
Ethylene Dibromide	100	93.3	93	70-130	
1,2-Dichlorobenzene	100	93.0	93	70-130	
1,2-Dichloroethane	100	89.2	89	70-130	
1,2-Dichloropropane	100	102	102	70-130	
1,3,5-Trimethylbenzene	100	95.5	95	70-130	
1,3-Dichlorobenzene	100	92.5	92	70-130	
1,3-Dichloropropane	100	89.5	90	70-130	
1,4-Dichlorobenzene	100	93.6	94	70-130	
1,4-Dioxane	1000	861	86	70-130	
2,2-Dichloropropane	100	103	103	70-130	
2,4,4-Trimethyl-1-pentene	100	102	102	70-130	
2,4,4-Trimethyl-2-pentene	100	95.3	95	70-130	
2-Chlorotoluene	100	91.7	92	70-130	
2-Hexanone	1000	811	81	70-130	
4-Chlorotoluene	100	93.1	93	70-130	
Acetone	1000	922	92	70-130	
Benzene	100	91.3	91	70-130	
Bromobenzene	100	89.3	89	70-130	
Chlorobromomethane	100	90.2	90	70-130	
Dichlorobromomethane	100	89.3	89	70-130	
Bromoform	100	84.9	85	70-130	
Bromomethane	100	94.5	95	70-130	
n-Butylbenzene	100	97.5	98	70-130	
Carbon disulfide	100	91.6	92	70-130	
Carbon tetrachloride	100	90.9	91	70-130	
Chlorobenzene	100	95.6	96	70-130	
Chloroethane	100	90.6	91	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TR
4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V44922.D

Lab ID: LCS 360-48877/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	95.3	95	70-130	
Chloromethane	100	83.1	83	70-130	
cis-1,2-Dichloroethene	100	90.4	90	70-130	
cis-1,3-Dichloropropene	100	89.6	90	70-130	
Cyclohexane	100	88.6	89	70-130	
Chlorodibromomethane	100	87.8	88	70-130	
Dibromomethane	100	91.1	91	70-130	
Dichlorodifluoromethane	100	57.8	58	70-130	*
Ethyl ether	100	96.8	97	70-130	
Isopropyl ether	100	88.4	88	70-130	
Tert-butyl ethyl ether	100	90.9	91	70-130	
Ethylbenzene	100	98.8	99	70-130	
Hexachlorobutadiene	100	96.0	96	70-130	
Isopropylbenzene	100	96.3	96	70-130	
Methyl acetate	1000	1040	104	70-130	
2-Butanone (MEK)	1000	842	84	70-130	
4-Methyl-2-pentanone (MIBK)	1000	849	85	70-130	
Methyl tert-butyl ether	100	87.2	87	70-130	
Methylcyclohexane	100	91.2	91	70-130	
Methylene Chloride	100	94.1	94	70-130	
m-Xylene & p-Xylene	200	187	93	70-130	
Naphthalene	100	88.4	88	70-130	
N-Propylbenzene	100	94.9	95	70-130	
o-Xylene	100	92.9	93	70-130	
4-Isopropyltoluene	100	99.6	100	70-130	
sec-Butylbenzene	100	96.3	96	70-130	
Styrene	100	92.8	93	70-130	
Tert-amyl methyl ether	100	91.5	91	70-130	
tert-Butylbenzene	100	98.0	98	70-130	
Tetrachloroethene	100	98.4	98	70-130	
Tetrahydrofuran	1000	1010	101	70-130	
Toluene	100	95.0	95	70-130	
trans-1,2-Dichloroethene	100	86.3	86	70-130	
trans-1,3-Dichloropropene	100	91.6	92	70-130	
Trichloroethene	100	95.2	95	70-130	
Trichlorofluoromethane	100	87.3	87	70-130	
Vinyl chloride	100	86.8	87	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V44923.D

Lab ID: LCSD 360-48877/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	92.3	92	5	25	70-130	
1,1,1,2-Tetrachloroethane	100	104	104	7	25	70-130	
1,1,2,2-Tetrachloroethane	100	92.9	93	6	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	96.1	96	8	25	70-130	
1,1,2-Trichloroethane	100	97.2	97	6	25	70-130	
1,1-Dichloroethane	100	98.8	99	4	25	70-130	
1,1-Dichloroethene	100	100	100	5	25	70-130	
1,1-Dichloropropene	100	95.7	96	6	25	70-130	
1,2,3-Trichlorobenzene	100	112	112	13	25	70-130	
1,2,3-Trichloropropane	100	116	116	8	25	70-130	
1,2,4-Trichlorobenzene	100	109	109	10	25	70-130	
1,2,4-Trimethylbenzene	100	97.9	98	6	25	70-130	
1,2-Dibromo-3-Chloropropane	100	104	104	14	25	70-130	
Ethylene Dibromide	100	98.7	99	6	25	70-130	
1,2-Dichlorobenzene	100	98.9	99	6	25	70-130	
1,2-Dichloroethane	100	96.4	96	8	25	70-130	
1,2-Dichloropropane	100	106	106	3	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	6	25	70-130	
1,3-Dichlorobenzene	100	101	101	9	25	70-130	
1,3-Dichloropropane	100	95.2	95	6	25	70-130	
1,4-Dichlorobenzene	100	97.4	97	4	25	70-130	
1,4-Dioxane	1000	1030	103	18	25	70-130	
2,2-Dichloropropane	100	110	110	6	25	70-130	
2,4,4-Trimethyl-1-pentene	100	107	107	5	25	70-130	
2,4,4-Trimethyl-2-pentene	100	100	100	5	25	70-130	
2-Chlorotoluene	100	97.2	97	6	25	70-130	
2-Hexanone	1000	885	89	9	25	70-130	
4-Chlorotoluene	100	99.1	99	6	25	70-130	
Acetone	1000	1020	102	11	25	70-130	
Benzene	100	95.6	96	5	25	70-130	
Bromobenzene	100	95.6	96	7	25	70-130	
Chlorobromomethane	100	97.7	98	8	25	70-130	
Dichlorobromomethane	100	94.1	94	5	25	70-130	
Bromoform	100	88.6	89	4	25	70-130	
Bromomethane	100	100	100	6	25	70-130	
n-Butylbenzene	100	100	100	3	25	70-130	
Carbon disulfide	100	96.1	96	5	25	70-130	
Carbon tetrachloride	100	95.1	95	5	25	70-130	
Chlorobenzene	100	99.8	100	4	25	70-130	
Chloroethane	100	95.2	95	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4-5-10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V44923.D

Lab ID: LCSD 360-48877/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	99.3	99	4	25	70-130	
Chloromethane	100	90.1	90	8	25	70-130	
cis-1,2-Dichloroethene	100	94.8	95	5	25	70-130	
cis-1,3-Dichloropropene	100	92.7	93	3	25	70-130	
Cyclohexane	100	90.9	91	3	25	70-130	
Chlorodibromomethane	100	92.7	93	5	25	70-130	
Dibromomethane	100	97.3	97	7	25	70-130	
Dichlorodifluoromethane	100	60.0	60	4	25	70-130	*
Ethyl ether	100	103	103	6	25	70-130	
Isopropyl ether	100	93.8	94	6	25	70-130	
Tert-butyl ethyl ether	100	97.7	98	7	25	70-130	
Ethylbenzene	100	103	103	4	25	70-130	
Hexachlorobutadiene	100	101	101	5	25	70-130	
Isopropylbenzene	100	101	101	5	25	70-130	
Methyl acetate	1000	1200	120	14	25	70-130	
2-Butanone (MEK)	1000	923	92	9	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	942	94	10	25	70-130	
Methyl tert-butyl ether	100	95.7	96	9	25	70-130	
Methylcyclohexane	100	95.3	95	4	25	70-130	
Methylene Chloride	100	99.7	100	6	25	70-130	
m-Xylene & p-Xylene	200	195	98	4	25	70-130	
Naphthalene	100	101	101	14	25	70-130	
N-Propylbenzene	100	99.3	99	5	25	70-130	
o-Xylene	100	97.5	98	5	25	70-130	
4-Isopropyltoluene	100	107	107	7	25	70-130	
sec-Butylbenzene	100	103	103	6	25	70-130	
Styrene	100	97.6	98	5	25	70-130	
Tert-amyl methyl ether	100	100	100	9	25	70-130	
tert-Butylbenzene	100	104	104	6	25	70-130	
Tetrachloroethene	100	102	102	4	25	70-130	
Tetrahydrofuran	1000	1110	111	9	25	70-130	
Toluene	100	98.7	99	4	25	70-130	
trans-1,2-Dichloroethene	100	91.0	91	5	25	70-130	
trans-1,3-Dichloropropene	100	94.9	95	4	25	70-130	
Trichloroethene	100	98.8	99	4	25	70-130	
Trichlorofluoromethane	100	92.2	92	5	25	70-130	
Vinyl chloride	100	91.0	91	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4-5-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: | Lab Sample ID: MB 360-48640/3-A

Matrix: Solid | Lab File ID: V07485.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48642 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

4-5-10
K

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: | Lab Sample ID: MB 360-48640/3-A

Matrix: Solid | Lab File ID: V07485.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48642 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

4-5-10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: | Lab Sample ID: MB 360-48640/3-A

Matrix: Solid | Lab File ID: V07485.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48642 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	102	70-130	
1868-53-7	Dibromofluoromethane	104	70-130	
2037-26-5	Toluene-d8 (Surr)	99	70-130	

4-5-10
TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: Lab Sample ID: MB 360-48640/3-A

Matrix: Solid Lab File ID: V07485.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/05/2009 02:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48642 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 9.17

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	3.60	9.17	T J

4-5-10
FC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: Lab Sample ID: MB 360-48654/3-A

Matrix: Solid Lab File ID: V07512.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/08/2009 11:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48655 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

TC 4-5-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: | Lab Sample ID: MB 360-48654/3-A

Matrix: Solid | Lab File ID: V07512.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 11:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

TC 4-5-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: | Lab Sample ID: MB 360-48654/3-A

Matrix: Solid | Lab File ID: V07512.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 11:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	103	70-130	
1868-53-7	Dibromofluoromethane	105	70-130	
2037-26-5	Toluene-d8 (Surr)	98	70-130	

TC
4-5-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: Lab Sample ID: MB 360-48654/3-A

Matrix: Solid Lab File ID: V07512.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/08/2009 11:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48655 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 6.86

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	3.59	6.86	T J

TC
4-5-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: Lab Sample ID: MB 360-48815/3-A

Matrix: Solid Lab File ID: V44881.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/10/2009 18:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48816 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

4-5-10
TE

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: Lab Sample ID: MB 360-48815/3-A

Matrix: Solid Lab File ID: V44881.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/10/2009 18:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48816 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	11.6		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

4-5-10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: Lab Sample ID: MB 360-48815/3-A

Matrix: Solid Lab File ID: V44881.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/10/2009 18:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48816 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	106	70-130	
1868-53-7	Dibromofluoromethane	102	70-130	
2037-26-5	Toluene-d8 (Surr)	100	70-130	

4-5-10
TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: Lab Sample ID: MB 360-48815/3-A

Matrix: Solid Lab File ID: V44881.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/10/2009 18:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48816 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 4.75

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	2.40	4.75	T J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: Lab Sample ID: MB 360-48877/3-A

Matrix: Solid Lab File ID: V44925.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/12/2009 14:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48878 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

4-5-10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: | Lab Sample ID: MB 360-48877/3-A

Matrix: Solid | Lab File ID: V44925.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/12/2009 14:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48878 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

4-5-10
TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: | Lab Sample ID: MB 360-48877/3-A

Matrix: Solid | Lab File ID: V44925.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/12/2009 14:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48878 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	105	70-130	
1868-53-7	Dibromofluoromethane	105	70-130	
2037-26-5	Toluene-d8 (Surr)	99	70-130	

4-5-10
TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield | Job No.: 360-24365-1

SDG No.: OCRI-09

Client Sample ID: | Lab Sample ID: MB 360-48877/3-A

Matrix: Solid | Lab File ID: V44925.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/12/2009 14:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48878 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 5.84

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	3.63	5.84	T J

TC 4-5-10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48826/2 Date Analyzed: 09/10/2009 16:46

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06850.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22553	6.15	456604	6.46	237206	9.52
UPPER LIMIT		45106	6.65	913208	6.96	474412	10.02
LOWER LIMIT		11277	5.65	228302	5.96	118603	9.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48826/3		23633	6.15	464016	6.46	246903	9.52
LCSD 360-48826/4		22666	6.15	451313	6.46	239329	9.52
MB 360-48826/6		20315	6.15	383387	6.46	194050	9.52
360-24365-12	OC-EBK-006	20173	6.15	372016	6.47	188805	9.52

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC
4-5-10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48826/2 Date Analyzed: 09/10/2009 16:46

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06850.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		108891	11.49				
UPPER LIMIT		217782	11.99				
LOWER LIMIT		54446	10.99				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48826/3		111797	11.49				
LCSD 360-48826/4		107713	11.49				
MB 360-48826/6		74064	11.49				
360-24365-12	OC-EBK-006	71433	11.49				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4-5-10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48767/2 Date Analyzed: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44837.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		26071	5.64	540044	5.87	336855	8.32
UPPER LIMIT		52142	6.14	1080088	6.37	673710	8.82
LOWER LIMIT		13036	5.14	270022	5.37	168428	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48765/1-A		21452	5.65	486594	5.88	302398	8.32
LCSD 360-48765/2-A		21186	5.64	479122	5.87	293982	8.31
MB 360-48765/3-A		18618	5.64	430407	5.87	264758	8.31
360-24365-22	OC-SB-PE-VS0355-VOC	19505	5.64	435916	5.87	263588	8.31

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4-5-10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48767/2 Date Analyzed: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44837.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		152815	10.13				
UPPER LIMIT		305630	10.63				
LOWER LIMIT		76408	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48765/1-A		140892	10.13				
LCSD 360-48765/2-A		139060	10.12				
MB 360-48765/3-A		131728	10.12				
360-24365-22	OC-SB-PE-VS0355-VOC	128478	10.12				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC
4-5-10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48816/2 Date Analyzed: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44875.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		21627	5.63	499947	5.86	309826	8.31
UPPER LIMIT		43254	6.13	999894	6.36	619652	8.81
LOWER LIMIT		10814	5.13	249974	5.36	154913	7.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48815/1-A		19979	5.64	481094	5.86	293648	8.31
LCSD 360-48815/2-A		20323	5.63	467613	5.86	297803	8.30
MB 360-48815/3-A		18034	5.62	410806	5.86	247259	8.30
360-24365-1	OC-SB-442-0.0/1.0-XXX	21685	5.63	501823	5.86	298737	8.30
360-24365-5	OC-SB-447-0.0/1.0-XXX	19583	5.63	450257	5.86	269395	8.30
360-24365-8	OC-SB-452-0.0/1.0-XXX	21407	5.63	465431	5.86	283155	8.30
360-24365-11	OC-TBK-011	17258	5.63	408385	5.86	242015	8.30
360-24365-13	OC-SB-458-0.0/1.0-XXX	19369	5.63	431990	5.86	259835	8.30
360-24365-16	OC-SB-460-0.0/1.0-XXX	20469	5.63	462559	5.86	280881	8.30

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC
4-5-10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48816/2 Date Analyzed: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44875.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		139895	10.11				
UPPER LIMIT		279790	10.61				
LOWER LIMIT		69948	9.61				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48815/1-A		130298	10.11				
LCSD 360-48815/2-A		135751	10.11				
MB 360-48815/3-A		124253	10.11				
360-24365-1	OC-SB-442-0.0/1.0-XXX	126992	10.11				
360-24365-5	OC-SB-447-0.0/1.0-XXX	123589	10.11				
360-24365-8	OC-SB-452-0.0/1.0-XXX	121143	10.11				
360-24365-11	OC-TBK-011	120901	10.11				
360-24365-13	OC-SB-458-0.0/1.0-XXX	127710	10.11				
360-24365-16	OC-SB-460-0.0/1.0-XXX	126126	10.11				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4-5-10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48878/2 Date Analyzed: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44921.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22279	5.67	477588	5.89	286880	8.33
UPPER LIMIT		44558	6.17	955176	6.39	573760	8.83
LOWER LIMIT		11140	5.17	238794	5.39	143440	7.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48877/1-A		22284	5.67	482795	5.89	294219	8.33
LCSD 360-48877/2-A		22745	5.67	479756	5.89	288925	8.33
MB 360-48877/3-A		17141	5.66	394856	5.89	236414	8.33
360-24365-6	OC-SB-447-18/20-XXX	20664	5.66	479014	5.89	285831	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4-5-10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48878/2 Date Analyzed: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44921.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		133935	10.14				
UPPER LIMIT		267870	10.64				
LOWER LIMIT		66968	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48877/1-A		133940	10.13				
LCSD 360-48877/2-A		139063	10.14				
MB 360-48877/3-A		117984	10.13				
360-24365-6	OC-SB-447-18/20-XXX	127900	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4-5-10 R

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48642/2 Date Analyzed: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V07481.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		6961	6.10	210332	6.42	166060	9.47
UPPER LIMIT		13922	6.60	420664	6.92	332120	9.97
LOWER LIMIT		3481	5.60	105166	5.92	83030	8.97
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48640/1-A		7949	6.10	230701	6.42	180990	9.47
LCSD 360-48640/2-A		7744	6.10	221770	6.42	175874	9.47
MB 360-48640/3-A		6257	6.10	182968	6.42	147990	9.47
360-24365-3	OC-SB-442-8.0/10-DUP	5623	6.10	162564	6.42	128921	9.47
360-24365-4	OC-SB-442-8.0/10-XXX	5256	6.10	159425	6.41	120569	9.47
360-24365-10	OC-SB-452-5.0/7.0-XXX	5095	6.10	151435	6.42	121793	9.47
360-24365-15	OC-SB-458-5.0/7.0-XXX	5219	6.10	156650	6.41	121884	9.47
360-24365-18	OC-SB-460-5.5/7.5-XXX	5378	6.10	155532	6.42	117310	9.47
360-24365-4 MS	OC-SB-442-8.0/10-XXX MS	5783	6.10	169903	6.41	141777	9.47
360-24365-4 MSD	OC-SB-442-8.0/10-XXX MSD	6484	6.09	193023	6.41	155751	9.47

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4-5-10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48642/2 Date Analyzed: 09/05/2009 00:52

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V07481.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		95510	11.44				
UPPER LIMIT		191020	11.94				
LOWER LIMIT		47755	10.94				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48640/1-A		100487	11.43				
LCSD 360-48640/2-A		100233	11.43				
MB 360-48640/3-A		84747	11.43				
360-24365-3	OC-SB-442-8.0/10-DUP	73314	11.43				
360-24365-4	OC-SB-442-8.0/10-XXX	71039	11.43				
360-24365-10	OC-SB-452-5.0/7.0-XXX	74598	11.43				
360-24365-15	OC-SB-458-5.0/7.0-XXX	68054	11.43				
360-24365-18	OC-SB-460-5.5/7.5-XXX	67017	11.43				
360-24365-4 MS	OC-SB-442-8.0/10-XXX MS	84923	11.44				
360-24365-4 MSD	OC-SB-442-8.0/10-XXX MSD	90765	11.43				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4-5-16

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48655/2 Date Analyzed: 09/08/2009 09:51

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V07508.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		7275	6.10	205554	6.41	169400	9.47
UPPER LIMIT		14550	6.60	411108	6.91	338800	9.97
LOWER LIMIT		3638	5.60	102777	5.91	84700	8.97
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48654/1-A		7306	6.10	210853	6.42	169260	9.47
LCSD 360-48654/2-A		7284	6.09	212082	6.41	176894	9.47
MB 360-48654/3-A		6262	6.10	181354	6.42	148433	9.47
360-24365-7	OC-SB-447-3.0/5.0-XXX	5638	6.10	171516	6.42	130913	9.47

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/15/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Sample No.: CCVIS 360-48655/2 Date Analyzed: 09/08/2009 09:51

Instrument ID: HP #3 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V07508.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		98290	11.44				
UPPER LIMIT		196580	11.94				
LOWER LIMIT		49145	10.94				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48654/1-A		98328	11.44				
LCSD 360-48654/2-A		104242	11.43				
MB 360-48654/3-A		86323	11.44				
360-24365-7	OC-SB-447-3.0/5.0-XXX	65964	11.43				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4-5-10 TC

FORM VIII 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07499.D

Lab ID: 360-24365-4 MS Client ID: OC-SB-442-8.0/10-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	86.4	ND	86.6	100	70-130	
1,1,1-Trichloroethane	86.4	ND	79.5	92	70-130	
1,1,2,2-Tetrachloroethane	86.4	ND	82.8	96	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	86.4	ND	71.1	82	70-130	
1,1,2-Trichloroethane	86.4	ND	87.2	101	70-130	
1,1-Dichloroethane	86.4	ND	82.3	95	70-130	
1,1-Dichloroethene	86.4	ND	77.7	90	70-130	
1,1-Dichloropropene	86.4	ND	78.5	91	70-130	
1,2,3-Trichlorobenzene	86.4	ND	92.7	107	70-130	
1,2,3-Trichloropropane	86.4	ND	110	128	70-130	
1,2,4-Trichlorobenzene	86.4	ND	88.2	102	70-130	
1,2,4-Trimethylbenzene	86.4	ND	84.9	98	70-130	
1,2-Dibromo-3-Chloropropane	86.4	ND	84.3	98	70-130	
Ethylene Dibromide	86.4	ND	87.9	102	70-130	
1,2-Dichlorobenzene	86.4	ND	81.4	94	70-130	
1,2-Dichloroethane	86.4	ND	84.4	98	70-130	
Acetone	864	ND	574	67	70-130	F
1,2-Dichloropropane	86.4	ND	87.9	102	70-130	
1,3,5-Trimethylbenzene	86.4	ND	85.0	98	70-130	
1,3-Dichlorobenzene	86.4	ND	85.0	98	70-130	
1,3-Dichloropropane	86.4	ND	88.3	102	70-130	
1,4-Dichlorobenzene	86.4	ND	78.5	91	70-130	
1,4-Dioxane	864	ND	1410	164	70-130	F
2,2-Dichloropropane	86.4	ND	68.4	79	70-130	
2,4,4-Trimethyl-1-pentene	86.4	ND	75.3	87	70-130	
2,4,4-Trimethyl-2-pentene	86.4	ND	80.0	93	70-130	
2-Chlorotoluene	86.4	ND	83.7	97	70-130	
2-Hexanone	864	ND	774	90	70-130	
4-Chlorotoluene	86.4	ND	84.3	98	70-130	
Benzene	86.4	ND	83.3	96	70-130	
Bromobenzene	86.4	ND	84.8	98	70-130	
Chlorobromomethane	86.4	ND	83.5	97	70-130	
Dichlorobromomethane	86.4	ND	86.6	100	70-130	
Bromoform	86.4	ND	82.1	95	70-130	
Bromomethane	86.4	ND	76.6	89	70-130	
n-Butylbenzene	86.4	ND	75.2	87	70-130	
Carbon disulfide	86.4	ND	75.3	87	70-130	
Carbon tetrachloride	86.4	ND	78.4	91	70-130	
Chlorobenzene	86.4	ND	79.9	92	70-130	
Chloroethane	86.4	ND	74.1	86	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-5-10
TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07499.D

Lab ID: 360-24365-4 MS Client ID: OC-SB-442-8.0/10-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloroform	86.4	ND	86.1	100	70-130	
Chloromethane	86.4	ND	71.6	83	70-130	
cis-1,2-Dichloroethene	86.4	ND	84.3	98	70-130	
cis-1,3-Dichloropropene	86.4	ND	82.3	95	70-130	
Cyclohexane	86.4	ND	87.0	101	70-130	
Chlorodibromomethane	86.4	ND	85.4	99	70-130	
Dibromomethane	86.4	ND	84.3	98	70-130	
Dichlorodifluoromethane	86.4	ND	47.3	55	70-130	F
Ethyl ether	86.4	ND	86.2	100	70-130	
Isopropyl ether	86.4	ND	89.6	104	70-130	
Tert-butyl ethyl ether	86.4	ND	93.2	108	70-130	
Ethylbenzene	86.4	ND	78.2	91	70-130	
Hexachlorobutadiene	86.4	ND	89.7	104	70-130	
Isopropylbenzene	86.4	ND	84.5	98	70-130	
Methyl acetate	864	ND	994	115	70-130	
2-Butanone (MEK)	864	ND	723	84	70-130	
4-Methyl-2-pentanone (MIBK)	864	ND	834	97	70-130	
Methyl tert-butyl ether	86.4	ND	93.0	108	70-130	
Methylcyclohexane	86.4	ND	86.1	100	70-130	
Methylene Chloride	86.4	ND	91.4	106	70-130	
m-Xylene & p-Xylene	173	ND	164	95	70-130	
Naphthalene	86.4	ND	91.6	106	70-130	
N-Propylbenzene	86.4	ND	81.1	94	70-130	
o-Xylene	86.4	ND	87.1	101	70-130	
4-Isopropyltoluene	86.4	ND	86.5	100	70-130	
sec-Butylbenzene	86.4	ND	79.7	92	70-130	
Styrene	86.4	ND	85.5	99	70-130	
Tert-amyl methyl ether	86.4	ND	95.5	111	70-130	
tert-Butylbenzene	86.4	ND	85.1	99	70-130	
Tetrachloroethene	86.4	ND	77.2	89	70-130	
Tetrahydrofuran	864	ND	938	109	70-130	
Toluene	86.4	ND	81.4	94	70-130	
trans-1,2-Dichloroethene	86.4	ND	77.9	90	70-130	
trans-1,3-Dichloropropene	86.4	ND	83.6	97	70-130	
Trichloroethene	86.4	ND	77.5	90	70-130	
Trichlorofluoromethane	86.4	ND	75.4	87	70-130	
Vinyl chloride	86.4	ND	76.0	88	70-130	

TC
4-5-10

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07500.D

Lab ID: 360-24365-4 MSD Client ID: OC-SB-442-8.0/10-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	78.2	77.0	98	12	30	70-130	
1,1,1-Trichloroethane	78.2	71.0	91	11	30	70-130	
1,1,2,2-Tetrachloroethane	78.2	75.3	96	9	30	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	78.2	69.1	88	3	30	70-130	
1,1,2-Trichloroethane	78.2	76.0	97	14	30	70-130	
1,1-Dichloroethane	78.2	73.2	94	12	30	70-130	
1,1-Dichloroethene	78.2	70.1	90	10	30	70-130	
1,1-Dichloropropene	78.2	72.3	92	8	30	70-130	
1,2,3-Trichlorobenzene	78.2	82.7	106	11	30	70-130	
1,2,3-Trichloropropane	78.2	90.3	115	20	30	70-130	
1,2,4-Trichlorobenzene	78.2	78.9	101	11	30	70-130	
1,2,4-Trimethylbenzene	78.2	74.7	96	13	30	70-130	
1,2-Dibromo-3-Chloropropane	78.2	75.1	96	12	30	70-130	
Ethylene Dibromide	78.2	77.3	99	13	30	70-130	
1,2-Dichlorobenzene	78.2	73.4	94	10	30	70-130	
1,2-Dichloroethane	78.2	74.3	95	13	30	70-130	
Acetone	782	515	66	11	30	70-130	F
1,2-Dichloropropane	78.2	78.4	100	11	30	70-130	
1,3,5-Trimethylbenzene	78.2	75.5	97	12	30	70-130	
1,3-Dichlorobenzene	78.2	75.6	97	12	30	70-130	
1,3-Dichloropropane	78.2	78.5	100	12	30	70-130	
1,4-Dichlorobenzene	78.2	71.6	92	9	30	70-130	
1,4-Dioxane	782	1380	176	3	30	70-130	F
2,2-Dichloropropane	78.2	62.1	79	10	30	70-130	
2,4,4-Trimethyl-1-pentene	78.2	69.3	89	8	30	70-130	
2,4,4-Trimethyl-2-pentene	78.2	73.2	94	9	30	70-130	
2-Chlorotoluene	78.2	74.2	95	12	30	70-130	
2-Hexanone	782	681	87	13	30	70-130	
4-Chlorotoluene	78.2	76.3	97	10	30	70-130	
Benzene	78.2	74.6	95	11	30	70-130	
Bromobenzene	78.2	75.6	97	12	30	70-130	
Chlorobromomethane	78.2	76.0	97	10	30	70-130	
Dichlorobromomethane	78.2	75.3	96	14	30	70-130	
Bromoform	78.2	73.3	94	11	30	70-130	
Bromomethane	78.2	76.4	98	0	30	70-130	
n-Butylbenzene	78.2	70.3	90	7	30	70-130	
Carbon disulfide	78.2	71.7	92	5	30	70-130	
Carbon tetrachloride	78.2	69.5	89	12	30	70-130	
Chlorobenzene	78.2	72.7	93	9	30	70-130	
Chloroethane	78.2	71.7	92	3	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4-5-10

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24365-1

SDG No.: OCRI-09

Matrix: Solid Level: Low Lab File ID: V07500.D

Lab ID: 360-24365-4 MSD Client ID: OC-SB-442-8.0/10-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	78.2	75.7	97	13	30	70-130	
Chloromethane	78.2	69.9	89	2	30	70-130	
cis-1,2-Dichloroethene	78.2	75.3	96	11	30	70-130	
cis-1,3-Dichloropropene	78.2	74.0	95	11	30	70-130	
Cyclohexane	78.2	81.6	104	6	30	70-130	
Chlorodibromomethane	78.2	72.7	93	16	30	70-130	
Dibromomethane	78.2	74.9	96	12	30	70-130	
Dichlorodifluoromethane	78.2	46.6	60	1	30	70-130	F
Ethyl ether	78.2	78.2	100	10	30	70-130	
Isopropyl ether	78.2	80.7	103	10	30	70-130	
Tert-butyl ethyl ether	78.2	82.8	106	12	30	70-130	
Ethylbenzene	78.2	71.8	92	9	30	70-130	
Hexachlorobutadiene	78.2	82.8	106	8	30	70-130	
Isopropylbenzene	78.2	75.9	97	11	30	70-130	
Methyl acetate	782	888	113	11	30	70-130	
2-Butanone (MEK)	782	653	83	10	30	70-130	
4-Methyl-2-pentanone (MIBK)	782	740	95	12	30	70-130	
Methyl tert-butyl ether	78.2	81.3	104	13	30	70-130	
Methylcyclohexane	78.2	80.8	103	6	30	70-130	
Methylene Chloride	78.2	82.8	106	10	30	70-130	
m-Xylene & p-Xylene	156	148	94	11	30	70-130	
Naphthalene	78.2	83.8	107	9	30	70-130	
N-Propylbenzene	78.2	73.0	93	10	30	70-130	
o-Xylene	78.2	77.3	99	12	30	70-130	
4-Isopropyltoluene	78.2	78.2	100	10	30	70-130	
sec-Butylbenzene	78.2	74.0	95	7	30	70-130	
Styrene	78.2	76.3	98	11	30	70-130	
Tert-amyl methyl ether	78.2	83.8	107	13	30	70-130	
tert-Butylbenzene	78.2	76.6	98	10	30	70-130	
Tetrachloroethene	78.2	69.8	89	10	30	70-130	
Tetrahydrofuran	782	835	107	12	30	70-130	
Toluene	78.2	71.4	91	13	30	70-130	
trans-1,2-Dichloroethene	78.2	70.1	90	11	30	70-130	
trans-1,3-Dichloropropene	78.2	73.7	94	13	30	70-130	
Trichloroethene	78.2	71.0	91	9	30	70-130	
Trichlorofluoromethane	78.2	71.6	92	5	30	70-130	
Vinyl chloride	78.2	73.3	94	4	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4-5-10

OCRI-10

Cover Page

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: OCRI-10 360-24417-1

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Data completeness				
☑	☐	☐	All data summaries, QC forms and raw data available from hard copy or electronic data package	Contact lab if missing data. Lab to respond with 24 hours.
☑	☐	☐	Data summaries match EDD	
Holding Times and Preservation				
☑	☐	☐	Hold times met (14 days with preservation)	
☑	☐	☐	Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune)				
☑	☐	☐	Tune available for each 12-hour period samples were analyzed	
☑	☐	☐	Appropriate number of significant figures reported (at least 2)	
☑	☐	☐	Mass/Charge list (m/z) criteria met	
Initial Calibration				
☑	☐	☐	%RSD less than or equal to 30%	
☑	☑	☐	RRF greater than or equal to 0.05	I-Cal 9/08/09
Continuing Calibration				
☑	☐	☐	%D less than or equal to 25%	
☑	☐	☐	RRF greater than or equal to 0.05.	
Blank Contamination				Evaluate all blanks for contamination. Highest contaminant level used for action level.
☑	☐	☐	Method blank contamination	
☑	☐	☐	Trip blank contamination	see attached Form 5 : Form I
☐	☑	☐	Equipment/Rinseate blank contamination	Tetrahydrofuran 6.2 ug/kg x 5 = 31
				(V) Qual hits < 31

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes NO N/A — **TIER I / (II) / III (circle one)**

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples ☐ ☑ ☐ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☑ ☐ ☐ MS/MSD RPD criteria met (water and soil <30%) ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	See attached See attached
Field Duplicates ☑ ☐ ☐ RPD criteria (water <30%, soils <50%) met	
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: _____

Date: 4-5-10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-463-0.0/1.0-XXX

Lab Sample ID: 360-24417-1
Client Matrix: Solid % Moisture: 3.8

Date Sampled: 09/01/2009 1300
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44929.D
Dilution:	1.0			Initial Weight/Volume:	5.32 g
Date Analyzed:	09/12/2009 1542			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.98	2.4
1,1,1-Trichloroethane		ND		0.98	2.4
1,1,2,2-Tetrachloroethane		ND		0.98	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.98	12
1,1,2-Trichloroethane		ND		0.98	2.4
1,1-Dichloroethane		ND		0.98	2.4
1,1-Dichloroethene		ND		0.98	2.4
1,1-Dichloropropene		ND		0.98	2.4
1,2,3-Trichlorobenzene		ND		0.98	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.98	2.4
1,2,4-Trimethylbenzene		ND		0.98	2.4
1,2-Dibromo-3-Chloropropane		ND		1.8	24
Ethylene Dibromide		ND		0.98	2.4
1,2-Dichlorobenzene		ND		0.98	2.4
1,2-Dichloroethane		ND		0.98	2.4
Acetone		ND	J	18	240
1,2-Dichloropropane		ND		0.98	2.4
1,3,5-Trimethylbenzene		ND		0.98	2.4
1,3-Dichlorobenzene		ND		0.98	2.4
1,3-Dichloropropane		ND		0.98	2.4
1,4-Dichlorobenzene		ND		0.98	2.4
1,4-Dioxane		ND	J	32	240
2,2-Dichloropropane		ND		0.98	2.4
2,4,4-Trimethyl-1-pentene		ND		0.98	4.9
2,4,4-Trimethyl-2-pentene		ND		0.98	4.9
2-Chlorotoluene		ND		0.98	2.4
2-Hexanone		ND		5.0	24
4-Chlorotoluene		ND		0.98	2.4
Benzene		ND		0.98	2.4
Bromobenzene		ND		0.98	2.4
Chlorobromomethane		ND		0.98	2.4
Dichlorobromomethane		ND		0.98	2.4
Bromoform		ND		0.98	2.4
Bromomethane		ND		0.98	4.9
n-Butylbenzene		ND		0.98	2.4
Carbon disulfide		ND		0.98	2.4
Carbon tetrachloride		ND		0.98	2.4
Chlorobenzene		ND		0.98	2.4
Chloroethane		ND		0.98	4.9
Chloroform		ND		0.98	2.4
Chloromethane		ND		0.98	4.9
cis-1,2-Dichloroethene		ND		0.98	2.4
cis-1,3-Dichloropropene		ND		0.98	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.98	2.4

4-6-10 TC

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-463-0.0/1.0-XXX

Lab Sample ID: 360-24417-1
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 09/01/2009 1300
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877	Lab File ID: V44929.D
Dilution:	1.0		Initial Weight/Volume: 5.32 g
Date Analyzed:	09/12/2009 1542		Final Weight/Volume: 5 g
Date Prepared:	09/12/2009 1114		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.98	2.4
Dichlorodifluoromethane		ND J	*	0.98	4.9
Ethyl ether		ND		0.98	2.4
Isopropyl ether		ND		0.98	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.98	2.4
Hexachlorobutadiene		ND		0.98	2.4
Isopropylbenzene		ND		0.98	2.4
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND		6.6	24
4-Methyl-2-pentanone (MIBK)		ND		5.0	24
Methyl tert-butyl ether		ND		0.98	2.4
Methylcyclohexane		ND		0.98	2.4
Methylene Chloride		ND		4.7	9.8
m-Xylene & p-Xylene		ND		0.98	4.9
Naphthalene		ND		0.98	24
N-Propylbenzene		ND		0.98	2.4
o-Xylene		ND		0.98	2.4
4-Isopropyltoluene		ND		0.98	2.4
sec-Butylbenzene		ND		0.98	2.4
Styrene		ND		0.98	2.4
Tert-amyl methyl ether		ND		0.98	2.4
tert-Butylbenzene		ND		0.98	2.4
Tetrachloroethene		ND		0.98	2.4
Tetrahydrofuran		~~6.4~~ ND	*	5.4	24
Toluene		ND		0.98	2.4
trans-1,2-Dichloroethene		ND		0.98	2.4
trans-1,3-Dichloropropene		ND		0.98	2.4
Trichloroethene		ND		0.98	2.4
Trichlorofluoromethane		ND		0.98	4.9
Vinyl chloride		ND		0.98	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	101		70 - 130

4-6-10 TC

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-463-0.0/1.0-XXX**

Lab Sample ID: 360-24417-1
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 09/01/2009 1300
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44929.D
Dilution:	1.0			Initial Weight/Volume:	5.32 g
Date Analyzed:	09/12/2009 1542			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.04	3.0	T J
92-52-4	Biphenyl	16.11	16	T J N
101-84-8	Diphenyl ether	16.41	37	T J N

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-463-6.0/8.0-XXX**

Lab Sample ID: 360-24417-3
Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 09/01/2009 1310
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44810.D
Dilution:	1.0			Initial Weight/Volume:	6.53 g
Date Analyzed:	09/09/2009 0052			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.91	2.3
1,1,1-Trichloroethane		ND		0.91	2.3
1,1,2,2-Tetrachloroethane		ND		0.91	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.91	11
1,1,2-Trichloroethane		ND		0.91	2.3
1,1-Dichloroethane		ND		0.91	2.3
1,1-Dichloroethene		ND		0.91	2.3
1,1-Dichloropropene		ND		0.91	2.3
1,2,3-Trichlorobenzene		ND		0.91	2.3
1,2,3-Trichloropropane		ND		1.3	2.3
1,2,4-Trichlorobenzene		ND		0.91	2.3
1,2,4-Trimethylbenzene		ND		0.91	2.3
1,2-Dibromo-3-Chloropropane		ND		1.6	23
Ethylene Dibromide		ND		0.91	2.3
1,2-Dichlorobenzene		ND		0.91	2.3
1,2-Dichloroethane		ND		0.91	2.3
Acetone		ND	J	16	230
1,2-Dichloropropane		ND		0.91	2.3
1,3,5-Trimethylbenzene		ND		0.91	2.3
1,3-Dichlorobenzene		ND		0.91	2.3
1,3-Dichloropropane		ND		0.91	2.3
1,4-Dichlorobenzene		ND		0.91	2.3
1,4-Dioxane		ND	J	30	230
2,2-Dichloropropane		ND		0.91	2.3
2,4,4-Trimethyl-1-pentene		ND		0.91	4.6
2,4,4-Trimethyl-2-pentene		ND		0.91	4.6
2-Chlorotoluene		ND		0.91	2.3
2-Hexanone		ND		4.7	23
4-Chlorotoluene		ND		0.91	2.3
Benzene		ND		0.91	2.3
Bromobenzene		ND		0.91	2.3
Chlorobromomethane		ND		0.91	2.3
Dichlorobromomethane		ND		0.91	2.3
Bromoform		ND		0.91	2.3
Bromomethane		ND		0.91	4.6
n-Butylbenzene		ND		0.91	2.3
Carbon disulfide		ND		0.91	2.3
Carbon tetrachloride		ND		0.91	2.3
Chlorobenzene		ND		0.91	2.3
Chloroethane		ND		0.91	4.6
Chloroform		ND		0.91	2.3
Chloromethane		ND		0.91	4.6
cis-1,2-Dichloroethene		ND		0.91	2.3
cis-1,3-Dichloropropene		ND		0.91	2.3
Cyclohexane		ND		2.3	23
Chlorodibromomethane		ND		0.91	2.3

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-463-6.0/8.0-XXX

Lab Sample ID: 360-24417-3
Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 09/01/2009 1310
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44810.D
Dilution:	1.0			Initial Weight/Volume:	6.53 g
Date Analyzed:	09/09/2009 0052			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.91	2.3
Dichlorodifluoromethane		ND J	*	0.91	4.6
Ethyl ether		ND		0.91	2.3
Isopropyl ether		ND		0.91	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.91	2.3
Hexachlorobutadiene		ND		0.91	2.3
Isopropylbenzene		ND		0.91	2.3
Methyl acetate		ND		15	46
2-Butanone (MEK)		ND		6.1	23
4-Methyl-2-pentanone (MIBK)		ND		4.7	23
Methyl tert-butyl ether		ND		0.91	2.3
Methylcyclohexane		ND		0.91	2.3
Methylene Chloride		ND		4.4	9.1
m-Xylene & p-Xylene		ND		0.91	4.6
Naphthalene		ND		0.91	23
N-Propylbenzene		ND		0.91	2.3
o-Xylene		ND		0.91	2.3
4-Isopropyltoluene		ND		0.91	2.3
sec-Butylbenzene		ND		0.91	2.3
Styrene		ND		0.91	2.3
Tert-amyl methyl ether		ND		0.91	2.3
tert-Butylbenzene		ND		0.91	2.3
Tetrachloroethene		ND		0.91	2.3
Tetrahydrofuran		ND		5.0	23
Toluene		ND		0.91	2.3
trans-1,2-Dichloroethene		ND		0.91	2.3
trans-1,3-Dichloropropene		ND		0.91	2.3
Trichloroethene		ND		0.91	2.3
Trichlorofluoromethane		ND		0.91	4.6
Vinyl chloride		ND		0.91	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-463-6.0/8.0-XXX**

Lab Sample ID: 360-24417-3
Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 09/01/2009 1310
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44810.D
Dilution:	1.0			Initial Weight/Volume:	6.53 g
Date Analyzed:	09/09/2009 0052			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.04	2.5	T J

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-464-0.0/1.0-XXX**

Lab Sample ID: 360-24417-4
Client Matrix: Solid % Moisture: 5.9

Date Sampled: 09/01/2009 1550
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44930.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	09/12/2009 1606			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	35	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

4/6/10
TC

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-464-0.0/1.0-XXX

Lab Sample ID: 360-24417-4
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 09/01/2009 1550
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44930.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	09/12/2009 1606			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	52
2-Butanone (MEK)		ND		7.1	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.1	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		~~10~~ ND	J	5.8	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-464-0.0/1.0-XXX**

Lab Sample ID: 360-24417-4
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 09/01/2009 1550
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44930.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	09/12/2009 1606			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	16.41	8.6	T J

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-464-5.0/7.0-XXX

Lab Sample ID: 360-24417-6
Client Matrix: Solid % Moisture: 12.2

Date Sampled: 09/01/2009 1650
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44811.D
Dilution:	1.0			Initial Weight/Volume:	6.02 g
Date Analyzed:	09/09/2009 0116			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.95	2.4
1,1,1-Trichloroethane		ND		0.95	2.4
1,1,2,2-Tetrachloroethane		ND		0.95	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.95	12
1,1,2-Trichloroethane		ND		0.95	2.4
1,1-Dichloroethane		ND		0.95	2.4
1,1-Dichloroethene		ND		0.95	2.4
1,1-Dichloropropene		ND		0.95	2.4
1,2,3-Trichlorobenzene		ND		0.95	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.95	2.4
1,2,4-Trimethylbenzene		ND		0.95	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.95	2.4
1,2-Dichlorobenzene		ND		0.95	2.4
1,2-Dichloroethane		ND		0.95	2.4
Acetone		ND	J	17	240
1,2-Dichloropropane		ND		0.95	2.4
1,3,5-Trimethylbenzene		ND		0.95	2.4
1,3-Dichlorobenzene		ND		0.95	2.4
1,3-Dichloropropane		ND		0.95	2.4
1,4-Dichlorobenzene		ND		0.95	2.4
1,4-Dioxane		ND	J	31	240
2,2-Dichloropropane		ND		0.95	2.4
2,4,4-Trimethyl-1-pentene		ND		0.95	4.7
2,4,4-Trimethyl-2-pentene		ND		0.95	4.7
2-Chlorotoluene		ND		0.95	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.95	2.4
Benzene		ND		0.95	2.4
Bromobenzene		ND		0.95	2.4
Chlorobromomethane		ND		0.95	2.4
Dichlorobromomethane		ND		0.95	2.4
Bromoform		ND		0.95	2.4
Bromomethane		ND		0.95	4.7
n-Butylbenzene		ND		0.95	2.4
Carbon disulfide		ND		0.95	2.4
Carbon tetrachloride		ND		0.95	2.4
Chlorobenzene		ND		0.95	2.4
Chloroethane		ND		0.95	4.7
Chloroform		ND		0.95	2.4
Chloromethane		ND		0.95	4.7
cis-1,2-Dichloroethene		ND		0.95	2.4
cis-1,3-Dichloropropene		ND		0.95	2.4
Cyclohexane		ND		2.4	24
Chlorodibromomethane		ND		0.95	2.4

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-464-5.0/7.0-XXX**

Lab Sample ID: 360-24417-6
Client Matrix: Solid

% Moisture: 12.2

Date Sampled: 09/01/2009 1650
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44811.D
Dilution:	1.0			Initial Weight/Volume:	6.02 g
Date Analyzed:	09/09/2009 0116			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.95	2.4
Dichlorodifluoromethane		ND J	*	0.95	4.7
Ethyl ether		ND		0.95	2.4
Isopropyl ether		ND		0.95	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.95	2.4
Hexachlorobutadiene		ND		0.95	2.4
Isopropylbenzene		ND		0.95	2.4
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.95	2.4
Methylcyclohexane		ND		0.95	2.4
Methylene Chloride		ND		4.6	9.5
m-Xylene & p-Xylene		ND		0.95	4.7
Naphthalene		ND		0.95	24
N-Propylbenzene		ND		0.95	2.4
o-Xylene		ND		0.95	2.4
4-Isopropyltoluene		ND		0.95	2.4
sec-Butylbenzene		ND		0.95	2.4
Styrene		ND		0.95	2.4
Tert-amyl methyl ether		ND		0.95	2.4
tert-Butylbenzene		ND		0.95	2.4
Tetrachloroethene		ND		0.95	2.4
Tetrahydrofuran		ND		5.2	24
Toluene		ND		0.95	2.4
trans-1,2-Dichloroethene		ND		0.95	2.4
trans-1,3-Dichloropropene		ND		0.95	2.4
Trichloroethene		ND		0.95	2.4
Trichlorofluoromethane		ND		0.95	4.7
Vinyl chloride		ND		0.95	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-464-5.0/7.0-XXX**

Lab Sample ID: 360-24417-6
Client Matrix: Solid

% Moisture: 12.2

Date Sampled: 09/01/2009 1650
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44811.D
Dilution:	1.0			Initial Weight/Volume:	6.02 g
Date Analyzed:	09/09/2009 0116			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.66	2.0	T J

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-465-0.0/1.0-XXX

Lab Sample ID: 360-24417-7
Client Matrix: Solid % Moisture: 5.0

Date Sampled: 09/02/2009 0735
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44931.D
Dilution:	1.0			Initial Weight/Volume:	4.86 g
Date Analyzed:	09/12/2009 1630			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-465-0.0/1.0-XXX**

Lab Sample ID: 360-24417-7
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 09/02/2009 0735
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44931.D
Dilution:	1.0			Initial Weight/Volume:	4.86 g
Date Analyzed:	09/12/2009 1630			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		18	54
2-Butanone (MEK)		ND		7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-465-0.0/1.0-XXX**

Lab Sample ID: 360-24417-7
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 09/02/2009 0735
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44931.D
Dilution:	1.0			Initial Weight/Volume:	4.86 g
Date Analyzed:	09/12/2009 1630			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	16.41	6.1	T J

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-465-16/18-XXX**

Lab Sample ID: 360-24417-8
Client Matrix: Solid % Moisture: 9.6

Date Sampled: 09/02/2009 0825
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45030.D
Dilution:	1.0			Initial Weight/Volume:	5.18 g
Date Analyzed:	09/15/2009 2158			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-465-16/18-XXX

Lab Sample ID: 360-24417-8
Client Matrix: Solid

% Moisture: 9.6

Date Sampled: 09/02/2009 0825
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45030.D
Dilution:	1.0			Initial Weight/Volume:	5.18 g
Date Analyzed:	09/15/2009 2158			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	*	1.1	5.3
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		17	53
2-Butanone (MEK)		7.9	J	7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		27		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-465-16/18-XXX**

Lab Sample ID: 360-24417-8
Client Matrix: Solid

% Moisture: 9.6

Date Sampled: 09/02/2009 0825
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45030.D
Dilution:	1.0			Initial Weight/Volume:	5.18 g
Date Analyzed:	09/15/2009 2158			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.63	6.4	TJ

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-465-8.0/10-DUP

Lab Sample ID: 360-24417-9
Client Matrix: Solid % Moisture: 11.1

Date Sampled: 09/02/2009 0745
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44812.D
Dilution:	1.0			Initial Weight/Volume:	6.47 g
Date Analyzed:	09/09/2009 0140			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.87	2.2
1,1,1-Trichloroethane		ND		0.87	2.2
1,1,2,2-Tetrachloroethane		ND		0.87	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.87	11
1,1,2-Trichloroethane		ND		0.87	2.2
1,1-Dichloroethane		ND		0.87	2.2
1,1-Dichloroethene		ND		0.87	2.2
1,1-Dichloropropene		ND		0.87	2.2
1,2,3-Trichlorobenzene		ND		0.87	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.87	2.2
1,2,4-Trimethylbenzene		ND		0.87	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.87	2.2
1,2-Dichlorobenzene		ND		0.87	2.2
1,2-Dichloroethane		ND		0.87	2.2
Acetone		ND	J	16	220
1,2-Dichloropropane		ND		0.87	2.2
1,3,5-Trimethylbenzene		ND		0.87	2.2
1,3-Dichlorobenzene		ND		0.87	2.2
1,3-Dichloropropane		ND		0.87	2.2
1,4-Dichlorobenzene		ND		0.87	2.2
1,4-Dioxane		ND	J	29	220
2,2-Dichloropropane		ND		0.87	2.2
2,4,4-Trimethyl-1-pentene		ND		0.87	4.3
2,4,4-Trimethyl-2-pentene		ND		0.87	4.3
2-Chlorotoluene		ND		0.87	2.2
2-Hexanone		ND		4.5	22
4-Chlorotoluene		ND		0.87	2.2
Benzene		ND		0.87	2.2
Bromobenzene		ND		0.87	2.2
Chlorobromomethane		ND		0.87	2.2
Dichlorobromomethane		ND		0.87	2.2
Bromoform		ND		0.87	2.2
Bromomethane		ND		0.87	4.3
n-Butylbenzene		ND		0.87	2.2
Carbon disulfide		ND		0.87	2.2
Carbon tetrachloride		ND		0.87	2.2
Chlorobenzene		ND		0.87	2.2
Chloroethane		ND		0.87	4.3
Chloroform		ND		0.87	2.2
Chloromethane		ND		0.87	4.3
cis-1,2-Dichloroethene		ND		0.87	2.2
cis-1,3-Dichloropropene		ND		0.87	2.2
Cyclohexane		ND		2.2	22
Chlorodibromomethane		ND		0.87	2.2

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-465-8.0/10-DUP**

Lab Sample ID: 360-24417-9
Client Matrix: Solid
% Moisture: 11.1

Date Sampled: 09/02/2009 0745
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44812.D
Dilution:	1.0			Initial Weight/Volume:	6.47 g
Date Analyzed:	09/09/2009 0140			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.87	2.2
Dichlorodifluoromethane		ND J	*	0.87	4.3
Ethyl ether		ND		0.87	2.2
Isopropyl ether		ND		0.87	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.87	2.2
Hexachlorobutadiene		ND		0.87	2.2
Isopropylbenzene		ND		0.87	2.2
Methyl acetate		ND		14	43
2-Butanone (MEK)		ND		5.9	22
4-Methyl-2-pentanone (MIBK)		ND		4.5	22
Methyl tert-butyl ether		ND		0.87	2.2
Methylcyclohexane		ND		0.87	2.2
Methylene Chloride		ND		4.2	8.7
m-Xylene & p-Xylene		ND		0.87	4.3
Naphthalene		ND		0.87	22
N-Propylbenzene		ND		0.87	2.2
o-Xylene		ND		0.87	2.2
4-Isopropyltoluene		ND		0.87	2.2
sec-Butylbenzene		ND		0.87	2.2
Styrene		ND		0.87	2.2
Tert-amyl methyl ether		ND		0.87	2.2
tert-Butylbenzene		ND		0.87	2.2
Tetrachloroethene		ND		0.87	2.2
Tetrahydrofuran		ND		4.8	22
Toluene		ND		0.87	2.2
trans-1,2-Dichloroethene		ND		0.87	2.2
trans-1,3-Dichloropropene		ND		0.87	2.2
Trichloroethene		ND		0.87	2.2
Trichlorofluoromethane		ND		0.87	4.3
Vinyl chloride		ND		0.87	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-465-8.0/10-DUP**

Lab Sample ID: 360-24417-9
Client Matrix: Solid % Moisture: 11.1

Date Sampled: 09/02/2009 0745
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44812.D
Dilution:	1.0			Initial Weight/Volume:	6.47 g
Date Analyzed:	09/09/2009 0140			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
~~---~~	~~Unknown~~	~~12.80~~	~~6.9~~	~~T J~~

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TC

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-465-8.0/10-XXX**

Lab Sample ID: 360-24417-10
Client Matrix: Solid % Moisture: 11.5

Date Sampled: 09/02/2009 0745
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/09/2009 1953
Date Prepared: 09/09/2009 1557

Analysis Batch: 360-48767
Prep Batch: 360-48765

Instrument ID: HP #1 GC/MS
Lab File ID: V44845.D
Initial Weight/Volume: 5.66 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		1.6	J	1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

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Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-465-8.0/10-XXX

Lab Sample ID: 360-24417-10
Client Matrix: Solid

% Moisture: 11.5

Date Sampled: 09/02/2009 0745
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48767		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48765		Lab File ID:	V44845.D
Dilution:	1.0			Initial Weight/Volume:	5.66 g
Date Analyzed:	09/09/2009 1953			Final Weight/Volume:	5 g
Date Prepared:	09/09/2009 1557				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		~~5.2~~ ND	~~J B~~	4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		~~9.3~~ ND	~~J~~	5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-465-8.0/10-XXX**

Lab Sample ID: 360-24417-10
Client Matrix: Solid % Moisture: 11.5

Date Sampled: 09/02/2009 0745
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48767		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48765		Lab File ID:	V44845.D
Dilution:	1.0			Initial Weight/Volume:	5.66 g
Date Analyzed:	09/09/2009 1953			Final Weight/Volume:	5 g
Date Prepared:	09/09/2009 1557				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-468-0.0/1.0-XXX

Lab Sample ID: 360-24417-11
Client Matrix: Solid % Moisture: 13.3

Date Sampled: 09/02/2009 1005
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44932.D
Dilution:	1.0			Initial Weight/Volume:	5.46 g
Date Analyzed:	09/12/2009 1654			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.6
1,1,1-Trichloroethane		ND		1.1	2.6
1,1,2,2-Tetrachloroethane		ND		1.1	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.6
1,1-Dichloroethane		ND		1.1	2.6
1,1-Dichloroethene		ND		1.1	2.6
1,1-Dichloropropene		ND		1.1	2.6
1,2,3-Trichlorobenzene		ND		1.1	2.6
1,2,3-Trichloropropane		ND		1.6	2.6
1,2,4-Trichlorobenzene		ND		1.1	2.6
1,2,4-Trimethylbenzene		ND		1.1	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.1	2.6
1,2-Dichlorobenzene		ND		1.1	2.6
1,2-Dichloroethane		ND		1.1	2.6
Acetone		19	J	19	260
1,2-Dichloropropane		ND		1.1	2.6
1,3,5-Trimethylbenzene		ND		1.1	2.6
1,3-Dichlorobenzene		ND		1.1	2.6
1,3-Dichloropropane		ND		1.1	2.6
1,4-Dichlorobenzene		ND		1.1	2.6
1,4-Dioxane		ND J		35	260
2,2-Dichloropropane		ND		1.1	2.6
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.1	2.6
Benzene		ND		1.1	2.6
Bromobenzene		ND		1.1	2.6
Chlorobromomethane		ND		1.1	2.6
Dichlorobromomethane		ND		1.1	2.6
Bromoform		ND		1.1	2.6
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.6
Carbon disulfide		ND		1.1	2.6
Carbon tetrachloride		ND		1.1	2.6
Chlorobenzene		ND		1.1	2.6
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.6
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.6
cis-1,3-Dichloropropene		ND		1.1	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.1	2.6

TC 4/6/10

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-468-0.0/1.0-XXX**

Lab Sample ID: 360-24417-11
Client Matrix: Solid

% Moisture: 13.3

Date Sampled: 09/02/2009 1005
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877	Lab File ID: V44932.D
Dilution:	1.0		Initial Weight/Volume: 5.46 g
Date Analyzed:	09/12/2009 1654		Final Weight/Volume: 5 g
Date Prepared:	09/12/2009 1114		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.6
Dichlorodifluoromethane		ND J	*	1.1	5.3
Ethyl ether		ND		1.1	2.6
Isopropyl ether		ND		1.1	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.1	2.6
Hexachlorobutadiene		ND		1.1	2.6
Isopropylbenzene		ND		1.1	2.6
Methyl acetate		ND		17	53
2-Butanone (MEK)		ND		7.1	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.1	2.6
Methylcyclohexane		ND		1.1	2.6
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	26
N-Propylbenzene		ND		1.1	2.6
o-Xylene		ND		1.1	2.6
4-Isopropyltoluene		ND		1.1	2.6
sec-Butylbenzene		ND		1.1	2.6
Styrene		ND		1.1	2.6
Tert-amyl methyl ether		ND		1.1	2.6
tert-Butylbenzene		ND		1.1	2.6
Tetrachloroethene		ND		1.1	2.6
Tetrahydrofuran		~~6.9~~ ND	J	5.8	26
Toluene		ND		1.1	2.6
trans-1,2-Dichloroethene		ND		1.1	2.6
trans-1,3-Dichloropropene		ND		1.1	2.6
Trichloroethene		ND		1.1	2.6
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	89		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TC 4/6/10

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-468-0.0/1.0-XXX**

Lab Sample ID: 360-24417-11
Client Matrix: Solid
% Moisture: 13.3

Date Sampled: 09/02/2009 1005
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44932.D
Dilution:	1.0			Initial Weight/Volume:	5.46 g
Date Analyzed:	09/12/2009 1654			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	16.41	3.0	T J

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-468-8.0/10-XXX**

Lab Sample ID: 360-24417-13
Client Matrix: Solid

% Moisture: 12.8

Date Sampled: 09/02/2009 1010
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44813.D
Dilution:	1.0			Initial Weight/Volume:	5.74 g
Date Analyzed:	09/09/2009 0204			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	4	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	4	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 4/6/10

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-468-8.0/10-XXX**

Lab Sample ID: 360-24417-13
Client Matrix: Solid % Moisture: 12.8

Date Sampled: 09/02/2009 1010
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44813.D
Dilution:	1.0			Initial Weight/Volume:	5.74 g
Date Analyzed:	09/09/2009 0204			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	107		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Tc 4/6/10

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-468-8.0/10-XXX

Lab Sample ID: 360-24417-13
Client Matrix: Solid

% Moisture: 12.8

Date Sampled: 09/02/2009 1010
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44813.D
Dilution:	1.0			Initial Weight/Volume:	5.74 g
Date Analyzed:	09/09/2009 0204			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	12.81	6.5	T J

TC
4/5/10

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-471-0.0/1.0-XXX

Lab Sample ID: 360-24417-14
Client Matrix: Solid % Moisture: 8.3

Date Sampled: 09/02/2009 1315
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44933.D
Dilution:	1.0			Initial Weight/Volume:	5.52 g
Date Analyzed:	09/12/2009 1718			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	4.9
2,4,4-Trimethyl-2-pentene		ND		0.99	4.9
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	4.9
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	4.9
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	4.9
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND		2.5	25
Chlorodibromomethane		ND		0.99	2.5

4-6-10

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-471-0.0/1.0-XXX**

Lab Sample ID: 360-24417-14
Client Matrix: Solid
% Moisture: 8.3

Date Sampled: 09/02/2009 1315
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877	Lab File ID: V44933.D
Dilution:	1.0		Initial Weight/Volume: 5.52 g
Date Analyzed:	09/12/2009 1718		Final Weight/Volume: 5 g
Date Prepared:	09/12/2009 1114		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND J	*	0.99	4.9
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	4.9
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		ND		5.4	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	4.9
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130

4-6-10 TC

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-471-0.0/1.0-XXX**

Lab Sample ID: 360-24417-14
Client Matrix: Solid % Moisture: 8.3

Date Sampled: 09/02/2009 1315
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44933.D
Dilution:	1.0			Initial Weight/Volume:	5.52 g
Date Analyzed:	09/12/2009 1718			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.37	5.3	T J

4-6-10 TC

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-471-3.0/5.0-XXX**

Lab Sample ID: 360-24417-15
Client Matrix: Solid % Moisture: 18.9

Date Sampled: 09/02/2009 1330
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44814.D
Dilution:	1.0			Initial Weight/Volume:	6.71 g
Date Analyzed:	09/09/2009 0228			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.92	2.3
1,1,1-Trichloroethane		ND		0.92	2.3
1,1,2,2-Tetrachloroethane		ND		0.92	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.92	11
1,1,2-Trichloroethane		ND		0.92	2.3
1,1-Dichloroethane		ND		0.92	2.3
1,1-Dichloroethene		ND		0.92	2.3
1,1-Dichloropropene		ND		0.92	2.3
1,2,3-Trichlorobenzene		ND		0.92	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.92	2.3
1,2,4-Trimethylbenzene		ND		0.92	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.92	2.3
1,2-Dichlorobenzene		ND		0.92	2.3
1,2-Dichloroethane		ND		0.92	2.3
Acetone		ND	J	16	230
1,2-Dichloropropane		ND		0.92	2.3
1,3,5-Trimethylbenzene		ND		0.92	2.3
1,3-Dichlorobenzene		ND		0.92	2.3
1,3-Dichloropropane		ND		0.92	2.3
1,4-Dichlorobenzene		ND		0.92	2.3
1,4-Dioxane		ND		30	230
2,2-Dichloropropane		ND	J	0.92	2.3
2,4,4-Trimethyl-1-pentene		ND		0.92	4.6
2,4,4-Trimethyl-2-pentene		ND		0.92	4.6
2-Chlorotoluene		ND		0.92	2.3
2-Hexanone		ND		4.7	23
4-Chlorotoluene		ND		0.92	2.3
Benzene		ND		0.92	2.3
Bromobenzene		ND		0.92	2.3
Chlorobromomethane		ND		0.92	2.3
Dichlorobromomethane		ND		0.92	2.3
Bromoform		ND		0.92	2.3
Bromomethane		ND		0.92	4.6
n-Butylbenzene		ND		0.92	2.3
Carbon disulfide		ND		0.92	2.3
Carbon tetrachloride		ND		0.92	2.3
Chlorobenzene		ND		0.92	2.3
Chloroethane		ND		0.92	4.6
Chloroform		ND		0.92	2.3
Chloromethane		ND		0.92	4.6
cis-1,2-Dichloroethene		ND		0.92	2.3
cis-1,3-Dichloropropene		ND		0.92	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.92	2.3

4-6-10 TC

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-SB-471-3.0/5.0-XXX

Lab Sample ID: 360-24417-15
Client Matrix: Solid

% Moisture: 18.9

Date Sampled: 09/02/2009 1330
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44814.D
Dilution:	1.0			Initial Weight/Volume:	6.71 g
Date Analyzed:	09/09/2009 0228			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.92	2.3
Dichlorodifluoromethane		ND	*	0.92	4.6
Ethyl ether		ND		0.92	2.3
Isopropyl ether		ND		0.92	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.92	2.3
Hexachlorobutadiene		ND		0.92	2.3
Isopropylbenzene		ND		0.92	2.3
Methyl acetate		ND		15	46
2-Butanone (MEK)		ND		6.2	23
4-Methyl-2-pentanone (MIBK)		ND		4.7	23
Methyl tert-butyl ether		ND		0.92	2.3
Methylcyclohexane		ND		0.92	2.3
Methylene Chloride		ND		4.4	9.2
m-Xylene & p-Xylene		ND		0.92	4.6
Naphthalene		ND		0.92	23
N-Propylbenzene		ND		0.92	2.3
o-Xylene		ND		0.92	2.3
4-Isopropyltoluene		ND		0.92	2.3
sec-Butylbenzene		ND		0.92	2.3
Styrene		ND		0.92	2.3
Tert-amyl methyl ether		ND		0.92	2.3
tert-Butylbenzene		ND		0.92	2.3
Tetrachloroethene		ND		0.92	2.3
Tetrahydrofuran		ND		5.1	23
Toluene		ND		0.92	2.3
trans-1,2-Dichloroethene		ND		0.92	2.3
trans-1,3-Dichloropropene		ND		0.92	2.3
Trichloroethene		ND		0.92	2.3
Trichlorofluoromethane		ND		0.92	4.6
Vinyl chloride		ND		0.92	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	96		70 - 130

TC 4/6/10

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-SB-471-3.0/5.0-XXX**

Lab Sample ID: 360-24417-15
Client Matrix: Solid % Moisture: 18.9

Date Sampled: 09/02/2009 1330
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48711		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48710		Lab File ID:	V44814.D
Dilution:	1.0			Initial Weight/Volume:	6.71 g
Date Analyzed:	09/09/2009 0228			Final Weight/Volume:	5 g
Date Prepared:	09/08/2009 1551				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
~~Unknown~~		~~12.80~~	~~2.1~~	~~TJ~~

4/6/10
TC

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: OC-TBK-012

Lab Sample ID: 360-24417-17
Client Matrix: Solid

Date Sampled: 09/02/2009 1450
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44934.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	09/12/2009 1743			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-TBK-012**

Lab Sample ID: 360-24417-17
Client Matrix: Solid

Date Sampled: 09/02/2009 1450
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44934.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	09/12/2009 1743			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		6.2	J	5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: Olin Corporation

Job Number: 360-24417-1
Sdg Number: OCRI-10

Client Sample ID: **OC-TBK-012**

Lab Sample ID: 360-24417-17
Client Matrix: Solid

Date Sampled: 09/02/2009 1450
Date Received: 09/02/2009 1710

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44934.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	09/12/2009 1743			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	1.5	T J

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

I-Cal

1,4-Dioxane VJ Qual all RRF < 0.05

ICV %D out

acetone -30.9

Dichlorodifluoromethane -41

4/5/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab File ID: V44797.D I-cal 9/8/09 BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 19:37

Analysis Batch No.: 48711

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.8	
75	30.0 - 60.0 % of mass 95	52.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.7	
175	5.0 - 9.0 % of mass 174	5.5	(8.3)1
176	95.0 - 101.0 % of mass 174	65.1	(97.6)1
177	5.0 - 9.0 % of mass 176	4.4	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48711/2	V44798.D	09/08/2009	20:02
	LCS 360-48710/1-A	V44799.D	09/08/2009	20:26
	LCSD 360-48710/2-A	V44800.D	09/08/2009	20:50
	MB 360-48710/3-A	V44802.D	09/08/2009	21:38
OC-SB-463-6.0/8.0-XXX	360-24417-3	V44810.D	09/09/2009	00:52
OC-SB-464-5.0/7.0-XXX	360-24417-6	V44811.D	09/09/2009	01:16
OC-SB-465-8.0/10-DUP	360-24417-9	V44812.D	09/09/2009	01:40
OC-SB-468-8.0/10-XXX	360-24417-13	V44813.D	09/09/2009	02:04
OC-SB-471-3.0/5.0-XXX	360-24417-15	V44814.D	09/09/2009	02:28

W/in Control

Dichlorodifluoromethane 61%/62%

naphthalene @ 1.16 ug/kg
no hits in samples
no Quals

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab File ID: V44836A.D I-cal BFB Injection Date: 09/09/2009

Instrument ID: HP #1 GC/MS 9/08/09 BFB Injection Time: 16:42

Analysis Batch No.: 48767

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.5	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	64.6	
175	5.0 - 9.0 % of mass 174	5.2	(8.0)1
176	95.0 - 101.0 % of mass 174	63.0	(97.6)1
177	5.0 - 9.0 % of mass 176	4.3	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48767/2	V44837.D	09/09/2009	16:42
	LCS 360-48765/1-A	V44838.D	09/09/2009	17:06
	LCSD 360-48765/2-A	V44839.D	09/09/2009	17:30
OC-SB-465-8.0/10-XXX MS	360-24417-10 MS	V44840.D	09/09/2009	17:54
OC-SB-465-8.0/10-XXX MSD	360-24417-10 MSD	V44841.D	09/09/2009	18:18
	MB 360-48765/3-A	V44843.D	09/09/2009	19:05
OC-SB-465-8.0/10-XXX	360-24417-10	V44845.D	09/09/2009	19:53

w/in Control

Dichlorodifluoromethane 61%/67%

MeCl2 @ 5.03 ug/Kg
(U) Qualified a detection in OC-SB-465-8.0/10-XXX

Dichlorodifluoromethane MS 63 MSD 65

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab File ID: V44920.D BFB Injection Date: 09/12/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 12:07

Analysis Batch No.: 48878

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.0	
75	30.0 - 60.0 % of mass 95	50.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.8	
175	5.0 - 9.0 % of mass 174	5.3	(8.4)1
176	95.0 - 101.0 % of mass 174	63.4	(99.4)1
177	5.0 - 9.0 % of mass 176	4.3	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48878/2	V44921.D	09/12/2009	12:31
	LCS 360-48877/1-A	V44922.D	09/12/2009	12:55
	LCSD 360-48877/2-A	V44923.D	09/12/2009	13:19
	MB 360-48877/3-A	V44925.D	09/12/2009	14:06
OC-SB-463-0.0/1.0-XXX	360-24417-1	V44929.D	09/12/2009	15:42
OC-SB-464-0.0/1.0-XXX	360-24417-4	V44930.D	09/12/2009	16:06
OC-SB-465-0.0/1.0-XXX	360-24417-7	V44931.D	09/12/2009	16:30
OC-SB-468-0.0/1.0-XXX	360-24417-11	V44932.D	09/12/2009	16:54
OC-SB-471-0.0/1.0-XXX	360-24417-14	V44933.D	09/12/2009	17:18
OC-TBK-012	360-24417-17	V44934.D	09/12/2009	17:43

w/in control

Dichlorodifluoromethane 58%/60%

clean

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab File ID: V45012.D BFB Injection Date: 09/15/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 14:44

Analysis Batch No.: 48976

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.8	
75	30.0 - 60.0 % of mass 95	50.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.8	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	66.3	(97.8)1
177	5.0 - 9.0 % of mass 176	4.6	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48976/2	V45013.D	09/15/2009	15:08
	LCS 360-48975/1-A	V45014.D	09/15/2009	15:33
	LCSD 360-48975/2-A	V45015.D	09/15/2009	15:57
	MB 360-48975/3-A	V45019.D	09/15/2009	17:34
OC-SB-465-16/18-XXX	360-24417-8	V45030.D	09/15/2009	21:58

w/in control

Dichlorodifluoromethane 61%/60%

clean

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-463-0.0/1.0-XXX	360-24417-1	105	101	100
OC-SB-463-6.0/8.0-XXX	360-24417-3	104	98	105
OC-SB-464-0.0/1.0-XXX	360-24417-4	102	100	101
OC-SB-464-5.0/7.0-XXX	360-24417-6	103	98	104
OC-SB-465-0.0/1.0-XXX	360-24417-7	101	101	97
OC-SB-465-16/18-XXX	360-24417-8	102	101	99
OC-SB-465-8.0/10-DUP	360-24417-9	102	98	104
OC-SB-465-8.0/10-XXX	360-24417-10	102	100	102
OC-SB-468-0.0/1.0-XXX	360-24417-11	89	100	99
OC-SB-468-8.0/10-XXX	360-24417-13	102	98	107
OC-SB-471-0.0/1.0-XXX	360-24417-14	96	101	97
OC-SB-471-3.0/5.0-XXX	360-24417-15	103	96	105
OC-TBK-012	360-24417-17	96	102	94
	MB 360-48710/3-A	99	101	103
	MB 360-48765/3-A	101	99	103
	MB 360-48877/3-A	105	99	105
	MB 360-48975/3-A	104	101	102
	LCS 360-48710/1-A	98	100	101
	LCS 360-48765/1-A	100	99	97
	LCS 360-48877/1-A	99	101	96
	LCS 360-48975/1-A	99	101	95
	LCSD 360-48710/2-A	99	101	100
	LCSD 360-48765/2-A	99	99	98
	LCSD 360-48877/2-A	100	100	97
	LCSD 360-48975/2-A	99	102	95

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

4/5/10
TC

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-465-8.0/10-X XX MS	360-24417-10 MS	98	100	97
OC-SB-465-8.0/10-X XX MSD	360-24417-10 MSD	100	98	100

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

4/5/10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: ICV 360-48701/9 Calibration Date: 09/08/2009 19:13

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44796.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2809		58.2	100	-41.8*	30.0
Chloromethane	Ave	0.9034	0.7721	0.1000	91.4	100	-8.5	30.0
Vinyl chloride	Ave	0.6300	0.5305		89.4	100	-15.8	30.0
Bromomethane	Ave	0.3127	0.2881		96.6	100	-7.9	30.0
Chloroethane	Lin2		0.3159		97.4	100	-2.6	30.0
Trichlorofluoromethane	Ave	0.5183	0.4459		86.0	100	-14.0	30.0
Ethyl ether	Ave	0.2603	0.2269		93.1	100	-12.8	30.0
1,1-Dichloroethene	Ave	0.3201	0.2867		93.2	100	-10.4	30.0
Carbon disulfide	Ave	1.395	1.292		92.7	100	-7.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1678		90.3	100	-9.7	30.0
Acrolein	Ave	0.7836	0.8353		5330	5000	6.6	30.0
Methylene Chloride	Lin1		0.3422		97.8	100	-2.2	30.0
Acetone	Lin2		0.0365		691	1000	-30.9*	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6302		89.4	100	-10.7	30.0
Methyl acetate	Lin1		0.1409		968	1000	-3.2	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5991		85.7	100	-14.3	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3790		989	1000	-1.1	30.0
Isopropyl ether	Ave	1.997	1.774		89.1	100	-11.2	30.0
1,1-Dichloroethane	Ave	0.7919	0.7286	0.1000	98.1	100	-8.0	30.0
Acrylonitrile	Lin1		0.0621		95.3	100	-4.7	30.0
Tert-butyl ethyl ether	Ave	1.194	1.063		89.1	100	-10.9	30.0
Vinyl acetate	Ave	0.5745	0.4385		763	1000	-23.7	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5793		94.1	100	-5.8	30.0
2,2-Dichloropropane	Ave	0.5371	0.4945		106	100	-7.9	30.0
Cyclohexane	Ave	0.8898	0.8215		92.9	100	-7.7	30.0
Chlorobromomethane	Ave	0.1386	0.1254		90.5	100	-9.5	30.0
Chloroform	Ave	0.6243	0.5520		94.5	100	-11.6	30.0
Carbon tetrachloride	Ave	0.3645	0.3253		88.9	100	-10.8	30.0
Tetrahydrofuran	Ave	0.0762	0.0643		918	1000	-15.7	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4713		90.3	100	-8.9	30.0
2-Butanone (MEK)	Ave	0.0960	0.0716		789	1000	-25.5	30.0
1,1-Dichloropropene	Ave	0.4990	0.4485		89.8	100	-10.1	30.0
Benzene	Ave	1.352	1.237		91.5	100	-8.5	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6686		87.7	100	-12.3	30.0
1,2-Dichloroethane	Ave	0.3253	0.2852		87.7	100	-12.3	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3587		106	100	-5.7	30.0
Methylcyclohexane	Ave	0.6300	0.5963		95.1	100	-5.4	30.0
Trichloroethene	Ave	0.3155	0.2852		94.0	100	-9.6	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1829		97.7	100	-2.3	30.0
Dibromomethane	Ave	0.1188	0.1009		84.5	100	-15.1	30.0

4/5/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: ICV 360-48701/9 Calibration Date: 09/08/2009 19:13

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44796.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2806		99.6	100	-11.8	30.0
Dichlorobromomethane	Ave	0.3427	0.3047		88.2	100	-11.1	30.0
Methyl methacrylate	Ave	0.0864	0.0741		83.9	100	-14.3	30.0
1,4-Dioxane	Qua		0.0215		1000	1000	0.1	30.0
2-Chloroethyl vinyl ether	Lin		0.0277		772	1000	-22.8	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3428		86.2	100	-13.8	30.0
Toluene	Ave	0.7062	0.6354		92.5	100	-10.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1575		771	1000	-23.1	30.0
Tetrachloroethene	Ave	0.1859	0.1710		91.8	100	-8.0	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2543		87.5	100	-12.7	30.0
1,1,2-Trichloroethane	Lin1		0.1061		85.2	100	-14.8	30.0
Chlorodibromomethane	Ave	0.1504	0.1256		83.5	100	-16.5	30.0
1,3-Dichloropropane	Ave	0.2828	0.2393		84.6	100	-15.4	30.0
Ethylene Dibromide	Ave	0.1260	0.1093		86.6	100	-13.3	30.0
2-Hexanone	Ave	0.1294	0.0944		741	1000	-27.0	30.0
Chlorobenzene	Ave	1.096	0.9983	0.3000	91.7	100	-8.9	30.0
Ethylbenzene	Ave	2.279	2.091		98.1	100	-8.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3262		98.5	100	-6.1	30.0
m-Xylene & p-Xylene	Ave	1.752	1.632		186	200	-6.9	30.0
o-Xylene	Ave	1.903	1.794		94.6	100	-5.8	30.0
Styrene	Ave	1.294	1.186		91.9	100	-8.4	30.0
Bromoform	Ave	0.3131	0.2672	0.1000	81.4	100	-14.7	30.0
Isopropylbenzene	Ave	2.255	2.177		96.7	100	-3.5	30.0
Bromobenzene	Ave	1.024	0.9365		91.9	100	-8.5	30.0
N-Propylbenzene	Ave	2.901	2.784		95.9	100	-4.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5837	0.3000	84.7	100	-14.8	30.0
2-Chlorotoluene	Ave	1.927	1.807		94.2	100	-6.2	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.788		96.7	100	-3.4	30.0
1,2,3-Trichloropropane	Lin2		0.0628		101	100	1.0	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1023		96.2	100	-3.8	30.0
4-Chlorotoluene	Ave	1.683	1.616		95.6	100	-4.0	30.0
tert-Butylbenzene	Ave	1.471	1.459		99.1	100	-0.8	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.766		93.9	100	-5.8	30.0
sec-Butylbenzene	Ave	2.518	2.422		96.2	100	-3.8	30.0
4-Isopropyltoluene	Ave	1.894	1.889		99.5	100	-0.3	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7990		94.9	100	-5.1	30.0
1,4-Dichlorobenzene	Ave	1.788	1.668		93.6	100	-6.7	30.0
n-Butylbenzene	Ave	4.614	4.465		96.8	100	-3.2	30.0
1,2-Dichlorobenzene	Ave	1.492	1.370		91.9	100	-8.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0672		87.3	100	-12.7	30.0
Hexachlorobutadiene	Ave	0.5170	0.5013		97.0	100	-3.0	30.0

4/5/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: ICV 360-48701/9 Calibration Date: 09/08/2009 19:13

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44796.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9441		96.8	100	-3.2	30.0
Naphthalene	Ave	1.288	1.195		92.8	100	-7.2	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7174		99.4	100	-0.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2272		97.6	100	-2.4	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8951		101	100	0.8	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5636		98.4	100	-1.6	30.0

4/5/10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48711/2 Calibration Date: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44798.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4267		17.7	20.0	-11.6	30.0
Chloromethane	Ave	0.9034	0.8147	0.1000	19.4	20.0	-9.8	30.0
Vinyl chloride	Ave	0.6300	0.5535		18.7	20.0	-12.2	20.0
Bromomethane	Ave	0.3127	0.2870		19.2	20.0	-8.2	30.0
Chloroethane	Lin2		0.3212		19.8	20.0	-0.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4560		17.6	20.0	-12.0	30.0
Ethyl ether	Ave	0.2603	0.2528		20.8	20.0	-2.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.2911		18.9	20.0	-9.0	20.0
Carbon disulfide	Ave	1.395	1.266		18.2	20.0	-9.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1663		17.9	20.0	-10.5	30.0
Acrolein	Ave	0.7836	0.7714		984	1000	-1.6	30.0
Methylene Chloride	Lin1		0.3608		20.7	20.0	3.4	30.0
Acetone	Lin2		0.0546		209	200	4.5	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6417		18.2	20.0	-9.1	30.0
Methyl acetate	Lin1		0.1507		207	200	3.6	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6704		19.2	20.0	-4.1	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3628		189	200	-5.4	30.0
Isopropyl ether	Ave	1.997	1.926		19.4	20.0	-3.6	30.0
1,1-Dichloroethane	Ave	0.7919	0.7422	0.1000	20.0	20.0	-6.3	30.0
Acrylonitrile	Lin1		0.0659		20.3	20.0	1.4	30.0
Tert-butyl ethyl ether	Ave	1.194	1.175		19.7	20.0	-1.5	30.0
Vinyl acetate	Ave	0.5745	0.5927		206	200	3.2	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5877		19.1	20.0	-4.4	30.0
2,2-Dichloropropane	Ave	0.5371	0.4569		19.4	20.0	-14.9	30.0
Chlorobromomethane	Ave	0.1386	0.1366		19.7	20.0	-1.4	30.0
Cyclohexane	Ave	0.8898	0.7961		18.0	20.0	-10.5	30.0
Chloroform	Ave	0.6243	0.5772		19.8	20.0	-7.5	20.0
Carbon tetrachloride	Ave	0.3645	0.3368		18.4	20.0	-7.6	30.0
Tetrahydrofuran	Ave	0.0762	0.0745		213	200	-2.2	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4633		17.7	20.0	-10.4	30.0
2-Butanone (MEK)	Ave	0.0960	0.0947		210	200	-1.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4586		18.4	20.0	-8.1	30.0
Benzene	Ave	1.352	1.315		19.5	20.0	-2.7	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7620		20.0	20.0	0.0	30.0
1,2-Dichloroethane	Ave	0.3253	0.3207		19.7	20.0	-1.4	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3173		18.5	20.0	-16.6	30.0
Methylcyclohexane	Ave	0.6300	0.5754		18.3	20.0	-8.7	30.0
Trichloroethene	Ave	0.3155	0.2950		19.4	20.0	-6.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1671		17.9	20.0	-10.7	30.0
Dibromomethane	Ave	0.1188	0.1209		20.3	20.0	1.8	30.0

4/5/10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48711/2 Calibration Date: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44798.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3026		21.5	20.0	-4.9	20.0
Dichlorobromomethane	Ave	0.3427	0.3416		19.8	20.0	-0.3	30.0
Methyl methacrylate	Ave	0.0864	0.0927		21.0	20.0	7.3	30.0
1,4-Dioxane	Qua		0.0204		190	200	-5.0	30.0
2-Chloroethyl vinyl ether	Lin		0.0414		222	200	11.0	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.4142		20.8	20.0	4.2	30.0
Toluene	Ave	0.7062	0.6889		20.1	20.0	-2.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.2131		209	200	4.0	30.0
Tetrachloroethene	Ave	0.1859	0.1874		20.1	20.0	0.8	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.3076		21.2	20.0	5.5	30.0
1,1,2-Trichloroethane	Lin1		0.1310		20.9	20.0	4.7	30.0
Chlorodibromomethane	Ave	0.1504	0.1549		20.6	20.0	3.0	30.0
1,3-Dichloropropane	Ave	0.2828	0.2918		20.6	20.0	3.2	30.0
Ethylene Dibromide	Ave	0.1260	0.1329		21.1	20.0	5.5	30.0
2-Hexanone	Ave	0.1294	0.1350		212	200	4.3	30.0
Chlorobenzene	Ave	1.096	1.063	0.3000	19.5	20.0	-3.0	30.0
Ethylbenzene	Ave	2.279	2.113		19.8	20.0	-7.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3333		20.1	20.0	-4.1	30.0
m-Xylene & p-Xylene	Ave	1.752	1.637		37.4	40.0	-6.6	30.0
o-Xylene	Ave	1.903	1.780		18.8	20.0	-6.5	30.0
Styrene	Ave	1.294	1.244		19.3	20.0	-3.9	30.0
Bromoform	Ave	0.3131	0.3200	0.1000	19.3	20.0	2.2	20.0
Isopropylbenzene	Ave	2.255	2.092		18.6	20.0	-7.2	30.0
Bromobenzene	Ave	1.024	0.9511		18.7	20.0	-7.1	30.0
N-Propylbenzene	Ave	2.901	2.655		18.3	20.0	-8.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6784	0.3000	19.7	20.0	-0.9	30.0
2-Chlorotoluene	Ave	1.927	1.771		18.5	20.0	-8.1	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.715		18.5	20.0	-7.4	30.0
1,2,3-Trichloropropane	Lin2		0.0630		20.3	20.0	1.4	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1056		19.9	20.0	-0.6	30.0
4-Chlorotoluene	Ave	1.683	1.567		18.5	20.0	-6.9	30.0
tert-Butylbenzene	Ave	1.471	1.371		18.6	20.0	-6.8	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.716		18.2	20.0	-8.4	30.0
sec-Butylbenzene	Ave	2.518	2.298		18.3	20.0	-8.7	30.0
4-Isopropyltoluene	Ave	1.894	1.751		18.4	20.0	-7.6	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7806		18.5	20.0	-7.2	30.0
1,4-Dichlorobenzene	Ave	1.788	1.741		19.5	20.0	-2.6	30.0
n-Butylbenzene	Ave	4.614	4.348		18.8	20.0	-5.8	30.0
1,2-Dichlorobenzene	Ave	1.492	1.464		19.6	20.0	-1.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0775		20.1	20.0	0.7	30.0
Hexachlorobutadiene	Ave	0.5170	0.4963		19.2	20.0	-4.0	30.0

4/5/10 TE

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48711/2 Calibration Date: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44798.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9552		19.6	20.0	-2.0	30.0
Naphthalene	Ave	1.288	1.298		20.2	20.0	0.8	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7322		20.3	20.0	1.5	30.0
Dibromofluoromethane	Ave	0.2328	0.2332		20.0	20.0	0.2	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9123		20.5	20.0	2.7	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5523		19.3	20.0	-3.6	30.0

4/5/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48767/2 Calibration Date: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44837.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4534		18.8	20.0	-6.1	30.0
Chloromethane	Ave	0.9034	0.7851	0.1000	18.6	20.0	-13.1	30.0
Vinyl chloride	Ave	0.6300	0.5356		18.1	20.0	-15.0	20.0
Bromomethane	Ave	0.3127	0.2857		19.2	20.0	-8.6	30.0
Chloroethane	Lin2		0.3023		18.6	20.0	-7.1	30.0
Trichlorofluoromethane	Ave	0.5183	0.4732		18.3	20.0	-8.7	30.0
Ethyl ether	Ave	0.2603	0.2240		18.4	20.0	-14.0	30.0
1,1-Dichloroethene	Ave	0.3201	0.2793		18.1	20.0	-12.7	20.0
Carbon disulfide	Ave	1.395	1.077		15.5	20.0	-22.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1631		17.6	20.0	-12.2	30.0
Acrolein	Ave	0.7836	0.6624		845	1000	-15.5	30.0
Methylene Chloride	Lin1		0.3658		21.0	20.0	4.9	30.0
Acetone	Lin2		0.0531		203	200	1.5	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.5911		16.8	20.0	-16.3	30.0
Methyl acetate	Lin1		0.1351		186	200	-7.2	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6190		17.7	20.0	-11.5	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2764		144	200	-27.9	30.0
Isopropyl ether	Ave	1.997	1.745		17.5	20.0	-12.6	30.0
1,1-Dichloroethane	Ave	0.7919	0.6728	0.1000	18.1	20.0	-15.0	30.0
Acrylonitrile	Lin1		0.0640		19.7	20.0	-1.5	30.0
Tert-butyl ethyl ether	Ave	1.194	1.077		18.1	20.0	-9.7	30.0
Vinyl acetate	Ave	0.5745	0.5579		194	200	-2.9	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5333		17.3	20.0	-13.3	30.0
2,2-Dichloropropane	Ave	0.5371	0.4317		18.2	20.0	-19.6	30.0
Cyclohexane	Ave	0.8898	0.7871		17.8	20.0	-11.5	30.0
Chlorobromomethane	Ave	0.1386	0.1279		18.5	20.0	-7.7	30.0
Chloroform	Ave	0.6243	0.5344		18.3	20.0	-14.4	20.0
Carbon tetrachloride	Ave	0.3645	0.3201		17.5	20.0	-12.2	30.0
Tetrahydrofuran	Ave	0.0762	0.0704		202	200	-7.5	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4470		17.1	20.0	-13.6	30.0
2-Butanone (MEK)	Ave	0.0960	0.0883		195	200	-8.0	30.0
1,1-Dichloropropene	Ave	0.4990	0.4343		17.4	20.0	-13.0	30.0
Benzene	Ave	1.352	1.227		18.2	20.0	-9.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7178		18.8	20.0	-5.8	30.0
1,2-Dichloroethane	Ave	0.3253	0.3022		18.6	20.0	-7.1	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3166		18.4	20.0	-16.8	30.0
Methylcyclohexane	Ave	0.6300	0.5726		18.3	20.0	-9.1	30.0
Trichloroethene	Ave	0.3155	0.2813		18.5	20.0	-10.8	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1688		18.0	20.0	-9.9	30.0
Dibromomethane	Ave	0.1188	0.1148		19.2	20.0	-3.3	30.0

4/5/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48767/2 Calibration Date: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44837.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2825		20.1	20.0	-11.2	20.0
Dichlorobromomethane	Ave	0.3427	0.3197		18.5	20.0	-6.7	30.0
Methyl methacrylate	Ave	0.0864	0.0847		19.2	20.0	-1.9	30.0
1,4-Dioxane	Qua		0.0180		167	200	-16.3	30.0
2-Chloroethyl vinyl ether	Lin		0.0630		329	200	64.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3861		19.4	20.0	-2.9	30.0
Toluene	Ave	0.7062	0.6559		19.1	20.0	-7.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1942		190	200	-5.2	30.0
Tetrachloroethene	Ave	0.1859	0.1834		19.7	20.0	-1.3	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2845		19.6	20.0	-2.4	30.0
1,1,2-Trichloroethane	Lin1		0.1193		19.1	20.0	-4.4	30.0
Chlorodibromomethane	Ave	0.1504	0.1453		19.3	20.0	-3.4	30.0
1,3-Dichloropropane	Ave	0.2828	0.2702		19.1	20.0	-4.5	30.0
Ethylene Dibromide	Ave	0.1260	0.1241		19.7	20.0	-1.5	30.0
2-Hexanone	Ave	0.1294	0.1192		187	200	-7.9	30.0
Chlorobenzene	Ave	1.096	0.9938	0.3000	18.3	20.0	-9.3	30.0
Ethylbenzene	Ave	2.279	1.995		18.7	20.0	-12.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3102		18.7	20.0	-10.7	30.0
m-Xylene & p-Xylene	Ave	1.752	1.542		35.2	40.0	-12.0	30.0
o-Xylene	Ave	1.903	1.665		17.5	20.0	-12.5	30.0
Styrene	Ave	1.294	1.118		17.3	20.0	-13.6	30.0
Bromoform	Ave	0.3131	0.2872	0.1000	17.4	20.0	-8.3	20.0
Isopropylbenzene	Ave	2.255	1.984		17.6	20.0	-12.0	30.0
Bromobenzene	Ave	1.024	0.8478		16.6	20.0	-17.2	30.0
N-Propylbenzene	Ave	2.901	2.469		17.0	20.0	-14.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5898	0.3000	17.1	20.0	-13.9	30.0
2-Chlorotoluene	Ave	1.927	1.612		16.8	20.0	-16.4	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.588		17.2	20.0	-14.2	30.0
1,2,3-Trichloropropane	Lin2		0.0588		18.9	20.0	-5.5	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1004		18.9	20.0	-5.6	30.0
4-Chlorotoluene	Ave	1.683	1.413		16.7	20.0	-16.1	30.0
tert-Butylbenzene	Ave	1.471	1.301		17.7	20.0	-11.5	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.606		17.1	20.0	-14.3	30.0
sec-Butylbenzene	Ave	2.518	2.197		17.5	20.0	-12.7	30.0
4-Isopropyltoluene	Ave	1.894	1.664		17.5	20.0	-12.1	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7186		17.1	20.0	-14.6	30.0
1,4-Dichlorobenzene	Ave	1.788	1.561		17.5	20.0	-12.7	30.0
n-Butylbenzene	Ave	4.614	4.044		17.5	20.0	-12.4	30.0
1,2-Dichlorobenzene	Ave	1.492	1.326		17.8	20.0	-11.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0688		17.9	20.0	-10.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4606		17.8	20.0	-10.9	30.0

4/5/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48767/2 Calibration Date: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44837.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.8755		18.0	20.0	-10.2	30.0
Naphthalene	Ave	1.288	1.186		18.4	20.0	-7.9	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6741		18.7	20.0	-6.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2302		19.8	20.0	-1.1	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9013		20.3	20.0	1.5	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5256		18.3	20.0	-8.3	30.0

4/5/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3807		15.8	20.0	-21.1	30.0
Chloromethane	Ave	0.9034	0.7000	0.1000	16.5	20.0	-22.5	30.0
Vinyl chloride	Ave	0.6300	0.4878		16.4	20.0	-22.6*	20.0
Bromomethane	Ave	0.3127	0.2577		17.3	20.0	-17.6	30.0
Chloroethane	Lin2		0.2777		16.9	20.0	-15.4	30.0
Trichlorofluoromethane	Ave	0.5183	0.4067		15.7	20.0	-21.5	30.0
Ethyl ether	Ave	0.2603	0.2193		18.0	20.0	-15.7	30.0
1,1-Dichloroethene	Ave	0.3201	0.2699		17.5	20.0	-15.7	20.0
Carbon disulfide	Ave	1.395	1.145		16.4	20.0	-18.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1556		16.8	20.0	-16.2	30.0
Acrolein	Ave	0.7836	0.6865		876	1000	-12.4	30.0
Methylene Chloride	Lin1		0.3167		18.0	20.0	-9.9	30.0
Acetone	Lin2		0.0593		227	200	13.5	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.5751		16.3	20.0	-18.5	30.0
Methyl acetate	Lin1		0.1613		222	200	10.8	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6100		17.4	20.0	-12.8	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2993		156	200	-21.9	30.0
Isopropyl ether	Ave	1.997	1.736		17.5	20.0	-13.1	30.0
1,1-Dichloroethane	Ave	0.7919	0.6546	0.1000	17.6	20.0	-17.3	30.0
Acrylonitrile	Lin1		0.0634		19.5	20.0	-2.6	30.0
Tert-butyl ethyl ether	Ave	1.194	1.057		17.7	20.0	-11.4	30.0
Vinyl acetate	Ave	0.5745	0.5212		181	200	-9.3	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5153		16.8	20.0	-16.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.4491		19.1	20.0	-16.4	30.0
Cyclohexane	Ave	0.8898	0.7159		16.2	20.0	-19.5	30.0
Chlorobromomethane	Ave	0.1386	0.1200		17.3	20.0	-13.4	30.0
Chloroform	Ave	0.6243	0.5025		17.2	20.0	-19.5	20.0
Carbon tetrachloride	Ave	0.3645	0.3163		17.3	20.0	-13.2	30.0
Tetrahydrofuran	Ave	0.0762	0.0687		197	200	-9.8	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4317		16.5	20.0	-16.5	30.0
2-Butanone (MEK)	Ave	0.0960	0.0919		203	200	-4.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4149		16.6	20.0	-16.8	30.0
Benzene	Ave	1.352	1.159		17.2	20.0	-14.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6945		18.2	20.0	-8.9	30.0
1,2-Dichloroethane	Ave	0.3253	0.2832		17.4	20.0	-13.0	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3159		18.4	20.0	-17.0	30.0
Methylcyclohexane	Ave	0.6300	0.5238		16.7	20.0	-16.9	30.0
Trichloroethene	Ave	0.3155	0.2655		17.5	20.0	-15.8	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1641		17.5	20.0	-12.3	30.0
Dibromomethane	Ave	0.1188	0.1047		17.5	20.0	-11.9	30.0

4/5/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2688		19.1	20.0	-15.5	20.0
Dichlorobromomethane	Ave	0.3427	0.2893		16.8	20.0	-15.6	30.0
Methyl methacrylate	Ave	0.0864	0.0766		17.4	20.0	-11.3	30.0
1,4-Dioxane	Qua		0.0193		179	200	-10.5	30.0
2-Chloroethyl vinyl ether	Lin		0.0582		305	200	52.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3425		17.2	20.0	-13.8	30.0
Toluene	Ave	0.7062	0.6062		17.7	20.0	-14.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1893		185	200	-7.6	30.0
Tetrachloroethene	Ave	0.1859	0.1648		17.7	20.0	-11.3	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2551		17.5	20.0	-12.4	30.0
1,1,2-Trichloroethane	Lin1		0.1117		17.9	20.0	-10.4	30.0
Chlorodibromomethane	Ave	0.1504	0.1330		17.7	20.0	-11.6	30.0
1,3-Dichloropropane	Ave	0.2828	0.2486		17.6	20.0	-12.1	30.0
Ethylene Dibromide	Ave	0.1260	0.1121		17.8	20.0	-11.0	30.0
2-Hexanone	Ave	0.1294	0.1199		188	200	-7.3	30.0
Chlorobenzene	Ave	1.096	0.9706	0.3000	17.8	20.0	-11.4	30.0
Ethylbenzene	Ave	2.279	1.964		18.4	20.0	-13.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3074		18.5	20.0	-11.5	30.0
m-Xylene & p-Xylene	Ave	1.752	1.527		34.9	40.0	-12.9	30.0
o-Xylene	Ave	1.903	1.666		17.6	20.0	-12.5	30.0
Styrene	Ave	1.294	1.155		17.9	20.0	-10.8	30.0
Bromoform	Ave	0.3131	0.2788	0.1000	16.9	20.0	-11.0	20.0
Isopropylbenzene	Ave	2.255	2.019		17.9	20.0	-10.5	30.0
Bromobenzene	Ave	1.024	0.8796		17.3	20.0	-14.1	30.0
N-Propylbenzene	Ave	2.901	2.544		17.5	20.0	-12.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5992	0.3000	17.4	20.0	-12.5	30.0
2-Chlorotoluene	Ave	1.927	1.665		17.4	20.0	-13.6	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.671		18.1	20.0	-9.7	30.0
1,2,3-Trichloropropane	Lin2		0.0610		19.6	20.0	-1.9	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0982		18.5	20.0	-7.7	30.0
4-Chlorotoluene	Ave	1.683	1.457		17.2	20.0	-13.4	30.0
tert-Butylbenzene	Ave	1.471	1.348		18.3	20.0	-8.4	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.660		17.6	20.0	-11.4	30.0
sec-Butylbenzene	Ave	2.518	2.276		18.1	20.0	-9.6	30.0
4-Isopropyltoluene	Ave	1.894	1.716		18.1	20.0	-9.4	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7388		17.5	20.0	-12.2	30.0
1,4-Dichlorobenzene	Ave	1.788	1.553		17.4	20.0	-13.2	30.0
n-Butylbenzene	Ave	4.614	4.077		17.7	20.0	-11.6	30.0
1,2-Dichlorobenzene	Ave	1.492	1.313		17.6	20.0	-12.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0673		17.5	20.0	-12.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4388		17.0	20.0	-15.1	30.0

4/5/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.8609		17.7	20.0	-11.7	30.0
Naphthalene	Ave	1.288	1.128		17.5	20.0	-12.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6515		18.1	20.0	-9.7	30.0
Dibromofluoromethane	Ave	0.2328	0.2313		19.9	20.0	-0.7	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8911		20.1	20.0	0.3	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5556		19.4	20.0	-3.1	30.0

4/5/10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48976/2 Calibration Date: 09/15/2009 15:08

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45013.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.5023		20.8	20.0	4.1	30.0
Chloromethane	Ave	0.9034	0.8329	0.1000	19.8	20.0	-7.8	30.0
Vinyl chloride	Ave	0.6300	0.6026		20.5	20.0	-4.4	20.0
Bromomethane	Ave	0.3127	0.3014		20.2	20.0	-3.6	30.0
Chloroethane	Lin2		0.3235		20.0	20.0	0.0	30.0
Trichlorofluoromethane	Ave	0.5183	0.5266		20.3	20.0	1.6	30.0
Ethyl ether	Ave	0.2603	0.2376		19.5	20.0	-8.7	30.0
1,1-Dichloroethene	Ave	0.3201	0.3067		20.0	20.0	-4.2	20.0
Carbon disulfide	Ave	1.395	1.261		18.1	20.0	-9.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1768		19.0	20.0	-4.9	30.0
Acrolein	Ave	0.7836	0.8010		1020	1000	2.2	30.0
Methylene Chloride	Lin1		0.3428		19.6	20.0	-2.0	30.0
Acetone	Lin2		0.0569		218	200	9.0	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6310		17.9	20.0	-10.6	30.0
Methyl acetate	Lin1		0.1377		189	200	-5.4	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6075		17.4	20.0	-13.1	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3262		170	200	-14.9	30.0
Isopropyl ether	Ave	1.997	1.788		18.0	20.0	-10.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7117	0.1000	19.2	20.0	-10.1	30.0
Acrylonitrile	Lin1		0.0629		19.3	20.0	-3.3	30.0
Tert-butyl ethyl ether	Ave	1.194	1.061		17.8	20.0	-11.1	30.0
Vinyl acetate	Ave	0.5745	0.5937		207	200	3.4	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5700		18.5	20.0	-7.3	30.0
2,2-Dichloropropane	Ave	0.5371	0.4630		19.7	20.0	-13.8	30.0
Cyclohexane	Ave	0.8898	0.7690		17.4	20.0	-13.6	30.0
Chlorobromomethane	Ave	0.1386	0.1293		18.7	20.0	-6.7	30.0
Chloroform	Ave	0.6243	0.5516		18.9	20.0	-11.6	20.0
Carbon tetrachloride	Ave	0.3645	0.3595		19.7	20.0	-1.4	30.0
Tetrahydrofuran	Ave	0.0762	0.0722		207	200	-5.2	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4726		18.1	20.0	-8.6	30.0
2-Butanone (MEK)	Ave	0.0960	0.1040		230	200	8.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4925		19.7	20.0	-1.3	30.0
Benzene	Ave	1.352	1.353		20.0	20.0	0.1	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7063		18.5	20.0	-7.3	30.0
1,2-Dichloroethane	Ave	0.3253	0.3139		19.3	20.0	-3.5	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3479		20.4	20.0	-8.6	30.0
Methylcyclohexane	Ave	0.6300	0.5711		18.2	20.0	-9.4	30.0
Trichloroethene	Ave	0.3155	0.3209		21.2	20.0	1.7	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1829		19.5	20.0	-2.3	30.0
Dibromomethane	Ave	0.1188	0.1202		20.1	20.0	1.2	30.0

4/5/10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48976/2 | Calibration Date: 09/15/2009 15:08

Instrument ID: HP #1 GC/MS | Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) | Calib End Date: 09/08/2009 18:49

Lab File ID: V45013.D | Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3137		22.3	20.0	-1.4	20.0
Dichlorobromomethane	Ave	0.3427	0.3475		20.1	20.0	1.4	30.0
Methyl methacrylate	Ave	0.0864	0.0939		21.3	20.0	8.7	30.0
1,4-Dioxane	Qua		0.0226		211	200	5.3	30.0
2-Chloroethyl vinyl ether	Lin		0.0862		443	200	122.0*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.4246		21.4	20.0	6.8	30.0
Toluene	Ave	0.7062	0.7447		21.7	20.0	5.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.2217		217	200	8.2	30.0
Tetrachloroethene	Ave	0.1859	0.2126		22.8	20.0	14.4	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.3105		21.4	20.0	6.6	30.0
1,1,2-Trichloroethane	Lin1		0.1301		20.8	20.0	4.0	30.0
Chlorodibromomethane	Ave	0.1504	0.1539		20.5	20.0	2.3	30.0
1,3-Dichloropropane	Ave	0.2828	0.2967		21.0	20.0	4.9	30.0
Ethylene Dibromide	Ave	0.1260	0.1326		21.0	20.0	5.3	30.0
2-Hexanone	Ave	0.1294	0.1446		227	200	11.7	30.0
Chlorobenzene	Ave	1.096	1.101	0.3000	20.2	20.0	0.5	30.0
Ethylbenzene	Ave	2.279	2.211		20.8	20.0	-3.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3229		19.5	20.0	-7.1	30.0
m-Xylene & p-Xylene	Ave	1.752	1.708		39.0	40.0	-2.5	30.0
o-Xylene	Ave	1.903	1.768		18.6	20.0	-7.1	30.0
Styrene	Ave	1.294	1.240		19.2	20.0	-4.2	30.0
Bromoform	Ave	0.3131	0.3220	0.1000	19.4	20.0	2.8	20.0
Isopropylbenzene	Ave	2.255	2.162		19.2	20.0	-4.1	30.0
Bromobenzene	Ave	1.024	0.8898		17.5	20.0	-13.1	30.0
N-Propylbenzene	Ave	2.901	2.717		18.7	20.0	-6.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6547	0.3000	19.0	20.0	-4.4	30.0
2-Chlorotoluene	Ave	1.927	1.724		18.0	20.0	-10.6	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.704		18.4	20.0	-8.0	30.0
1,2,3-Trichloropropane	Lin2		0.0592		19.0	20.0	-4.9	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0920		17.3	20.0	-13.6	30.0
4-Chlorotoluene	Ave	1.683	1.517		18.0	20.0	-9.9	30.0
tert-Butylbenzene	Ave	1.471	1.410		19.2	20.0	-4.1	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.689		18.0	20.0	-9.9	30.0
sec-Butylbenzene	Ave	2.518	2.399		19.1	20.0	-4.7	30.0
4-Isopropyltoluene	Ave	1.894	1.786		18.8	20.0	-5.7	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7454		17.7	20.0	-11.4	30.0
1,4-Dichlorobenzene	Ave	1.788	1.753		19.7	20.0	-2.0	30.0
n-Butylbenzene	Ave	4.614	4.767		20.7	20.0	3.3	30.0
1,2-Dichlorobenzene	Ave	1.492	1.475		19.8	20.0	-1.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0742		19.3	20.0	-3.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.5568		21.5	20.0	7.7	30.0

4/5/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Lab Sample ID: CCVIS 360-48976/2 Calibration Date: 09/15/2009 15:08

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45013.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9917		20.3	20.0	1.7	30.0
Naphthalene	Ave	1.288	1.214		18.8	20.0	-5.8	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7430		20.6	20.0	3.0	30.0
Dibromofluoromethane	Ave	0.2328	0.2214		19.0	20.0	-4.9	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9281		20.9	20.0	4.5	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5139		17.9	20.0	-10.3	30.0

4/5/10
TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

4/5/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	1.16	J	25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

no hits in samples

4/5/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	103	70-130	
1868-53-7	Dibromofluoromethane	99	70-130	
2037-26-5	Toluene-d8 (Surr)	101	70-130	

TC 4/5/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: | Lab Sample ID: MB 360-48710/3-A

Matrix: Solid | Lab File ID: V44802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/08/2009 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48711 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

TC
4/5/10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: Lab Sample ID: MB 360-48765/3-A

Matrix: Solid Lab File ID: V44843.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/09/2009 19:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48767 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

4/5/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: Lab Sample ID: MB 360-48765/3-A

Matrix: Solid Lab File ID: V44843.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/09/2009 19:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48767 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	6.03	J	10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

4/5/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: | Lab Sample ID: MB 360-48765/3-A

Matrix: Solid | Lab File ID: V44843.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/09/2009 19:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48767 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	103	70-130	
1868-53-7	Dibromofluoromethane	101	70-130	
2037-26-5	Toluene-d8 (Surr)	99	70-130	

4/5/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: | Lab Sample ID: MB 360-48765/3-A

Matrix: Solid | Lab File ID: V44843.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/09/2009 19:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48767 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 2.16

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	12.79	2.16	T J

4/5/10
TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: Lab Sample ID: MB 360-48877/3-A

Matrix: Solid Lab File ID: V44925.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/12/2009 14:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48878 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

4/5/10 TE

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: Lab Sample ID: MB 360-48877/3-A

Matrix: Solid Lab File ID: V44925.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/12/2009 14:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48878 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

4/5/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: | Lab Sample ID: MB 360-48877/3-A

Matrix: Solid | Lab File ID: V44925.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/12/2009 14:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48878 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	105	70-130	
1868-53-7	Dibromofluoromethane	105	70-130	
2037-26-5	Toluene-d8 (Surr)	99	70-130	

4/5/10
TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: Lab Sample ID: MB 360-48877/3-A

Matrix: Solid Lab File ID: V44925.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 09/12/2009 14:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.25(um)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 48878 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 5.84

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	3.63	5.84	T J

4/5/10
TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: | Lab Sample ID: MB 360-48975/3-A

Matrix: Solid | Lab File ID: V45019.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/15/2009 17:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48976 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		2.5	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0
79-00-5	1,1,2-Trichloroethane	ND		2.5	1.0
75-34-3	1,1-Dichloroethane	ND		2.5	1.0
75-35-4	1,1-Dichloroethene	ND		2.5	1.0
563-58-6	1,1-Dichloropropene	ND		2.5	1.0
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	1.0
96-18-4	1,2,3-Trichloropropane	ND		2.5	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	1.8
106-93-4	Ethylene Dibromide	ND		2.5	1.0
95-50-1	1,2-Dichlorobenzene	ND		2.5	1.0
107-06-2	1,2-Dichloroethane	ND		2.5	1.0
67-64-1	Acetone	ND		250	18
78-87-5	1,2-Dichloropropane	ND		2.5	1.0
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	1.0
541-73-1	1,3-Dichlorobenzene	ND		2.5	1.0
142-28-9	1,3-Dichloropropane	ND		2.5	1.0
106-46-7	1,4-Dichlorobenzene	ND		2.5	1.0
123-91-1	1,4-Dioxane	ND		250	33
594-20-7	2,2-Dichloropropane	ND		2.5	1.0
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	1.0
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	1.0
95-49-8	2-Chlorotoluene	ND		2.5	1.0
591-78-6	2-Hexanone	ND		25	5.1
106-43-4	4-Chlorotoluene	ND		2.5	1.0
71-43-2	Benzene	ND		2.5	1.0
108-86-1	Bromobenzene	ND		2.5	1.0
74-97-5	Chlorobromomethane	ND		2.5	1.0
75-27-4	Dichlorobromomethane	ND		2.5	1.0
75-25-2	Bromoform	ND		2.5	1.0
74-83-9	Bromomethane	ND		5.0	1.0

4/5/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: | Lab Sample ID: MB 360-48975/3-A

Matrix: Solid | Lab File ID: V45019.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/15/2009 17:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48976 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
104-51-8	n-Butylbenzene	ND		2.5	1.0
75-15-0	Carbon disulfide	ND		2.5	1.0
56-23-5	Carbon tetrachloride	ND		2.5	1.0
108-90-7	Chlorobenzene	ND		2.5	1.0
75-00-3	Chloroethane	ND		5.0	1.0
67-66-3	Chloroform	ND		2.5	1.0
74-87-3	Chloromethane	ND		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	ND		2.5	1.0
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	1.0
110-82-7	Cyclohexane	ND		25	2.6
124-48-1	Chlorodibromomethane	ND		2.5	1.0
74-95-3	Dibromomethane	ND		2.5	1.0
75-71-8	Dichlorodifluoromethane	ND		5.0	1.0
60-29-7	Ethyl ether	ND		2.5	1.0
108-20-3	Isopropyl ether	ND		2.5	1.0
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.5
100-41-4	Ethylbenzene	ND		2.5	1.0
87-68-3	Hexachlorobutadiene	ND		2.5	1.0
98-82-8	Isopropylbenzene	ND		2.5	1.0
79-20-9	Methyl acetate	ND		50	16
78-93-3	2-Butanone (MEK)	ND		25	6.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	5.2
1634-04-4	Methyl tert-butyl ether	ND		2.5	1.0
108-87-2	Methylcyclohexane	ND		2.5	1.0
75-09-2	Methylene Chloride	ND		10	4.8
136777-61-2	m-Xylene & p-Xylene	ND		5.0	1.0
91-20-3	Naphthalene	ND		25	1.0
103-65-1	N-Propylbenzene	ND		2.5	1.0
95-47-6	o-Xylene	ND		2.5	1.0
99-87-6	4-Isopropyltoluene	ND		2.5	1.0
135-98-8	sec-Butylbenzene	ND		2.5	1.0
100-42-5	Styrene	ND		2.5	1.0
994-05-8	Tert-amyl methyl ether	ND		2.5	1.0
98-06-6	tert-Butylbenzene	ND		2.5	1.0
127-18-4	Tetrachloroethene	ND		2.5	1.0
109-99-9	Tetrahydrofuran	ND		25	5.5

4/5/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: | Lab Sample ID: MB 360-48975/3-A

Matrix: Solid | Lab File ID: V45019.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/15/2009 17:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48976 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.5	1.0
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	1.0
79-01-6	Trichloroethene	ND		2.5	1.0
75-69-4	Trichlorofluoromethane	ND		5.0	1.0
75-01-4	Vinyl chloride	ND		2.5	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene	102	70-130	
1868-53-7	Dibromofluoromethane	104	70-130	
2037-26-5	Toluene-d8 (Surr)	101	70-130	

4/5/10 TC

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Westfield | Job No.: 360-24417-1

SDG No.: OCRI-10

Client Sample ID: | Lab Sample ID: MB 360-48975/3-A

Matrix: Solid | Lab File ID: V45019.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 09/15/2009 17:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(um)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 48976 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

4/5/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44799.D

Lab ID: LCS 360-48710/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	105	105	70-130	
1,1,1-Trichloroethane	100	95.2	95	70-130	
1,1,2,2-Tetrachloroethane	100	89.3	89	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	94.7	95	70-130	
1,1,2-Trichloroethane	100	89.6	90	70-130	
1,1-Dichloroethane	100	104	104	70-130	
1,1-Dichloroethene	100	100	100	70-130	
1,1-Dichloropropene	100	94.7	95	70-130	
1,2,3-Trichlorobenzene	100	100	100	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	99.7	100	70-130	
1,2,4-Trimethylbenzene	100	100	100	70-130	
1,2-Dibromo-3-Chloropropane	100	87.3	87	70-130	
Ethylene Dibromide	100	90.7	91	70-130	
1,2-Dichlorobenzene	100	95.8	96	70-130	
1,2-Dichloroethane	100	93.0	93	70-130	
Acetone	1000	840	84	70-130	
1,2-Dichloropropane	100	107	107	70-130	
1,3,5-Trimethylbenzene	100	104	104	70-130	
1,3-Dichlorobenzene	100	101	101	70-130	
1,3-Dichloropropane	100	92.1	92	70-130	
1,4-Dichlorobenzene	100	98.0	98	70-130	
1,4-Dioxane	1000	974	97	70-130	
2,2-Dichloropropane	100	110	110	70-130	
2,4,4-Trimethyl-1-pentene	100	111	111	70-130	
2,4,4-Trimethyl-2-pentene	100	100	100	70-130	
2-Chlorotoluene	100	101	101	70-130	
2-Hexanone	1000	802	80	70-130	
4-Chlorotoluene	100	104	104	70-130	
Benzene	100	98.0	98	70-130	
Bromobenzene	100	98.9	99	70-130	
Chlorobromomethane	100	94.4	94	70-130	
Dichlorobromomethane	100	94.5	95	70-130	
Bromoform	100	85.7	86	70-130	
Bromomethane	100	102	102	70-130	
n-Butylbenzene	100	100	100	70-130	
Carbon disulfide	100	98.4	98	70-130	
Carbon tetrachloride	100	95.2	95	70-130	
Chlorobenzene	100	101	101	70-130	
Chloroethane	100	105	105	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44799.D

Lab ID: LCS 360-48710/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	103	103	70-130	
Chloromethane	100	96.4	96	70-130	
cis-1,2-Dichloroethene	100	98.8	99	70-130	
cis-1,3-Dichloropropene	100	93.0	93	70-130	
Cyclohexane	100	101	101	70-130	
Chlorodibromomethane	100	90.5	91	70-130	
Dibromomethane	100	91.2	91	70-130	
Dichlorodifluoromethane	100	61.0	61	70-130	*
Ethyl ether	100	101	101	70-130	
Isopropyl ether	100	94.6	95	70-130	
Tert-butyl ethyl ether	100	94.6	95	70-130	
Ethylbenzene	100	107	107	70-130	
Hexachlorobutadiene	100	98.6	99	70-130	
Isopropylbenzene	100	103	103	70-130	
Methyl acetate	1000	1070	107	70-130	
2-Butanone (MEK)	1000	861	86	70-130	
4-Methyl-2-pentanone (MIBK)	1000	847	85	70-130	
Methyl tert-butyl ether	100	89.4	89	70-130	
Methylcyclohexane	100	101	101	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	201	101	70-130	
Naphthalene	100	90.9	91	70-130	
N-Propylbenzene	100	103	103	70-130	
o-Xylene	100	102	102	70-130	
4-Isopropyltoluene	100	106	106	70-130	
sec-Butylbenzene	100	103	103	70-130	
Styrene	100	100	100	70-130	
Tert-amyl methyl ether	100	93.6	94	70-130	
tert-Butylbenzene	100	106	106	70-130	
Tetrachloroethene	100	99.6	100	70-130	
Tetrahydrofuran	1000	970	97	70-130	
Toluene	100	100	100	70-130	
trans-1,2-Dichloroethene	100	95.2	95	70-130	
trans-1,3-Dichloropropene	100	92.4	92	70-130	
Trichloroethene	100	98.1	98	70-130	
Trichlorofluoromethane	100	93.1	93	70-130	
Vinyl chloride	100	97.8	98	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44800.D

Lab ID: LCSD 360-48710/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	108	108	3	25	70-130	
1,1,1-Trichloroethane	100	95.9	96	1	25	70-130	
1,1,2,2-Tetrachloroethane	100	97.6	98	9	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	92.3	92	3	25	70-130	
1,1,2-Trichloroethane	100	101	101	12	25	70-130	
1,1-Dichloroethane	100	106	106	2	25	70-130	
1,1-Dichloroethene	100	98.9	99	1	25	70-130	
1,1-Dichloropropene	100	95.6	96	1	25	70-130	
1,2,3-Trichlorobenzene	100	106	106	5	25	70-130	
1,2,3-Trichloropropane	100	119	119	10	25	70-130	
1,2,4-Trichlorobenzene	100	105	105	5	25	70-130	
1,2,4-Trimethylbenzene	100	100	100	0	25	70-130	
1,2-Dibromo-3-Chloropropane	100	98.8	99	12	25	70-130	
Ethylene Dibromide	100	100	100	10	25	70-130	
1,2-Dichlorobenzene	100	100	100	5	25	70-130	
1,2-Dichloroethane	100	100	100	7	25	70-130	
Acetone	1000	826	83	2	25	70-130	
1,2-Dichloropropane	100	111	111	4	25	70-130	
1,3,5-Trimethylbenzene	100	103	103	0	25	70-130	
1,3-Dichlorobenzene	100	101	101	0	25	70-130	
1,3-Dichloropropane	100	99.0	99	7	25	70-130	
1,4-Dichlorobenzene	100	102	102	4	25	70-130	
1,4-Dioxane	1000	912	91	7	25	70-130	
2,2-Dichloropropane	100	109	109	0	25	70-130	
2,4,4-Trimethyl-1-pentene	100	109	109	1	25	70-130	
2,4,4-Trimethyl-2-pentene	100	98.7	99	2	25	70-130	
2-Chlorotoluene	100	101	101	0	25	70-130	
2-Hexanone	1000	931	93	15	25	70-130	
4-Chlorotoluene	100	104	104	0	25	70-130	
Benzene	100	99.6	100	2	25	70-130	
Bromobenzene	100	101	101	2	25	70-130	
Chlorobromomethane	100	99.8	100	5	25	70-130	
Dichlorobromomethane	100	101	101	7	25	70-130	
Bromoform	100	92.1	92	7	25	70-130	
Bromomethane	100	104	104	2	25	70-130	
n-Butylbenzene	100	101	101	1	25	70-130	
Carbon disulfide	100	98.0	98	0	25	70-130	
Carbon tetrachloride	100	93.5	94	2	25	70-130	
Chlorobenzene	100	103	103	2	25	70-130	
Chloroethane	100	104	104	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44800.D

Lab ID: LCSD 360-48710/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	103	103	0	25	70-130	
Chloromethane	100	97.3	97	1	25	70-130	
cis-1,2-Dichloroethene	100	100	100	1	25	70-130	
cis-1,3-Dichloropropene	100	98.3	98	6	25	70-130	
Cyclohexane	100	92.1	92	9	25	70-130	
Chlorodibromomethane	100	97.1	97	7	25	70-130	
Dibromomethane	100	98.7	99	8	25	70-130	
Dichlorodifluoromethane	100	62.4	62	2	25	70-130	*
Ethyl ether	100	110	110	9	25	70-130	
Isopropyl ether	100	98.8	99	4	25	70-130	
Tert-butyl ethyl ether	100	101	101	6	25	70-130	
Ethylbenzene	100	105	105	1	25	70-130	
Hexachlorobutadiene	100	99.9	100	1	25	70-130	
Isopropylbenzene	100	103	103	0	25	70-130	
Methyl acetate	1000	1040	104	2	25	70-130	
2-Butanone (MEK)	1000	949	95	10	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	945	94	11	25	70-130	
Methyl tert-butyl ether	100	98.1	98	9	25	70-130	
Methylcyclohexane	100	93.6	94	8	25	70-130	
Methylene Chloride	100	107	107	3	25	70-130	
m-Xylene & p-Xylene	200	201	100	0	25	70-130	
Naphthalene	100	101	101	10	25	70-130	
N-Propylbenzene	100	103	103	0	25	70-130	
o-Xylene	100	101	101	0	25	70-130	
4-Isopropyltoluene	100	105	105	1	25	70-130	
sec-Butylbenzene	100	103	103	0	25	70-130	
Styrene	100	102	102	2	25	70-130	
Tert-amyl methyl ether	100	101	101	8	25	70-130	
tert-Butylbenzene	100	106	106	0	25	70-130	
Tetrachloroethene	100	100	100	1	25	70-130	
Tetrahydrofuran	1000	1090	109	11	25	70-130	
Toluene	100	102	102	2	25	70-130	
trans-1,2-Dichloroethene	100	95.5	96	0	25	70-130	
trans-1,3-Dichloropropene	100	102	102	10	25	70-130	
Trichloroethene	100	99.9	100	2	25	70-130	
Trichlorofluoromethane	100	93.2	93	0	25	70-130	
Vinyl chloride	100	96.6	97	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44838.D

Lab ID: LCS 360-48765/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	96.3	96	70-130	
1,1,1-Trichloroethane	100	90.5	90	70-130	
1,1,2,2-Tetrachloroethane	100	89.9	90	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	90.6	91	70-130	
1,1,2-Trichloroethane	100	92.8	93	70-130	
1,1-Dichloroethane	100	97.2	97	70-130	
1,1-Dichloroethene	100	94.9	95	70-130	
1,1-Dichloropropene	100	91.0	91	70-130	
1,2,3-Trichlorobenzene	100	101	101	70-130	
1,2,3-Trichloropropane	100	110	110	70-130	
1,2,4-Trichlorobenzene	100	98.9	99	70-130	
1,2,4-Trimethylbenzene	100	91.4	91	70-130	
1,2-Dibromo-3-Chloropropane	100	93.9	94	70-130	
Ethylene Dibromide	100	94.6	95	70-130	
1,2-Dichlorobenzene	100	92.2	92	70-130	
1,2-Dichloroethane	100	92.0	92	70-130	
Acetone	1000	918	92	70-130	
1,2-Dichloropropane	100	100	100	70-130	
1,3,5-Trimethylbenzene	100	94.0	94	70-130	
1,3-Dichlorobenzene	100	94.1	94	70-130	
1,3-Dichloropropane	100	91.3	91	70-130	
1,4-Dichlorobenzene	100	93.8	94	70-130	
1,4-Dioxane	1000	923	92	70-130	
2,2-Dichloropropane	100	105	105	70-130	
2,4,4-Trimethyl-1-pentene	100	104	104	70-130	
2,4,4-Trimethyl-2-pentene	100	95.9	96	70-130	
2-Chlorotoluene	100	90.7	91	70-130	
2-Hexanone	1000	887	89	70-130	
4-Chlorotoluene	100	93.4	93	70-130	
Benzene	100	91.6	92	70-130	
Bromobenzene	100	91.1	91	70-130	
Chlorobromomethane	100	94.5	95	70-130	
Dichlorobromomethane	100	91.8	92	70-130	
Bromoform	100	86.1	86	70-130	
Bromomethane	100	98.6	99	70-130	
n-Butylbenzene	100	94.7	95	70-130	
Carbon disulfide	100	92.1	92	70-130	
Carbon tetrachloride	100	90.4	90	70-130	
Chlorobenzene	100	93.4	93	70-130	
Chloroethane	100	95.9	96	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44838.D

Lab ID: LCS 360-48765/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	95.4	95	70-130	
Chloromethane	100	89.5	89	70-130	
cis-1,2-Dichloroethene	100	92.7	93	70-130	
cis-1,3-Dichloropropene	100	89.9	90	70-130	
Cyclohexane	100	97.8	98	70-130	
Chlorodibromomethane	100	88.6	89	70-130	
Dibromomethane	100	89.7	90	70-130	
Dichlorodifluoromethane	100	61.0	61	70-130	*
Ethyl ether	100	103	103	70-130	
Isopropyl ether	100	91.8	92	70-130	
Tert-butyl ethyl ether	100	94.7	95	70-130	
Ethylbenzene	100	95.6	96	70-130	
Hexachlorobutadiene	100	93.3	93	70-130	
Isopropylbenzene	100	94.4	94	70-130	
Methyl acetate	1000	1070	107	70-130	
2-Butanone (MEK)	1000	930	93	70-130	
4-Methyl-2-pentanone (MIBK)	1000	920	92	70-130	
Methyl tert-butyl ether	100	92.4	92	70-130	
Methylcyclohexane	100	99.8	100	70-130	
Methylene Chloride	100	102	102	70-130	
m-Xylene & p-Xylene	200	182	91	70-130	
Naphthalene	100	95.1	95	70-130	
N-Propylbenzene	100	93.8	94	70-130	
o-Xylene	100	91.4	91	70-130	
4-Isopropyltoluene	100	99.2	99	70-130	
sec-Butylbenzene	100	95.6	96	70-130	
Styrene	100	92.3	92	70-130	
Tert-amyl methyl ether	100	96.6	97	70-130	
tert-Butylbenzene	100	97.2	97	70-130	
Tetrachloroethene	100	96.0	96	70-130	
Tetrahydrofuran	1000	1030	103	70-130	
Toluene	100	93.1	93	70-130	
trans-1,2-Dichloroethene	100	88.3	88	70-130	
trans-1,3-Dichloropropene	100	92.8	93	70-130	
Trichloroethene	100	93.5	93	70-130	
Trichlorofluoromethane	100	91.9	92	70-130	
Vinyl chloride	100	91.8	92	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44839.D

Lab ID: LCSD 360-48765/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	102	102	6	25	70-130	
1,1,1-Trichloroethane	100	95.9	96	6	25	70-130	
1,1,2,2-Tetrachloroethane	100	91.5	91	2	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	97.0	97	7	25	70-130	
1,1,2-Trichloroethane	100	93.7	94	1	25	70-130	
1,1-Dichloroethane	100	102	102	4	25	70-130	
1,1-Dichloroethene	100	101	101	6	25	70-130	
1,1-Dichloropropene	100	95.2	95	5	25	70-130	
1,2,3-Trichlorobenzene	100	108	108	7	25	70-130	
1,2,3-Trichloropropane	100	114	114	4	25	70-130	
1,2,4-Trichlorobenzene	100	105	105	6	25	70-130	
1,2,4-Trimethylbenzene	100	98.6	99	8	25	70-130	
1,2-Dibromo-3-Chloropropane	100	97.7	98	4	25	70-130	
Ethylene Dibromide	100	95.0	95	0	25	70-130	
1,2-Dichlorobenzene	100	96.4	96	4	25	70-130	
1,2-Dichloroethane	100	95.0	95	3	25	70-130	
Acetone	1000	877	88	5	25	70-130	
1,2-Dichloropropane	100	105	105	5	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	8	25	70-130	
1,3-Dichlorobenzene	100	100	100	6	25	70-130	
1,3-Dichloropropane	100	92.2	92	1	25	70-130	
1,4-Dichlorobenzene	100	97.8	98	4	25	70-130	
1,4-Dioxane	1000	846	85	9	25	70-130	
2,2-Dichloropropane	100	112	112	6	25	70-130	
2,4,4-Trimethyl-1-pentene	100	114	114	9	25	70-130	
2,4,4-Trimethyl-2-pentene	100	102	102	7	25	70-130	
2-Chlorotoluene	100	97.1	97	7	25	70-130	
2-Hexanone	1000	902	90	2	25	70-130	
4-Chlorotoluene	100	99.7	100	7	25	70-130	
Benzene	100	95.9	96	5	25	70-130	
Bromobenzene	100	95.5	96	5	25	70-130	
Chlorobromomethane	100	97.5	97	3	25	70-130	
Dichlorobromomethane	100	93.8	94	2	25	70-130	
Bromoform	100	85.1	85	1	25	70-130	
Bromomethane	100	106	106	7	25	70-130	
n-Butylbenzene	100	99.3	99	5	25	70-130	
Carbon disulfide	100	96.5	96	5	25	70-130	
Carbon tetrachloride	100	95.8	96	6	25	70-130	
Chlorobenzene	100	97.6	98	4	25	70-130	
Chloroethane	100	103	103	7	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44839.D

Lab ID: LCSD 360-48765/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	100	100	5	25	70-130	
Chloromethane	100	98.2	98	9	25	70-130	
cis-1,2-Dichloroethene	100	96.2	96	4	25	70-130	
cis-1,3-Dichloropropene	100	91.6	92	2	25	70-130	
Cyclohexane	100	98.3	98	0	25	70-130	
Chlorodibromomethane	100	91.1	91	3	25	70-130	
Dibromomethane	100	92.7	93	3	25	70-130	
Dichlorodifluoromethane	100	66.6	67	9	25	70-130	*
Ethyl ether	100	101	101	1	25	70-130	
Isopropyl ether	100	94.9	95	3	25	70-130	
Tert-butyl ethyl ether	100	97.8	98	3	25	70-130	
Ethylbenzene	100	101	101	6	25	70-130	
Hexachlorobutadiene	100	99.3	99	6	25	70-130	
Isopropylbenzene	100	101	101	7	25	70-130	
Methyl acetate	1000	1020	102	4	25	70-130	
2-Butanone (MEK)	1000	903	90	3	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	942	94	2	25	70-130	
Methyl tert-butyl ether	100	95.2	95	3	25	70-130	
Methylcyclohexane	100	99.6	100	0	25	70-130	
Methylene Chloride	100	105	105	3	25	70-130	
m-Xylene & p-Xylene	200	192	96	6	25	70-130	
Naphthalene	100	99.9	100	5	25	70-130	
N-Propylbenzene	100	99.5	99	6	25	70-130	
o-Xylene	100	97.5	98	6	25	70-130	
4-Isopropyltoluene	100	106	106	7	25	70-130	
sec-Butylbenzene	100	103	103	7	25	70-130	
Styrene	100	96.7	97	5	25	70-130	
Tert-amyl methyl ether	100	99.7	100	3	25	70-130	
tert-Butylbenzene	100	105	105	8	25	70-130	
Tetrachloroethene	100	99.1	99	3	25	70-130	
Tetrahydrofuran	1000	1050	105	2	25	70-130	
Toluene	100	97.3	97	4	25	70-130	
trans-1,2-Dichloroethene	100	92.5	93	5	25	70-130	
trans-1,3-Dichloropropene	100	91.6	92	1	25	70-130	
Trichloroethene	100	99.3	99	6	25	70-130	
Trichlorofluoromethane	100	98.7	99	7	25	70-130	
Vinyl chloride	100	98.4	98	7	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44922.D

Lab ID: LCS 360-48877/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	96.9	97	70-130	
1,1,1-Trichloroethane	100	87.9	88	70-130	
1,1,2,2-Tetrachloroethane	100	87.2	87	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	88.3	88	70-130	
1,1,2-Trichloroethane	100	91.3	91	70-130	
1,1-Dichloroethane	100	95.0	95	70-130	
1,1-Dichloroethene	100	95.1	95	70-130	
1,1-Dichloropropene	100	90.0	90	70-130	
1,2,3-Trichlorobenzene	100	99.1	99	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	99.0	99	70-130	
1,2,4-Trimethylbenzene	100	92.0	92	70-130	
1,2-Dibromo-3-Chloropropane	100	90.6	91	70-130	
Ethylene Dibromide	100	93.3	93	70-130	
1,2-Dichlorobenzene	100	93.0	93	70-130	
1,2-Dichloroethane	100	89.2	89	70-130	
Acetone	1000	922	92	70-130	
1,2-Dichloropropane	100	102	102	70-130	
1,3,5-Trimethylbenzene	100	95.5	95	70-130	
1,3-Dichlorobenzene	100	92.5	92	70-130	
1,3-Dichloropropane	100	89.5	90	70-130	
1,4-Dichlorobenzene	100	93.6	94	70-130	
1,4-Dioxane	1000	861	86	70-130	
2,2-Dichloropropane	100	103	103	70-130	
2,4,4-Trimethyl-1-pentene	100	102	102	70-130	
2,4,4-Trimethyl-2-pentene	100	95.3	95	70-130	
2-Chlorotoluene	100	91.7	92	70-130	
2-Hexanone	1000	811	81	70-130	
4-Chlorotoluene	100	93.1	93	70-130	
Benzene	100	91.3	91	70-130	
Bromobenzene	100	89.3	89	70-130	
Chlorobromomethane	100	90.2	90	70-130	
Dichlorobromomethane	100	89.3	89	70-130	
Bromoform	100	84.9	85	70-130	
Bromomethane	100	94.5	95	70-130	
n-Butylbenzene	100	97.5	98	70-130	
Carbon disulfide	100	91.6	92	70-130	
Carbon tetrachloride	100	90.9	91	70-130	
Chlorobenzene	100	95.6	96	70-130	
Chloroethane	100	90.6	91	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44922.D

Lab ID: LCS 360-48877/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	95.3	95	70-130	
Chloromethane	100	83.1	83	70-130	
cis-1,2-Dichloroethene	100	90.4	90	70-130	
cis-1,3-Dichloropropene	100	89.6	90	70-130	
Cyclohexane	100	88.6	89	70-130	
Chlorodibromomethane	100	87.8	88	70-130	
Dibromomethane	100	91.1	91	70-130	
Dichlorodifluoromethane	100	57.8	58	70-130	*
Ethyl ether	100	96.8	97	70-130	
Isopropyl ether	100	88.4	88	70-130	
Tert-butyl ethyl ether	100	90.9	91	70-130	
Ethylbenzene	100	98.8	99	70-130	
Hexachlorobutadiene	100	96.0	96	70-130	
Isopropylbenzene	100	96.3	96	70-130	
Methyl acetate	1000	1040	104	70-130	
2-Butanone (MEK)	1000	842	84	70-130	
4-Methyl-2-pentanone (MIBK)	1000	849	85	70-130	
Methyl tert-butyl ether	100	87.2	87	70-130	
Methylcyclohexane	100	91.2	91	70-130	
Methylene Chloride	100	94.1	94	70-130	
m-Xylene & p-Xylene	200	187	93	70-130	
Naphthalene	100	88.4	88	70-130	
N-Propylbenzene	100	94.9	95	70-130	
o-Xylene	100	92.9	93	70-130	
4-Isopropyltoluene	100	99.6	100	70-130	
sec-Butylbenzene	100	96.3	96	70-130	
Styrene	100	92.8	93	70-130	
Tert-amyl methyl ether	100	91.5	91	70-130	
tert-Butylbenzene	100	98.0	98	70-130	
Tetrachloroethene	100	98.4	98	70-130	
Tetrahydrofuran	1000	1010	101	70-130	
Toluene	100	95.0	95	70-130	
trans-1,2-Dichloroethene	100	86.3	86	70-130	
trans-1,3-Dichloropropene	100	91.6	92	70-130	
Trichloroethene	100	95.2	95	70-130	
Trichlorofluoromethane	100	87.3	87	70-130	
Vinyl chloride	100	86.8	87	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44923.D

Lab ID: LCSD 360-48877/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	104	104	7	25	70-130	
1,1,1-Trichloroethane	100	92.3	92	5	25	70-130	
1,1,2,2-Tetrachloroethane	100	92.9	93	6	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	96.1	96	8	25	70-130	
1,1,2-Trichloroethane	100	97.2	97	6	25	70-130	
1,1-Dichloroethane	100	98.8	99	4	25	70-130	
1,1-Dichloroethene	100	100	100	5	25	70-130	
1,1-Dichloropropene	100	95.7	96	6	25	70-130	
1,2,3-Trichlorobenzene	100	112	112	13	25	70-130	
1,2,3-Trichloropropane	100	116	116	8	25	70-130	
1,2,4-Trichlorobenzene	100	109	109	10	25	70-130	
1,2,4-Trimethylbenzene	100	97.9	98	6	25	70-130	
1,2-Dibromo-3-Chloropropane	100	104	104	14	25	70-130	
Ethylene Dibromide	100	98.7	99	6	25	70-130	
1,2-Dichlorobenzene	100	98.9	99	6	25	70-130	
1,2-Dichloroethane	100	96.4	96	8	25	70-130	
Acetone	1000	1020	102	11	25	70-130	
1,2-Dichloropropane	100	106	106	3	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	6	25	70-130	
1,3-Dichlorobenzene	100	101	101	9	25	70-130	
1,3-Dichloropropane	100	95.2	95	6	25	70-130	
1,4-Dichlorobenzene	100	97.4	97	4	25	70-130	
1,4-Dioxane	1000	1030	103	18	25	70-130	
2,2-Dichloropropane	100	110	110	6	25	70-130	
2,4,4-Trimethyl-1-pentene	100	107	107	5	25	70-130	
2,4,4-Trimethyl-2-pentene	100	100	100	5	25	70-130	
2-Chlorotoluene	100	97.2	97	6	25	70-130	
2-Hexanone	1000	885	89	9	25	70-130	
4-Chlorotoluene	100	99.1	99	6	25	70-130	
Benzene	100	95.6	96	5	25	70-130	
Bromobenzene	100	95.6	96	7	25	70-130	
Chlorobromomethane	100	97.7	98	8	25	70-130	
Dichlorobromomethane	100	94.1	94	5	25	70-130	
Bromoform	100	88.6	89	4	25	70-130	
Bromomethane	100	100	100	6	25	70-130	
n-Butylbenzene	100	100	100	3	25	70-130	
Carbon disulfide	100	96.1	96	5	25	70-130	
Carbon tetrachloride	100	95.1	95	5	25	70-130	
Chlorobenzene	100	99.8	100	4	25	70-130	
Chloroethane	100	95.2	95	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44923.D

Lab ID: LCSD 360-48877/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	99.3	99	4	25	70-130	
Chloromethane	100	90.1	90	8	25	70-130	
cis-1,2-Dichloroethene	100	94.8	95	5	25	70-130	
cis-1,3-Dichloropropene	100	92.7	93	3	25	70-130	
Cyclohexane	100	90.9	91	3	25	70-130	
Chlorodibromomethane	100	92.7	93	5	25	70-130	
Dibromomethane	100	97.3	97	7	25	70-130	
Dichlorodifluoromethane	100	60.0	60	4	25	70-130	*
Ethyl ether	100	103	103	6	25	70-130	
Isopropyl ether	100	93.8	94	6	25	70-130	
Tert-butyl ethyl ether	100	97.7	98	7	25	70-130	
Ethylbenzene	100	103	103	4	25	70-130	
Hexachlorobutadiene	100	101	101	5	25	70-130	
Isopropylbenzene	100	101	101	5	25	70-130	
Methyl acetate	1000	1200	120	14	25	70-130	
2-Butanone (MEK)	1000	923	92	9	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	942	94	10	25	70-130	
Methyl tert-butyl ether	100	95.7	96	9	25	70-130	
Methylcyclohexane	100	95.3	95	4	25	70-130	
Methylene Chloride	100	99.7	100	6	25	70-130	
m-Xylene & p-Xylene	200	195	98	4	25	70-130	
Naphthalene	100	101	101	14	25	70-130	
N-Propylbenzene	100	99.3	99	5	25	70-130	
o-Xylene	100	97.5	98	5	25	70-130	
4-Isopropyltoluene	100	107	107	7	25	70-130	
sec-Butylbenzene	100	103	103	6	25	70-130	
Styrene	100	97.6	98	5	25	70-130	
Tert-amyl methyl ether	100	100	100	9	25	70-130	
tert-Butylbenzene	100	104	104	6	25	70-130	
Tetrachloroethene	100	102	102	4	25	70-130	
Tetrahydrofuran	1000	1110	111	9	25	70-130	
Toluene	100	98.7	99	4	25	70-130	
trans-1,2-Dichloroethene	100	91.0	91	5	25	70-130	
trans-1,3-Dichloropropene	100	94.9	95	4	25	70-130	
Trichloroethene	100	98.8	99	4	25	70-130	
Trichlorofluoromethane	100	92.2	92	5	25	70-130	
Vinyl chloride	100	91.0	91	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V45014.D

Lab ID: LCS 360-48975/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	98.8	99	70-130	
1,1,1-Trichloroethane	100	93.4	93	70-130	
1,1,2,2-Tetrachloroethane	100	82.8	83	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	96.0	96	70-130	
1,1,2-Trichloroethane	100	89.4	89	70-130	
1,1-Dichloroethane	100	97.0	97	70-130	
1,1-Dichloroethene	100	97.3	97	70-130	
1,1-Dichloropropene	100	94.0	94	70-130	
1,2,3-Trichlorobenzene	100	97.2	97	70-130	
1,2,3-Trichloropropane	100	103	103	70-130	
1,2,4-Trichlorobenzene	100	98.1	98	70-130	
1,2,4-Trimethylbenzene	100	94.2	94	70-130	
1,2-Dibromo-3-Chloropropane	100	87.2	87	70-130	
Ethylene Dibromide	100	89.3	89	70-130	
1,2-Dichlorobenzene	100	91.7	92	70-130	
1,2-Dichloroethane	100	90.0	90	70-130	
Acetone	1000	909	91	70-130	
1,2-Dichloropropane	100	101	101	70-130	
1,3,5-Trimethylbenzene	100	98.1	98	70-130	
1,3-Dichlorobenzene	100	94.7	95	70-130	
1,3-Dichloropropane	100	86.8	87	70-130	
1,4-Dichlorobenzene	100	92.6	93	70-130	
1,4-Dioxane	1000	1060	106	70-130	
2,2-Dichloropropane	100	107	107	70-130	
2,4,4-Trimethyl-1-pentene	100	107	107	70-130	
2,4,4-Trimethyl-2-pentene	100	102	102	70-130	
2-Chlorotoluene	100	93.6	94	70-130	
2-Hexanone	1000	772	77	70-130	
4-Chlorotoluene	100	93.4	93	70-130	
Benzene	100	94.1	94	70-130	
Bromobenzene	100	89.5	90	70-130	
Chlorobromomethane	100	92.9	93	70-130	
Dichlorobromomethane	100	89.2	89	70-130	
Bromoform	100	84.2	84	70-130	
Bromomethane	100	103	103	70-130	
n-Butylbenzene	100	97.8	98	70-130	
Carbon disulfide	100	94.6	95	70-130	
Carbon tetrachloride	100	93.9	94	70-130	
Chlorobenzene	100	97.3	97	70-130	
Chloroethane	100	96.2	96	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V45014.D

Lab ID: LCS 360-48975/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	93.9	94	70-130	
Chloromethane	100	91.4	91	70-130	
cis-1,2-Dichloroethene	100	91.1	91	70-130	
cis-1,3-Dichloropropene	100	86.9	87	70-130	
Cyclohexane	100	99.0	99	70-130	
Chlorodibromomethane	100	84.5	84	70-130	
Dibromomethane	100	90.1	90	70-130	
Dichlorodifluoromethane	100	61.4	61	70-130	*
Ethyl ether	100	98.5	98	70-130	
Isopropyl ether	100	88.7	89	70-130	
Tert-butyl ethyl ether	100	89.6	90	70-130	
Ethylbenzene	100	101	101	70-130	
Hexachlorobutadiene	100	99.8	100	70-130	
Isopropylbenzene	100	99.1	99	70-130	
Methyl acetate	1000	1190	119	70-130	
2-Butanone (MEK)	1000	847	85	70-130	
4-Methyl-2-pentanone (MIBK)	1000	829	83	70-130	
Methyl tert-butyl ether	100	86.5	86	70-130	
Methylcyclohexane	100	103	103	70-130	
Methylene Chloride	100	98.8	99	70-130	
m-Xylene & p-Xylene	200	191	96	70-130	
Naphthalene	100	87.0	87	70-130	
N-Propylbenzene	100	97.5	97	70-130	
o-Xylene	100	94.8	95	70-130	
4-Isopropyltoluene	100	103	103	70-130	
sec-Butylbenzene	100	99.5	99	70-130	
Styrene	100	91.5	91	70-130	
Tert-amyl methyl ether	100	91.8	92	70-130	
tert-Butylbenzene	100	101	101	70-130	
Tetrachloroethene	100	103	103	70-130	
Tetrahydrofuran	1000	990	99	70-130	
Toluene	100	95.9	96	70-130	
trans-1,2-Dichloroethene	100	88.5	89	70-130	
trans-1,3-Dichloropropene	100	86.3	86	70-130	
Trichloroethene	100	98.3	98	70-130	
Trichlorofluoromethane	100	94.4	94	70-130	
Vinyl chloride	100	93.2	93	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V45015.D

Lab ID: LCSD 360-48975/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	99.0	99	0	25	70-130	
1,1,1-Trichloroethane	100	92.1	92	1	25	70-130	
1,1,2,2-Tetrachloroethane	100	87.2	87	5	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	92.7	93	3	25	70-130	
1,1,2-Trichloroethane	100	94.5	95	6	25	70-130	
1,1-Dichloroethane	100	97.7	98	1	25	70-130	
1,1-Dichloroethene	100	98.2	98	1	25	70-130	
1,1-Dichloropropene	100	94.6	95	1	25	70-130	
1,2,3-Trichlorobenzene	100	103	103	6	25	70-130	
1,2,3-Trichloropropane	100	112	112	8	25	70-130	
1,2,4-Trichlorobenzene	100	102	102	4	25	70-130	
1,2,4-Trimethylbenzene	100	94.2	94	0	25	70-130	
1,2-Dibromo-3-Chloropropane	100	91.0	91	4	25	70-130	
Ethylene Dibromide	100	98.5	99	10	25	70-130	
1,2-Dichlorobenzene	100	94.2	94	3	25	70-130	
1,2-Dichloroethane	100	95.0	95	5	25	70-130	
Acetone	1000	984	98	8	25	70-130	
1,2-Dichloropropane	100	106	106	4	25	70-130	
1,3,5-Trimethylbenzene	100	97.3	97	1	25	70-130	
1,3-Dichlorobenzene	100	95.4	95	1	25	70-130	
1,3-Dichloropropane	100	93.2	93	7	25	70-130	
1,4-Dichlorobenzene	100	94.0	94	1	25	70-130	
1,4-Dioxane	1000	1190	119	12	25	70-130	
2,2-Dichloropropane	100	105	105	2	25	70-130	
2,4,4-Trimethyl-1-pentene	100	105	105	2	25	70-130	
2,4,4-Trimethyl-2-pentene	100	98.5	99	3	25	70-130	
2-Chlorotoluene	100	93.8	94	0	25	70-130	
2-Hexanone	1000	882	88	13	25	70-130	
4-Chlorotoluene	100	94.4	94	1	25	70-130	
Benzene	100	96.1	96	2	25	70-130	
Bromobenzene	100	90.1	90	1	25	70-130	
Chlorobromomethane	100	95.8	96	3	25	70-130	
Dichlorobromomethane	100	92.0	92	3	25	70-130	
Bromoform	100	88.2	88	5	25	70-130	
Bromomethane	100	104	104	1	25	70-130	
n-Butylbenzene	100	96.3	96	2	25	70-130	
Carbon disulfide	100	93.9	94	1	25	70-130	
Carbon tetrachloride	100	93.1	93	1	25	70-130	
Chlorobenzene	100	99.0	99	2	25	70-130	
Chloroethane	100	96.8	97	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V45015.D

Lab ID: LCSD 360-48975/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	94.9	95	1	25	70-130	
Chloromethane	100	91.5	91	0	25	70-130	
cis-1,2-Dichloroethene	100	93.0	93	2	25	70-130	
cis-1,3-Dichloropropene	100	93.4	93	7	25	70-130	
Cyclohexane	100	94.5	95	5	25	70-130	
Chlorodibromomethane	100	91.0	91	7	25	70-130	
Dibromomethane	100	96.5	97	7	25	70-130	
Dichlorodifluoromethane	100	59.9	60	2	25	70-130	*
Ethyl ether	100	104	104	6	25	70-130	
Isopropyl ether	100	91.6	92	3	25	70-130	
Tert-butyl ethyl ether	100	93.8	94	5	25	70-130	
Ethylbenzene	100	102	102	1	25	70-130	
Hexachlorobutadiene	100	100	100	1	25	70-130	
Isopropylbenzene	100	97.6	98	2	25	70-130	
Methyl acetate	1000	1250	125	5	25	70-130	
2-Butanone (MEK)	1000	908	91	7	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	922	92	11	25	70-130	
Methyl tert-butyl ether	100	91.6	92	6	25	70-130	
Methylcyclohexane	100	99.0	99	4	25	70-130	
Methylene Chloride	100	102	102	3	25	70-130	
m-Xylene & p-Xylene	200	191	96	0	25	70-130	
Naphthalene	100	92.0	92	6	25	70-130	
N-Propylbenzene	100	95.8	96	2	25	70-130	
o-Xylene	100	95.1	95	0	25	70-130	
4-Isopropyltoluene	100	102	102	2	25	70-130	
sec-Butylbenzene	100	97.7	98	2	25	70-130	
Styrene	100	94.5	95	3	25	70-130	
Tert-amyl methyl ether	100	97.1	97	6	25	70-130	
tert-Butylbenzene	100	99.0	99	2	25	70-130	
Tetrachloroethene	100	105	105	2	25	70-130	
Tetrahydrofuran	1000	1060	106	7	25	70-130	
Toluene	100	99.8	100	4	25	70-130	
trans-1,2-Dichloroethene	100	89.0	89	1	25	70-130	
trans-1,3-Dichloropropene	100	94.5	94	9	25	70-130	
Trichloroethene	100	100	100	2	25	70-130	
Trichlorofluoromethane	100	93.6	94	1	25	70-130	
Vinyl chloride	100	91.8	92	1	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44840.D

Lab ID: 360-24417-10 MS Client ID: OC-SB-465-8.0/10-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	94.8	ND	94.4	100	70-130	
1,1,1-Trichloroethane	94.8	ND	87.0	92	70-130	
1,1,2,2-Tetrachloroethane	94.8	ND	85.4	90	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	94.8	ND	87.6	92	70-130	
1,1,2-Trichloroethane	94.8	ND	87.0	92	70-130	
1,1-Dichloroethane	94.8	ND	93.0	98	70-130	
1,1-Dichloroethene	94.8	ND	91.2	96	70-130	
1,1-Dichloropropene	94.8	ND	86.9	92	70-130	
1,2,3-Trichlorobenzene	94.8	ND	91.5	96	70-130	
1,2,3-Trichloropropane	94.8	ND	99.4	105	70-130	
1,2,4-Trichlorobenzene	94.8	1.6 J	91.6	95	70-130	
1,2,4-Trimethylbenzene	94.8	ND	87.5	92	70-130	
1,2-Dibromo-3-Chloropropane	94.8	ND	88.6	93	70-130	
Ethylene Dibromide	94.8	ND	87.2	92	70-130	
1,2-Dichlorobenzene	94.8	ND	88.9	94	70-130	
1,2-Dichloroethane	94.8	ND	86.3	91	70-130	
Acetone	948	ND	791	83	70-130	
1,2-Dichloropropane	94.8	ND	99.1	104	70-130	
1,3,5-Trimethylbenzene	94.8	ND	91.1	96	70-130	
1,3-Dichlorobenzene	94.8	ND	87.0	92	70-130	
1,3-Dichloropropane	94.8	ND	86.3	91	70-130	
1,4-Dichlorobenzene	94.8	ND	89.6	94	70-130	
1,4-Dioxane	948	ND	900	95	70-130	
2,2-Dichloropropane	94.8	ND	102	107	70-130	
2,4,4-Trimethyl-1-pentene	94.8	ND	103	109	70-130	
2,4,4-Trimethyl-2-pentene	94.8	ND	95.3	100	70-130	
2-Chlorotoluene	94.8	ND	87.4	92	70-130	
2-Hexanone	948	ND	768	81	70-130	
4-Chlorotoluene	94.8	ND	89.4	94	70-130	
Benzene	94.8	ND	88.1	93	70-130	
Bromobenzene	94.8	ND	87.7	92	70-130	
Chlorobromomethane	94.8	ND	86.5	91	70-130	
Dichlorobromomethane	94.8	ND	85.1	90	70-130	
Bromoform	94.8	ND	78.7	83	70-130	
Bromomethane	94.8	ND	86.7	91	70-130	
n-Butylbenzene	94.8	ND	92.0	97	70-130	
Carbon disulfide	94.8	ND	83.9	88	70-130	
Carbon tetrachloride	94.8	ND	87.9	93	70-130	
Chlorobenzene	94.8	ND	92.0	97	70-130	
Chloroethane	94.8	ND	90.9	96	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44840.D

Lab ID: 360-24417-10 MS Client ID: OC-SB-465-8.0/10-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloroform	94.8	ND	89.2	94	70-130	
Chloromethane	94.8	ND	83.5	88	70-130	
cis-1,2-Dichloroethene	94.8	ND	87.6	92	70-130	
cis-1,3-Dichloropropene	94.8	ND	85.3	90	70-130	
Cyclohexane	94.8	ND	93.1	98	70-130	
Chlorodibromomethane	94.8	ND	82.3	87	70-130	
Dibromomethane	94.8	ND	83.1	88	70-130	
Dichlorodifluoromethane	94.8	ND	60.1	63	70-130	F
Ethyl ether	94.8	ND	92.4	97	70-130	
Isopropyl ether	94.8	ND	87.2	92	70-130	
Tert-butyl ethyl ether	94.8	ND	88.1	93	70-130	
Ethylbenzene	94.8	ND	95.4	101	70-130	
Hexachlorobutadiene	94.8	ND	84.9	90	70-130	
Isopropylbenzene	94.8	ND	92.9	98	70-130	
Methyl acetate	948	ND	956	101	70-130	
2-Butanone (MEK)	948	ND	791	83	70-130	
4-Methyl-2-pentanone (MIBK)	948	ND	783	83	70-130	
Methyl tert-butyl ether	94.8	ND	84.4	89	70-130	
Methylcyclohexane	94.8	ND	93.2	98	70-130	
Methylene Chloride	94.8	5.2 J	104	105	70-130	
m-Xylene & p-Xylene	190	ND	179	94	70-130	
Naphthalene	94.8	ND	86.1	91	70-130	
N-Propylbenzene	94.8	ND	90.6	96	70-130	
o-Xylene	94.8	ND	89.6	94	70-130	
4-Isopropyltoluene	94.8	ND	93.7	99	70-130	
sec-Butylbenzene	94.8	ND	90.7	96	70-130	
Styrene	94.8	ND	90.0	95	70-130	
Tert-amyl methyl ether	94.8	ND	88.8	94	70-130	
tert-Butylbenzene	94.8	ND	93.1	98	70-130	
Tetrachloroethene	94.8	ND	91.7	97	70-130	
Tetrahydrofuran	948	9.3 J	936	98	70-130	
Toluene	94.8	ND	90.3	95	70-130	
trans-1,2-Dichloroethene	94.8	ND	82.8	87	70-130	
trans-1,3-Dichloropropene	94.8	ND	86.7	91	70-130	
Trichloroethene	94.8	ND	89.9	95	70-130	
Trichlorofluoromethane	94.8	ND	90.8	96	70-130	
Vinyl chloride	94.8	ND	89.8	95	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10
TC

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44841.D

Lab ID: 360-24417-10 MSD Client ID: OC-SB-465-8.0/10-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	105	106	102	12	30	70-130	
1,1,1-Trichloroethane	105	97.0	93	11	30	70-130	
1,1,2,2-Tetrachloroethane	105	95.5	91	11	30	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	105	98.2	94	11	30	70-130	
1,1,2-Trichloroethane	105	96.5	92	10	30	70-130	
1,1-Dichloroethane	105	104	99	11	30	70-130	
1,1-Dichloroethene	105	99.4	95	9	30	70-130	
1,1-Dichloropropene	105	95.1	91	9	30	70-130	
1,2,3-Trichlorobenzene	105	99.3	95	8	30	70-130	
1,2,3-Trichloropropane	105	119	114	18	30	70-130	
1,2,4-Trichlorobenzene	105	99.9	94	9	30	70-130	
1,2,4-Trimethylbenzene	105	101	96	14	30	70-130	
1,2-Dibromo-3-Chloropropane	105	95.3	91	7	30	70-130	
Ethylene Dibromide	105	96.6	92	10	30	70-130	
1,2-Dichlorobenzene	105	98.7	94	10	30	70-130	
1,2-Dichloroethane	105	98.7	94	13	30	70-130	
Acetone	1050	988	94	22	30	70-130	
1,2-Dichloropropane	105	108	103	8	30	70-130	
1,3,5-Trimethylbenzene	105	103	98	12	30	70-130	
1,3-Dichlorobenzene	105	102	97	16	30	70-130	
1,3-Dichloropropane	105	94.6	90	9	30	70-130	
1,4-Dichlorobenzene	105	98.9	94	10	30	70-130	
1,4-Dioxane	1050	1060	102	17	30	70-130	
2,2-Dichloropropane	105	113	108	10	30	70-130	
2,4,4-Trimethyl-1-pentene	105	113	108	8	30	70-130	
2,4,4-Trimethyl-2-pentene	105	101	96	6	30	70-130	
2-Chlorotoluene	105	100	96	14	30	70-130	
2-Hexanone	1050	872	83	13	30	70-130	
4-Chlorotoluene	105	102	97	13	30	70-130	
Benzene	105	96.5	92	9	30	70-130	
Bromobenzene	105	99.3	95	12	30	70-130	
Chlorobromomethane	105	99.5	95	14	30	70-130	
Dichlorobromomethane	105	95.0	91	11	30	70-130	
Bromoform	105	88.8	85	12	30	70-130	
Bromomethane	105	105	100	19	30	70-130	
n-Butylbenzene	105	98.0	94	6	30	70-130	
Carbon disulfide	105	92.2	88	9	30	70-130	
Carbon tetrachloride	105	96.0	92	9	30	70-130	
Chlorobenzene	105	101	96	9	30	70-130	
Chloroethane	105	104	100	14	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Matrix: Solid Level: Low Lab File ID: V44841.D

Lab ID: 360-24417-10 MSD Client ID: OC-SB-465-8.0/10-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	105	103	98	14	30	70-130	
Chloromethane	105	96.7	92	15	30	70-130	
cis-1,2-Dichloroethene	105	98.1	94	11	30	70-130	
cis-1,3-Dichloropropene	105	93.7	90	9	30	70-130	
Cyclohexane	105	103	98	10	30	70-130	
Chlorodibromomethane	105	92.4	88	12	30	70-130	
Dibromomethane	105	95.2	91	14	30	70-130	
Dichlorodifluoromethane	105	67.7	65	12	30	70-130	F
Ethyl ether	105	109	104	17	30	70-130	
Isopropyl ether	105	99.4	95	13	30	70-130	
Tert-butyl ethyl ether	105	103	98	15	30	70-130	
Ethylbenzene	105	104	99	9	30	70-130	
Hexachlorobutadiene	105	88.8	85	4	30	70-130	
Isopropylbenzene	105	104	99	11	30	70-130	
Methyl acetate	1050	1110	106	15	30	70-130	
2-Butanone (MEK)	1050	910	87	14	30	70-130	
4-Methyl-2-pentanone (MIBK)	1050	934	89	18	30	70-130	
Methyl tert-butyl ether	105	99.2	95	16	30	70-130	
Methylcyclohexane	105	103	98	10	30	70-130	
Methylene Chloride	105	118	108	12	30	70-130	
m-Xylene & p-Xylene	209	197	94	10	30	70-130	
Naphthalene	105	95.8	92	11	30	70-130	
N-Propylbenzene	105	102	97	12	30	70-130	
o-Xylene	105	101	96	12	30	70-130	
4-Isopropyltoluene	105	107	103	14	30	70-130	
sec-Butylbenzene	105	103	99	13	30	70-130	
Styrene	105	100	96	11	30	70-130	
Tert-amyl methyl ether	105	103	99	15	30	70-130	
tert-Butylbenzene	105	107	102	14	30	70-130	
Tetrachloroethene	105	97.3	93	6	30	70-130	
Tetrahydrofuran	1050	1120	106	18	30	70-130	
Toluene	105	97.6	93	8	30	70-130	
trans-1,2-Dichloroethene	105	91.8	88	10	30	70-130	
trans-1,3-Dichloropropene	105	94.7	90	9	30	70-130	
Trichloroethene	105	97.7	93	8	30	70-130	
Trichlorofluoromethane	105	102	97	11	30	70-130	
Vinyl chloride	105	98.9	94	10	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Sample No.: CCVIS 360-48711/2 Date Analyzed: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44798.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		23523	5.65	535921	5.88	339021	8.32
UPPER LIMIT		47046	6.15	1071842	6.38	678042	8.82
LOWER LIMIT		11762	5.15	267961	5.38	169511	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48710/1-A		19516	5.65	472049	5.88	281506	8.32
LCSD 360-48710/2-A		21446	5.65	500977	5.88	306473	8.32
MB 360-48710/3-A		20326	5.65	472610	5.88	289005	8.32
360-24417-3	OC-SB-463-6.0/8.0-XXX	20702	5.65	467196	5.88	276537	8.32
360-24417-6	OC-SB-464-5.0/7.0-XXX	20137	5.65	450384	5.88	265126	8.32
360-24417-9	OC-SB-465-8.0/10-DUP	18270	5.65	447061	5.88	261388	8.32
360-24417-13	OC-SB-468-8.0/10-XXX	19451	5.65	449643	5.88	266412	8.32
360-24417-15	OC-SB-471-3.0/5.0-XXX	20059	5.65	452173	5.88	262252	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/15/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Sample No.: CCVIS 360-48711/2 Date Analyzed: 09/08/2009 20:02

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44798.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		150244	10.14				
UPPER LIMIT		300488	10.64				
LOWER LIMIT		75122	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48710/1-A		133039	10.13				
LCSD 360-48710/2-A		142604	10.13				
MB 360-48710/3-A		136070	10.13				
360-24417-3	OC-SB-463-6.0/8.0-XXX	137196	10.13				
360-24417-6	OC-SB-464-5.0/7.0-XXX	130722	10.13				
360-24417-9	OC-SB-465-8.0/10-DUP	128033	10.13				
360-24417-13	OC-SB-468-8.0/10-XXX	132455	10.13				
360-24417-15	OC-SB-471-3.0/5.0-XXX	133561	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/5/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Sample No.: CCVIS 360-48767/2 Date Analyzed: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44837.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		26071	5.64	540044	5.87	336855	8.32
UPPER LIMIT		52142	6.14	1080088	6.37	673710	8.82
LOWER LIMIT		13036	5.14	270022	5.37	168428	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48765/1-A		21452	5.65	486594	5.88	302398	8.32
LCSD 360-48765/2-A		21186	5.64	479122	5.87	293982	8.31
360-24417-10 MS	OC-SB-465-8.0/10-XXX MS	20608	5.65	481261	5.87	289933	8.31
360-24417-10 MSD	OC-SB-465-8.0/10-XXX MSD	20435	5.64	469713	5.87	280104	8.31
MB 360-48765/3-A		18618	5.64	430407	5.87	264758	8.31
360-24417-10	OC-SB-465-8.0/10-XXX	19294	5.64	433430	5.87	268564	8.31

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/5/10 TC

FORM VIII 8260B

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Sample No.: CCVIS 360-48767/2 Date Analyzed: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44837.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		152815	10.13				
UPPER LIMIT		305630	10.63				
LOWER LIMIT		76408	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48765/1-A		140892	10.13				
LCSD 360-48765/2-A		139060	10.12				
360-24417-10 MS	OC-SB-465-8.0/10-XXX MS	129821	10.12				
360-24417-10 MSD	OC-SB-465-8.0/10-XXX MSD	133047	10.12				
MB 360-48765/3-A		131728	10.12				
360-24417-10	OC-SB-465-8.0/10-XXX	129441	10.12				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/5/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Sample No.: CCVIS 360-48878/2 Date Analyzed: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44921.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22279	5.67	477588	5.89	286880	8.33
UPPER LIMIT		44558	6.17	955176	6.39	573760	8.83
LOWER LIMIT		11140	5.17	238794	5.39	143440	7.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48877/1-A		22284	5.67	482795	5.89	294219	8.33
LCSD 360-48877/2-A		22745	5.67	479756	5.89	288925	8.33
MB 360-48877/3-A		17141	5.66	394856	5.89	236414	8.33
360-24417-1	OC-SB-463-0.0/1.0-XXX	20366	5.67	443769	5.89	268387	8.33
360-24417-4	OC-SB-464-0.0/1.0-XXX	18256	5.66	423829	5.89	250528	8.33
360-24417-7	OC-SB-465-0.0/1.0-XXX	19040	5.66	438335	5.89	265766	8.33
360-24417-11	OC-SB-468-0.0/1.0-XXX	19904	5.66	439101	5.89	263107	8.33
360-24417-14	OC-SB-471-0.0/1.0-XXX	20436	5.67	482484	5.89	283962	8.33
360-24417-17	OC-TBK-012	20701	5.67	491554	5.89	292764	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/5/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Sample No.: CCVIS 360-48878/2 Date Analyzed: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44921.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		133935	10.14				
UPPER LIMIT		267870	10.64				
LOWER LIMIT		66968	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48877/1-A		133940	10.13				
LCSD 360-48877/2-A		139063	10.14				
MB 360-48877/3-A		117984	10.13				
360-24417-1	OC-SB-463-0.0/1.0-XXX	124982	10.14				
360-24417-4	OC-SB-464-0.0/1.0-XXX	120053	10.13				
360-24417-7	OC-SB-465-0.0/1.0-XXX	119612	10.14				
360-24417-11	OC-SB-468-0.0/1.0-XXX	122593	10.14				
360-24417-14	OC-SB-471-0.0/1.0-XXX	122890	10.14				
360-24417-17	OC-TBK-012	121533	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/5/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Sample No.: CCVIS 360-48976/2 Date Analyzed: 09/15/2009 15:08

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45013.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		23244	5.67	539901	5.90	340363	8.34
UPPER LIMIT		46488	6.17	1079802	6.40	680726	8.84
LOWER LIMIT		11622	5.17	269951	5.40	170182	7.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48975/1-A		20697	5.68	478824	5.90	285907	8.34
LCSD 360-48975/2-A		20920	5.67	479697	5.90	293962	8.34
MB 360-48975/3-A		19147	5.67	432696	5.89	263169	8.33
360-24417-8	OC-SB-465-16/18-XXX	18415	5.66	419075	5.89	249401	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/5/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24417-1

SDG No.: OCRI-10

Sample No.: CCVIS 360-48976/2 Date Analyzed: 09/15/2009 15:08

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45013.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		140492	10.14				
UPPER LIMIT		280984	10.64				
LOWER LIMIT		70246	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48975/1-A		134520	10.14				
LCSD 360-48975/2-A		138104	10.14				
MB 360-48975/3-A		131708	10.14				
360-24417-8	OC-SB-465-16/18-XXX	118516	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/5/10 TC

FORM VIII 8260B

OCRI-11

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360-24444-1 OCRI-11

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES NO NA	
Data completeness ☑ ☐ ☐ All data summaries, QC forms and raw data available from hard copy or electronic data package ☑ ☐ ☐ Data summaries match EDD	Contact lab if missing data. Lab to respond with 24 hours.
Holding Times and Preservation * ☐ ☑ ☐ Hold times met (14 days with preservation) ☑ ☐ ☐ Preserved (waters HCL, soils methanol)	→ OC-SB-467-30/52-xxx
Instrument Performance Check (Tune) ☑ ☐ ☐ Tune available for each 12-hour period samples were analyzed ☑ ☐ ☐ Appropriate number of significant figures reported (at least 2) ☑ ☐ ☐ Mass/Charge list (m/z) criteria met	
Initial Calibration ☑ ☐ ☐ %RSD less than or equal to 30% * ☐ ☑ ☐ RRF greater than or equal to 0.05	I-Cal 9/08/09 HP#1 See Attached Form V
Continuing Calibration * ☐ ☑ ☐ %D less than or equal to 25% ☑ ☐ ☐ RRF greater than or equal to 0.05.	→ See attached Forms 3 & 5
Blank Contamination ☑ ☐ ☐ Method blank contamination ☑ ☐ ☐ Trip blank contamination ☑ ☐ ☐ Equipment/Rinseate blank contamination	Evaluate all blanks for contamination. Highest contaminant level used for action level. → See attached Form V → OC-EBK-007 Chloroform @ 1.5 ug/L no detects no Quals

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples ☐ ☑ ☐ MS/MSD percent recovery criteria met (water and soil: 70%-130%) → See attached Form V ☑ ☐ ☐ MS/MSD RPD criteria met (water and soil <30%) * ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%) → See Attached Form V	
Field Duplicates ☑ ☐ ☐ RPD criteria (water <30%, soils <50%) met	
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: _____

Date: 4-7-10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-459-6.0/8.0-DUP**

Lab Sample ID: 360-24444-1
Client Matrix: Solid % Moisture: 12.8

Date Sampled: 09/03/2009 1130
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48716		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48715		Lab File ID:	V44830.D
Dilution:	1.0			Initial Weight/Volume:	10.76 g
Date Analyzed:	09/09/2009 0852			Final Weight/Volume:	10 g
Date Prepared:	09/08/2009 1653				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		53	130
1,1,1-Trichloroethane		ND		53	130
1,1,2,2-Tetrachloroethane		ND		53	130
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		53	670
1,1,2-Trichloroethane		ND		53	130
1,1-Dichloroethane		ND		53	130
1,1-Dichloroethene		ND		53	130
1,1-Dichloropropene		ND		53	130
1,2,3-Trichlorobenzene		ND		53	130
1,2,3-Trichloropropane		ND		79	130
1,2,4-Trichlorobenzene		ND		53	130
1,2,4-Trimethylbenzene		ND		53	130
1,2-Dibromo-3-Chloropropane		ND		96	1300
Ethylene Dibromide		ND		53	130
1,2-Dichlorobenzene		ND		53	130
1,2-Dichloroethane		ND		53	130
Acetone		ND J		960	13000
1,2-Dichloropropane		ND		53	130
1,3,5-Trimethylbenzene		ND		53	130
1,3-Dichlorobenzene		ND		53	130
1,3-Dichloropropane		ND		53	130
1,4-Dichlorobenzene		ND		53	130
1,4-Dioxane		ND J		1800	13000
2,2-Dichloropropane		ND		53	130
2,4,4-Trimethyl-1-pentene		ND		53	270
2,4,4-Trimethyl-2-pentene		85	J	53	270
2-Chlorotoluene		ND		53	130
2-Hexanone		ND		270	1300
4-Chlorotoluene		ND		53	130
Benzene		ND		53	130
Bromobenzene		ND		53	130
Chlorobromomethane		ND		53	130
Dichlorobromomethane		ND		53	130
Bromoform		ND		53	130
Bromomethane		ND		53	270
n-Butylbenzene		ND		53	130
Carbon disulfide		ND		53	130
Carbon tetrachloride		ND		53	130
Chlorobenzene		ND		53	130
Chloroethane		ND		53	270
Chloroform		ND		53	130
Chloromethane		ND		53	270
cis-1,2-Dichloroethene		ND		53	130
cis-1,3-Dichloropropene		ND		53	130
Cyclohexane		ND		140	1300
Chlorodibromomethane		ND		53	130

TC 4-7-10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-459-6.0/8.0-DUP**

Lab Sample ID: 360-24444-1
Client Matrix: Solid % Moisture: 12.8

Date Sampled: 09/03/2009 1130
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48716		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48715		Lab File ID:	V44830.D
Dilution:	1.0			Initial Weight/Volume:	10.76 g
Date Analyzed:	09/09/2009 0852			Final Weight/Volume:	10 g
Date Prepared:	09/08/2009 1653				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		53	130
Dichlorodifluoromethane		ND J	*	53	270
Ethyl ether		ND		53	130
Isopropyl ether		ND		53	130
Tert-butyl ethyl ether		ND		130	130
Ethylbenzene		ND		53	130
Hexachlorobutadiene		ND		53	130
Isopropylbenzene		ND		53	130
Methyl acetate		ND		870	2700
2-Butanone (MEK)		ND		360	1300
4-Methyl-2-pentanone (MIBK)		ND		270	1300
Methyl tert-butyl ether		ND		53	130
Methylcyclohexane		ND		53	130
Methylene Chloride		ND		260	530
m-Xylene & p-Xylene		ND		53	270
Naphthalene		ND		53	1300
N-Propylbenzene		ND		53	130
o-Xylene		ND		53	130
4-Isopropyltoluene		ND		53	130
sec-Butylbenzene		ND		53	130
Styrene		ND		53	130
Tert-amyl methyl ether		ND		53	130
tert-Butylbenzene		ND		53	130
Tetrachloroethene		ND		53	130
Tetrahydrofuran		ND		290	1300
Toluene		ND		53	130
trans-1,2-Dichloroethene		ND		53	130
trans-1,3-Dichloropropene		ND		53	130
Trichloroethene		ND		53	130
Trichlorofluoromethane		ND		53	270
Vinyl chloride		ND		53	130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-459-6.0/8.0-DUP**

Lab Sample ID: 360-24444-1
Client Matrix: Solid % Moisture: 12.8

Date Sampled: 09/03/2009 1130
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48716		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48715		Lab File ID:	V44830.D
Dilution:	1.0			Initial Weight/Volume:	10.76 g
Date Analyzed:	09/09/2009 0852			Final Weight/Volume:	10 g
Date Prepared:	09/08/2009 1653				

Tentatively Identified Compounds **Number TIC's Found:** **10**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	9.50	20000	T J
123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	9.56	31000	T J N
	Unknown	9.60	8000	T J
	Unknown	9.83	4100	T J
	Unknown	9.89	12000	T J
	Unknown	10.06	5000	T J
	Unknown	10.15	6100	T J
	Unknown	11.27	15000	T J
	Unknown	13.33	5900	T J
	Unknown	13.61	4000	T J

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: OC-SB-459-6.0/8.0-XXX

Lab Sample ID: 360-24444-2
Client Matrix: Solid

% Moisture: 12.8

Date Sampled: 09/03/2009 1130
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48773		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48769		Lab File ID:	V44856.D
Dilution:	1.0			Initial Weight/Volume:	10.48 g
Date Analyzed:	09/10/2009 0018			Final Weight/Volume:	10 g
Date Prepared:	09/09/2009 1603				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		55	140
1,1,1-Trichloroethane		ND		55	140
1,1,2,2-Tetrachloroethane		ND		55	140
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		55	680
1,1,2-Trichloroethane		ND		55	140
1,1-Dichloroethane		ND		55	140
1,1-Dichloroethene		ND		55	140
1,1-Dichloropropene		ND		55	140
1,2,3-Trichlorobenzene		ND		55	140
1,2,3-Trichloropropane		ND		81	140
1,2,4-Trichlorobenzene		ND		55	140
1,2,4-Trimethylbenzene		ND		55	140
1,2-Dibromo-3-Chloropropane		ND		98	1400
Ethylene Dibromide		ND		55	140
1,2-Dichlorobenzene		ND		55	140
1,2-Dichloroethane		ND		55	140
Acetone		ND J		980	14000
1,2-Dichloropropane		ND		55	140
1,3,5-Trimethylbenzene		ND		55	140
1,3-Dichlorobenzene		ND		55	140
1,3-Dichloropropane		ND		55	140
1,4-Dichlorobenzene		ND		55	140
1,4-Dioxane		ND J	*	1800	14000
2,2-Dichloropropane		ND		55	140
2,4,4-Trimethyl-1-pentene		ND		55	270
2,4,4-Trimethyl-2-pentene		94	J	55	270
2-Chlorotoluene		ND		55	140
2-Hexanone		ND		280	1400
4-Chlorotoluene		ND		55	140
Benzene		ND		55	140
Bromobenzene		ND		55	140
Chlorobromomethane		ND		55	140
Dichlorobromomethane		ND		55	140
Bromoform		ND		55	140
Bromomethane		ND		55	270
n-Butylbenzene		ND		55	140
Carbon disulfide		ND		55	140
Carbon tetrachloride		ND		55	140
Chlorobenzene		ND		55	140
Chloroethane		ND		55	270
Chloroform		ND		55	140
Chloromethane		ND		55	270
cis-1,2-Dichloroethene		ND		55	140
cis-1,3-Dichloropropene		ND		55	140
Cyclohexane		ND		140	1400
Chlorodibromomethane		ND		55	140

TC 4/7/16

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-459-6.0/8.0-XXX**

Lab Sample ID: 360-24444-2
Client Matrix: Solid

% Moisture: 12.8

Date Sampled: 09/03/2009 1130
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48773		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48769		Lab File ID:	V44856.D
Dilution:	1.0			Initial Weight/Volume:	10.48 g
Date Analyzed:	09/10/2009 0018			Final Weight/Volume:	10 g
Date Prepared:	09/09/2009 1603				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		55	140
Dichlorodifluoromethane		ND J	*	55	270
Ethyl ether		ND		55	140
Isopropyl ether		ND		55	140
Tert-butyl ethyl ether		ND		140	140
Ethylbenzene		ND		55	140
Hexachlorobutadiene		ND		55	140
Isopropylbenzene		ND		55	140
Methyl acetate		ND		890	2700
2-Butanone (MEK)		ND		370	1400
4-Methyl-2-pentanone (MIBK)		ND		280	1400
Methyl tert-butyl ether		ND		55	140
Methylcyclohexane		ND		55	140
Methylene Chloride		ND		260	550
m-Xylene & p-Xylene		ND		55	270
Naphthalene		ND		55	1400
N-Propylbenzene		ND		55	140
o-Xylene		ND		55	140
4-Isopropyltoluene		ND		55	140
sec-Butylbenzene		ND		55	140
Styrene		ND		55	140
Tert-amyl methyl ether		ND		55	140
tert-Butylbenzene		ND		55	140
Tetrachloroethene		ND		55	140
Tetrahydrofuran		ND		300	1400
Toluene		ND		55	140
trans-1,2-Dichloroethene		ND		55	140
trans-1,3-Dichloropropene		ND		55	140
Trichloroethene		ND		55	140
Trichlorofluoromethane		ND		55	270
Vinyl chloride		ND		55	140

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-459-6.0/8.0-XXX**

Lab Sample ID: 360-24444-2
Client Matrix: Solid
% Moisture: 12.8

Date Sampled: 09/03/2009 1130
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48773		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48769		Lab File ID:	V44856.D
Dilution:	1.0			Initial Weight/Volume:	10.48 g
Date Analyzed:	09/10/2009 0018			Final Weight/Volume:	10 g
Date Prepared:	09/09/2009 1603				

Tentatively Identified Compounds **Number TIC's Found:** **10**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	9.50	22000	T J
123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	9.55	31000	T J N
	Unknown	9.59	9000	T J
	Unknown	9.74	2800	T J
	Unknown	9.82	4200	T J
	Unknown	9.88	12000	T J
	Unknown	10.05	5200	T J
	Unknown	10.14	7700	T J
15220-85-6	1-Propene, 2-methyl-, tetramer	13.31	5000	T J N
	Unknown	13.59	3400	T J

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-462-0.0/1.0-XXX**

Lab Sample ID: 360-24444-3
Client Matrix: Solid % Moisture: 3.7

Date Sampled: 09/03/2009 0900
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44926.D
Dilution:	1.0			Initial Weight/Volume:	5.58 g
Date Analyzed:	09/12/2009 1430			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.93	2.3
1,1,1-Trichloroethane		ND		0.93	2.3
1,1,2,2-Tetrachloroethane		ND		0.93	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.93	12
1,1,2-Trichloroethane		ND		0.93	2.3
1,1-Dichloroethane		ND		0.93	2.3
1,1-Dichloroethene		ND		0.93	2.3
1,1-Dichloropropene		ND		0.93	2.3
1,2,3-Trichlorobenzene		ND		0.93	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.93	2.3
1,2,4-Trimethylbenzene		ND		0.93	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.93	2.3
1,2-Dichlorobenzene		ND		0.93	2.3
1,2-Dichloroethane		ND		0.93	2.3
Acetone		ND	J	17	230
1,2-Dichloropropane		ND		0.93	2.3
1,3,5-Trimethylbenzene		ND		0.93	2.3
1,3-Dichlorobenzene		ND		0.93	2.3
1,3-Dichloropropane		ND		0.93	2.3
1,4-Dichlorobenzene		ND		0.93	2.3
1,4-Dioxane		ND	J	31	230
2,2-Dichloropropane		ND		0.93	2.3
2,4,4-Trimethyl-1-pentene		ND		0.93	4.7
2,4,4-Trimethyl-2-pentene		ND		0.93	4.7
2-Chlorotoluene		ND		0.93	2.3
2-Hexanone		ND		4.8	23
4-Chlorotoluene		ND		0.93	2.3
Benzene		ND		0.93	2.3
Bromobenzene		ND		0.93	2.3
Chlorobromomethane		ND		0.93	2.3
Dichlorobromomethane		ND		0.93	2.3
Bromoform		ND		0.93	2.3
Bromomethane		ND		0.93	4.7
n-Butylbenzene		ND		0.93	2.3
Carbon disulfide		ND		0.93	2.3
Carbon tetrachloride		ND		0.93	2.3
Chlorobenzene		ND		0.93	2.3
Chloroethane		ND		0.93	4.7
Chloroform		ND		0.93	2.3
Chloromethane		ND		0.93	4.7
cis-1,2-Dichloroethene		ND		0.93	2.3
cis-1,3-Dichloropropene		ND		0.93	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.93	2.3

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-462-0.0/1.0-XXX**

Lab Sample ID: 360-24444-3
Client Matrix: Solid % Moisture: 3.7

Date Sampled: 09/03/2009 0900
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44926.D
Dilution:	1.0			Initial Weight/Volume:	5.58 g
Date Analyzed:	09/12/2009 1430			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.93	2.3
Dichlorodifluoromethane		ND J	*	0.93	4.7
Ethyl ether		ND		0.93	2.3
Isopropyl ether		ND		0.93	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.93	2.3
Hexachlorobutadiene		ND		0.93	2.3
Isopropylbenzene		ND		0.93	2.3
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.3	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.93	2.3
Methylcyclohexane		ND		0.93	2.3
Methylene Chloride		ND		4.5	9.3
m-Xylene & p-Xylene		ND		0.93	4.7
Naphthalene		ND		0.93	23
N-Propylbenzene		ND		0.93	2.3
o-Xylene		ND		0.93	2.3
4-Isopropyltoluene		ND		0.93	2.3
sec-Butylbenzene		ND		0.93	2.3
Styrene		ND		0.93	2.3
Tert-amyl methyl ether		ND		0.93	2.3
tert-Butylbenzene		ND		0.93	2.3
Tetrachloroethene		ND		0.93	2.3
Tetrahydrofuran		ND		5.1	23
Toluene		ND		0.93	2.3
trans-1,2-Dichloroethene		ND		0.93	2.3
trans-1,3-Dichloropropene		ND		0.93	2.3
Trichloroethene		ND		0.93	2.3
Trichlorofluoromethane		ND		0.93	4.7
Vinyl chloride		ND		0.93	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-462-0.0/1.0-XXX**

Lab Sample ID: 360-24444-3
Client Matrix: Solid % Moisture: 3.7

Date Sampled: 09/03/2009 0900
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44926.D
Dilution:	1.0			Initial Weight/Volume:	5.58 g
Date Analyzed:	09/12/2009 1430			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: OC-SB-462-31/33-XXX

Lab Sample ID: 360-24444-4
Client Matrix: Solid % Moisture: 8.4

Date Sampled: 09/03/2009 1015
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45106.D
Dilution:	1.0			Initial Weight/Volume:	6.05 g
Date Analyzed:	09/17/2009 2121			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte (DryWt Corrected: Y)	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.90	2.3
1,1,1-Trichloroethane	ND		0.90	2.3
1,1,2,2-Tetrachloroethane	ND		0.90	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.90	11
1,1,2-Trichloroethane	ND		0.90	2.3
1,1-Dichloroethane	ND		0.90	2.3
1,1-Dichloroethene	ND		0.90	2.3
1,1-Dichloropropene	ND		0.90	2.3
1,2,3-Trichlorobenzene	ND		0.90	2.3
1,2,3-Trichloropropane	ND		1.3	2.3
1,2,4-Trichlorobenzene	ND		0.90	2.3
1,2,4-Trimethylbenzene	ND		0.90	2.3
1,2-Dibromo-3-Chloropropane	ND		1.6	23
Ethylene Dibromide	ND		0.90	2.3
1,2-Dichlorobenzene	ND		0.90	2.3
1,2-Dichloroethane	ND		0.90	2.3
Acetone	ND	J	16	230
1,2-Dichloropropane	ND		0.90	2.3
1,3,5-Trimethylbenzene	ND		0.90	2.3
1,3-Dichlorobenzene	ND		0.90	2.3
1,3-Dichloropropane	ND		0.90	2.3
1,4-Dichlorobenzene	ND		0.90	2.3
1,4-Dioxane	ND	J	30	230
2,2-Dichloropropane	ND		0.90	2.3
2,4,4-Trimethyl-1-pentene	ND		0.90	4.5
2,4,4-Trimethyl-2-pentene	ND		0.90	4.5
2-Chlorotoluene	ND		0.90	2.3
2-Hexanone	ND		4.6	23
4-Chlorotoluene	ND		0.90	2.3
Benzene	ND		0.90	2.3
Bromobenzene	ND		0.90	2.3
Chlorobromomethane	ND		0.90	2.3
Dichlorobromomethane	ND		0.90	2.3
Bromoform	ND		0.90	2.3
Bromomethane	ND		0.90	4.5
n-Butylbenzene	ND		0.90	2.3
Carbon disulfide	ND		0.90	2.3
Carbon tetrachloride	ND		0.90	2.3
Chlorobenzene	ND		0.90	2.3
Chloroethane	ND		0.90	4.5
Chloroform	ND		0.90	2.3
Chloromethane	ND		0.90	4.5
cis-1,2-Dichloroethene	ND		0.90	2.3
cis-1,3-Dichloropropene	ND		0.90	2.3
Cyclohexane	ND		2.3	23
Chlorodibromomethane	ND		0.90	2.3

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-462-31/33-XXX**

Lab Sample ID: 360-24444-4
Client Matrix: Solid % Moisture: 8.4

Date Sampled: 09/03/2009 1015
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45106.D
Dilution:	1.0			Initial Weight/Volume:	6.05 g
Date Analyzed:	09/17/2009 2121			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y.	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.90	2.3
Dichlorodifluoromethane		ND J	*	0.90	4.5
Ethyl ether		ND		0.90	2.3
Isopropyl ether		ND		0.90	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.90	2.3
Hexachlorobutadiene		ND		0.90	2.3
Isopropylbenzene		ND		0.90	2.3
Methyl acetate		ND		15	45
2-Butanone (MEK)		ND		6.1	23
4-Methyl-2-pentanone (MIBK)		ND		4.7	23
Methyl tert-butyl ether		ND		0.90	2.3
Methylcyclohexane		ND		0.90	2.3
Methylene Chloride		ND		4.4	9.0
m-Xylene & p-Xylene		ND		0.90	4.5
Naphthalene		ND		0.90	23
N-Propylbenzene		ND		0.90	2.3
o-Xylene		ND		0.90	2.3
4-Isopropyltoluene		ND		0.90	2.3
sec-Butylbenzene		ND		0.90	2.3
Styrene		ND		0.90	2.3
Tert-amyl methyl ether		ND		0.90	2.3
tert-Butylbenzene		ND		0.90	2.3
Tetrachloroethene		ND		0.90	2.3
Tetrahydrofuran		ND		5.0	23
Toluene		ND		0.90	2.3
trans-1,2-Dichloroethene		ND		0.90	2.3
trans-1,3-Dichloropropene		ND		0.90	2.3
Trichloroethene		ND		0.90	2.3
Trichlorofluoromethane		ND		0.90	4.5
Vinyl chloride		ND		0.90	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	104		70 - 130

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-462-31/33-XXX**

Lab Sample ID: 360-24444-4
Client Matrix: Solid % Moisture: 8.4

Date Sampled: 09/03/2009 1015
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45106.D
Dilution:	1.0			Initial Weight/Volume:	6.05 g
Date Analyzed:	09/17/2009 2121			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.66	2.3	T J

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-462-4.0/6.0-XXX**

Lab Sample ID: 360-24444-5
Client Matrix: Solid % Moisture: 14.0

Date Sampled: 09/03/2009 0910
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48767		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48765		Lab File ID:	V44847.D
Dilution:	1.0			Initial Weight/Volume:	5.65 g
Date Analyzed:	09/09/2009 2041			Final Weight/Volume:	5 g
Date Prepared:	09/09/2009 1557				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	18	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: OC-SB-462-4.0/6.0-XXX

Lab Sample ID: 360-24444-5
Client Matrix: Solid

% Moisture: 14.0

Date Sampled: 09/03/2009 0910
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48767		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48765		Lab File ID:	V44847.D
Dilution:	1.0			Initial Weight/Volume:	5.65 g
Date Analyzed:	09/09/2009 2041			Final Weight/Volume:	5 g
Date Prepared:	09/09/2009 1557				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.1
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	51
2-Butanone (MEK)		ND		6.9	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		~~7.0~~ ND	~~J~~	5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TC
4-7-10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-462-4.0/6.0-XXX**

Lab Sample ID: 360-24444-5
Client Matrix: Solid % Moisture: 14.0

Date Sampled: 09/03/2009 0910
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48767		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48765		Lab File ID:	V44847.D
Dilution:	1.0			Initial Weight/Volume:	5.65 g
Date Analyzed:	09/09/2009 2041			Final Weight/Volume:	5 g
Date Prepared:	09/09/2009 1557				

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
15220-85-6	1-Propene, 2-methyl-, tetramer	13.31	21	T J N
	Unknown	13.59	20	T J

TC
4-7-10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-467-30/32-XXX**

Lab Sample ID: 360-24444-7
Client Matrix: Solid

% Moisture: 10.8

Date Sampled: 09/02/2009 1730
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45107.D
Dilution:	1.0			Initial Weight/Volume:	6.17 g
Date Analyzed:	09/17/2009 2145			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND	J H	0.91	2.3
1,1,1-Trichloroethane		ND	H	0.91	2.3
1,1,2,2-Tetrachloroethane		ND	H	0.91	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	H	0.91	11
1,1,2-Trichloroethane		ND	H	0.91	2.3
1,1-Dichloroethane		ND	H	0.91	2.3
1,1-Dichloroethene		ND	H	0.91	2.3
1,1-Dichloropropene		ND	H	0.91	2.3
1,2,3-Trichlorobenzene		ND	H	0.91	2.3
1,2,3-Trichloropropane		ND	H	1.3	2.3
1,2,4-Trichlorobenzene		ND	H	0.91	2.3
1,2,4-Trimethylbenzene		ND	H	0.91	2.3
1,2-Dibromo-3-Chloropropane		ND	H	1.6	23
Ethylene Dibromide		ND	H	0.91	2.3
1,2-Dichlorobenzene		ND	H	0.91	2.3
1,2-Dichloroethane		ND	H	0.91	2.3
Acetone		ND	H	16	230
1,2-Dichloropropane		ND	H	0.91	2.3
1,3,5-Trimethylbenzene		ND	H	0.91	2.3
1,3-Dichlorobenzene		ND	H	0.91	2.3
1,3-Dichloropropane		ND	H	0.91	2.3
1,4-Dichlorobenzene		ND	H	0.91	2.3
1,4-Dioxane		ND	H	30	230
2,2-Dichloropropane		ND	H	0.91	2.3
2,4,4-Trimethyl-1-pentene		ND	H	0.91	4.5
2,4,4-Trimethyl-2-pentene		ND	H	0.91	4.5
2-Chlorotoluene		ND	H	0.91	2.3
2-Hexanone		ND	H	4.7	23
4-Chlorotoluene		ND	H	0.91	2.3
Benzene		ND	H	0.91	2.3
Bromobenzene		ND	H	0.91	2.3
Chlorobromomethane		ND	H	0.91	2.3
Dichlorobromomethane		ND	H	0.91	2.3
Bromoform		ND	H	0.91	2.3
Bromomethane		ND	H	0.91	4.5
n-Butylbenzene		ND	H	0.91	2.3
Carbon disulfide		ND	H	0.91	2.3
Carbon tetrachloride		ND	H	0.91	2.3
Chlorobenzene		ND	H	0.91	2.3
Chloroethane		ND	H	0.91	4.5
Chloroform		ND	H	0.91	2.3
Chloromethane		ND	H	0.91	4.5
cis-1,2-Dichloroethene		ND	H	0.91	2.3
cis-1,3-Dichloropropene		ND	H	0.91	2.3
Cyclohexane		ND	H	2.3	23
Chlorodibromomethane		ND	H	0.91	2.3

TC 4-7-10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-467-30/32-XXX**

Lab Sample ID: 360-24444-7
Client Matrix: Solid

% Moisture: 10.8

Date Sampled: 09/02/2009 1730
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45107.D
Dilution:	1.0			Initial Weight/Volume:	6.17 g
Date Analyzed:	09/17/2009 2145			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND	H	0.91	2.3
Dichlorodifluoromethane		ND	H *	0.91	4.5
Ethyl ether		ND	H	0.91	2.3
Isopropyl ether		ND	H	0.91	2.3
Tert-butyl ethyl ether		ND	H	2.3	2.3
Ethylbenzene		ND	H	0.91	2.3
Hexachlorobutadiene		ND	H	0.91	2.3
Isopropylbenzene		ND	H	0.91	2.3
Methyl acetate		ND	H	15	45
2-Butanone (MEK)		ND	H	6.1	23
4-Methyl-2-pentanone (MIBK)		ND	H	4.7	23
Methyl tert-butyl ether		ND	H	0.91	2.3
Methylcyclohexane		ND	H	0.91	2.3
Methylene Chloride		ND	H	4.4	9.1
m-Xylene & p-Xylene		ND	H	0.91	4.5
Naphthalene		ND	H	0.91	23
N-Propylbenzene		ND	H	0.91	2.3
o-Xylene		ND	H	0.91	2.3
4-Isopropyltoluene		ND	H	0.91	2.3
sec-Butylbenzene		ND	H	0.91	2.3
Styrene		ND	H	0.91	2.3
Tert-amyl methyl ether		ND	H	0.91	2.3
tert-Butylbenzene		ND	H	0.91	2.3
Tetrachloroethene		ND	H	0.91	2.3
Tetrahydrofuran		ND	H	5.0	23
Toluene		ND	H	0.91	2.3
trans-1,2-Dichloroethene		ND	H	0.91	2.3
trans-1,3-Dichloropropene		ND	H	0.91	2.3
Trichloroethene		ND	H	0.91	2.3
Trichlorofluoromethane		ND	H	0.91	4.5
Vinyl chloride		ND	H	0.91	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-467-30/32-XXX**

Lab Sample ID: 360-24444-7
Client Matrix: Solid % Moisture: 10.8

Date Sampled: 09/02/2009 1730
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45107.D
Dilution:	1.0			Initial Weight/Volume:	6.17 g
Date Analyzed:	09/17/2009 2145			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
~~Unknown~~		~~10.36~~	~~2.0~~	~~T J~~

TC
4-7-10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-467-6.0/8.0-DUP**

Lab Sample ID: 360-24444-8
Client Matrix: Solid % Moisture: 16.0

Date Sampled: 09/02/2009 1625
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44882.D
Dilution:	1.0			Initial Weight/Volume:	5.96 g
Date Analyzed:	09/10/2009 1851			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-467-6.0/8.0-DUP**

Lab Sample ID: 360-24444-8
Client Matrix: Solid

% Moisture: 16.0

Date Sampled: 09/02/2009 1625
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44882.D
Dilution:	1.0			Initial Weight/Volume:	5.96 g
Date Analyzed:	09/10/2009 1851			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J	✓	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND J		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		~~9.8~~ ND	d	5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TC 4/7/16

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-467-6.0/8.0-DUP**

Lab Sample ID: 360-24444-8
Client Matrix: Solid

% Moisture: 16.0

Date Sampled: 09/02/2009 1625
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44882.D
Dilution:	1.0			Initial Weight/Volume:	5.96 g
Date Analyzed:	09/10/2009 1851			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.55	2.6	TJ

TC
4/27/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: OC-SB-467-6.0/8.0-XXX

Lab Sample ID: 360-24444-9
Client Matrix: Solid % Moisture: 17.1

Date Sampled: 09/02/2009 1625
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44883.D
Dilution:	1.0			Initial Weight/Volume:	5.69 g
Date Analyzed:	09/10/2009 1915			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.4	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.7	27
Chlorodibromomethane		ND		1.1	2.7

PC 4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-467-6.0/8.0-XXX**

Lab Sample ID: 360-24444-9
Client Matrix: Solid

% Moisture: 17.1

Date Sampled: 09/02/2009 1625
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44883.D
Dilution:	1.0			Initial Weight/Volume:	5.69 g
Date Analyzed:	09/10/2009 1915			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND	*	1.1	5.3
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND J		17	53
2-Butanone (MEK)		ND		7.1	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		~~7.4~~ ND	J	5.8	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-467-6.0/8.0-XXX**

Lab Sample ID: 360-24444-9
Client Matrix: Solid

% Moisture: 17.1

Date Sampled: 09/02/2009 1625
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44883.D
Dilution:	1.0			Initial Weight/Volume:	5.69 g
Date Analyzed:	09/10/2009 1915			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.35	3.5	T J

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-TBK-013**

Lab Sample ID: 360-24444-10
Client Matrix: Solid

Date Sampled: 09/03/2009 1400
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44927.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	09/12/2009 1454			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-TBK-013**

Lab Sample ID: 360-24444-10
Client Matrix: Solid

Date Sampled: 09/03/2009 1400
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44927.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	09/12/2009 1454			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		9.1	J	5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-TBK-013**

Lab Sample ID: 360-24444-10
Client Matrix: Solid

Date Sampled: 09/03/2009 1400
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44927.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	09/12/2009 1454			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: OC-SB-459-0.0/1.0-XXX

Lab Sample ID: 360-24444-12
Client Matrix: Solid

% Moisture: 6.1

Date Sampled: 09/03/2009 1110
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48819		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48818		Lab File ID:	V44915.D
Dilution:	1.0			Initial Weight/Volume:	10.63 g
Date Analyzed:	09/11/2009 0759			Final Weight/Volume:	10 g
Date Prepared:	09/10/2009 1456				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		50	130
1,1,1-Trichloroethane		ND		50	130
1,1,2,2-Tetrachloroethane		ND		50	130
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	J	50	630
1,1,2-Trichloroethane		ND		50	130
1,1-Dichloroethane		ND		50	130
1,1-Dichloroethene		ND		50	130
1,1-Dichloropropene		ND		50	130
1,2,3-Trichlorobenzene		ND		50	130
1,2,3-Trichloropropane		ND		74	130
1,2,4-Trichlorobenzene		ND		50	130
1,2,4-Trimethylbenzene		ND		50	130
1,2-Dibromo-3-Chloropropane		ND		90	1300
Ethylene Dibromide		ND		50	130
1,2-Dichlorobenzene		ND		50	130
1,2-Dichloroethane		ND		50	130
Acetone		ND	J	900	13000
1,2-Dichloropropane		ND		50	130
1,3,5-Trimethylbenzene		ND		50	130
1,3-Dichlorobenzene		ND		50	130
1,3-Dichloropropane		ND		50	130
1,4-Dichlorobenzene		ND		50	130
1,4-Dioxane		ND	J	1700	13000
2,2-Dichloropropane		ND		50	130
2,4,4-Trimethyl-1-pentene		420	J	50	250
2,4,4-Trimethyl-2-pentene		190	J	50	250
2-Chlorotoluene		ND		50	130
2-Hexanone		ND		260	1300
4-Chlorotoluene		ND		50	130
Benzene		ND		50	130
Bromobenzene		ND		50	130
Chlorobromomethane		ND		50	130
Dichlorobromomethane		ND		50	130
Bromoform		ND		50	130
Bromomethane		ND		50	250
n-Butylbenzene		ND		50	130
Carbon disulfide		ND		50	130
Carbon tetrachloride		ND		50	130
Chlorobenzene		ND		50	130
Chloroethane		ND		50	250
Chloroform		ND		50	130
Chloromethane		ND		50	250
cis-1,2-Dichloroethene		ND		50	130
cis-1,3-Dichloropropene		ND		50	130
Cyclohexane		ND	J	130	1300
Chlorodibromomethane		ND		50	130

TC 4-7-10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-459-0.0/1.0-XXX**

Lab Sample ID: 360-24444-12
Client Matrix: Solid % Moisture: 6.1

Date Sampled: 09/03/2009 1110
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48819		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48818		Lab File ID:	V44915.D
Dilution:	1.0			Initial Weight/Volume:	10.63 g
Date Analyzed:	09/11/2009 0759			Final Weight/Volume:	10 g
Date Prepared:	09/10/2009 1456				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		50	130
Dichlorodifluoromethane		ND J	*	50	250
Ethyl ether		ND		50	130
Isopropyl ether		ND		50	130
Tert-butyl ethyl ether		ND		130	130
Ethylbenzene		ND		50	130
Hexachlorobutadiene		ND		50	130
Isopropylbenzene		ND		50	130
Methyl acetate		ND J	*	810	2500
2-Butanone (MEK)		ND		340	1300
4-Methyl-2-pentanone (MIBK)		ND		260	1300
Methyl tert-butyl ether		ND		50	130
Methylcyclohexane		ND J		50	130
Methylene Chloride		ND		240	500
m-Xylene & p-Xylene		ND		50	250
Naphthalene		ND		50	1300
N-Propylbenzene		ND		50	130
o-Xylene		ND		50	130
4-Isopropyltoluene		ND		50	130
sec-Butylbenzene		ND		50	130
Styrene		ND		50	130
Tert-amyl methyl ether		ND		50	130
tert-Butylbenzene		ND		50	130
Tetrachloroethene		ND		50	130
Tetrahydrofuran		ND		280	1300
Toluene		ND		50	130
trans-1,2-Dichloroethene		ND		50	130
trans-1,3-Dichloropropene		ND		50	130
Trichloroethene		ND		50	130
Trichlorofluoromethane		ND J		50	250
Vinyl chloride		ND		50	130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	101		70 - 130

TC
4-7-10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-459-0.0/1.0-XXX**

Lab Sample ID: 360-24444-12
Client Matrix: Solid % Moisture: 6.1

Date Sampled: 09/03/2009 1110
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48819		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48818		Lab File ID:	V44915.D
Dilution:	1.0			Initial Weight/Volume:	10.63 g
Date Analyzed:	09/11/2009 0759			Final Weight/Volume:	10 g
Date Prepared:	09/10/2009 1456				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-7-10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-459-26/28-XXX**

Lab Sample ID: 360-24444-13
Client Matrix: Solid

% Moisture: 9.7

Date Sampled: 09/03/2009 1225
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45110.D
Dilution:	1.0			Initial Weight/Volume:	5.91 g
Date Analyzed:	09/17/2009 2259			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.94	2.3
1,1,1-Trichloroethane		ND		0.94	2.3
1,1,2,2-Tetrachloroethane		ND		0.94	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.94	12
1,1,2-Trichloroethane		ND		0.94	2.3
1,1-Dichloroethane		ND		0.94	2.3
1,1-Dichloroethene		ND		0.94	2.3
1,1-Dichloropropene		ND		0.94	2.3
1,2,3-Trichlorobenzene		ND		0.94	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.94	2.3
1,2,4-Trimethylbenzene		ND		0.94	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.94	2.3
1,2-Dichlorobenzene		ND		0.94	2.3
1,2-Dichloroethane		ND		0.94	2.3
Acetone		ND	J	17	230
1,2-Dichloropropane		ND	~~J~~ (TC)	0.94	2.3
1,3,5-Trimethylbenzene		ND		0.94	2.3
1,3-Dichlorobenzene		ND		0.94	2.3
1,3-Dichloropropane		ND		0.94	2.3
1,4-Dichlorobenzene		ND		0.94	2.3
1,4-Dioxane		ND	J	31	230
2,2-Dichloropropane		ND		0.94	2.3
2,4,4-Trimethyl-1-pentene		ND		0.94	4.7
2,4,4-Trimethyl-2-pentene		ND		0.94	4.7
2-Chlorotoluene		ND		0.94	2.3
2-Hexanone		ND		4.8	23
4-Chlorotoluene		ND		0.94	2.3
Benzene		ND		0.94	2.3
Bromobenzene		ND		0.94	2.3
Chlorobromomethane		ND		0.94	2.3
Dichlorobromomethane		ND		0.94	2.3
Bromoform		ND		0.94	2.3
Bromomethane		ND		0.94	4.7
n-Butylbenzene		ND		0.94	2.3
Carbon disulfide		ND		0.94	2.3
Carbon tetrachloride		ND		0.94	2.3
Chlorobenzene		ND		0.94	2.3
Chloroethane		ND		0.94	4.7
Chloroform		ND		0.94	2.3
Chloromethane		ND		0.94	4.7
cis-1,2-Dichloroethene		ND		0.94	2.3
cis-1,3-Dichloropropene		ND		0.94	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.94	2.3

TC 4-7-10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-459-26/28-XXX**

Lab Sample ID: 360-24444-13
Client Matrix: Solid
% Moisture: 9.7

Date Sampled: 09/03/2009 1225
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45110.D
Dilution:	1.0			Initial Weight/Volume:	5.91 g
Date Analyzed:	09/17/2009 2259			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.94	2.3
Dichlorodifluoromethane		ND J	*	0.94	4.7
Ethyl ether		ND		0.94	2.3
Isopropyl ether		ND		0.94	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.94	2.3
Hexachlorobutadiene		ND		0.94	2.3
Isopropylbenzene		ND		0.94	2.3
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.3	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.94	2.3
Methylcyclohexane		ND		0.94	2.3
Methylene Chloride		ND		4.5	9.4
m-Xylene & p-Xylene		ND		0.94	4.7
Naphthalene		ND		0.94	23
N-Propylbenzene		ND		0.94	2.3
o-Xylene		ND		0.94	2.3
4-Isopropyltoluene		ND		0.94	2.3
sec-Butylbenzene		ND		0.94	2.3
Styrene		ND		0.94	2.3
Tert-amyl methyl ether		ND		0.94	2.3
tert-Butylbenzene		ND		0.94	2.3
Tetrachloroethene		ND		0.94	2.3
Tetrahydrofuran		ND		5.2	23
Toluene		ND		0.94	2.3
trans-1,2-Dichloroethene		ND		0.94	2.3
trans-1,3-Dichloropropene		ND		0.94	2.3
Trichloroethene		ND		0.94	2.3
Trichlorofluoromethane		ND		0.94	4.7
Vinyl chloride		ND		0.94	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-SB-459-26/28-XXX**

Lab Sample ID: 360-24444-13
Client Matrix: Solid
% Moisture: 9.7

Date Sampled: 09/03/2009 1225
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45110.D
Dilution:	1.0			Initial Weight/Volume:	5.91 g
Date Analyzed:	09/17/2009 2259			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.66	1.6	T J

TC
4-7-10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-EBK-007**

Lab Sample ID: 360-24444-16
Client Matrix: Water

Date Sampled: 09/03/2009 0800
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/10/2009 2345
Date Prepared: 09/10/2009 2345

Analysis Batch: 360-48826

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06870.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND		0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND		0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	1.5		0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

TC 4/760

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-EBK-007**

Lab Sample ID: 360-24444-16
Client Matrix: Water

Date Sampled: 09/03/2009 0800
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48826		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06870.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	09/10/2009 2345			Final Weight/Volume:	5 mL
Date Prepared:	09/10/2009 2345				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND	*	0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	87		70 - 130
Dibromofluoromethane	118		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24444-1
Sdg Number: OCRI-11

Client Sample ID: **OC-EBK-007**

Lab Sample ID: 360-24444-16
Client Matrix: Water

Date Sampled: 09/03/2009 0800
Date Received: 09/03/2009 1650

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48826		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06870.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	09/10/2009 2345			Final Weight/Volume:	5 mL
Date Prepared:	09/10/2009 2345				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
115-7-1	Propene	1.68	3.2	T J N

TC 4/7/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44850.D I-cal BFB Injection Date: 09/09/2009

Instrument ID: HP #1 GC/MS 9/8/09 BFB Injection Time: 21:53

Analysis Batch No.: 48773

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.6	
75	30.0 - 60.0 % of mass 95	51.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.8	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	65.4	(97.9)1
177	5.0 - 9.0 % of mass 176	4.2	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48773/2	V44851.D	09/09/2009	22:17
	LCS 360-48769/1-A	V44852.D	09/09/2009	22:41
	LCSD 360-48769/2-A	V44853.D	09/09/2009	23:06
	MB 360-48769/3-A	V44855.D	09/09/2009	23:54
OC-SB-459-6.0/8.0-XXX	360-24444-2	V44856.D	09/10/2009	00:18
OC-SB-459-6.0/8.0-XXX MS	360-24444-2 MS	V44869.D	09/10/2009	05:29
OC-SB-459-6.0/8.0-XXX MSD	360-24444-2 MSD	V44870.D	09/10/2009	05:53

Dichlorodifluoromethane 56% MSD ~~out of control~~ TC

w/in control

1,4-Dioxane 62%/91

Dichlorodifluoromethane 62%/52%

MeCl2 @ 247ug/kg
NO Quals no detects

4/6/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44874.D I-cal BFB Injection Date: 09/10/2009

Instrument ID: HP #1 GC/MS 9/8/09 BFB Injection Time: 15:42

Analysis Batch No.: 48816

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.1	
75	30.0 - 60.0 % of mass 95	51.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.9	
175	5.0 - 9.0 % of mass 174	5.3	(7.9)1
176	95.0 - 101.0 % of mass 174	65.5	(97.9)1
177	5.0 - 9.0 % of mass 176	4.2	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48816/2	V44875.D	09/10/2009	16:05
	LCS 360-48815/1-A	V44876.D	09/10/2009	16:29
	LCSD 360-48815/2-A	V44877.D	09/10/2009	16:53
OC-SB-467-6.0/8.0-XXX MS	360-24444-9 MS	V44878.D	09/10/2009	17:17
OC-SB-467-6.0/8.0-XXX MSD	360-24444-9 MSD	V44879.D	09/10/2009	17:41
	MB 360-48815/3-A	V44881.D	09/10/2009	18:28
OC-SB-467-6.0/8.0-DUP	360-24444-8	V44882.D	09/10/2009	18:51
OC-SB-467-6.0/8.0-XXX	360-24444-9	V44883.D	09/10/2009	19:15

MS MSD
Dichlorodifluoromethane 33 37

Dichlorodifluoromethane 36%/32%

%D
Dichlorodifluoromethane -52.2
Methyl Acetate 55.9

$MeCl_2$ @ 11.6 ug/kg x 10 = 116 ug/kg Action
No Quals no detects

4/6/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44893.D I-Cal 9/8/09 BFB Injection Date: 09/10/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 23:15

Analysis Batch No.: 48819

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.8	
75	30.0 - 60.0 % of mass 95	52.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.3	
175	5.0 - 9.0 % of mass 174	5.4	(8.0)1
176	95.0 - 101.0 % of mass 174	65.4	(97.2)1
177	5.0 - 9.0 % of mass 176	4.5	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48819/2	V44894.D	09/10/2009	23:39
	LCS 360-48818/1-A	V44895.D	09/11/2009	00:02
	LCSD 360-48818/2-A	V44896.D	09/11/2009	00:26
	MB 360-48818/3-A	V44898.D	09/11/2009	01:14
OC-SB-459-0.0/1.0-XXX	360-24444-12	V44915.D	09/11/2009	07:59

No Quals
No hits
Methylene Chloride 534 ug/kg

Dichlorodifluoromethane 31%/32%

	%D
Dichlorodifluoromethane	-59
Trichlorofluoromethane	-25.6
1,1,2-Trichloro-1,2,2-trifluoroethane	-30.4
Methyl Acetate	61
Cyclohexane	-27
2,4,4-TMP-1	-32
Methylcyclohexane	-27
2,4,4-TMP-2	-28

UJ Quall All samples

4/6/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44920.D I-cal 9/8/09 BFB Injection Date: 09/12/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 12:07

Analysis Batch No.: 48878

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.0	
75	30.0 - 60.0 % of mass 95	50.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.8	
175	5.0 - 9.0 % of mass 174	5.3	(8.4)1
176	95.0 - 101.0 % of mass 174	63.4	(99.4)1
177	5.0 - 9.0 % of mass 176	4.3	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48878/2	V44921.D	09/12/2009	12:31
	LCS 360-48877/1-A	V44922.D	09/12/2009	12:55
	LCSD 360-48877/2-A	V44923.D	09/12/2009	13:19
	MB 360-48877/3-A	V44925.D	09/12/2009	14:06
OC-SB-462-0.0/1.0-XXX	360-24444-3	V44926.D	09/12/2009	14:30
OC-TBK-013	360-24444-10	V44927.D	09/12/2009	14:54

Tetrahydrofuran @ 9.1 ug/kg

Dichlorodifluoromethane 58%/60%

w/in Control

Clean

4/6/10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V45086.D 9/8/09 I-cal BFB Injection Date: 09/17/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 13:02

Analysis Batch No.: 49101

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.6	
75	30.0 - 60.0 % of mass 95	51.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.2	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	64.3	(95.7)1
177	5.0 - 9.0 % of mass 176	4.4	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49101/2	V45087.D	09/17/2009	13:26
	LCS 360-49099/1-A	V45088.D	09/17/2009	13:51
	LCSD 360-49099/2-A	V45089.D	09/17/2009	14:15
	MB 360-49099/3-A	V45091.D	09/17/2009	15:02
OC-SB-462-31/33-XXX	360-24444-4	V45106.D	09/17/2009	21:21
OC-SB-467-30/32-XXX	360-24444-7	V45107.D	09/17/2009	21:45
OC-SB-459-26/28-XXX	360-24444-13	V45110.D	09/17/2009	22:59

Acetone 27

Dichlorodifluoromethane 51%/65%

Clean

4/6/10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44821.D I-cal 9/8/09 BFB Injection Date: 09/09/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 05:17

Analysis Batch No.: 48716

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	30.2	
75	30.0 - 60.0 % of mass 95	52.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	65.4	
175	5.0 - 9.0 % of mass 174	5.2	(8.0)1
176	95.0 - 101.0 % of mass 174	62.7	(95.9)1
177	5.0 - 9.0 % of mass 176	4.1	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48716/2	V44822.D	09/09/2009	05:40
	LCS 360-48715/1-A	V44823.D	09/09/2009	06:04
	LCSD 360-48715/2-A	V44824.D	09/09/2009	06:27
	MB 360-48715/3-A	V44826.D	09/09/2009	07:15
OC-SB-459-6.0/8.0-DUP	360-24444-1	V44830.D	09/09/2009	08:52

clean

W/in control

Dichlorodifluoromethane 52% 58%

4/6/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44836A.D I-cal 9/8/09 BFB Injection Date: 09/09/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:42

Analysis Batch No.: 48767

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.5	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	64.6	
175	5.0 - 9.0 % of mass 174	5.2	(8.0)1
176	95.0 - 101.0 % of mass 174	63.0	(97.6)1
177	5.0 - 9.0 % of mass 176	4.3	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48767/2	V44837.D	09/09/2009	16:42
	LCS 360-48765/1-A	V44838.D	09/09/2009	17:06
	LCSD 360-48765/2-A	V44839.D	09/09/2009	17:30
	MB 360-48765/3-A	V44843.D	09/09/2009	19:05
OC-SB-462-4.0/6.0-XXX	360-24444-5	V44847.D	09/09/2009	20:41

Dichlorodifluoromethane 61%/67%

W/in control

MeCl2 @ 5.03 ug/kg x10 = 50 ug/kg Action

4/6/10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V06680.D BFB Injection Date: 09/03/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:33

Analysis Batch No.: 48601

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.7	
75	30.0 - 60.0 % of mass 95	55.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	67.6	
175	5.0 - 9.0 % of mass 174	4.9	(7.3)1
176	95.0 - 101.0 % of mass 174	65.1	(96.3)1
177	5.0 - 9.0 % of mass 176	4.2	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD03 360-48601/4	V06683.D	09/03/2009	17:36
	STD05 360-48601/5	V06684.D	09/03/2009	17:57
	STD1 360-48601/6	V06685.D	09/03/2009	18:18
	STD5 360-48601/7	V06686.D	09/03/2009	18:38
	STD10 360-48601/8	V06687.D	09/03/2009	18:59
	STD40 360-48601/9	V06688.D	09/03/2009	19:20
	STD80 360-48601/10	V06689.D	09/03/2009	19:41
	STD160 360-48601/11	V06690.D	09/03/2009	20:02

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V06849.D BFB Injection Date: 09/10/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:25

Analysis Batch No.: 48826

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.1	
75	30.0 - 60.0 % of mass 95	52.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	78.1	
175	5.0 - 9.0 % of mass 174	5.7	(7.3)1
176	95.0 - 101.0 % of mass 174	74.6	(95.5)1
177	5.0 - 9.0 % of mass 176	4.9	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48826/2	V06850.D	09/10/2009	16:46
	LCS 360-48826/3	V06851.D	09/10/2009	17:07
	LCSD 360-48826/4	V06852.D	09/10/2009	17:28
	MB 360-48826/6	V06854.D	09/10/2009	18:10
OC-EBK-007	360-24444-16	V06870.D	09/10/2009	23:45

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

UJ 1,4-Dioxane RRF < 0.05

→ ICV

Dichlorodifluoromethane %D > 30%

Acetone

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44850.D I-cal BFB Injection Date: 09/09/2009

Instrument ID: HP #1 GC/MS 9/8/09 BFB Injection Time: 21:53

Analysis Batch No.: 48773

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.6	
75	30.0 - 60.0 % of mass 95	51.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.8	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	65.4	(97.9)1
177	5.0 - 9.0 % of mass 176	4.2	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48773/2	V44851.D	09/09/2009	22:17
	LCS 360-48769/1-A	V44852.D	09/09/2009	22:41
	LCSD 360-48769/2-A	V44853.D	09/09/2009	23:06
	MB 360-48769/3-A	V44855.D	09/09/2009	23:54
OC-SB-459-6.0/8.0-XXX	360-24444-2	V44856.D	09/10/2009	00:18
OC-SB-459-6.0/8.0-XXX MS	360-24444-2 MS	V44869.D	09/10/2009	05:29
OC-SB-459-6.0/8.0-XXX MSD	360-24444-2 MSD	V44870.D	09/10/2009	05:53

Dichlorodifluoromethane 56% MSD ~~out of control~~ TC

w/in control

1,4-Dioxane 62%/91

Dichlorodifluoromethane 62%/52%

MeCl2 @ 247ug/kg
NO Quals no detects

4/6/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44874.D I-cal BFB Injection Date: 09/10/2009

Instrument ID: HP #1 GC/MS 9/8/09 BFB Injection Time: 15:42

Analysis Batch No.: 48816

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.1	
75	30.0 - 60.0 % of mass 95	51.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.9	
175	5.0 - 9.0 % of mass 174	5.3	(7.9)1
176	95.0 - 101.0 % of mass 174	65.5	(97.9)1
177	5.0 - 9.0 % of mass 176	4.2	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48816/2	V44875.D	09/10/2009	16:05
	LCS 360-48815/1-A	V44876.D	09/10/2009	16:29
	LCSD 360-48815/2-A	V44877.D	09/10/2009	16:53
OC-SB-467-6.0/8.0-XXX MS	360-24444-9 MS	V44878.D	09/10/2009	17:17
OC-SB-467-6.0/8.0-XXX MSD	360-24444-9 MSD	V44879.D	09/10/2009	17:41
	MB 360-48815/3-A	V44881.D	09/10/2009	18:28
OC-SB-467-6.0/8.0-DUP	360-24444-8	V44882.D	09/10/2009	18:51
OC-SB-467-6.0/8.0-XXX	360-24444-9	V44883.D	09/10/2009	19:15

MS MSD
Dichlorodifluoromethane 33 37

Dichlorodifluoromethane 36%/32%

%D
Dichlorodifluoromethane -52.2
Methyl Acetate 55.9

$MeCl_2$ @ 11.6 ug/kg x 10 = 116 ug/kg Action
No Quals no detects

4/6/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44893.D I-Cal 9/8/09 BFB Injection Date: 09/10/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 23:15

Analysis Batch No.: 48819

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.8	
75	30.0 - 60.0 % of mass 95	52.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.3	
175	5.0 - 9.0 % of mass 174	5.4	(8.0)1
176	95.0 - 101.0 % of mass 174	65.4	(97.2)1
177	5.0 - 9.0 % of mass 176	4.5	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48819/2	V44894.D	09/10/2009	23:39
	LCS 360-48818/1-A	V44895.D	09/11/2009	00:02
	LCSD 360-48818/2-A	V44896.D	09/11/2009	00:26
	MB 360-48818/3-A	V44898.D	09/11/2009	01:14
OC-SB-459-0.0/1.0-XXX	360-24444-12	V44915.D	09/11/2009	07:59

No Quals
No Hits
Methylene Chloride 534 ug/kg

Dichlorodifluoromethane 31%/32%

	%D
Dichlorodifluoromethane	-59
Trichlorofluoromethane	-25.6
1,1,2-Trichloro-1,2,2-trifluoroethane	-30.4
Methyl Acetate	61
Cyclohexane	-27
2,4,4-TMP-1	-32
Methylcyclohexane	-27
2,4,4-TMP-2	-28

UJ Quall All samples

4/6/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44920.D I-cal 9/8/09 BFB Injection Date: 09/12/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 12:07

Analysis Batch No.: 48878

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.0	
75	30.0 - 60.0 % of mass 95	50.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.8	
175	5.0 - 9.0 % of mass 174	5.3	(8.4)1
176	95.0 - 101.0 % of mass 174	63.4	(99.4)1
177	5.0 - 9.0 % of mass 176	4.3	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48878/2	V44921.D	09/12/2009	12:31
	LCS 360-48877/1-A	V44922.D	09/12/2009	12:55
	LCSD 360-48877/2-A	V44923.D	09/12/2009	13:19
	MB 360-48877/3-A	V44925.D	09/12/2009	14:06
OC-SB-462-0.0/1.0-XXX	360-24444-3	V44926.D	09/12/2009	14:30
OC-TBK-013	360-24444-10	V44927.D	09/12/2009	14:54

Tetrahydrofuran @ 9.1 ug/kg

Dichlorodifluoromethane 58%/60%

w/in Control

Clean

4/6/10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V45086.D 9/8/09 I-cal BFB Injection Date: 09/17/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 13:02

Analysis Batch No.: 49101

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.6	
75	30.0 - 60.0 % of mass 95	51.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.2	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	64.3	(95.7)1
177	5.0 - 9.0 % of mass 176	4.4	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49101/2	V45087.D	09/17/2009	13:26
	LCS 360-49099/1-A	V45088.D	09/17/2009	13:51
	LCSD 360-49099/2-A	V45089.D	09/17/2009	14:15
	MB 360-49099/3-A	V45091.D	09/17/2009	15:02
OC-SB-462-31/33-XXX	360-24444-4	V45106.D	09/17/2009	21:21
OC-SB-467-30/32-XXX	360-24444-7	V45107.D	09/17/2009	21:45
OC-SB-459-26/28-XXX	360-24444-13	V45110.D	09/17/2009	22:59

Acetone 27

Dichlorodifluoromethane 51%/65%

Clean

4/6/10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44821.D I-cal BFB Injection Date: 09/09/2009

Instrument ID: HP #1 GC/MS 9/8/09 BFB Injection Time: 05:17

Analysis Batch No.: 48716

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	30.2	
75	30.0 - 60.0 % of mass 95	52.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	65.4	
175	5.0 - 9.0 % of mass 174	5.2	(8.0)1
176	95.0 - 101.0 % of mass 174	62.7	(95.9)1
177	5.0 - 9.0 % of mass 176	4.1	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48716/2	V44822.D	09/09/2009	05:40
	LCS 360-48715/1-A	V44823.D	09/09/2009	06:04
	LCSD 360-48715/2-A	V44824.D	09/09/2009	06:27
	MB 360-48715/3-A	V44826.D	09/09/2009	07:15
OC-SB-459-6.0/8.0-DUP	360-24444-1	V44830.D	09/09/2009	08:52

clean

W/in control

Dichlorodifluoromethane 52% 58%

4/6/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44836A.D I-cal 9/8/09 BFB Injection Date: 09/09/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:42

Analysis Batch No.: 48767

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.5	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	64.6	
175	5.0 - 9.0 % of mass 174	5.2	(8.0)1
176	95.0 - 101.0 % of mass 174	63.0	(97.6)1
177	5.0 - 9.0 % of mass 176	4.3	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48767/2	V44837.D	09/09/2009	16:42
	LCS 360-48765/1-A	V44838.D	09/09/2009	17:06
	LCSD 360-48765/2-A	V44839.D	09/09/2009	17:30
	MB 360-48765/3-A	V44843.D	09/09/2009	19:05
OC-SB-462-4.0/6.0-XXX	360-24444-5	V44847.D	09/09/2009	20:41

Dichlorodifluoromethane 61%/67%

W/in Control

MeCl2 @ 5.03 ug/kg x10 = 50 ug/kg Action

4/6/10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V06680.D BFB Injection Date: 09/03/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:33

Analysis Batch No.: 48601

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.7	
75	30.0 - 60.0 % of mass 95	55.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	67.6	
175	5.0 - 9.0 % of mass 174	4.9	(7.3)1
176	95.0 - 101.0 % of mass 174	65.1	(96.3)1
177	5.0 - 9.0 % of mass 176	4.2	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD03 360-48601/4	V06683.D	09/03/2009	17:36
	STD05 360-48601/5	V06684.D	09/03/2009	17:57
	STD1 360-48601/6	V06685.D	09/03/2009	18:18
	STD5 360-48601/7	V06686.D	09/03/2009	18:38
	STD10 360-48601/8	V06687.D	09/03/2009	18:59
	STD40 360-48601/9	V06688.D	09/03/2009	19:20
	STD80 360-48601/10	V06689.D	09/03/2009	19:41
	STD160 360-48601/11	V06690.D	09/03/2009	20:02

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V06849.D BFB Injection Date: 09/10/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:25

Analysis Batch No.: 48826

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.1	
75	30.0 - 60.0 % of mass 95	52.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	78.1	
175	5.0 - 9.0 % of mass 174	5.7	(7.3)1
176	95.0 - 101.0 % of mass 174	74.6	(95.5)1
177	5.0 - 9.0 % of mass 176	4.9	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48826/2	V06850.D	09/10/2009	16:46
	LCS 360-48826/3	V06851.D	09/10/2009	17:07
	LCSD 360-48826/4	V06852.D	09/10/2009	17:28
	MB 360-48826/6	V06854.D	09/10/2009	18:10
OC-EBK-007	360-24444-16	V06870.D	09/10/2009	23:45

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

UJ 1,4-Dioxane RRF < 0.05

ICV

Dichlorodifluoromethane %D > 30%

Acetone

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-459-6.0/8.0-DUP	360-24444-1	96	102	96
OC-SB-459-6.0/8.0-XXX	360-24444-2	101	101	102
OC-SB-462-0.0/1.0-XXX	360-24444-3	101	101	102
OC-SB-462-31/33-XXX	360-24444-4	96	104	93
OC-SB-462-4.0/6.0-XXX	360-24444-5	103	97	103
OC-SB-467-30/32-XXX	360-24444-7	102	101	101
OC-SB-467-6.0/8.0-DUP	360-24444-8	99	100	100
OC-SB-467-6.0/8.0-XXX	360-24444-9	101	99	102
OC-TBK-013	360-24444-10	96	102	95
OC-SB-459-0.0/1.0-XXX	360-24444-12	102	101	102
OC-SB-459-26/28-XXX	360-24444-13	100	103	98
	MB 360-48715/3-A	99	99	105
	MB 360-48765/3-A	101	99	103
	MB 360-48769/3-A	98	100	97
	MB 360-48815/3-A	102	100	106
	MB 360-48818/3-A	98	102	97
	MB 360-48877/3-A	105	99	105
	MB 360-49099/3-A	101	99	103
	LCS 360-48715/1-A	98	99	102
	LCS 360-48765/1-A	100	99	97
	LCS 360-48769/1-A	97	99	98
	LCS 360-48815/1-A	97	102	94
	LCS 360-48818/1-A	95	100	94
	LCS 360-48877/1-A	99	101	96
	LCS 360-49099/1-A	94	106	90
	LCSD 360-48715/2-A	99	99	103

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

TC 4-6-16

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
	LCSD 360-48765/2-A	99	99	98
	LCSD 360-48769/2-A	97	101	94
	LCSD 360-48815/2-A	99	103	95
	LCSD 360-48818/2-A	99	99	98
	LCSD 360-48877/2-A	100	100	97
	LCSD 360-49099/2-A	99	101	97
OC-SB-459-6.0/8.0-XXX MS	360-24444-2 MS	98	99	100
OC-SB-467-6.0/8.0-XXX MS	360-24444-9 MS	99	102	92
OC-SB-459-6.0/8.0-XXX MSD	360-24444-2 MSD	97	99	103
OC-SB-467-6.0/8.0-XXX MSD	360-24444-9 MSD	101	100	99

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

TC 4-6-10

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Water Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-EBK-007	360-24444-16	118	98	87
	MB 360-48826/6	106	96	89
	LCS 360-48826/3	99	104	101
	LCSD 360-48826/4	99	104	101

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

TC 4-6-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48716/2 Calibration Date: 09/09/2009 05:40

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44822.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3968		16.4	20.0	-17.8	30.0
Chloromethane	Ave	0.9034	0.8537	0.1000	20.3	20.0	-5.5	30.0
Vinyl chloride	Ave	0.6300	0.5680		19.2	20.0	-9.9	20.0
Bromomethane	Ave	0.3127	0.2944		19.7	20.0	-5.9	30.0
Chloroethane	Lin2		0.3289		20.4	20.0	1.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4374		16.9	20.0	-15.6	30.0
Ethyl ether	Ave	0.2603	0.2321		19.1	20.0	-10.8	30.0
1,1-Dichloroethene	Ave	0.3201	0.2772		18.0	20.0	-13.4	20.0
Carbon disulfide	Ave	1.395	1.137		16.3	20.0	-18.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1451		15.6	20.0	-21.9	30.0
Acrolein	Ave	0.7836	0.6819		870	1000	-13.0	30.0
Methylene Chloride	Lin1		0.3813		21.9	20.0	9.6	30.0
Acetone	Lin2		0.0530		203	200	1.4	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6386		18.1	20.0	-9.5	30.0
Methyl acetate	Lin1		0.1371		188	200	-5.8	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6381		18.3	20.0	-8.7	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3362		175	200	-12.3	30.0
Isopropyl ether	Ave	1.997	1.908		19.2	20.0	-4.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7484	0.1000	20.2	20.0	-5.5	30.0
Acrylonitrile	Lin1		0.0635		19.5	20.0	-2.4	30.0
Tert-butyl ethyl ether	Ave	1.194	1.146		19.2	20.0	-4.0	30.0
Vinyl acetate	Ave	0.5745	0.4986		174	200	-13.2	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5817		18.9	20.0	-5.4	30.0
2,2-Dichloropropane	Ave	0.5371	0.4284		18.1	20.0	-20.2	30.0
Cyclohexane	Ave	0.8898	0.7407		16.8	20.0	-16.8	30.0
Chlorobromomethane	Ave	0.1386	0.1276		18.4	20.0	-8.0	30.0
Chloroform	Ave	0.6243	0.5719		19.6	20.0	-8.4	20.0
Carbon tetrachloride	Ave	0.3645	0.3138		17.2	20.0	-13.9	30.0
Tetrahydrofuran	Ave	0.0762	0.0681		195	200	-10.6	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4646		17.8	20.0	-10.2	30.0
2-Butanone (MEK)	Ave	0.0960	0.0890		197	200	-7.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4388		17.6	20.0	-12.1	30.0
Benzene	Ave	1.352	1.281		19.0	20.0	-5.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7304		19.2	20.0	-4.2	30.0
1,2-Dichloroethane	Ave	0.3253	0.2953		18.2	20.0	-9.2	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3061		17.8	20.0	-19.6	30.0
Methylcyclohexane	Ave	0.6300	0.5322		17.0	20.0	-15.5	30.0
Trichloroethene	Ave	0.3155	0.2859		18.8	20.0	-9.4	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1506		16.1	20.0	-19.6	30.0
Dibromomethane	Ave	0.1188	0.1101		18.5	20.0	-7.3	30.0

4-6-10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48716/2 Calibration Date: 09/09/2009 05:40

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44822.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2963		21.1	20.0	-6.9	20.0
Dichlorobromomethane	Ave	0.3427	0.3140		18.2	20.0	-8.4	30.0
Methyl methacrylate	Ave	0.0864	0.0793		17.9	20.0	-8.3	30.0
1,4-Dioxane	Qua		0.0196		183	200	-8.7	30.0
2-Chloroethyl vinyl ether	Lin		0.0468		249	200	24.3	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3567		17.9	20.0	-10.3	30.0
Toluene	Ave	0.7062	0.6610		19.3	20.0	-6.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1916		188	200	-6.4	30.0
Tetrachloroethene	Ave	0.1859	0.1712		18.4	20.0	-7.9	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2550		17.5	20.0	-12.5	30.0
1,1,2-Trichloroethane	Lin1		0.1171		18.8	20.0	-6.2	30.0
Chlorodibromomethane	Ave	0.1504	0.1344		17.9	20.0	-10.6	30.0
1,3-Dichloropropane	Ave	0.2828	0.2553		18.1	20.0	-9.7	30.0
Ethylene Dibromide	Ave	0.1260	0.1137		18.0	20.0	-9.8	30.0
2-Hexanone	Ave	0.1294	0.1182		186	200	-8.7	30.0
Chlorobenzene	Ave	1.096	1.060	0.3000	19.5	20.0	-3.3	30.0
Ethylbenzene	Ave	2.279	2.177		20.4	20.0	-4.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3367		20.3	20.0	-3.1	30.0
m-Xylene & p-Xylene	Ave	1.752	1.689		38.6	40.0	-3.6	30.0
o-Xylene	Ave	1.903	1.851		19.5	20.0	-2.8	30.0
Styrene	Ave	1.294	1.266		19.6	20.0	-2.2	30.0
Bromoform	Ave	0.3131	0.2712	0.1000	16.5	20.0	-13.4	20.0
Isopropylbenzene	Ave	2.255	2.236		19.9	20.0	-0.9	30.0
Bromobenzene	Ave	1.024	0.9786		19.2	20.0	-4.4	30.0
N-Propylbenzene	Ave	2.901	2.806		19.3	20.0	-3.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6320	0.3000	18.3	20.0	-7.7	30.0
2-Chlorotoluene	Ave	1.927	1.857		19.4	20.0	-3.7	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.851		20.0	20.0	0.0	30.0
1,2,3-Trichloropropane	Lin2		0.0650		20.9	20.0	4.7	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1020		19.2	20.0	-4.1	30.0
4-Chlorotoluene	Ave	1.683	1.639		19.4	20.0	-2.6	30.0
tert-Butylbenzene	Ave	1.471	1.509		20.5	20.0	2.6	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.843		19.6	20.0	-1.7	30.0
sec-Butylbenzene	Ave	2.518	2.464		19.6	20.0	-2.1	30.0
4-Isopropyltoluene	Ave	1.894	1.844		19.4	20.0	-2.6	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.8112		19.3	20.0	-3.6	30.0
1,4-Dichlorobenzene	Ave	1.788	1.697		19.0	20.0	-5.1	30.0
n-Butylbenzene	Ave	4.614	4.261		18.5	20.0	-7.6	30.0
1,2-Dichlorobenzene	Ave	1.492	1.417		19.0	20.0	-5.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0680		17.7	20.0	-11.7	30.0
Hexachlorobutadiene	Ave	0.5170	0.4567		17.7	20.0	-11.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48716/2 Calibration Date: 09/09/2009 05:40

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44822.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.8953		18.4	20.0	-8.2	30.0
Naphthalene	Ave	1.288	1.190		18.5	20.0	-7.6	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6825		18.9	20.0	-5.4	30.0
Dibromofluoromethane	Ave	0.2328	0.2282		19.6	20.0	-2.0	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8788		19.8	20.0	-1.1	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5822		20.3	20.0	1.6	30.0

4-6-10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48767/2 Calibration Date: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44837.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4534		18.8	20.0	-6.1	30.0
Chloromethane	Ave	0.9034	0.7851	0.1000	18.6	20.0	-13.1	30.0
Vinyl chloride	Ave	0.6300	0.5356		18.1	20.0	-15.0	20.0
Bromomethane	Ave	0.3127	0.2857		19.2	20.0	-8.6	30.0
Chloroethane	Lin2		0.3023		18.6	20.0	-7.1	30.0
Trichlorofluoromethane	Ave	0.5183	0.4732		18.3	20.0	-8.7	30.0
Ethyl ether	Ave	0.2603	0.2240		18.4	20.0	-14.0	30.0
1,1-Dichloroethene	Ave	0.3201	0.2793		18.1	20.0	-12.7	20.0
Carbon disulfide	Ave	1.395	1.077		15.5	20.0	-22.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1631		17.6	20.0	-12.2	30.0
Acrolein	Ave	0.7836	0.6624		845	1000	-15.5	30.0
Methylene Chloride	Lin1		0.3658		21.0	20.0	4.9	30.0
Acetone	Lin2		0.0531		203	200	1.5	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.5911		16.8	20.0	-16.3	30.0
Methyl acetate	Lin1		0.1351		186	200	-7.2	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6190		17.7	20.0	-11.5	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2764		144	200	-27.9	30.0
Isopropyl ether	Ave	1.997	1.745		17.5	20.0	-12.6	30.0
1,1-Dichloroethane	Ave	0.7919	0.6728	0.1000	18.1	20.0	-15.0	30.0
Acrylonitrile	Lin1		0.0640		19.7	20.0	-1.5	30.0
Tert-butyl ethyl ether	Ave	1.194	1.077		18.1	20.0	-9.7	30.0
Vinyl acetate	Ave	0.5745	0.5579		194	200	-2.9	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5333		17.3	20.0	-13.3	30.0
2,2-Dichloropropane	Ave	0.5371	0.4317		18.2	20.0	-19.6	30.0
Cyclohexane	Ave	0.8898	0.7871		17.8	20.0	-11.5	30.0
Chlorobromomethane	Ave	0.1386	0.1279		18.5	20.0	-7.7	30.0
Chloroform	Ave	0.6243	0.5344		18.3	20.0	-14.4	20.0
Carbon tetrachloride	Ave	0.3645	0.3201		17.5	20.0	-12.2	30.0
Tetrahydrofuran	Ave	0.0762	0.0704		202	200	-7.5	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4470		17.1	20.0	-13.6	30.0
2-Butanone (MEK)	Ave	0.0960	0.0883		195	200	-8.0	30.0
1,1-Dichloropropene	Ave	0.4990	0.4343		17.4	20.0	-13.0	30.0
Benzene	Ave	1.352	1.227		18.2	20.0	-9.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7178		18.8	20.0	-5.8	30.0
1,2-Dichloroethane	Ave	0.3253	0.3022		18.6	20.0	-7.1	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3166		18.4	20.0	-16.8	30.0
Methylcyclohexane	Ave	0.6300	0.5726		18.3	20.0	-9.1	30.0
Trichloroethene	Ave	0.3155	0.2813		18.5	20.0	-10.8	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1688		18.0	20.0	-9.9	30.0
Dibromomethane	Ave	0.1188	0.1148		19.2	20.0	-3.3	30.0

4-6-10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48767/2 Calibration Date: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44837.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2825		20.1	20.0	-11.2	20.0
Dichlorobromomethane	Ave	0.3427	0.3197		18.5	20.0	-6.7	30.0
Methyl methacrylate	Ave	0.0864	0.0847		19.2	20.0	-1.9	30.0
1,4-Dioxane	Qua		0.0180		167	200	-16.3	30.0
2-Chloroethyl vinyl ether	Lin		0.0630		329	200	64.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3861		19.4	20.0	-2.9	30.0
Toluene	Ave	0.7062	0.6559		19.1	20.0	-7.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1942		190	200	-5.2	30.0
Tetrachloroethene	Ave	0.1859	0.1834		19.7	20.0	-1.3	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2845		19.6	20.0	-2.4	30.0
1,1,2-Trichloroethane	Lin1		0.1193		19.1	20.0	-4.4	30.0
Chlorodibromomethane	Ave	0.1504	0.1453		19.3	20.0	-3.4	30.0
1,3-Dichloropropane	Ave	0.2828	0.2702		19.1	20.0	-4.5	30.0
Ethylene Dibromide	Ave	0.1260	0.1241		19.7	20.0	-1.5	30.0
2-Hexanone	Ave	0.1294	0.1192		187	200	-7.9	30.0
Chlorobenzene	Ave	1.096	0.9938	0.3000	18.3	20.0	-9.3	30.0
Ethylbenzene	Ave	2.279	1.995		18.7	20.0	-12.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3102		18.7	20.0	-10.7	30.0
m-Xylene & p-Xylene	Ave	1.752	1.542		35.2	40.0	-12.0	30.0
o-Xylene	Ave	1.903	1.665		17.5	20.0	-12.5	30.0
Styrene	Ave	1.294	1.118		17.3	20.0	-13.6	30.0
Bromoform	Ave	0.3131	0.2872	0.1000	17.4	20.0	-8.3	20.0
Isopropylbenzene	Ave	2.255	1.984		17.6	20.0	-12.0	30.0
Bromobenzene	Ave	1.024	0.8478		16.6	20.0	-17.2	30.0
N-Propylbenzene	Ave	2.901	2.469		17.0	20.0	-14.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5898	0.3000	17.1	20.0	-13.9	30.0
2-Chlorotoluene	Ave	1.927	1.612		16.8	20.0	-16.4	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.588		17.2	20.0	-14.2	30.0
1,2,3-Trichloropropane	Lin2		0.0588		18.9	20.0	-5.5	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1004		18.9	20.0	-5.6	30.0
4-Chlorotoluene	Ave	1.683	1.413		16.7	20.0	-16.1	30.0
tert-Butylbenzene	Ave	1.471	1.301		17.7	20.0	-11.5	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.606		17.1	20.0	-14.3	30.0
sec-Butylbenzene	Ave	2.518	2.197		17.5	20.0	-12.7	30.0
4-Isopropyltoluene	Ave	1.894	1.664		17.5	20.0	-12.1	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7186		17.1	20.0	-14.6	30.0
1,4-Dichlorobenzene	Ave	1.788	1.561		17.5	20.0	-12.7	30.0
n-Butylbenzene	Ave	4.614	4.044		17.5	20.0	-12.4	30.0
1,2-Dichlorobenzene	Ave	1.492	1.326		17.8	20.0	-11.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0688		17.9	20.0	-10.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4606		17.8	20.0	-10.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48767/2 Calibration Date: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44837.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.8755		18.0	20.0	-10.2	30.0
Naphthalene	Ave	1.288	1.186		18.4	20.0	-7.9	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6741		18.7	20.0	-6.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2302		19.8	20.0	-1.1	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9013		20.3	20.0	1.5	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5256		18.3	20.0	-8.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48773/2 Calibration Date: 09/09/2009 22:17

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44851.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4446		18.4	20.0	-7.9	30.0
Chloromethane	Ave	0.9034	0.9006	0.1000	21.5	20.0	-0.3	30.0
Vinyl chloride	Ave	0.6300	0.6114		20.8	20.0	-3.0	20.0
Bromomethane	Ave	0.3127	0.3263		21.9	20.0	4.3	30.0
Chloroethane	Lin2		0.3526		21.9	20.0	9.7	30.0
Trichlorofluoromethane	Ave	0.5183	0.4994		19.3	20.0	-3.7	30.0
Ethyl ether	Ave	0.2603	0.2358		19.4	20.0	-9.4	30.0
1,1-Dichloroethene	Ave	0.3201	0.2941		19.1	20.0	-8.1	20.0
Carbon disulfide	Ave	1.395	1.192		17.1	20.0	-14.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1641		17.7	20.0	-11.7	30.0
Acrolein	Ave	0.7836	0.8187		1040	1000	4.5	30.0
Methylene Chloride	Lin1		0.3584		20.5	20.0	2.7	30.0
Acetone	Lin2		0.0514		196	200	-1.9	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6599		18.7	20.0	-6.5	30.0
Methyl acetate	Lin1		0.1433		197	200	-1.5	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6392		18.3	20.0	-8.6	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3333		174	200	-13.1	30.0
Isopropyl ether	Ave	1.997	1.907		19.2	20.0	-4.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7613	0.1000	20.5	20.0	-3.9	30.0
Acrylonitrile	Lin1		0.0612		18.8	20.0	-6.1	30.0
Tert-butyl ethyl ether	Ave	1.194	1.143		19.1	20.0	-4.3	30.0
Vinyl acetate	Ave	0.5745	0.5840		203	200	1.7	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5893		19.2	20.0	-4.1	30.0
2,2-Dichloropropane	Ave	0.5371	0.4629		19.7	20.0	-13.8	30.0
Cyclohexane	Ave	0.8898	0.7545		17.1	20.0	-15.2	30.0
Chlorobromomethane	Ave	0.1386	0.1344		19.4	20.0	-3.1	30.0
Chloroform	Ave	0.6243	0.5816		19.9	20.0	-6.8	20.0
Carbon tetrachloride	Ave	0.3645	0.3363		18.4	20.0	-7.7	30.0
Tetrahydrofuran	Ave	0.0762	0.0687		196	200	-9.8	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4911		18.8	20.0	-5.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0932		206	200	-3.0	30.0
1,1-Dichloropropene	Ave	0.4990	0.4658		18.7	20.0	-6.6	30.0
Benzene	Ave	1.352	1.335		19.8	20.0	-1.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7374		19.4	20.0	-3.2	30.0
1,2-Dichloroethane	Ave	0.3253	0.3118		19.2	20.0	-4.1	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3264		19.0	20.0	-14.2	30.0
Methylcyclohexane	Ave	0.6300	0.5462		17.4	20.0	-13.3	30.0
Trichloroethene	Ave	0.3155	0.3094		20.4	20.0	-1.9	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1695		18.1	20.0	-9.5	30.0
Dibromomethane	Ave	0.1188	0.1152		19.3	20.0	-3.0	30.0

4-6-10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48773/2 Calibration Date: 09/09/2009 22:17

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44851.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3085		21.9	20.0	-3.0	20.0
Dichlorobromomethane	Ave	0.3427	0.3262		18.9	20.0	-4.8	30.0
Methyl methacrylate	Ave	0.0864	0.0813		18.4	20.0	-5.9	30.0
1,4-Dioxane	Qua		0.0220		205	200	2.6	30.0
2-Chloroethyl vinyl ether	Lin		0.0713		370	200	84.8*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3822		19.2	20.0	-3.9	30.0
Toluene	Ave	0.7062	0.7076		20.6	20.0	0.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.2068		202	200	1.0	30.0
Tetrachloroethene	Ave	0.1859	0.1898		20.4	20.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2747		18.9	20.0	-5.7	30.0
1,1,2-Trichloroethane	Lin1		0.1201		19.2	20.0	-3.9	30.0
Chlorodibromomethane	Ave	0.1504	0.1418		18.9	20.0	-5.7	30.0
1,3-Dichloropropane	Ave	0.2828	0.2659		18.8	20.0	-6.0	30.0
Ethylene Dibromide	Ave	0.1260	0.1208		19.2	20.0	-4.1	30.0
2-Hexanone	Ave	0.1294	0.1252		197	200	-3.2	30.0
Chlorobenzene	Ave	1.096	1.119	0.3000	20.6	20.0	2.1	30.0
Ethylbenzene	Ave	2.279	2.244		21.1	20.0	-1.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3439		20.8	20.0	-1.0	30.0
m-Xylene & p-Xylene	Ave	1.752	1.736		39.7	40.0	-0.9	30.0
o-Xylene	Ave	1.903	1.892		19.9	20.0	-0.6	30.0
Styrene	Ave	1.294	1.301		20.2	20.0	0.6	30.0
Bromoform	Ave	0.3131	0.2837	0.1000	17.2	20.0	-9.4	20.0
Isopropylbenzene	Ave	2.255	2.294		20.4	20.0	1.7	30.0
Bromobenzene	Ave	1.024	0.9645		18.9	20.0	-5.8	30.0
N-Propylbenzene	Ave	2.901	2.829		19.5	20.0	-2.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6440	0.3000	18.7	20.0	-6.0	30.0
2-Chlorotoluene	Ave	1.927	1.869		19.5	20.0	-3.0	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.884		20.4	20.0	1.8	30.0
1,2,3-Trichloropropane	Lin2		0.0625		20.1	20.0	0.6	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0984		18.5	20.0	-7.6	30.0
4-Chlorotoluene	Ave	1.683	1.617		19.1	20.0	-3.9	30.0
tert-Butylbenzene	Ave	1.471	1.520		20.6	20.0	3.3	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.865		19.8	20.0	-0.5	30.0
sec-Butylbenzene	Ave	2.518	2.519		20.0	20.0	0.0	30.0
4-Isopropyltoluene	Ave	1.894	1.918		20.2	20.0	1.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.8248		19.6	20.0	-2.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.780		20.0	20.0	-0.5	30.0
n-Butylbenzene	Ave	4.614	4.525		19.6	20.0	-1.9	30.0
1,2-Dichlorobenzene	Ave	1.492	1.478		19.8	20.0	-0.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0681		17.7	20.0	-11.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4980		19.3	20.0	-3.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48773/2 Calibration Date: 09/09/2009 22:17

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44851.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9266		19.0	20.0	-5.0	30.0
Naphthalene	Ave	1.288	1.213		18.8	20.0	-5.8	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7018		19.5	20.0	-2.7	30.0
Dibromofluoromethane	Ave	0.2328	0.2301		19.8	20.0	-1.2	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8936		20.1	20.0	0.6	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5547		19.4	20.0	-3.2	30.0

4/6/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48816/2 Calibration Date: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44875.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2305		9.55	20.0	-52.2*	30.0
Chloromethane	Ave	0.9034	0.8553	0.1000	20.4	20.0	-5.3	30.0
Vinyl chloride	Ave	0.6300	0.5760		19.5	20.0	-8.6	20.0
Bromomethane	Ave	0.3127	0.3131		21.0	20.0	0.1	30.0
Chloroethane	Lin2		0.3289		20.4	20.0	1.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4684		18.1	20.0	-9.6	30.0
Ethyl ether	Ave	0.2603	0.2216		18.2	20.0	-14.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.2846		18.5	20.0	-11.1	20.0
Carbon disulfide	Ave	1.395	1.143		16.4	20.0	-18.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1542		16.6	20.0	-17.0	30.0
Acrolein	Ave	0.7836	0.7345		937	1000	-6.3	30.0
Methylene Chloride	Lin1		0.3470		19.9	20.0	-0.7	30.0
Acetone	Lin2		0.0556		213	200	6.3	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6346		18.0	20.0	-10.1	30.0
Methyl acetate	Lin1		0.2270		312	200	55.9*	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6083		17.4	20.0	-13.0	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3073		160	200	-19.9	30.0
Isopropyl ether	Ave	1.997	1.816		18.3	20.0	-9.1	30.0
1,1-Dichloroethane	Ave	0.7919	0.7324	0.1000	19.7	20.0	-7.5	30.0
Acrylonitrile	Lin1		0.0612		18.8	20.0	-6.2	30.0
Tert-butyl ethyl ether	Ave	1.194	1.097		18.4	20.0	-8.1	30.0
Vinyl acetate	Ave	0.5745	0.5475		191	200	-4.7	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5642		18.3	20.0	-8.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.5024		21.6	20.0	-6.5	30.0
Chlorobromomethane	Ave	0.1386	0.1282		18.5	20.0	-7.5	30.0
Cyclohexane	Ave	0.8898	0.7283		16.5	20.0	-18.2	30.0
Chloroform	Ave	0.6243	0.5702		19.5	20.0	-8.7	20.0
Carbon tetrachloride	Ave	0.3645	0.3404		18.6	20.0	-6.6	30.0
Tetrahydrofuran	Ave	0.0762	0.0669		191	200	-12.1	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4772		18.3	20.0	-7.7	30.0
2-Butanone (MEK)	Ave	0.0960	0.0916		203	200	-4.6	30.0
1,1-Dichloropropene	Ave	0.4990	0.4616		18.5	20.0	-7.5	30.0
Benzene	Ave	1.352	1.293		19.1	20.0	-4.3	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7189		18.9	20.0	-5.7	30.0
1,2-Dichloroethane	Ave	0.3253	0.2977		18.3	20.0	-8.5	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3139		18.3	20.0	-17.5	30.0
Methylcyclohexane	Ave	0.6300	0.5197		16.6	20.0	-17.5	30.0
Trichloroethene	Ave	0.3155	0.3014		19.9	20.0	-4.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1607		17.2	20.0	-14.2	30.0
Dibromomethane	Ave	0.1188	0.1126		18.9	20.0	-5.2	30.0

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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48816/2 Calibration Date: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44875.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2986		21.2	20.0	-6.2	20.0
Dichlorobromomethane	Ave	0.3427	0.3249		18.8	20.0	-5.2	30.0
Methyl methacrylate	Ave	0.0864	0.0835		18.9	20.0	-3.3	30.0
1,4-Dioxane	Qua		0.0222		207	200	3.3	30.0
2-Chloroethyl vinyl ether	Lin		0.0748		387	200	93.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3909		19.7	20.0	-1.7	30.0
Toluene	Ave	0.7062	0.7026		20.5	20.0	-0.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1946		190	200	-5.0	30.0
Tetrachloroethene	Ave	0.1859	0.1936		20.8	20.0	4.1	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2861		19.7	20.0	-1.8	30.0
1,1,2-Trichloroethane	Lin1		0.1203		19.3	20.0	-3.7	30.0
Chlorodibromomethane	Ave	0.1504	0.1470		19.5	20.0	-2.3	30.0
1,3-Dichloropropane	Ave	0.2828	0.2753		19.5	20.0	-2.7	30.0
Ethylene Dibromide	Ave	0.1260	0.1235		19.6	20.0	-2.0	30.0
2-Hexanone	Ave	0.1294	0.1280		201	200	-1.1	30.0
Chlorobenzene	Ave	1.096	1.105	0.3000	20.3	20.0	0.8	30.0
Ethylbenzene	Ave	2.279	2.210		20.7	20.0	-3.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3324		20.1	20.0	-4.4	30.0
m-Xylene & p-Xylene	Ave	1.752	1.712		39.1	40.0	-2.3	30.0
o-Xylene	Ave	1.903	1.814		19.1	20.0	-4.7	30.0
Styrene	Ave	1.294	1.256		19.5	20.0	-2.9	30.0
Bromoform	Ave	0.3131	0.2942	0.1000	17.8	20.0	-6.1	20.0
Isopropylbenzene	Ave	2.255	2.238		19.9	20.0	-0.8	30.0
Bromobenzene	Ave	1.024	0.9299		18.2	20.0	-9.2	30.0
N-Propylbenzene	Ave	2.901	2.810		19.4	20.0	-3.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6107	0.3000	17.7	20.0	-10.8	30.0
2-Chlorotoluene	Ave	1.927	1.809		18.9	20.0	-6.1	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.810		19.6	20.0	-2.2	30.0
1,2,3-Trichloropropane	Lin2		0.0596		19.2	20.0	-4.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1012		19.0	20.0	-4.8	30.0
4-Chlorotoluene	Ave	1.683	1.598		18.9	20.0	-5.0	30.0
tert-Butylbenzene	Ave	1.471	1.461		19.8	20.0	-0.7	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.782		18.9	20.0	-4.9	30.0
sec-Butylbenzene	Ave	2.518	2.464		19.6	20.0	-2.1	30.0
4-Isopropyltoluene	Ave	1.894	1.871		19.7	20.0	-1.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7909		18.8	20.0	-6.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.716		19.3	20.0	-4.0	30.0
n-Butylbenzene	Ave	4.614	4.495		19.5	20.0	-2.6	30.0
1,2-Dichlorobenzene	Ave	1.492	1.412		18.9	20.0	-5.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0689		17.9	20.0	-10.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4859		18.8	20.0	-6.0	30.0

4/6/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48816/2 Calibration Date: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44875.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9230		18.9	20.0	-5.4	30.0
Naphthalene	Ave	1.288	1.172		18.2	20.0	-9.1	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7030		19.5	20.0	-2.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2261		19.4	20.0	-2.9	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9122		20.5	20.0	2.7	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5450		19.0	20.0	-4.9	30.0

4/6/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48819/2 Calibration Date: 09/10/2009 23:39

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44894.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.1956		8.11	20.0	-59.5*	30.0
Chloromethane	Ave	0.9034	0.7632	0.1000	18.1	20.0	-15.5	30.0
Vinyl chloride	Ave	0.6300	0.5181		17.4	20.0	-17.8	20.0
Bromomethane	Ave	0.3127	0.2716		18.2	20.0	-13.2	30.0
Chloroethane	Lin2		0.3013		18.5	20.0	-7.5	30.0
Trichlorofluoromethane	Ave	0.5183	0.3854		14.9	20.0	-25.6	30.0
Ethyl ether	Ave	0.2603	0.2267		18.6	20.0	-12.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.2600		16.8	20.0	-18.8	20.0
Carbon disulfide	Ave	1.395	1.051		15.1	20.0	-24.7	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1292		13.9	20.0	-30.4*	30.0
Acrolein	Ave	0.7836	0.7336		936	1000	-6.4	30.0
Methylene Chloride	Lin1		0.3435		19.6	20.0	-1.8	30.0
Acetone	Lin2		0.0545		208	200	4.1	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.5998		17.0	20.0	-15.0	30.0
Methyl acetate	Lin1		0.2344		322	200	61.1*	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6190		17.7	20.0	-11.5	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3416		178	200	-10.9	30.0
Isopropyl ether	Ave	1.997	1.798		18.1	20.0	-10.0	30.0
1,1-Dichloroethane	Ave	0.7919	0.6977	0.1000	18.8	20.0	-11.9	30.0
Acrylonitrile	Lin1		0.0629		19.3	20.0	-3.3	30.0
Tert-butyl ethyl ether	Ave	1.194	1.095		18.3	20.0	-8.3	30.0
Vinyl acetate	Ave	0.5745	0.5211		181	200	-9.3	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5438		17.7	20.0	-11.5	30.0
2,2-Dichloropropane	Ave	0.5371	0.4181		17.6	20.0	-22.2	30.0
Cyclohexane	Ave	0.8898	0.6445		14.6	20.0	-27.6	30.0
Chlorobromomethane	Ave	0.1386	0.1286		18.5	20.0	-7.3	30.0
Chloroform	Ave	0.6243	0.5482		18.8	20.0	-12.2	20.0
Carbon tetrachloride	Ave	0.3645	0.3016		16.5	20.0	-17.3	30.0
Tetrahydrofuran	Ave	0.0762	0.0707		202	200	-7.2	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4381		16.8	20.0	-15.3	30.0
2-Butanone (MEK)	Ave	0.0960	0.0863		191	200	-10.2	30.0
1,1-Dichloropropene	Ave	0.4990	0.4186		16.8	20.0	-16.1	30.0
Benzene	Ave	1.352	1.243		18.4	20.0	-8.0	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7146		18.8	20.0	-6.2	30.0
1,2-Dichloroethane	Ave	0.3253	0.2898		17.8	20.0	-10.9	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.2555		14.5	20.0	-32.9*	30.0
Methylcyclohexane	Ave	0.6300	0.4555		14.5	20.0	-27.7	30.0
Trichloroethene	Ave	0.3155	0.2843		18.7	20.0	-9.9	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1344		14.4	20.0	-28.2	30.0
Dibromomethane	Ave	0.1188	0.1112		18.6	20.0	-6.4	30.0

4-6-10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48819/2 Calibration Date: 09/10/2009 23:39

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44894.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2887		20.5	20.0	-9.3	20.0
Dichlorobromomethane	Ave	0.3427	0.3176		18.4	20.0	-7.3	30.0
Methyl methacrylate	Ave	0.0864	0.0813		18.4	20.0	-5.9	30.0
1,4-Dioxane	Qua		0.0189		175	200	-12.3	30.0
2-Chloroethyl vinyl ether	Lin		0.0723		375	200	87.3*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3727		18.8	20.0	-6.2	30.0
Toluene	Ave	0.7062	0.6598		19.2	20.0	-6.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1975		193	200	-3.6	30.0
Tetrachloroethene	Ave	0.1859	0.1766		19.0	20.0	-5.0	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2712		18.7	20.0	-6.9	30.0
1,1,2-Trichloroethane	Lin1		0.1190		19.1	20.0	-4.7	30.0
Chlorodibromomethane	Ave	0.1504	0.1401		18.6	20.0	-6.9	30.0
1,3-Dichloropropane	Ave	0.2828	0.2649		18.7	20.0	-6.3	30.0
Ethylene Dibromide	Ave	0.1260	0.1228		19.5	20.0	-2.5	30.0
2-Hexanone	Ave	0.1294	0.1201		189	200	-7.2	30.0
Chlorobenzene	Ave	1.096	1.039	0.3000	19.1	20.0	-5.2	30.0
Ethylbenzene	Ave	2.279	2.058		19.3	20.0	-9.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3153		19.0	20.0	-9.3	30.0
m-Xylene & p-Xylene	Ave	1.752	1.582		36.2	40.0	-9.7	30.0
o-Xylene	Ave	1.903	1.713		18.1	20.0	-10.0	30.0
Styrene	Ave	1.294	1.187		18.4	20.0	-8.3	30.0
Bromoform	Ave	0.3131	0.2811	0.1000	17.1	20.0	-10.2	20.0
Isopropylbenzene	Ave	2.255	2.051		18.2	20.0	-9.1	30.0
Bromobenzene	Ave	1.024	0.8847		17.4	20.0	-13.6	30.0
N-Propylbenzene	Ave	2.901	2.571		17.7	20.0	-11.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6269	0.3000	18.2	20.0	-8.4	30.0
2-Chlorotoluene	Ave	1.927	1.698		17.7	20.0	-11.9	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.694		18.3	20.0	-8.5	30.0
1,2,3-Trichloropropane	Lin2		0.0600		19.3	20.0	-3.4	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0936		17.6	20.0	-12.2	30.0
4-Chlorotoluene	Ave	1.683	1.482		17.5	20.0	-12.0	30.0
tert-Butylbenzene	Ave	1.471	1.368		18.6	20.0	-7.0	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.700		18.1	20.0	-9.3	30.0
sec-Butylbenzene	Ave	2.518	2.233		17.7	20.0	-11.3	30.0
4-Isopropyltoluene	Ave	1.894	1.704		17.9	20.0	-10.0	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7529		17.9	20.0	-10.5	30.0
1,4-Dichlorobenzene	Ave	1.788	1.671		18.8	20.0	-6.5	30.0
n-Butylbenzene	Ave	4.614	4.102		17.8	20.0	-11.1	30.0
1,2-Dichlorobenzene	Ave	1.492	1.406		18.9	20.0	-5.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0708		18.4	20.0	-8.0	30.0
Hexachlorobutadiene	Ave	0.5170	0.4408		17.1	20.0	-14.7	30.0

4-6-10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48819/2 Calibration Date: 09/10/2009 23:39

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44894.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9000		18.5	20.0	-7.7	30.0
Naphthalene	Ave	1.288	1.194		18.5	20.0	-7.3	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6744		18.7	20.0	-6.5	30.0
Dibromofluoromethane	Ave	0.2328	0.2270		19.5	20.0	-2.5	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8956		20.2	20.0	0.8	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5359		18.7	20.0	-6.5	30.0

TC 4/6/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3807		15.8	20.0	-21.1	30.0
Chloromethane	Ave	0.9034	0.7000	0.1000	16.5	20.0	-22.5	30.0
Vinyl chloride	Ave	0.6300	0.4878		16.4	20.0	-22.6*	20.0
Bromomethane	Ave	0.3127	0.2577		17.3	20.0	-17.6	30.0
Chloroethane	Lin2		0.2777		16.9	20.0	-15.4	30.0
Trichlorofluoromethane	Ave	0.5183	0.4067		15.7	20.0	-21.5	30.0
Ethyl ether	Ave	0.2603	0.2193		18.0	20.0	-15.7	30.0
1,1-Dichloroethene	Ave	0.3201	0.2699		17.5	20.0	-15.7	20.0
Carbon disulfide	Ave	1.395	1.145		16.4	20.0	-18.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1556		16.8	20.0	-16.2	30.0
Acrolein	Ave	0.7836	0.6865		876	1000	-12.4	30.0
Methylene Chloride	Lin1		0.3167		18.0	20.0	-9.9	30.0
Acetone	Lin2		0.0593		227	200	13.5	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.5751		16.3	20.0	-18.5	30.0
Methyl acetate	Lin1		0.1613		222	200	10.8	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6100		17.4	20.0	-12.8	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2993		156	200	-21.9	30.0
Isopropyl ether	Ave	1.997	1.736		17.5	20.0	-13.1	30.0
1,1-Dichloroethane	Ave	0.7919	0.6546	0.1000	17.6	20.0	-17.3	30.0
Acrylonitrile	Lin1		0.0634		19.5	20.0	-2.6	30.0
Tert-butyl ethyl ether	Ave	1.194	1.057		17.7	20.0	-11.4	30.0
Vinyl acetate	Ave	0.5745	0.5212		181	200	-9.3	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5153		16.8	20.0	-16.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.4491		19.1	20.0	-16.4	30.0
Cyclohexane	Ave	0.8898	0.7159		16.2	20.0	-19.5	30.0
Chlorobromomethane	Ave	0.1386	0.1200		17.3	20.0	-13.4	30.0
Chloroform	Ave	0.6243	0.5025		17.2	20.0	-19.5	20.0
Carbon tetrachloride	Ave	0.3645	0.3163		17.3	20.0	-13.2	30.0
Tetrahydrofuran	Ave	0.0762	0.0687		197	200	-9.8	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4317		16.5	20.0	-16.5	30.0
2-Butanone (MEK)	Ave	0.0960	0.0919		203	200	-4.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4149		16.6	20.0	-16.8	30.0
Benzene	Ave	1.352	1.159		17.2	20.0	-14.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6945		18.2	20.0	-8.9	30.0
1,2-Dichloroethane	Ave	0.3253	0.2832		17.4	20.0	-13.0	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3159		18.4	20.0	-17.0	30.0
Methylcyclohexane	Ave	0.6300	0.5238		16.7	20.0	-16.9	30.0
Trichloroethene	Ave	0.3155	0.2655		17.5	20.0	-15.8	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1641		17.5	20.0	-12.3	30.0
Dibromomethane	Ave	0.1188	0.1047		17.5	20.0	-11.9	30.0

4-6-10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2688		19.1	20.0	-15.5	20.0
Dichlorobromomethane	Ave	0.3427	0.2893		16.8	20.0	-15.6	30.0
Methyl methacrylate	Ave	0.0864	0.0766		17.4	20.0	-11.3	30.0
1,4-Dioxane	Qua		0.0193		179	200	-10.5	30.0
2-Chloroethyl vinyl ether	Lin		0.0582		305	200	52.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3425		17.2	20.0	-13.8	30.0
Toluene	Ave	0.7062	0.6062		17.7	20.0	-14.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1893		185	200	-7.6	30.0
Tetrachloroethene	Ave	0.1859	0.1648		17.7	20.0	-11.3	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2551		17.5	20.0	-12.4	30.0
1,1,2-Trichloroethane	Lin1		0.1117		17.9	20.0	-10.4	30.0
Chlorodibromomethane	Ave	0.1504	0.1330		17.7	20.0	-11.6	30.0
1,3-Dichloropropane	Ave	0.2828	0.2486		17.6	20.0	-12.1	30.0
Ethylene Dibromide	Ave	0.1260	0.1121		17.8	20.0	-11.0	30.0
2-Hexanone	Ave	0.1294	0.1199		188	200	-7.3	30.0
Chlorobenzene	Ave	1.096	0.9706	0.3000	17.8	20.0	-11.4	30.0
Ethylbenzene	Ave	2.279	1.964		18.4	20.0	-13.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3074		18.5	20.0	-11.5	30.0
m-Xylene & p-Xylene	Ave	1.752	1.527		34.9	40.0	-12.9	30.0
o-Xylene	Ave	1.903	1.666		17.6	20.0	-12.5	30.0
Styrene	Ave	1.294	1.155		17.9	20.0	-10.8	30.0
Bromoform	Ave	0.3131	0.2788	0.1000	16.9	20.0	-11.0	20.0
Isopropylbenzene	Ave	2.255	2.019		17.9	20.0	-10.5	30.0
Bromobenzene	Ave	1.024	0.8796		17.3	20.0	-14.1	30.0
N-Propylbenzene	Ave	2.901	2.544		17.5	20.0	-12.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5992	0.3000	17.4	20.0	-12.5	30.0
2-Chlorotoluene	Ave	1.927	1.665		17.4	20.0	-13.6	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.671		18.1	20.0	-9.7	30.0
1,2,3-Trichloropropane	Lin2		0.0610		19.6	20.0	-1.9	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0982		18.5	20.0	-7.7	30.0
4-Chlorotoluene	Ave	1.683	1.457		17.2	20.0	-13.4	30.0
tert-Butylbenzene	Ave	1.471	1.348		18.3	20.0	-8.4	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.660		17.6	20.0	-11.4	30.0
sec-Butylbenzene	Ave	2.518	2.276		18.1	20.0	-9.6	30.0
4-Isopropyltoluene	Ave	1.894	1.716		18.1	20.0	-9.4	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7388		17.5	20.0	-12.2	30.0
1,4-Dichlorobenzene	Ave	1.788	1.553		17.4	20.0	-13.2	30.0
n-Butylbenzene	Ave	4.614	4.077		17.7	20.0	-11.6	30.0
1,2-Dichlorobenzene	Ave	1.492	1.313		17.6	20.0	-12.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0673		17.5	20.0	-12.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4388		17.0	20.0	-15.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.8609		17.7	20.0	-11.7	30.0
Naphthalene	Ave	1.288	1.128		17.5	20.0	-12.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6515		18.1	20.0	-9.7	30.0
Dibromofluoromethane	Ave	0.2328	0.2313		19.9	20.0	-0.7	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8911		20.1	20.0	0.3	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5556		19.4	20.0	-3.1	30.0

4-6-10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield | Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-49101/2 | Calibration Date: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS | Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) | Calib End Date: 09/08/2009 18:49

Lab File ID: V45087.D | Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.5319		22.0	20.0	10.2	30.0
Chloromethane	Ave	0.9034	0.9171	0.1000	21.9	20.0	1.5	30.0
Vinyl chloride	Ave	0.6300	0.6456		22.0	20.0	2.5	20.0
Bromomethane	Ave	0.3127	0.3214		21.6	20.0	2.8	30.0
Chloroethane	Lin2		0.3487		21.7	20.0	8.4	30.0
Trichlorofluoromethane	Ave	0.5183	0.5402		20.8	20.0	4.2	30.0
Ethyl ether	Ave	0.2603	0.2267		18.6	20.0	-12.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.3338		21.8	20.0	4.3	20.0
Carbon disulfide	Ave	1.395	1.391		20.0	20.0	-0.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1900		20.5	20.0	2.3	30.0
Acrolein	Ave	0.7836	0.7499		957	1000	-4.3	30.0
Methylene Chloride	Lin1		0.3527		20.2	20.0	1.0	30.0
Acetone	Lin2		0.0662		254	200	27.2	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6911		19.6	20.0	-2.1	30.0
Methyl acetate	Lin1		0.1403		193	200	-3.6	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6047		17.3	20.0	-13.5	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3363		175	200	-12.3	30.0
Isopropyl ether	Ave	1.997	1.901		19.1	20.0	-4.8	30.0
1,1-Dichloroethane	Ave	0.7919	0.7669	0.1000	20.7	20.0	-3.2	30.0
Acrylonitrile	Lin1		0.0615		18.9	20.0	-5.6	30.0
Tert-butyl ethyl ether	Ave	1.194	1.103		18.5	20.0	-7.6	30.0
Vinyl acetate	Ave	0.5745	0.4466		155	200	-22.3	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5846		19.0	20.0	-4.9	30.0
2,2-Dichloropropane	Ave	0.5371	0.5519		23.9	20.0	2.7	30.0
Cyclohexane	Ave	0.8898	0.9365		21.2	20.0	5.2	30.0
Chlorobromomethane	Ave	0.1386	0.1255		18.1	20.0	-9.5	30.0
Chloroform	Ave	0.6243	0.5837		20.0	20.0	-6.5	20.0
Carbon tetrachloride	Ave	0.3645	0.3874		21.2	20.0	6.3	30.0
Tetrahydrofuran	Ave	0.0762	0.0654		187	200	-14.1	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.5273		20.2	20.0	2.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0898		198	200	-6.5	30.0
1,1-Dichloropropene	Ave	0.4990	0.5110		20.5	20.0	2.4	30.0
Benzene	Ave	1.352	1.356		20.1	20.0	0.3	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7033		18.5	20.0	-7.7	30.0
1,2-Dichloroethane	Ave	0.3253	0.3006		18.5	20.0	-7.6	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3915		23.2	20.0	2.9	30.0
Methylcyclohexane	Ave	0.6300	0.6818		21.7	20.0	8.2	30.0
Trichloroethene	Ave	0.3155	0.3167		20.9	20.0	0.4	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1975		21.1	20.0	5.5	30.0
Dibromomethane	Ave	0.1188	0.1081		18.1	20.0	-9.0	30.0

4-6-10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-49101/2 Calibration Date: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45087.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3027		21.5	20.0	-4.9	20.0
Dichlorobromomethane	Ave	0.3427	0.3142		18.2	20.0	-8.3	30.0
Methyl methacrylate	Ave	0.0864	0.0756		17.1	20.0	-12.5	30.0
1,4-Dioxane	Qua		0.0235		219	200	9.6	30.0
2-Chloroethyl vinyl ether	Lin		0.0616		322	200	60.9*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3659		18.4	20.0	-8.0	30.0
Toluene	Ave	0.7062	0.7019		20.5	20.0	-0.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1907		187	200	-6.9	30.0
Tetrachloroethene	Ave	0.1859	0.1992		21.4	20.0	7.2	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2548		17.5	20.0	-12.5	30.0
1,1,2-Trichloroethane	Lin1		0.1137		18.2	20.0	-8.9	30.0
Chlorodibromomethane	Ave	0.1504	0.1309		17.4	20.0	-13.0	30.0
1,3-Dichloropropane	Ave	0.2828	0.2494		17.6	20.0	-11.8	30.0
Ethylene Dibromide	Ave	0.1260	0.1125		17.8	20.0	-10.7	30.0
2-Hexanone	Ave	0.1294	0.1188		187	200	-8.2	30.0
Chlorobenzene	Ave	1.096	1.071	0.3000	19.7	20.0	-2.3	30.0
Ethylbenzene	Ave	2.279	2.284		21.4	20.0	0.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3326		20.1	20.0	-4.3	30.0
m-Xylene & p-Xylene	Ave	1.752	1.752		40.0	40.0	0.0	30.0
o-Xylene	Ave	1.903	1.885		19.9	20.0	-0.9	30.0
Styrene	Ave	1.294	1.238		19.2	20.0	-4.3	30.0
Bromoform	Ave	0.3131	0.2721	0.1000	16.6	20.0	-13.1	20.0
Isopropylbenzene	Ave	2.255	2.367		21.0	20.0	4.9	30.0
Bromobenzene	Ave	1.024	0.9360		18.4	20.0	-8.6	30.0
N-Propylbenzene	Ave	2.901	2.963		20.4	20.0	2.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5955	0.3000	17.3	20.0	-13.0	30.0
2-Chlorotoluene	Ave	1.927	1.871		19.5	20.0	-2.9	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.899		20.5	20.0	2.6	30.0
1,2,3-Trichloropropane	Lin2		0.0578		18.6	20.0	-7.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0932		17.5	20.0	-12.5	30.0
4-Chlorotoluene	Ave	1.683	1.617		19.1	20.0	-3.9	30.0
tert-Butylbenzene	Ave	1.471	1.567		21.3	20.0	6.5	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.868		19.9	20.0	-0.3	30.0
sec-Butylbenzene	Ave	2.518	2.676		21.3	20.0	6.3	30.0
4-Isopropyltoluene	Ave	1.894	1.993		21.0	20.0	5.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7987		19.0	20.0	-5.1	30.0
1,4-Dichlorobenzene	Ave	1.788	1.723		19.3	20.0	-3.7	30.0
n-Butylbenzene	Ave	4.614	5.002		21.7	20.0	8.4	30.0
1,2-Dichlorobenzene	Ave	1.492	1.440		19.3	20.0	-3.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0629		16.3	20.0	-18.3	30.0
Hexachlorobutadiene	Ave	0.5170	0.5416		21.0	20.0	4.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Lab Sample ID: CCVIS 360-49101/2 Calibration Date: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45087.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9366		19.2	20.0	-4.0	30.0
Naphthalene	Ave	1.288	1.114		17.3	20.0	-13.5	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6887		19.1	20.0	-4.5	30.0
Dibromofluoromethane	Ave	0.2328	0.2245		19.3	20.0	-3.6	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9073		20.4	20.0	2.2	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5435		19.0	20.0	-5.2	30.0

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44823.D

Lab ID: LCS 360-48715/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	4700	94	70-130	
1,1,1,2-Tetrachloroethane	5000	5340	107	70-130	
1,1,2,2-Tetrachloroethane	5000	4840	97	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	4120	82	70-130	
1,1,2-Trichloroethane	5000	4780	96	70-130	
1,1-Dichloroethane	5000	5370	107	70-130	
1,1-Dichloroethene	5000	4800	96	70-130	
1,1-Dichloropropene	5000	4600	92	70-130	
1,2,3-Trichlorobenzene	5000	5280	106	70-130	
1,2,3-Trichloropropane	5000	5760	115	70-130	
1,2,4-Trichlorobenzene	5000	5080	102	70-130	
1,2,4-Trimethylbenzene	5000	5100	102	70-130	
1,2-Dibromo-3-Chloropropane	5000	4680	94	70-130	
Ethylene Dibromide	5000	4740	95	70-130	
1,2-Dichlorobenzene	5000	4930	99	70-130	
1,2-Dichloroethane	5000	4800	96	70-130	
1,2-Dichloropropane	5000	5610	112	70-130	
1,3,5-Trimethylbenzene	5000	5310	106	70-130	
1,3-Dichlorobenzene	5000	5100	102	70-130	
1,3-Dichloropropane	5000	4750	95	70-130	
1,4-Dichlorobenzene	5000	4970	99	70-130	
1,4-Dioxane	50000	35800	72	70-130	
2,2-Dichloropropane	5000	4870	97	70-130	
2,4,4-Trimethyl-1-pentene	5000	4790	96	70-130	
2,4,4-Trimethyl-2-pentene	5000	4270	85	70-130	
2-Chlorotoluene	5000	5170	103	70-130	
2-Hexanone	50000	44500	89	70-130	
4-Chlorotoluene	5000	5250	105	70-130	
Acetone	50000	38900	78	70-130	
Benzene	5000	5000	100	70-130	
Bromobenzene	5000	5140	103	70-130	
Chlorobromomethane	5000	4770	95	70-130	
Dichlorobromomethane	5000	4670	93	70-130	
Bromoform	5000	4240	85	70-130	
Bromomethane	5000	5200	104	70-130	
n-Butylbenzene	5000	4880	98	70-130	
Carbon disulfide	5000	4610	92	70-130	
Carbon tetrachloride	5000	4420	88	70-130	
Chlorobenzene	5000	5230	105	70-130	
Chloroethane	5000	4330	87	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10 tc

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44823.D

Lab ID: LCS 360-48715/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	5000	5090	102	70-130	
Chloromethane	5000	4880	98	70-130	
cis-1,2-Dichloroethene	5000	5050	101	70-130	
cis-1,3-Dichloropropene	5000	4590	92	70-130	
Cyclohexane	5000	4330	87	70-130	
Chlorodibromomethane	5000	4420	88	70-130	
Dibromomethane	5000	4620	92	70-130	
Dichlorodifluoromethane	5000	2580	52	70-130	*
Ethyl ether	5000	5120	102	70-130	
Isopropyl ether	5000	5000	100	70-130	
Tert-butyl ethyl ether	5000	5040	101	70-130	
Ethylbenzene	5000	5410	108	70-130	
Hexachlorobutadiene	5000	4620	92	70-130	
Isopropylbenzene	5000	5270	105	70-130	
Methyl acetate	50000	58900	118	70-130	
2-Butanone (MEK)	50000	45800	92	70-130	
4-Methyl-2-pentanone (MIBK)	50000	44000	88	70-130	
Methyl tert-butyl ether	5000	4780	96	70-130	
Methylcyclohexane	5000	4310	86	70-130	
Methylene Chloride	5000	5530	111	70-130	
m-Xylene & p-Xylene	10000	10300	103	70-130	
Naphthalene	5000	4970	99	70-130	
N-Propylbenzene	5000	5170	103	70-130	
o-Xylene	5000	5250	105	70-130	
4-Isopropyltoluene	5000	5340	107	70-130	
sec-Butylbenzene	5000	5120	102	70-130	
Styrene	5000	5210	104	70-130	
Tert-amyl methyl ether	5000	5120	102	70-130	
tert-Butylbenzene	5000	5360	107	70-130	
Tetrachloroethene	5000	4670	93	70-130	
Tetrahydrofuran	50000	51500	103	70-130	
Toluene	5000	5060	101	70-130	
trans-1,2-Dichloroethene	5000	4830	97	70-130	
trans-1,3-Dichloropropene	5000	4630	93	70-130	
Trichloroethene	5000	5060	101	70-130	
Trichlorofluoromethane	5000	4100	82	70-130	
Vinyl chloride	5000	4680	94	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 4/6/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44824.D

Lab ID: LCSD 360-48715/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	4490	90	5	25	70-130	
1,1,1,2-Tetrachloroethane	5000	5120	102	4	25	70-130	
1,1,2,2-Tetrachloroethane	5000	4560	91	6	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	3710	74	11	25	70-130	
1,1,2-Trichloroethane	5000	4540	91	5	25	70-130	
1,1-Dichloroethane	5000	5070	101	6	25	70-130	
1,1-Dichloroethene	5000	4530	91	6	25	70-130	
1,1-Dichloropropene	5000	4420	88	4	25	70-130	
1,2,3-Trichlorobenzene	5000	4870	97	8	25	70-130	
1,2,3-Trichloropropane	5000	5730	115	0	25	70-130	
1,2,4-Trichlorobenzene	5000	4810	96	6	25	70-130	
1,2,4-Trimethylbenzene	5000	5050	101	1	25	70-130	
1,2-Dibromo-3-Chloropropane	5000	4300	86	8	25	70-130	
Ethylene Dibromide	5000	4550	91	4	25	70-130	
1,2-Dichlorobenzene	5000	4720	94	4	25	70-130	
1,2-Dichloroethane	5000	4660	93	3	25	70-130	
1,2-Dichloropropane	5000	5270	105	6	25	70-130	
1,3,5-Trimethylbenzene	5000	5200	104	2	25	70-130	
1,3-Dichlorobenzene	5000	4990	100	2	25	70-130	
1,3-Dichloropropane	5000	4490	90	6	25	70-130	
1,4-Dichlorobenzene	5000	4800	96	4	25	70-130	
1,4-Dioxane	50000	43200	86	19	25	70-130	
2,2-Dichloropropane	5000	4650	93	4	25	70-130	
2,4,4-Trimethyl-1-pentene	5000	4370	87	9	25	70-130	
2,4,4-Trimethyl-2-pentene	5000	3950	79	8	25	70-130	
2-Chlorotoluene	5000	5000	100	3	25	70-130	
2-Hexanone	50000	38800	78	14	25	70-130	
4-Chlorotoluene	5000	5120	102	2	25	70-130	
Acetone	50000	41000	82	5	25	70-130	
Benzene	5000	4720	94	6	25	70-130	
Bromobenzene	5000	5010	100	3	25	70-130	
Chlorobromomethane	5000	4660	93	2	25	70-130	
Dichlorobromomethane	5000	4480	90	4	25	70-130	
Bromoform	5000	3900	78	8	25	70-130	
Bromomethane	5000	4920	98	6	25	70-130	
n-Butylbenzene	5000	4740	95	3	25	70-130	
Carbon disulfide	5000	4430	89	4	25	70-130	
Carbon tetrachloride	5000	4240	85	4	25	70-130	
Chlorobenzene	5000	4970	99	5	25	70-130	
Chloroethane	5000	3970	79	9	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44824.D

Lab ID: LCSD 360-48715/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	5000	4980	100	2	25	70-130	
Chloromethane	5000	4550	91	7	25	70-130	
cis-1,2-Dichloroethene	5000	4840	97	4	25	70-130	
cis-1,3-Dichloropropene	5000	4290	86	7	25	70-130	
Cyclohexane	5000	4320	86	0	25	70-130	
Chlorodibromomethane	5000	4170	83	6	25	70-130	
Dibromomethane	5000	4460	89	3	25	70-130	
Dichlorodifluoromethane	5000	2510	50	3	25	70-130	*
Ethyl ether	5000	4840	97	6	25	70-130	
Isopropyl ether	5000	4780	96	4	25	70-130	
Tert-butyl ethyl ether	5000	4860	97	4	25	70-130	
Ethylbenzene	5000	5210	104	4	25	70-130	
Hexachlorobutadiene	5000	4360	87	6	25	70-130	
Isopropylbenzene	5000	5110	102	3	25	70-130	
Methyl acetate	50000	58800	118	0	25	70-130	
2-Butanone (MEK)	50000	42300	85	8	25	70-130	
4-Methyl-2-pentanone (MIBK)	50000	41200	82	7	25	70-130	
Methyl tert-butyl ether	5000	4660	93	3	25	70-130	
Methylcyclohexane	5000	4320	86	0	25	70-130	
Methylene Chloride	5000	5280	106	5	25	70-130	
m-Xylene & p-Xylene	10000	9860	99	4	25	70-130	
Naphthalene	5000	4500	90	10	25	70-130	
N-Propylbenzene	5000	5050	101	2	25	70-130	
o-Xylene	5000	5050	101	4	25	70-130	
4-Isopropyltoluene	5000	5220	104	2	25	70-130	
sec-Butylbenzene	5000	5050	101	1	25	70-130	
Styrene	5000	5010	100	4	25	70-130	
Tert-amyl methyl ether	5000	4880	98	5	25	70-130	
tert-Butylbenzene	5000	5200	104	3	25	70-130	
Tetrachloroethene	5000	4400	88	6	25	70-130	
Tetrahydrofuran	50000	50400	101	2	25	70-130	
Toluene	5000	4760	95	6	25	70-130	
trans-1,2-Dichloroethene	5000	4560	91	6	25	70-130	
trans-1,3-Dichloropropene	5000	4370	87	6	25	70-130	
Trichloroethene	5000	4730	95	7	25	70-130	
Trichlorofluoromethane	5000	3820	76	7	25	70-130	
Vinyl chloride	5000	4360	87	7	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44838.D

Lab ID: LCS 360-48765/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	90.5	90	70-130	
1,1,1,2-Tetrachloroethane	100	96.3	96	70-130	
1,1,2,2-Tetrachloroethane	100	89.9	90	70-130	
1,1,2-Trichloro-1,2,2-trifluor oethane	100	90.6	91	70-130	
1,1,2-Trichloroethane	100	92.8	93	70-130	
1,1-Dichloroethane	100	97.2	97	70-130	
1,1-Dichloroethene	100	94.9	95	70-130	
1,1-Dichloropropene	100	91.0	91	70-130	
1,2,3-Trichlorobenzene	100	101	101	70-130	
1,2,3-Trichloropropane	100	110	110	70-130	
1,2,4-Trichlorobenzene	100	98.9	99	70-130	
1,2,4-Trimethylbenzene	100	91.4	91	70-130	
1,2-Dibromo-3-Chloropropane	100	93.9	94	70-130	
Ethylene Dibromide	100	94.6	95	70-130	
1,2-Dichlorobenzene	100	92.2	92	70-130	
1,2-Dichloroethane	100	92.0	92	70-130	
1,2-Dichloropropane	100	100	100	70-130	
1,3,5-Trimethylbenzene	100	94.0	94	70-130	
1,3-Dichlorobenzene	100	94.1	94	70-130	
1,3-Dichloropropane	100	91.3	91	70-130	
1,4-Dichlorobenzene	100	93.8	94	70-130	
1,4-Dioxane	1000	923	92	70-130	
2,2-Dichloropropane	100	105	105	70-130	
2,4,4-Trimethyl-1-pentene	100	104	104	70-130	
2,4,4-Trimethyl-2-pentene	100	95.9	96	70-130	
2-Chlorotoluene	100	90.7	91	70-130	
2-Hexanone	1000	887	89	70-130	
4-Chlorotoluene	100	93.4	93	70-130	
Acetone	1000	918	92	70-130	
Benzene	100	91.6	92	70-130	
Bromobenzene	100	91.1	91	70-130	
Chlorobromomethane	100	94.5	95	70-130	
Dichlorobromomethane	100	91.8	92	70-130	
Bromoform	100	86.1	86	70-130	
Bromomethane	100	98.6	99	70-130	
n-Butylbenzene	100	94.7	95	70-130	
Carbon disulfide	100	92.1	92	70-130	
Carbon tetrachloride	100	90.4	90	70-130	
Chlorobenzene	100	93.4	93	70-130	
Chloroethane	100	95.9	96	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44838.D

Lab ID: LCS 360-48765/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	95.4	95	70-130	
Chloromethane	100	89.5	89	70-130	
cis-1,2-Dichloroethene	100	92.7	93	70-130	
cis-1,3-Dichloropropene	100	89.9	90	70-130	
Cyclohexane	100	97.8	98	70-130	
Chlorodibromomethane	100	88.6	89	70-130	
Dibromomethane	100	89.7	90	70-130	
Dichlorodifluoromethane	100	61.0	61	70-130	*
Ethyl ether	100	103	103	70-130	
Isopropyl ether	100	91.8	92	70-130	
Tert-butyl ethyl ether	100	94.7	95	70-130	
Ethylbenzene	100	95.6	96	70-130	
Hexachlorobutadiene	100	93.3	93	70-130	
Isopropylbenzene	100	94.4	94	70-130	
Methyl acetate	1000	1070	107	70-130	
2-Butanone (MEK)	1000	930	93	70-130	
4-Methyl-2-pentanone (MIBK)	1000	920	92	70-130	
Methyl tert-butyl ether	100	92.4	92	70-130	
Methylcyclohexane	100	99.8	100	70-130	
Methylene Chloride	100	102	102	70-130	
m-Xylene & p-Xylene	200	182	91	70-130	
Naphthalene	100	95.1	95	70-130	
N-Propylbenzene	100	93.8	94	70-130	
o-Xylene	100	91.4	91	70-130	
4-Isopropyltoluene	100	99.2	99	70-130	
sec-Butylbenzene	100	95.6	96	70-130	
Styrene	100	92.3	92	70-130	
Tert-amyl methyl ether	100	96.6	97	70-130	
tert-Butylbenzene	100	97.2	97	70-130	
Tetrachloroethene	100	96.0	96	70-130	
Tetrahydrofuran	1000	1030	103	70-130	
Toluene	100	93.1	93	70-130	
trans-1,2-Dichloroethene	100	88.3	88	70-130	
trans-1,3-Dichloropropene	100	92.8	93	70-130	
Trichloroethene	100	93.5	93	70-130	
Trichlorofluoromethane	100	91.9	92	70-130	
Vinyl chloride	100	91.8	92	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44839.D

Lab ID: LCSD 360-48765/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	95.9	96	6	25	70-130	
1,1,1,2-Tetrachloroethane	100	102	102	6	25	70-130	
1,1,2,2-Tetrachloroethane	100	91.5	91	2	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	97.0	97	7	25	70-130	
1,1,2-Trichloroethane	100	93.7	94	1	25	70-130	
1,1-Dichloroethane	100	102	102	4	25	70-130	
1,1-Dichloroethene	100	101	101	6	25	70-130	
1,1-Dichloropropene	100	95.2	95	5	25	70-130	
1,2,3-Trichlorobenzene	100	108	108	7	25	70-130	
1,2,3-Trichloropropane	100	114	114	4	25	70-130	
1,2,4-Trichlorobenzene	100	105	105	6	25	70-130	
1,2,4-Trimethylbenzene	100	98.6	99	8	25	70-130	
1,2-Dibromo-3-Chloropropane	100	97.7	98	4	25	70-130	
Ethylene Dibromide	100	95.0	95	0	25	70-130	
1,2-Dichlorobenzene	100	96.4	96	4	25	70-130	
1,2-Dichloroethane	100	95.0	95	3	25	70-130	
1,2-Dichloropropane	100	105	105	5	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	8	25	70-130	
1,3-Dichlorobenzene	100	100	100	6	25	70-130	
1,3-Dichloropropane	100	92.2	92	1	25	70-130	
1,4-Dichlorobenzene	100	97.8	98	4	25	70-130	
1,4-Dioxane	1000	846	85	9	25	70-130	
2,2-Dichloropropane	100	112	112	6	25	70-130	
2,4,4-Trimethyl-1-pentene	100	114	114	9	25	70-130	
2,4,4-Trimethyl-2-pentene	100	102	102	7	25	70-130	
2-Chlorotoluene	100	97.1	97	7	25	70-130	
2-Hexanone	1000	902	90	2	25	70-130	
4-Chlorotoluene	100	99.7	100	7	25	70-130	
Acetone	1000	877	88	5	25	70-130	
Benzene	100	95.9	96	5	25	70-130	
Bromobenzene	100	95.5	96	5	25	70-130	
Chlorobromomethane	100	97.5	97	3	25	70-130	
Dichlorobromomethane	100	93.8	94	2	25	70-130	
Bromoform	100	85.1	85	1	25	70-130	
Bromomethane	100	106	106	7	25	70-130	
n-Butylbenzene	100	99.3	99	5	25	70-130	
Carbon disulfide	100	96.5	96	5	25	70-130	
Carbon tetrachloride	100	95.8	96	6	25	70-130	
Chlorobenzene	100	97.6	98	4	25	70-130	
Chloroethane	100	103	103	7	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44839.D

Lab ID: LCSD 360-48765/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	100	100	5	25	70-130	
Chloromethane	100	98.2	98	9	25	70-130	
cis-1,2-Dichloroethene	100	96.2	96	4	25	70-130	
cis-1,3-Dichloropropene	100	91.6	92	2	25	70-130	
Cyclohexane	100	98.3	98	0	25	70-130	
Chlorodibromomethane	100	91.1	91	3	25	70-130	
Dibromomethane	100	92.7	93	3	25	70-130	
Dichlorodifluoromethane	100	66.6	67	9	25	70-130	*
Ethyl ether	100	101	101	1	25	70-130	
Isopropyl ether	100	94.9	95	3	25	70-130	
Tert-butyl ethyl ether	100	97.8	98	3	25	70-130	
Ethylbenzene	100	101	101	6	25	70-130	
Hexachlorobutadiene	100	99.3	99	6	25	70-130	
Isopropylbenzene	100	101	101	7	25	70-130	
Methyl acetate	1000	1020	102	4	25	70-130	
2-Butanone (MEK)	1000	903	90	3	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	942	94	2	25	70-130	
Methyl tert-butyl ether	100	95.2	95	3	25	70-130	
Methylcyclohexane	100	99.6	100	0	25	70-130	
Methylene Chloride	100	105	105	3	25	70-130	
m-Xylene & p-Xylene	200	192	96	6	25	70-130	
Naphthalene	100	99.9	100	5	25	70-130	
N-Propylbenzene	100	99.5	99	6	25	70-130	
o-Xylene	100	97.5	98	6	25	70-130	
4-Isopropyltoluene	100	106	106	7	25	70-130	
sec-Butylbenzene	100	103	103	7	25	70-130	
Styrene	100	96.7	97	5	25	70-130	
Tert-amyl methyl ether	100	99.7	100	3	25	70-130	
tert-Butylbenzene	100	105	105	8	25	70-130	
Tetrachloroethene	100	99.1	99	3	25	70-130	
Tetrahydrofuran	1000	1050	105	2	25	70-130	
Toluene	100	97.3	97	4	25	70-130	
trans-1,2-Dichloroethene	100	92.5	93	5	25	70-130	
trans-1,3-Dichloropropene	100	91.6	92	1	25	70-130	
Trichloroethene	100	99.3	99	6	25	70-130	
Trichlorofluoromethane	100	98.7	99	7	25	70-130	
Vinyl chloride	100	98.4	98	7	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44852.D

Lab ID: LCS 360-48769/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	4490	90	70-130	
1,1,1,2-Tetrachloroethane	5000	5200	104	70-130	
1,1,2,2-Tetrachloroethane	5000	4210	84	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	4170	83	70-130	
1,1,2-Trichloroethane	5000	4380	88	70-130	
1,1-Dichloroethane	5000	5000	100	70-130	
1,1-Dichloroethene	5000	4590	92	70-130	
1,1-Dichloropropene	5000	4450	89	70-130	
1,2,3-Trichlorobenzene	5000	4830	97	70-130	
1,2,3-Trichloropropane	5000	5480	110	70-130	
1,2,4-Trichlorobenzene	5000	4880	98	70-130	
1,2,4-Trimethylbenzene	5000	5030	101	70-130	
1,2-Dibromo-3-Chloropropane	5000	4240	85	70-130	
Ethylene Dibromide	5000	4370	87	70-130	
1,2-Dichlorobenzene	5000	4760	95	70-130	
1,2-Dichloroethane	5000	4500	90	70-130	
1,2-Dichloropropane	5000	5180	104	70-130	
1,3,5-Trimethylbenzene	5000	5130	103	70-130	
1,3-Dichlorobenzene	5000	5090	102	70-130	
1,3-Dichloropropane	5000	4330	87	70-130	
1,4-Dichlorobenzene	5000	4900	98	70-130	
1,4-Dioxane	50000	30900	62	70-130	*
2,2-Dichloropropane	5000	4870	97	70-130	
2,4,4-Trimethyl-1-pentene	5000	4790	96	70-130	
2,4,4-Trimethyl-2-pentene	5000	4400	88	70-130	
2-Chlorotoluene	5000	4970	99	70-130	
2-Hexanone	50000	38100	76	70-130	
4-Chlorotoluene	5000	5060	101	70-130	
Acetone	50000	38800	78	70-130	
Benzene	5000	4730	95	70-130	
Bromobenzene	5000	4780	96	70-130	
Chlorobromomethane	5000	4660	93	70-130	
Dichlorobromomethane	5000	4590	92	70-130	
Bromoform	5000	4010	80	70-130	
Bromomethane	5000	4990	100	70-130	
n-Butylbenzene	5000	4840	97	70-130	
Carbon disulfide	5000	4410	88	70-130	
Carbon tetrachloride	5000	4390	88	70-130	
Chlorobenzene	5000	5060	101	70-130	
Chloroethane	5000	4210	84	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44852.D

Lab ID: LCS 360-48769/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	5000	4860	97	70-130	
Chloromethane	5000	4470	89	70-130	
cis-1,2-Dichloroethene	5000	4760	95	70-130	
cis-1,3-Dichloropropene	5000	4330	87	70-130	
Cyclohexane	5000	4320	86	70-130	
Chlorodibromomethane	5000	4250	85	70-130	
Dibromomethane	5000	4430	89	70-130	
Dichlorodifluoromethane	5000	2580	52	70-130	*
Ethyl ether	5000	4850	97	70-130	
Isopropyl ether	5000	4600	92	70-130	
Tert-butyl ethyl ether	5000	4600	92	70-130	
Ethylbenzene	5000	5230	105	70-130	
Hexachlorobutadiene	5000	4590	92	70-130	
Isopropylbenzene	5000	5090	102	70-130	
Methyl acetate	50000	44100	88	70-130	
2-Butanone (MEK)	50000	39800	80	70-130	
4-Methyl-2-pentanone (MIBK)	50000	40400	81	70-130	
Methyl tert-butyl ether	5000	4360	87	70-130	
Methylcyclohexane	5000	4410	88	70-130	
Methylene Chloride	5000	5180	104	70-130	
m-Xylene & p-Xylene	10000	9890	99	70-130	
Naphthalene	5000	4330	87	70-130	
N-Propylbenzene	5000	4990	100	70-130	
o-Xylene	5000	4980	100	70-130	
4-Isopropyltoluene	5000	5330	107	70-130	
sec-Butylbenzene	5000	5020	100	70-130	
Styrene	5000	4910	98	70-130	
Tert-amyl methyl ether	5000	4680	94	70-130	
tert-Butylbenzene	5000	5260	105	70-130	
Tetrachloroethene	5000	4830	97	70-130	
Tetrahydrofuran	50000	47100	94	70-130	
Toluene	5000	4780	96	70-130	
trans-1,2-Dichloroethene	5000	4450	89	70-130	
trans-1,3-Dichloropropene	5000	4320	86	70-130	
Trichloroethene	5000	4810	96	70-130	
Trichlorofluoromethane	5000	4170	83	70-130	
Vinyl chloride	5000	4420	88	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44853.D

Lab ID: LCSD 360-48769/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	4410	88	2	25	70-130	
1,1,1,2-Tetrachloroethane	5000	4890	98	6	25	70-130	
1,1,2,2-Tetrachloroethane	5000	4250	85	1	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	4170	83	0	25	70-130	
1,1,2-Trichloroethane	5000	4580	92	4	25	70-130	
1,1-Dichloroethane	5000	4850	97	3	25	70-130	
1,1-Dichloroethene	5000	4460	89	3	25	70-130	
1,1-Dichloropropene	5000	4440	89	0	25	70-130	
1,2,3-Trichlorobenzene	5000	5160	103	7	25	70-130	
1,2,3-Trichloropropane	5000	5090	102	7	25	70-130	
1,2,4-Trichlorobenzene	5000	5150	103	5	25	70-130	
1,2,4-Trimethylbenzene	5000	4730	95	6	25	70-130	
1,2-Dibromo-3-Chloropropane	5000	4390	88	3	25	70-130	
Ethylene Dibromide	5000	4580	92	5	25	70-130	
1,2-Dichlorobenzene	5000	4820	96	1	25	70-130	
1,2-Dichloroethane	5000	4520	90	0	25	70-130	
1,2-Dichloropropane	5000	5230	105	1	25	70-130	
1,3,5-Trimethylbenzene	5000	4880	98	5	25	70-130	
1,3-Dichlorobenzene	5000	4810	96	6	25	70-130	
1,3-Dichloropropane	5000	4500	90	4	25	70-130	
1,4-Dichlorobenzene	5000	4940	99	1	25	70-130	
1,4-Dioxane	50000	45700	91	39	25	70-130	*
2,2-Dichloropropane	5000	4680	94	4	25	70-130	
2,4,4-Trimethyl-1-pentene	5000	4570	91	5	25	70-130	
2,4,4-Trimethyl-2-pentene	5000	4290	86	3	25	70-130	
2-Chlorotoluene	5000	4680	94	6	25	70-130	
2-Hexanone	50000	39500	79	4	25	70-130	
4-Chlorotoluene	5000	4780	96	6	25	70-130	
Acetone	50000	35400	71	9	25	70-130	
Benzene	5000	4690	94	1	25	70-130	
Bromobenzene	5000	4570	91	5	25	70-130	
Chlorobromomethane	5000	4580	92	2	25	70-130	
Dichlorobromomethane	5000	4500	90	2	25	70-130	
Bromoform	5000	4050	81	1	25	70-130	
Bromomethane	5000	5260	105	5	25	70-130	
n-Butylbenzene	5000	4890	98	1	25	70-130	
Carbon disulfide	5000	4190	84	5	25	70-130	
Carbon tetrachloride	5000	4470	89	2	25	70-130	
Chlorobenzene	5000	4960	99	2	25	70-130	
Chloroethane	5000	3950	79	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44853.D

Lab ID: LCSD 360-48769/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	5000	4750	95	2	25	70-130	
Chloromethane	5000	4500	90	1	25	70-130	
cis-1,2-Dichloroethene	5000	4680	94	2	25	70-130	
cis-1,3-Dichloropropene	5000	4510	90	4	25	70-130	
Cyclohexane	5000	4280	86	1	25	70-130	
Chlorodibromomethane	5000	4330	87	2	25	70-130	
Dibromomethane	5000	4510	90	2	25	70-130	
Dichlorodifluoromethane	5000	2580	52	0	25	70-130	*
Ethyl ether	5000	4390	88	10	25	70-130	
Isopropyl ether	5000	4440	89	4	25	70-130	
Tert-butyl ethyl ether	5000	4390	88	5	25	70-130	
Ethylbenzene	5000	5010	100	4	25	70-130	
Hexachlorobutadiene	5000	4850	97	5	25	70-130	
Isopropylbenzene	5000	4850	97	5	25	70-130	
Methyl acetate	50000	49200	98	11	25	70-130	
2-Butanone (MEK)	50000	40500	81	2	25	70-130	
4-Methyl-2-pentanone (MIBK)	50000	40500	81	0	25	70-130	
Methyl tert-butyl ether	5000	4130	83	5	25	70-130	
Methylcyclohexane	5000	4370	87	1	25	70-130	
Methylene Chloride	5000	5040	101	3	25	70-130	
m-Xylene & p-Xylene	10000	9490	95	4	25	70-130	
Naphthalene	5000	4620	92	6	25	70-130	
N-Propylbenzene	5000	4760	95	5	25	70-130	
o-Xylene	5000	4730	95	5	25	70-130	
4-Isopropyltoluene	5000	5020	100	6	25	70-130	
sec-Butylbenzene	5000	4730	95	6	25	70-130	
Styrene	5000	4740	95	4	25	70-130	
Tert-amyl methyl ether	5000	4480	90	4	25	70-130	
tert-Butylbenzene	5000	4960	99	6	25	70-130	
Tetrachloroethene	5000	4920	98	2	25	70-130	
Tetrahydrofuran	50000	47800	96	2	25	70-130	
Toluene	5000	4920	98	3	25	70-130	
trans-1,2-Dichloroethene	5000	4350	87	2	25	70-130	
trans-1,3-Dichloropropene	5000	4620	92	7	25	70-130	
Trichloroethene	5000	4820	96	0	25	70-130	
Trichlorofluoromethane	5000	4200	84	1	25	70-130	
Vinyl chloride	5000	4290	86	3	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44876.D

Lab ID: LCS 360-48815/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	93.4	93	70-130	
1,1,1,2-Tetrachloroethane	100	99.0	99	70-130	
1,1,2,2-Tetrachloroethane	100	83.8	84	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	84.0	84	70-130	
1,1,2-Trichloroethane	100	88.0	88	70-130	
1,1-Dichloroethane	100	101	101	70-130	
1,1-Dichloroethene	100	96.2	96	70-130	
1,1-Dichloropropene	100	93.2	93	70-130	
1,2,3-Trichlorobenzene	100	97.7	98	70-130	
1,2,3-Trichloropropane	100	101	101	70-130	
1,2,4-Trichlorobenzene	100	99.3	99	70-130	
1,2,4-Trimethylbenzene	100	94.5	94	70-130	
1,2-Dibromo-3-Chloropropane	100	85.9	86	70-130	
Ethylene Dibromide	100	90.2	90	70-130	
1,2-Dichlorobenzene	100	95.3	95	70-130	
1,2-Dichloroethane	100	86.0	86	70-130	
1,2-Dichloropropane	100	101	101	70-130	
1,3,5-Trimethylbenzene	100	99.6	100	70-130	
1,3-Dichlorobenzene	100	94.4	94	70-130	
1,3-Dichloropropane	100	87.0	87	70-130	
1,4-Dichlorobenzene	100	97.7	98	70-130	
1,4-Dioxane	1000	1020	102	70-130	
2,2-Dichloropropane	100	112	112	70-130	
2,4,4-Trimethyl-1-pentene	100	95.7	96	70-130	
2,4,4-Trimethyl-2-pentene	100	89.5	90	70-130	
2-Chlorotoluene	100	94.4	94	70-130	
2-Hexanone	1000	768	77	70-130	
4-Chlorotoluene	100	96.0	96	70-130	
Acetone	1000	855	85	70-130	
Benzene	100	95.1	95	70-130	
Bromobenzene	100	90.9	91	70-130	
Chlorobromomethane	100	90.9	91	70-130	
Dichlorobromomethane	100	89.7	90	70-130	
Bromoform	100	83.1	83	70-130	
Bromomethane	100	107	107	70-130	
n-Butylbenzene	100	103	103	70-130	
Carbon disulfide	100	92.9	93	70-130	
Carbon tetrachloride	100	92.0	92	70-130	
Chlorobenzene	100	100	100	70-130	
Chloroethane	100	99.7	100	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44876.D

Lab ID: LCS 360-48815/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	95.5	96	70-130	
Chloromethane	100	95.0	95	70-130	
cis-1,2-Dichloroethene	100	94.0	94	70-130	
cis-1,3-Dichloropropene	100	89.4	89	70-130	
Cyclohexane	100	87.9	88	70-130	
Chlorodibromomethane	100	87.0	87	70-130	
Dibromomethane	100	87.9	88	70-130	
Dichlorodifluoromethane	100	36.5	36	70-130	*
Ethyl ether	100	91.1	91	70-130	
Isopropyl ether	100	89.1	89	70-130	
Tert-butyl ethyl ether	100	88.4	88	70-130	
Ethylbenzene	100	104	104	70-130	
Hexachlorobutadiene	100	98.8	99	70-130	
Isopropylbenzene	100	101	101	70-130	
Methyl acetate	1000	923	92	70-130	
2-Butanone (MEK)	1000	766	77	70-130	
4-Methyl-2-pentanone (MIBK)	1000	793	79	70-130	
Methyl tert-butyl ether	100	82.7	83	70-130	
Methylcyclohexane	100	89.8	90	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	194	97	70-130	
Naphthalene	100	87.7	88	70-130	
N-Propylbenzene	100	98.1	98	70-130	
o-Xylene	100	95.3	95	70-130	
4-Isopropyltoluene	100	104	104	70-130	
sec-Butylbenzene	100	100	100	70-130	
Styrene	100	95.7	96	70-130	
Tert-amyl methyl ether	100	89.4	89	70-130	
tert-Butylbenzene	100	102	102	70-130	
Tetrachloroethene	100	102	102	70-130	
Tetrahydrofuran	1000	916	92	70-130	
Toluene	100	100	100	70-130	
trans-1,2-Dichloroethene	100	91.7	92	70-130	
trans-1,3-Dichloropropene	100	90.8	91	70-130	
Trichloroethene	100	100	100	70-130	
Trichlorofluoromethane	100	87.9	88	70-130	
Vinyl chloride	100	92.7	93	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44877.D

Lab ID: LCSD 360-48815/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	90.1	90	4	25	70-130	
1,1,1,2-Tetrachloroethane	100	96.1	96	3	25	70-130	
1,1,2,2-Tetrachloroethane	100	83.9	84	0	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	81.3	81	3	25	70-130	
1,1,2-Trichloroethane	100	91.5	91	4	25	70-130	
1,1-Dichloroethane	100	96.7	97	4	25	70-130	
1,1-Dichloroethene	100	93.6	94	3	25	70-130	
1,1-Dichloropropene	100	89.7	90	4	25	70-130	
1,2,3-Trichlorobenzene	100	99.3	99	2	25	70-130	
1,2,3-Trichloropropane	100	104	104	3	25	70-130	
1,2,4-Trichlorobenzene	100	99.1	99	0	25	70-130	
1,2,4-Trimethylbenzene	100	92.3	92	2	25	70-130	
1,2-Dibromo-3-Chloropropane	100	88.8	89	3	25	70-130	
Ethylene Dibromide	100	95.0	95	5	25	70-130	
1,2-Dichlorobenzene	100	93.0	93	2	25	70-130	
1,2-Dichloroethane	100	90.3	90	5	25	70-130	
1,2-Dichloropropane	100	102	102	1	25	70-130	
1,3,5-Trimethylbenzene	100	95.1	95	5	25	70-130	
1,3-Dichlorobenzene	100	93.6	94	1	25	70-130	
1,3-Dichloropropane	100	91.0	91	5	25	70-130	
1,4-Dichlorobenzene	100	94.9	95	3	25	70-130	
1,4-Dioxane	1000	1040	104	1	25	70-130	
2,2-Dichloropropane	100	108	108	4	25	70-130	
2,4,4-Trimethyl-1-pentene	100	91.4	91	5	25	70-130	
2,4,4-Trimethyl-2-pentene	100	87.0	87	3	25	70-130	
2-Chlorotoluene	100	91.7	92	3	25	70-130	
2-Hexanone	1000	824	82	7	25	70-130	
4-Chlorotoluene	100	92.6	93	4	25	70-130	
Acetone	1000	925	93	8	25	70-130	
Benzene	100	92.4	92	3	25	70-130	
Bromobenzene	100	89.0	89	2	25	70-130	
Chlorobromomethane	100	93.3	93	3	25	70-130	
Dichlorobromomethane	100	90.3	90	1	25	70-130	
Bromoform	100	84.2	84	1	25	70-130	
Bromomethane	100	97.4	97	10	25	70-130	
n-Butylbenzene	100	95.9	96	7	25	70-130	
Carbon disulfide	100	89.6	90	4	25	70-130	
Carbon tetrachloride	100	89.8	90	2	25	70-130	
Chlorobenzene	100	95.5	96	5	25	70-130	
Chloroethane	100	93.6	94	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10 TK

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44877.D

Lab ID: LCSD 360-48815/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	95.6	96	0	25	70-130	
Chloromethane	100	88.6	89	7	25	70-130	
cis-1,2-Dichloroethene	100	91.5	92	3	25	70-130	
cis-1,3-Dichloropropene	100	89.9	90	0	25	70-130	
Cyclohexane	100	86.6	87	2	25	70-130	
Chlorodibromomethane	100	88.7	89	2	25	70-130	
Dibromomethane	100	89.5	89	2	25	70-130	
Dichlorodifluoromethane	100	31.6	32	14	25	70-130	*
Ethyl ether	100	96.8	97	6	25	70-130	
Isopropyl ether	100	89.1	89	0	25	70-130	
Tert-butyl ethyl ether	100	90.4	90	2	25	70-130	
Ethylbenzene	100	98.3	98	5	25	70-130	
Hexachlorobutadiene	100	95.2	95	4	25	70-130	
Isopropylbenzene	100	95.5	95	6	25	70-130	
Methyl acetate	1000	1060	106	14	25	70-130	
2-Butanone (MEK)	1000	840	84	9	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	850	85	7	25	70-130	
Methyl tert-butyl ether	100	87.3	87	5	25	70-130	
Methylcyclohexane	100	89.8	90	0	25	70-130	
Methylene Chloride	100	104	104	0	25	70-130	
m-Xylene & p-Xylene	200	185	93	5	25	70-130	
Naphthalene	100	90.5	90	3	25	70-130	
N-Propylbenzene	100	94.2	94	4	25	70-130	
o-Xylene	100	91.9	92	4	25	70-130	
4-Isopropyltoluene	100	100	100	3	25	70-130	
sec-Butylbenzene	100	94.3	94	6	25	70-130	
Styrene	100	91.3	91	5	25	70-130	
Tert-amyl methyl ether	100	91.5	92	2	25	70-130	
tert-Butylbenzene	100	98.2	98	4	25	70-130	
Tetrachloroethene	100	100	100	2	25	70-130	
Tetrahydrofuran	1000	991	99	8	25	70-130	
Toluene	100	97.1	97	3	25	70-130	
trans-1,2-Dichloroethene	100	87.4	87	5	25	70-130	
trans-1,3-Dichloropropene	100	93.6	94	3	25	70-130	
Trichloroethene	100	96.3	96	4	25	70-130	
Trichlorofluoromethane	100	84.2	84	4	25	70-130	
Vinyl chloride	100	87.7	88	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44895.D

Lab ID: LCS 360-48818/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	4450	89	70-130	
1,1,1,2-Tetrachloroethane	5000	4860	97	70-130	
1,1,2,2-Tetrachloroethane	5000	4390	88	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	4120	82	70-130	
1,1,2-Trichloroethane	5000	4470	89	70-130	
1,1-Dichloroethane	5000	4910	98	70-130	
1,1-Dichloroethene	5000	4540	91	70-130	
1,1-Dichloropropene	5000	4480	90	70-130	
1,2,3-Trichlorobenzene	5000	4810	96	70-130	
1,2,3-Trichloropropane	5000	5040	101	70-130	
1,2,4-Trichlorobenzene	5000	4840	97	70-130	
1,2,4-Trimethylbenzene	5000	4790	96	70-130	
1,2-Dibromo-3-Chloropropane	5000	4170	83	70-130	
Ethylene Dibromide	5000	4480	90	70-130	
1,2-Dichlorobenzene	5000	4780	96	70-130	
1,2-Dichloroethane	5000	4520	90	70-130	
1,2-Dichloropropane	5000	5280	106	70-130	
1,3,5-Trimethylbenzene	5000	4970	99	70-130	
1,3-Dichlorobenzene	5000	4770	95	70-130	
1,3-Dichloropropane	5000	4420	88	70-130	
1,4-Dichlorobenzene	5000	4910	98	70-130	
1,4-Dioxane	50000	51600	103	70-130	
2,2-Dichloropropane	5000	4790	96	70-130	
2,4,4-Trimethyl-1-pentene	5000	4610	92	70-130	
2,4,4-Trimethyl-2-pentene	5000	4320	86	70-130	
2-Chlorotoluene	5000	4740	95	70-130	
2-Hexanone	50000	39300	79	70-130	
4-Chlorotoluene	5000	4780	96	70-130	
Acetone	50000	38100	76	70-130	
Benzene	5000	4720	94	70-130	
Bromobenzene	5000	4630	93	70-130	
Chlorobromomethane	5000	4530	91	70-130	
Dichlorobromomethane	5000	4540	91	70-130	
Bromoform	5000	4110	82	70-130	
Bromomethane	5000	5310	106	70-130	
n-Butylbenzene	5000	4980	100	70-130	
Carbon disulfide	5000	4280	86	70-130	
Carbon tetrachloride	5000	4360	87	70-130	
Chlorobenzene	5000	4990	100	70-130	
Chloroethane	5000	4180	84	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-6-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44895.D

Lab ID: LCS 360-48818/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	5000	4720	94	70-130	
Chloromethane	5000	4560	91	70-130	
cis-1,2-Dichloroethene	5000	4670	93	70-130	
cis-1,3-Dichloropropene	5000	4400	88	70-130	
Cyclohexane	5000	4050	81	70-130	
Chlorodibromomethane	5000	4260	85	70-130	
Dibromomethane	5000	4440	89	70-130	
Dichlorodifluoromethane	5000	1530	31	70-130	*
Ethyl ether	5000	4460	89	70-130	
Isopropyl ether	5000	4490	90	70-130	
Tert-butyl ethyl ether	5000	4460	89	70-130	
Ethylbenzene	5000	5140	103	70-130	
Hexachlorobutadiene	5000	4650	93	70-130	
Isopropylbenzene	5000	5000	100	70-130	
Methyl acetate	50000	80200	160	70-130	*
2-Butanone (MEK)	50000	41900	84	70-130	
4-Methyl-2-pentanone (MIBK)	50000	41200	82	70-130	
Methyl tert-butyl ether	5000	4220	84	70-130	
Methylcyclohexane	5000	4130	83	70-130	
Methylene Chloride	5000	5230	105	70-130	
m-Xylene & p-Xylene	10000	9740	97	70-130	
Naphthalene	5000	4420	88	70-130	
N-Propylbenzene	5000	4870	97	70-130	
o-Xylene	5000	4850	97	70-130	
4-Isopropyltoluene	5000	5080	102	70-130	
sec-Butylbenzene	5000	4890	98	70-130	
Styrene	5000	4920	98	70-130	
Tert-amyl methyl ether	5000	4480	90	70-130	
tert-Butylbenzene	5000	5090	102	70-130	
Tetrachloroethene	5000	4790	96	70-130	
Tetrahydrofuran	50000	48100	96	70-130	
Toluene	5000	4940	99	70-130	
trans-1,2-Dichloroethene	5000	4410	88	70-130	
trans-1,3-Dichloropropene	5000	4440	89	70-130	
Trichloroethene	5000	4890	98	70-130	
Trichlorofluoromethane	5000	4190	84	70-130	
Vinyl chloride	5000	4420	88	70-130	

4-6-10
TC

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44896.D

Lab ID: LCSD 360-48818/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	4210	84	5	25	70-130	
1,1,1,2-Tetrachloroethane	5000	4760	95	2	25	70-130	
1,1,2,2-Tetrachloroethane	5000	4250	85	3	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	3800	76	8	25	70-130	
1,1,2-Trichloroethane	5000	4330	87	3	25	70-130	
1,1-Dichloroethane	5000	4660	93	5	25	70-130	
1,1-Dichloroethene	5000	4250	85	7	25	70-130	
1,1-Dichloropropene	5000	4110	82	9	25	70-130	
1,2,3-Trichlorobenzene	5000	5020	100	4	25	70-130	
1,2,3-Trichloropropane	5000	5330	107	6	25	70-130	
1,2,4-Trichlorobenzene	5000	4940	99	2	25	70-130	
1,2,4-Trimethylbenzene	5000	4600	92	4	25	70-130	
1,2-Dibromo-3-Chloropropane	5000	4400	88	5	25	70-130	
Ethylene Dibromide	5000	4260	85	5	25	70-130	
1,2-Dichlorobenzene	5000	4550	91	5	25	70-130	
1,2-Dichloroethane	5000	4240	85	6	25	70-130	
1,2-Dichloropropane	5000	4880	98	8	25	70-130	
1,3,5-Trimethylbenzene	5000	4760	95	4	25	70-130	
1,3-Dichlorobenzene	5000	4660	93	2	25	70-130	
1,3-Dichloropropane	5000	4130	83	7	25	70-130	
1,4-Dichlorobenzene	5000	4590	92	7	25	70-130	
1,4-Dioxane	50000	51300	103	1	25	70-130	
2,2-Dichloropropane	5000	4520	90	6	25	70-130	
2,4,4-Trimethyl-1-pentene	5000	4220	84	9	25	70-130	
2,4,4-Trimethyl-2-pentene	5000	3940	79	9	25	70-130	
2-Chlorotoluene	5000	4550	91	4	25	70-130	
2-Hexanone	50000	38300	77	3	25	70-130	
4-Chlorotoluene	5000	4590	92	4	25	70-130	
Acetone	50000	38800	78	2	25	70-130	
Benzene	5000	4430	89	6	25	70-130	
Bromobenzene	5000	4460	89	4	25	70-130	
Chlorobromomethane	5000	4440	89	2	25	70-130	
Dichlorobromomethane	5000	4220	84	7	25	70-130	
Bromoform	5000	3800	76	8	25	70-130	
Bromomethane	5000	4870	97	9	25	70-130	
n-Butylbenzene	5000	4530	91	9	25	70-130	
Carbon disulfide	5000	3950	79	8	25	70-130	
Carbon tetrachloride	5000	4040	81	8	25	70-130	
Chlorobenzene	5000	4600	92	8	25	70-130	
Chloroethane	5000	3730	75	11	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-6-10
TC

FORM III

GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44896.D

Lab ID: LCSD 360-48818/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	5000	4630	93	2	25	70-130	
Chloromethane	5000	4200	84	8	25	70-130	
cis-1,2-Dichloroethene	5000	4430	89	5	25	70-130	
cis-1,3-Dichloropropene	5000	4100	82	7	25	70-130	
Cyclohexane	5000	3950	79	2	25	70-130	
Chlorodibromomethane	5000	3980	80	7	25	70-130	
Dibromomethane	5000	4310	86	3	25	70-130	
Dichlorodifluoromethane	5000	1600	32	4	25	70-130	*
Ethyl ether	5000	4320	86	3	25	70-130	
Isopropyl ether	5000	4370	87	3	25	70-130	
Tert-butyl ethyl ether	5000	4470	89	0	25	70-130	
Ethylbenzene	5000	4720	94	9	25	70-130	
Hexachlorobutadiene	5000	4470	89	4	25	70-130	
Isopropylbenzene	5000	4710	94	6	25	70-130	
Methyl acetate	50000	83400	167	4	25	70-130	*
2-Butanone (MEK)	50000	42200	84	1	25	70-130	
4-Methyl-2-pentanone (MIBK)	50000	41200	82	0	25	70-130	
Methyl tert-butyl ether	5000	4310	86	2	25	70-130	
Methylcyclohexane	5000	4000	80	3	25	70-130	
Methylene Chloride	5000	5080	102	3	25	70-130	
m-Xylene & p-Xylene	10000	8970	90	8	25	70-130	
Naphthalene	5000	4680	94	6	25	70-130	
N-Propylbenzene	5000	4550	91	7	25	70-130	
o-Xylene	5000	4550	91	6	25	70-130	
4-Isopropyltoluene	5000	4870	97	4	25	70-130	
sec-Butylbenzene	5000	4650	93	5	25	70-130	
Styrene	5000	4570	91	7	25	70-130	
Tert-amyl methyl ether	5000	4510	90	1	25	70-130	
tert-Butylbenzene	5000	4800	96	6	25	70-130	
Tetrachloroethene	5000	4330	87	10	25	70-130	
Tetrahydrofuran	50000	48800	98	1	25	70-130	
Toluene	5000	4510	90	9	25	70-130	
trans-1,2-Dichloroethene	5000	4120	82	7	25	70-130	
trans-1,3-Dichloropropene	5000	4120	82	7	25	70-130	
Trichloroethene	5000	4510	90	8	25	70-130	
Trichlorofluoromethane	5000	3850	77	9	25	70-130	
Vinyl chloride	5000	3990	80	10	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-6-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44922.D

Lab ID: LCS 360-48877/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	87.9	88	70-130	
1,1,1,2-Tetrachloroethane	100	96.9	97	70-130	
1,1,2,2-Tetrachloroethane	100	87.2	87	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	88.3	88	70-130	
1,1,2-Trichloroethane	100	91.3	91	70-130	
1,1-Dichloroethane	100	95.0	95	70-130	
1,1-Dichloroethene	100	95.1	95	70-130	
1,1-Dichloropropene	100	90.0	90	70-130	
1,2,3-Trichlorobenzene	100	99.1	99	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	99.0	99	70-130	
1,2,4-Trimethylbenzene	100	92.0	92	70-130	
1,2-Dibromo-3-Chloropropane	100	90.6	91	70-130	
Ethylene Dibromide	100	93.3	93	70-130	
1,2-Dichlorobenzene	100	93.0	93	70-130	
1,2-Dichloroethane	100	89.2	89	70-130	
1,2-Dichloropropane	100	102	102	70-130	
1,3,5-Trimethylbenzene	100	95.5	95	70-130	
1,3-Dichlorobenzene	100	92.5	92	70-130	
1,3-Dichloropropane	100	89.5	90	70-130	
1,4-Dichlorobenzene	100	93.6	94	70-130	
1,4-Dioxane	1000	861	86	70-130	
2,2-Dichloropropane	100	103	103	70-130	
2,4,4-Trimethyl-1-pentene	100	102	102	70-130	
2,4,4-Trimethyl-2-pentene	100	95.3	95	70-130	
2-Chlorotoluene	100	91.7	92	70-130	
2-Hexanone	1000	811	81	70-130	
4-Chlorotoluene	100	93.1	93	70-130	
Acetone	1000	922	92	70-130	
Benzene	100	91.3	91	70-130	
Bromobenzene	100	89.3	89	70-130	
Chlorobromomethane	100	90.2	90	70-130	
Dichlorobromomethane	100	89.3	89	70-130	
Bromoform	100	84.9	85	70-130	
Bromomethane	100	94.5	95	70-130	
n-Butylbenzene	100	97.5	98	70-130	
Carbon disulfide	100	91.6	92	70-130	
Carbon tetrachloride	100	90.9	91	70-130	
Chlorobenzene	100	95.6	96	70-130	
Chloroethane	100	90.6	91	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44922.D

Lab ID: LCS 360-48877/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	95.3	95	70-130	
Chloromethane	100	83.1	83	70-130	
cis-1,2-Dichloroethene	100	90.4	90	70-130	
cis-1,3-Dichloropropene	100	89.6	90	70-130	
Cyclohexane	100	88.6	89	70-130	
Chlorodibromomethane	100	87.8	88	70-130	
Dibromomethane	100	91.1	91	70-130	
Dichlorodifluoromethane	100	57.8	58	70-130	*
Ethyl ether	100	96.8	97	70-130	
Isopropyl ether	100	88.4	88	70-130	
Tert-butyl ethyl ether	100	90.9	91	70-130	
Ethylbenzene	100	98.8	99	70-130	
Hexachlorobutadiene	100	96.0	96	70-130	
Isopropylbenzene	100	96.3	96	70-130	
Methyl acetate	1000	1040	104	70-130	
2-Butanone (MEK)	1000	842	84	70-130	
4-Methyl-2-pentanone (MIBK)	1000	849	85	70-130	
Methyl tert-butyl ether	100	87.2	87	70-130	
Methylcyclohexane	100	91.2	91	70-130	
Methylene Chloride	100	94.1	94	70-130	
m-Xylene & p-Xylene	200	187	93	70-130	
Naphthalene	100	88.4	88	70-130	
N-Propylbenzene	100	94.9	95	70-130	
o-Xylene	100	92.9	93	70-130	
4-Isopropyltoluene	100	99.6	100	70-130	
sec-Butylbenzene	100	96.3	96	70-130	
Styrene	100	92.8	93	70-130	
Tert-amyl methyl ether	100	91.5	91	70-130	
tert-Butylbenzene	100	98.0	98	70-130	
Tetrachloroethene	100	98.4	98	70-130	
Tetrahydrofuran	1000	1010	101	70-130	
Toluene	100	95.0	95	70-130	
trans-1,2-Dichloroethene	100	86.3	86	70-130	
trans-1,3-Dichloropropene	100	91.6	92	70-130	
Trichloroethene	100	95.2	95	70-130	
Trichlorofluoromethane	100	87.3	87	70-130	
Vinyl chloride	100	86.8	87	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44923.D

Lab ID: LCSD 360-48877/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	92.3	92	5	25	70-130	
1,1,1,2-Tetrachloroethane	100	104	104	7	25	70-130	
1,1,2,2-Tetrachloroethane	100	92.9	93	6	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	96.1	96	8	25	70-130	
1,1,2-Trichloroethane	100	97.2	97	6	25	70-130	
1,1-Dichloroethane	100	98.8	99	4	25	70-130	
1,1-Dichloroethene	100	100	100	5	25	70-130	
1,1-Dichloropropene	100	95.7	96	6	25	70-130	
1,2,3-Trichlorobenzene	100	112	112	13	25	70-130	
1,2,3-Trichloropropane	100	116	116	8	25	70-130	
1,2,4-Trichlorobenzene	100	109	109	10	25	70-130	
1,2,4-Trimethylbenzene	100	97.9	98	6	25	70-130	
1,2-Dibromo-3-Chloropropane	100	104	104	14	25	70-130	
Ethylene Dibromide	100	98.7	99	6	25	70-130	
1,2-Dichlorobenzene	100	98.9	99	6	25	70-130	
1,2-Dichloroethane	100	96.4	96	8	25	70-130	
1,2-Dichloropropane	100	106	106	3	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	6	25	70-130	
1,3-Dichlorobenzene	100	101	101	9	25	70-130	
1,3-Dichloropropane	100	95.2	95	6	25	70-130	
1,4-Dichlorobenzene	100	97.4	97	4	25	70-130	
1,4-Dioxane	1000	1030	103	18	25	70-130	
2,2-Dichloropropane	100	110	110	6	25	70-130	
2,4,4-Trimethyl-1-pentene	100	107	107	5	25	70-130	
2,4,4-Trimethyl-2-pentene	100	100	100	5	25	70-130	
2-Chlorotoluene	100	97.2	97	6	25	70-130	
2-Hexanone	1000	885	89	9	25	70-130	
4-Chlorotoluene	100	99.1	99	6	25	70-130	
Acetone	1000	1020	102	11	25	70-130	
Benzene	100	95.6	96	5	25	70-130	
Bromobenzene	100	95.6	96	7	25	70-130	
Chlorobromomethane	100	97.7	98	8	25	70-130	
Dichlorobromomethane	100	94.1	94	5	25	70-130	
Bromoform	100	88.6	89	4	25	70-130	
Bromomethane	100	100	100	6	25	70-130	
n-Butylbenzene	100	100	100	3	25	70-130	
Carbon disulfide	100	96.1	96	5	25	70-130	
Carbon tetrachloride	100	95.1	95	5	25	70-130	
Chlorobenzene	100	99.8	100	4	25	70-130	
Chloroethane	100	95.2	95	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44923.D

Lab ID: LCSD 360-48877/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	99.3	99	4	25	70-130	
Chloromethane	100	90.1	90	8	25	70-130	
cis-1,2-Dichloroethene	100	94.8	95	5	25	70-130	
cis-1,3-Dichloropropene	100	92.7	93	3	25	70-130	
Cyclohexane	100	90.9	91	3	25	70-130	
Chlorodibromomethane	100	92.7	93	5	25	70-130	
Dibromomethane	100	97.3	97	7	25	70-130	
Dichlorodifluoromethane	100	60.0	60	4	25	70-130	*
Ethyl ether	100	103	103	6	25	70-130	
Isopropyl ether	100	93.8	94	6	25	70-130	
Tert-butyl ethyl ether	100	97.7	98	7	25	70-130	
Ethylbenzene	100	103	103	4	25	70-130	
Hexachlorobutadiene	100	101	101	5	25	70-130	
Isopropylbenzene	100	101	101	5	25	70-130	
Methyl acetate	1000	1200	120	14	25	70-130	
2-Butanone (MEK)	1000	923	92	9	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	942	94	10	25	70-130	
Methyl tert-butyl ether	100	95.7	96	9	25	70-130	
Methylcyclohexane	100	95.3	95	4	25	70-130	
Methylene Chloride	100	99.7	100	6	25	70-130	
m-Xylene & p-Xylene	200	195	98	4	25	70-130	
Naphthalene	100	101	101	14	25	70-130	
N-Propylbenzene	100	99.3	99	5	25	70-130	
o-Xylene	100	97.5	98	5	25	70-130	
4-Isopropyltoluene	100	107	107	7	25	70-130	
sec-Butylbenzene	100	103	103	6	25	70-130	
Styrene	100	97.6	98	5	25	70-130	
Tert-amyl methyl ether	100	100	100	9	25	70-130	
tert-Butylbenzene	100	104	104	6	25	70-130	
Tetrachloroethene	100	102	102	4	25	70-130	
Tetrahydrofuran	1000	1110	111	9	25	70-130	
Toluene	100	98.7	99	4	25	70-130	
trans-1,2-Dichloroethene	100	91.0	91	5	25	70-130	
trans-1,3-Dichloropropene	100	94.9	95	4	25	70-130	
Trichloroethene	100	98.8	99	4	25	70-130	
Trichlorofluoromethane	100	92.2	92	5	25	70-130	
Vinyl chloride	100	91.0	91	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V45088.D

Lab ID: LCS 360-49099/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	84.2	84	70-130	
1,1,1,2-Tetrachloroethane	100	88.3	88	70-130	
1,1,2,2-Tetrachloroethane	100	82.3	82	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	84.8	85	70-130	
1,1,2-Trichloroethane	100	93.1	93	70-130	
1,1-Dichloroethane	100	88.4	88	70-130	
1,1-Dichloroethene	100	88.0	88	70-130	
1,1-Dichloropropene	100	91.5	92	70-130	
1,2,3-Trichlorobenzene	100	95.0	95	70-130	
1,2,3-Trichloropropane	100	93.0	93	70-130	
1,2,4-Trichlorobenzene	100	96.1	96	70-130	
1,2,4-Trimethylbenzene	100	82.6	83	70-130	
1,2-Dibromo-3-Chloropropane	100	84.7	85	70-130	
Ethylene Dibromide	100	93.1	93	70-130	
1,2-Dichlorobenzene	100	89.0	89	70-130	
1,2-Dichloroethane	100	89.2	89	70-130	
1,2-Dichloropropane	100	101	101	70-130	
1,3,5-Trimethylbenzene	100	86.7	87	70-130	
1,3-Dichlorobenzene	100	82.0	82	70-130	
1,3-Dichloropropane	100	93.6	94	70-130	
1,4-Dichlorobenzene	100	90.5	91	70-130	
1,4-Dioxane	1000	1030	103	70-130	
2,2-Dichloropropane	100	91.3	91	70-130	
2,4,4-Trimethyl-1-pentene	100	94.0	94	70-130	
2,4,4-Trimethyl-2-pentene	100	92.4	92	70-130	
2-Chlorotoluene	100	83.4	83	70-130	
2-Hexanone	1000	826	83	70-130	
4-Chlorotoluene	100	84.2	84	70-130	
Acetone	1000	800	80	70-130	
Benzene	100	91.0	91	70-130	
Bromobenzene	100	80.4	80	70-130	
Chlorobromomethane	100	84.7	85	70-130	
Dichlorobromomethane	100	90.9	91	70-130	
Bromoform	100	88.6	89	70-130	
Bromomethane	100	91.2	91	70-130	
n-Butylbenzene	100	96.3	96	70-130	
Carbon disulfide	100	82.3	82	70-130	
Carbon tetrachloride	100	87.5	88	70-130	
Chlorobenzene	100	94.9	95	70-130	
Chloroethane	100	82.4	82	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-6-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V45088.D

Lab ID: LCS 360-49099/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	87.4	87	70-130	
Chloromethane	100	79.1	79	70-130	
cis-1,2-Dichloroethene	100	84.7	85	70-130	
cis-1,3-Dichloropropene	100	94.8	95	70-130	
Cyclohexane	100	88.2	88	70-130	
Chlorodibromomethane	100	87.7	88	70-130	
Dibromomethane	100	90.1	90	70-130	
Dichlorodifluoromethane	100	51.2	51	70-130	*
Ethyl ether	100	88.0	88	70-130	
Isopropyl ether	100	79.5	79	70-130	
Tert-butyl ethyl ether	100	79.1	79	70-130	
Ethylbenzene	100	97.9	98	70-130	
Hexachlorobutadiene	100	100	100	70-130	
Isopropylbenzene	100	90.6	91	70-130	
Methyl acetate	1000	1070	107	70-130	
2-Butanone (MEK)	1000	834	83	70-130	
4-Methyl-2-pentanone (MIBK)	1000	799	80	70-130	
Methyl tert-butyl ether	100	76.3	76	70-130	
Methylcyclohexane	100	93.2	93	70-130	
Methylene Chloride	100	84.6	85	70-130	
m-Xylene & p-Xylene	200	181	91	70-130	
Naphthalene	100	84.0	84	70-130	
N-Propylbenzene	100	87.6	88	70-130	
o-Xylene	100	86.3	86	70-130	
4-Isopropyltoluene	100	89.6	90	70-130	
sec-Butylbenzene	100	87.8	88	70-130	
Styrene	100	87.8	88	70-130	
Tert-amyl methyl ether	100	80.9	81	70-130	
tert-Butylbenzene	100	89.1	89	70-130	
Tetrachloroethene	100	107	107	70-130	
Tetrahydrofuran	1000	960	96	70-130	
Toluene	100	99.7	100	70-130	
trans-1,2-Dichloroethene	100	79.3	79	70-130	
trans-1,3-Dichloropropene	100	97.1	97	70-130	
Trichloroethene	100	98.0	98	70-130	
Trichlorofluoromethane	100	84.0	84	70-130	
Vinyl chloride	100	80.7	81	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-6-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V45089.D

Lab ID: LCSD 360-49099/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	95.6	96	13	25	70-130	
1,1,1,2-Tetrachloroethane	100	104	104	16	25	70-130	
1,1,2,2-Tetrachloroethane	100	87.0	87	6	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	98.6	99	15	25	70-130	
1,1,2-Trichloroethane	100	91.7	92	2	25	70-130	
1,1-Dichloroethane	100	99.0	99	11	25	70-130	
1,1-Dichloroethene	100	100	100	13	25	70-130	
1,1-Dichloropropene	100	96.4	96	5	25	70-130	
1,2,3-Trichlorobenzene	100	99.4	99	5	25	70-130	
1,2,3-Trichloropropane	100	112	112	19	25	70-130	
1,2,4-Trichlorobenzene	100	99.8	100	4	25	70-130	
1,2,4-Trimethylbenzene	100	98.9	99	18	25	70-130	
1,2-Dibromo-3-Chloropropane	100	87.5	87	3	25	70-130	
Ethylene Dibromide	100	91.5	91	2	25	70-130	
1,2-Dichlorobenzene	100	94.3	94	6	25	70-130	
1,2-Dichloroethane	100	92.0	92	3	25	70-130	
1,2-Dichloropropane	100	105	105	3	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	16	25	70-130	
1,3-Dichlorobenzene	100	98.7	99	19	25	70-130	
1,3-Dichloropropane	100	89.1	89	5	25	70-130	
1,4-Dichlorobenzene	100	94.1	94	4	25	70-130	
1,4-Dioxane	1000	1190	119	15	25	70-130	
2,2-Dichloropropane	100	110	110	19	25	70-130	
2,4,4-Trimethyl-1-pentene	100	111	111	16	25	70-130	
2,4,4-Trimethyl-2-pentene	100	105	105	12	25	70-130	
2-Chlorotoluene	100	96.4	96	14	25	70-130	
2-Hexanone	1000	845	85	2	25	70-130	
4-Chlorotoluene	100	97.6	98	15	25	70-130	
Acetone	1000	839	84	5	25	70-130	
Benzene	100	96.5	96	6	25	70-130	
Bromobenzene	100	92.1	92	14	25	70-130	
Chlorobromomethane	100	92.6	93	9	25	70-130	
Dichlorobromomethane	100	90.4	90	1	25	70-130	
Bromoform	100	84.2	84	5	25	70-130	
Bromomethane	100	109	109	18	25	70-130	
n-Butylbenzene	100	101	101	4	25	70-130	
Carbon disulfide	100	95.2	95	15	25	70-130	
Carbon tetrachloride	100	98.9	99	12	25	70-130	
Chlorobenzene	100	99.0	99	4	25	70-130	
Chloroethane	100	100	100	20	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-6-10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V45089.D

Lab ID: LCSD 360-49099/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	97.9	98	11	25	70-130	
Chloromethane	100	95.5	95	19	25	70-130	
cis-1,2-Dichloroethene	100	95.2	95	12	25	70-130	
cis-1,3-Dichloropropene	100	89.0	89	6	25	70-130	
Cyclohexane	100	95.9	96	8	25	70-130	
Chlorodibromomethane	100	86.7	87	1	25	70-130	
Dibromomethane	100	92.7	93	3	25	70-130	
Dichlorodifluoromethane	100	64.9	65	24	25	70-130	*
Ethyl ether	100	96.5	96	9	25	70-130	
Isopropyl ether	100	91.4	91	14	25	70-130	
Tert-butyl ethyl ether	100	93.2	93	16	25	70-130	
Ethylbenzene	100	105	105	7	25	70-130	
Hexachlorobutadiene	100	101	101	0	25	70-130	
Isopropylbenzene	100	104	104	13	25	70-130	
Methyl acetate	1000	1140	114	7	25	70-130	
2-Butanone (MEK)	1000	928	93	11	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	916	92	14	25	70-130	
Methyl tert-butyl ether	100	91.0	91	18	25	70-130	
Methylcyclohexane	100	99.1	99	6	25	70-130	
Methylene Chloride	100	97.1	97	14	25	70-130	
m-Xylene & p-Xylene	200	197	99	8	25	70-130	
Naphthalene	100	88.4	88	5	25	70-130	
N-Propylbenzene	100	101	101	15	25	70-130	
o-Xylene	100	98.2	98	13	25	70-130	
4-Isopropyltoluene	100	107	107	18	25	70-130	
sec-Butylbenzene	100	105	105	18	25	70-130	
Styrene	100	95.1	95	8	25	70-130	
Tert-amyl methyl ether	100	95.3	95	16	25	70-130	
tert-Butylbenzene	100	106	106	17	25	70-130	
Tetrachloroethene	100	104	104	3	25	70-130	
Tetrahydrofuran	1000	1010	101	5	25	70-130	
Toluene	100	99.0	99	1	25	70-130	
trans-1,2-Dichloroethene	100	90.0	90	13	25	70-130	
trans-1,3-Dichloropropene	100	89.1	89	9	25	70-130	
Trichloroethene	100	102	102	4	25	70-130	
Trichlorofluoromethane	100	98.5	99	16	25	70-130	
Vinyl chloride	100	96.6	97	18	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-6-10
TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44869.D

Lab ID: 360-24444-2 MS Client ID: OC-SB-459-6.0/8.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5260	ND	5190	99	70-130	
1,1,1-Trichloroethane	5260	ND	4680	89	70-130	
1,1,2,2-Tetrachloroethane	5260	ND	4750	90	70-130	
1,1,2-Trichloro-1,2,2-trifluor oethane	5260	ND	4080	78	70-130	
1,1,2-Trichloroethane	5260	ND	4830	92	70-130	
1,1-Dichloroethane	5260	ND	5160	98	70-130	
1,1-Dichloroethene	5260	ND	4800	91	70-130	
1,1-Dichloropropene	5260	ND	4570	87	70-130	
1,2,3-Trichlorobenzene	5260	ND	4790	91	70-130	
1,2,3-Trichloropropane	5260	ND	6160	117	70-130	
1,2,4-Trichlorobenzene	5260	ND	4810	91	70-130	
1,2,4-Trimethylbenzene	5260	ND	5010	95	70-130	
1,2-Dibromo-3-Chloropropane	5260	ND	5060	96	70-130	
Ethylene Dibromide	5260	ND	4770	91	70-130	
1,2-Dichlorobenzene	5260	ND	4810	91	70-130	
1,2-Dichloroethane	5260	ND	4760	90	70-130	
Acetone	52600	ND	44400	84	70-130	
1,2-Dichloropropane	5260	ND	5400	103	70-130	
1,3,5-Trimethylbenzene	5260	ND	5250	100	70-130	
1,3-Dichlorobenzene	5260	ND	4970	94	70-130	
1,3-Dichloropropane	5260	ND	4680	89	70-130	
1,4-Dichlorobenzene	5260	ND	4930	94	70-130	
1,4-Dioxane	52600	ND	38400	73	70-130	
2,2-Dichloropropane	5260	ND	4680	89	70-130	
2,4,4-Trimethyl-1-pentene	5260	ND	5430	103	70-130	
2,4,4-Trimethyl-2-pentene	5260	94 J	4520	84	70-130	
2-Chlorotoluene	5260	ND	5010	95	70-130	
2-Hexanone	52600	ND	43400	82	70-130	
4-Chlorotoluene	5260	ND	5050	96	70-130	
Benzene	5260	ND	4770	91	70-130	
Bromobenzene	5260	ND	4960	94	70-130	
Chlorobromomethane	5260	ND	4840	92	70-130	
Dichlorobromomethane	5260	ND	4620	88	70-130	
Bromoform	5260	ND	4060	77	70-130	
Bromomethane	5260	ND	5450	103	70-130	
n-Butylbenzene	5260	ND	4870	92	70-130	
Carbon disulfide	5260	ND	4610	88	70-130	
Carbon tetrachloride	5260	ND	4400	84	70-130	
Chlorobenzene	5260	ND	5110	97	70-130	
Chloroethane	5260	ND	4340	82	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10 TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44869.D

Lab ID: 360-24444-2 MS Client ID: OC-SB-459-6.0/8.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloroform	5260	ND	5110	97	70-130	
Chloromethane	5260	ND	4720	90	70-130	
cis-1,2-Dichloroethene	5260	ND	4850	92	70-130	
cis-1,3-Dichloropropene	5260	ND	4410	84	70-130	
Cyclohexane	5260	ND	4530	86	70-130	
Chlorodibromomethane	5260	ND	4260	81	70-130	
Dibromomethane	5260	ND	4660	89	70-130	
Dichlorodifluoromethane	5260	ND	4530	86	70-130	
Ethyl ether	5260	ND	4940	94	70-130	
Isopropyl ether	5260	ND	4800	91	70-130	
Tert-butyl ethyl ether	5260	ND	4890	93	70-130	
Ethylbenzene	5260	ND	5280	100	70-130	
Hexachlorobutadiene	5260	ND	3920	74	70-130	
Isopropylbenzene	5260	ND	5220	99	70-130	
Methyl acetate	52600	ND	58500	111	70-130	
2-Butanone (MEK)	52600	ND	45800	87	70-130	
4-Methyl-2-pentanone (MIBK)	52600	ND	46500	88	70-130	
Methyl tert-butyl ether	5260	ND	4820	92	70-130	
Methylcyclohexane	5260	ND	4550	86	70-130	
Methylene Chloride	5260	ND	5880	112	70-130	
m-Xylene & p-Xylene	10500	ND	9970	95	70-130	
Naphthalene	5260	ND	4810	91	70-130	
N-Propylbenzene	5260	ND	5060	96	70-130	
o-Xylene	5260	ND	5010	95	70-130	
4-Isopropyltoluene	5260	ND	5270	100	70-130	
sec-Butylbenzene	5260	ND	5140	98	70-130	
Styrene	5260	ND	4940	94	70-130	
Tert-amyl methyl ether	5260	ND	5060	96	70-130	
tert-Butylbenzene	5260	ND	5390	102	70-130	
Tetrachloroethene	5260	ND	4680	89	70-130	
Tetrahydrofuran	52600	ND	54800	104	70-130	
Toluene	5260	ND	4860	92	70-130	
trans-1,2-Dichloroethene	5260	ND	4670	89	70-130	
trans-1,3-Dichloropropene	5260	ND	4480	85	70-130	
Trichloroethene	5260	ND	4890	93	70-130	
Trichlorofluoromethane	5260	ND	4260	81	70-130	
Vinyl chloride	5260	ND	4730	90	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4-6-10 TC

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44870.D

Lab ID: 360-24444-2 MSD Client ID: OC-SB-459-6.0/8.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5150	5570	108	7	30	70-130	
1,1,1-Trichloroethane	5150	5050	98	8	30	70-130	
1,1,2,2-Tetrachloroethane	5150	5160	100	8	30	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5150	4360	85	7	30	70-130	
1,1,2-Trichloroethane	5150	4890	95	1	30	70-130	
1,1-Dichloroethane	5150	5570	108	8	30	70-130	
1,1-Dichloroethene	5150	5230	101	8	30	70-130	
1,1-Dichloropropene	5150	4870	95	6	30	70-130	
1,2,3-Trichlorobenzene	5150	4930	96	3	30	70-130	
1,2,3-Trichloropropane	5150	6360	123	3	30	70-130	
1,2,4-Trichlorobenzene	5150	4930	96	3	30	70-130	
1,2,4-Trimethylbenzene	5150	5400	105	8	30	70-130	
1,2-Dibromo-3-Chloropropane	5150	5220	101	3	30	70-130	
Ethylene Dibromide	5150	4790	93	1	30	70-130	
1,2-Dichlorobenzene	5150	5100	99	6	30	70-130	
1,2-Dichloroethane	5150	5060	98	6	30	70-130	
Acetone	51500	56500	110	24	30	70-130	
1,2-Dichloropropane	5150	5720	111	6	30	70-130	
1,3,5-Trimethylbenzene	5150	5700	111	8	30	70-130	
1,3-Dichlorobenzene	5150	5200	101	5	30	70-130	
1,3-Dichloropropane	5150	4790	93	2	30	70-130	
1,4-Dichlorobenzene	5150	5260	102	7	30	70-130	
1,4-Dioxane	51500	53000	103	32	30	70-130	F
2,2-Dichloropropane	5150	5250	102	11	30	70-130	
2,4,4-Trimethyl-1-pentene	5150	5890	114	8	30	70-130	
2,4,4-Trimethyl-2-pentene	5150	4830	92	7	30	70-130	
2-Chlorotoluene	5150	5500	107	9	30	70-130	
2-Hexanone	51500	46200	90	6	30	70-130	
4-Chlorotoluene	5150	5470	106	8	30	70-130	
Benzene	5150	5120	99	7	30	70-130	
Bromobenzene	5150	5320	103	7	30	70-130	
Chlorobromomethane	5150	5100	99	5	30	70-130	
Dichlorobromomethane	5150	4760	92	3	30	70-130	
Bromoform	5150	4310	84	6	30	70-130	
Bromomethane	5150	6030	117	10	30	70-130	
n-Butylbenzene	5150	5270	102	8	30	70-130	
Carbon disulfide	5150	4990	97	8	30	70-130	
Carbon tetrachloride	5150	4780	93	8	30	70-130	
Chlorobenzene	5150	5440	106	6	30	70-130	
Chloroethane	5150	5050	98	15	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44870.D

Lab ID: 360-24444-2 MSD Client ID: OC-SB-459-6.0/8.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	5150	5380	104	5	30	70-130	
Chloromethane	5150	5440	106	14	30	70-130	
cis-1,2-Dichloroethene	5150	5200	101	7	30	70-130	
cis-1,3-Dichloropropene	5150	4580	89	4	30	70-130	
Cyclohexane	5150	4330	84	5	30	70-130	
Chlorodibromomethane	5150	4450	86	5	30	70-130	
Dibromomethane	5150	4820	93	3	30	70-130	
Dichlorodifluoromethane	5150	2880	56	44	30	70-130	F
Ethyl ether	5150	5230	101	6	30	70-130	
Isopropyl ether	5150	5150	100	7	30	70-130	
Tert-butyl ethyl ether	5150	5190	101	6	30	70-130	
Ethylbenzene	5150	5770	112	9	30	70-130	
Hexachlorobutadiene	5150	4070	79	4	30	70-130	
Isopropylbenzene	5150	5740	111	10	30	70-130	
Methyl acetate	51500	59800	116	2	30	70-130	
2-Butanone (MEK)	51500	49400	96	7	30	70-130	
4-Methyl-2-pentanone (MIBK)	51500	50100	97	7	30	70-130	
Methyl tert-butyl ether	5150	4980	97	3	30	70-130	
Methylcyclohexane	5150	4280	83	6	30	70-130	
Methylene Chloride	5150	6160	119	5	30	70-130	
m-Xylene & p-Xylene	10300	10900	106	9	30	70-130	
Naphthalene	5150	5160	100	7	30	70-130	
N-Propylbenzene	5150	5600	109	10	30	70-130	
o-Xylene	5150	5440	106	8	30	70-130	
4-Isopropyltoluene	5150	5630	109	6	30	70-130	
sec-Butylbenzene	5150	5580	108	8	30	70-130	
Styrene	5150	5390	105	9	30	70-130	
Tert-amyl methyl ether	5150	5250	102	4	30	70-130	
tert-Butylbenzene	5150	5760	112	7	30	70-130	
Tetrachloroethene	5150	4870	94	4	30	70-130	
Tetrahydrofuran	51500	56000	109	2	30	70-130	
Toluene	5150	5230	101	7	30	70-130	
trans-1,2-Dichloroethene	5150	5040	98	8	30	70-130	
trans-1,3-Dichloropropene	5150	4640	90	4	30	70-130	
Trichloroethene	5150	5210	101	6	30	70-130	
Trichlorofluoromethane	5150	4710	91	10	30	70-130	
Vinyl chloride	5150	5440	106	14	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44878.D

Lab ID: 360-24444-9 MS Client ID: OC-SB-467-6.0/8.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	93.8	ND	85.3	91	70-130	
1,1,1-Trichloroethane	93.8	ND	83.3	89	70-130	
1,1,2,2-Tetrachloroethane	93.8	ND	81.1	86	70-130	
1,1,2-Trichloro-1,2,2-trifluor oethane	93.8	ND	85.0	91	70-130	
1,1,2-Trichloroethane	93.8	ND	82.9	88	70-130	
1,1-Dichloroethane	93.8	ND	88.5	94	70-130	
1,1-Dichloroethene	93.8	ND	85.8	91	70-130	
1,1-Dichloropropene	93.8	ND	82.0	87	70-130	
1,2,3-Trichlorobenzene	93.8	ND	75.4	80	70-130	
1,2,3-Trichloropropane	93.8	ND	90.8	97	70-130	
1,2,4-Trichlorobenzene	93.8	ND	76.1	81	70-130	
1,2,4-Trimethylbenzene	93.8	ND	78.3	83	70-130	
1,2-Dibromo-3-Chloropropane	93.8	ND	82.1	87	70-130	
Ethylene Dibromide	93.8	ND	84.2	90	70-130	
1,2-Dichlorobenzene	93.8	ND	82.0	87	70-130	
1,2-Dichloroethane	93.8	ND	81.6	87	70-130	
Acetone	938	ND	841	90	70-130	
1,2-Dichloropropane	93.8	ND	94.4	101	70-130	
1,3,5-Trimethylbenzene	93.8	ND	81.8	87	70-130	
1,3-Dichlorobenzene	93.8	ND	76.3	81	70-130	
1,3-Dichloropropane	93.8	ND	82.0	87	70-130	
1,4-Dichlorobenzene	93.8	ND	83.4	89	70-130	
1,4-Dioxane	938	ND	1060	113	70-130	
2,2-Dichloropropane	93.8	ND	97.2	104	70-130	
2,4,4-Trimethyl-1-pentene	93.8	ND	91.9	98	70-130	
2,4,4-Trimethyl-2-pentene	93.8	ND	86.2	92	70-130	
2-Chlorotoluene	93.8	ND	78.0	83	70-130	
2-Hexanone	938	ND	750	80	70-130	
4-Chlorotoluene	93.8	ND	78.0	83	70-130	
Benzene	93.8	ND	84.1	90	70-130	
Bromobenzene	93.8	ND	76.7	82	70-130	
Chlorobromomethane	93.8	ND	82.6	88	70-130	
Dichlorobromomethane	93.8	ND	82.4	88	70-130	
Bromoform	93.8	ND	79.4	85	70-130	
Bromomethane	93.8	ND	90.4	96	70-130	
n-Butylbenzene	93.8	ND	82.8	88	70-130	
Carbon disulfide	93.8	ND	79.0	84	70-130	
Carbon tetrachloride	93.8	ND	84.2	90	70-130	
Chlorobenzene	93.8	ND	85.6	91	70-130	
Chloroethane	93.8	ND	84.1	90	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/6/10 TC

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44878.D

Lab ID: 360-24444-9 MS Client ID: OC-SB-467-6.0/8.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloroform	93.8	ND	88.7	95	70-130	
Chloromethane	93.8	ND	79.0	84	70-130	
cis-1,2-Dichloroethene	93.8	ND	82.7	88	70-130	
cis-1,3-Dichloropropene	93.8	ND	82.4	88	70-130	
Cyclohexane	93.8	ND	85.7	91	70-130	
Chlorodibromomethane	93.8	ND	79.9	85	70-130	
Dibromomethane	93.8	ND	79.1	84	70-130	
Dichlorodifluoromethane	93.8	ND	31.1	33	70-130	F
Ethyl ether	93.8	ND	87.1	93	70-130	
Isopropyl ether	93.8	ND	81.9	87	70-130	
Tert-butyl ethyl ether	93.8	ND	82.0	87	70-130	
Ethylbenzene	93.8	ND	87.2	93	70-130	
Hexachlorobutadiene	93.8	ND	72.2	77	70-130	
Isopropylbenzene	93.8	ND	83.6	89	70-130	
Methyl acetate	938	ND	968	103	70-130	
2-Butanone (MEK)	938	ND	753	80	70-130	
4-Methyl-2-pentanone (MIBK)	938	ND	767	82	70-130	
Methyl tert-butyl ether	93.8	ND	77.8	83	70-130	
Methylcyclohexane	93.8	ND	86.0	92	70-130	
Methylene Chloride	93.8	ND	93.8	100	70-130	
m-Xylene & p-Xylene	188	ND	165	88	70-130	
Naphthalene	93.8	ND	71.9	77	70-130	
N-Propylbenzene	93.8	ND	80.5	86	70-130	
o-Xylene	93.8	ND	81.1	86	70-130	
4-Isopropyltoluene	93.8	ND	82.8	88	70-130	
sec-Butylbenzene	93.8	ND	80.4	86	70-130	
Styrene	93.8	ND	81.2	87	70-130	
Tert-amyl methyl ether	93.8	ND	83.1	89	70-130	
tert-Butylbenzene	93.8	ND	85.0	91	70-130	
Tetrachloroethene	93.8	ND	89.1	95	70-130	
Tetrahydrofuran	938	7.4 J	893	94	70-130	
Toluene	93.8	ND	88.1	94	70-130	
trans-1,2-Dichloroethene	93.8	ND	78.5	84	70-130	
trans-1,3-Dichloropropene	93.8	ND	83.9	89	70-130	
Trichloroethene	93.8	ND	87.5	93	70-130	
Trichlorofluoromethane	93.8	ND	83.4	89	70-130	
Vinyl chloride	93.8	ND	80.3	86	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44879.D

Lab ID: 360-24444-9 MSD Client ID: OC-SB-467-6.0/8.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	101	99.7	99	15	30	70-130	
1,1,1-Trichloroethane	101	93.5	93	11	30	70-130	
1,1,2,2-Tetrachloroethane	101	89.0	88	9	30	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	101	94.9	94	11	30	70-130	
1,1,2-Trichloroethane	101	87.9	87	6	30	70-130	
1,1-Dichloroethane	101	99.1	98	11	30	70-130	
1,1-Dichloroethene	101	97.6	97	13	30	70-130	
1,1-Dichloropropene	101	90.4	89	10	30	70-130	
1,2,3-Trichlorobenzene	101	84.2	83	11	30	70-130	
1,2,3-Trichloropropane	101	105	104	15	30	70-130	
1,2,4-Trichlorobenzene	101	83.5	83	9	30	70-130	
1,2,4-Trimethylbenzene	101	92.9	92	17	30	70-130	
1,2-Dibromo-3-Chloropropane	101	84.0	83	2	30	70-130	
Ethylene Dibromide	101	87.0	86	3	30	70-130	
1,2-Dichlorobenzene	101	90.2	89	10	30	70-130	
1,2-Dichloroethane	101	88.6	88	8	30	70-130	
Acetone	1010	939	93	11	30	70-130	
1,2-Dichloropropane	101	102	101	8	30	70-130	
1,3,5-Trimethylbenzene	101	97.5	97	18	30	70-130	
1,3-Dichlorobenzene	101	90.9	90	17	30	70-130	
1,3-Dichloropropane	101	84.6	84	3	30	70-130	
1,4-Dichlorobenzene	101	91.3	90	9	30	70-130	
1,4-Dioxane	1010	920	91	15	30	70-130	
2,2-Dichloropropane	101	111	110	14	30	70-130	
2,4,4-Trimethyl-1-pentene	101	106	105	14	30	70-130	
2,4,4-Trimethyl-2-pentene	101	96.5	96	11	30	70-130	
2-Chlorotoluene	101	91.8	91	16	30	70-130	
2-Hexanone	1010	801	79	7	30	70-130	
4-Chlorotoluene	101	92.6	92	17	30	70-130	
Benzene	101	91.2	90	8	30	70-130	
Bromobenzene	101	90.7	90	17	30	70-130	
Chlorobromomethane	101	91.0	90	10	30	70-130	
Dichlorobromomethane	101	88.6	88	7	30	70-130	
Bromoform	101	81.4	81	2	30	70-130	
Bromomethane	101	103	102	13	30	70-130	
n-Butylbenzene	101	91.6	91	10	30	70-130	
Carbon disulfide	101	88.4	87	11	30	70-130	
Carbon tetrachloride	101	93.0	92	10	30	70-130	
Chlorobenzene	101	95.1	94	11	30	70-130	
Chloroethane	101	98.2	97	15	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Matrix: Solid Level: Low Lab File ID: V44879.D

Lab ID: 360-24444-9 MSD Client ID: OC-SB-467-6.0/8.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	101	95.1	94	7	30	70-130	
Chloromethane	101	90.6	90	14	30	70-130	
cis-1,2-Dichloroethene	101	92.6	92	11	30	70-130	
cis-1,3-Dichloropropene	101	84.8	84	3	30	70-130	
Cyclohexane	101	95.8	95	11	30	70-130	
Chlorodibromomethane	101	83.0	82	4	30	70-130	
Dibromomethane	101	85.6	85	8	30	70-130	
Dichlorodifluoromethane	101	37.7	37	19	30	70-130	F
Ethyl ether	101	95.2	94	9	30	70-130	
Isopropyl ether	101	92.7	92	12	30	70-130	
Tert-butyl ethyl ether	101	92.9	92	12	30	70-130	
Ethylbenzene	101	99.0	98	13	30	70-130	
Hexachlorobutadiene	101	77.4	77	7	30	70-130	
Isopropylbenzene	101	98.2	97	16	30	70-130	
Methyl acetate	1010	1060	105	9	30	70-130	
2-Butanone (MEK)	1010	838	83	11	30	70-130	
4-Methyl-2-pentanone (MIBK)	1010	861	85	11	30	70-130	
Methyl tert-butyl ether	101	87.1	86	11	30	70-130	
Methylcyclohexane	101	95.4	94	10	30	70-130	
Methylene Chloride	101	105	104	11	30	70-130	
m-Xylene & p-Xylene	202	187	92	13	30	70-130	
Naphthalene	101	81.0	80	12	30	70-130	
N-Propylbenzene	101	94.7	94	16	30	70-130	
o-Xylene	101	95.0	94	16	30	70-130	
4-Isopropyltoluene	101	99.2	98	18	30	70-130	
sec-Butylbenzene	101	96.8	96	18	30	70-130	
Styrene	101	92.0	91	12	30	70-130	
Tert-amyl methyl ether	101	94.0	93	12	30	70-130	
tert-Butylbenzene	101	101	100	17	30	70-130	
Tetrachloroethene	101	91.4	90	3	30	70-130	
Tetrahydrofuran	1010	997	98	11	30	70-130	
Toluene	101	92.8	92	5	30	70-130	
trans-1,2-Dichloroethene	101	87.7	87	11	30	70-130	
trans-1,3-Dichloropropene	101	85.6	85	2	30	70-130	
Trichloroethene	101	93.8	93	7	30	70-130	
Trichlorofluoromethane	101	94.2	93	12	30	70-130	
Vinyl chloride	101	91.6	91	13	30	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48826/2 Date Analyzed: 09/10/2009 16:46

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06850.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22553	6.15	456604	6.46	237206	9.52
UPPER LIMIT		45106	6.65	913208	6.96	474412	10.02
LOWER LIMIT		11277	5.65	228302	5.96	118603	9.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48826/3		23633	6.15	464016	6.46	246903	9.52
LCSD 360-48826/4		22666	6.15	451313	6.46	239329	9.52
MB 360-48826/6		20315	6.15	383387	6.46	194050	9.52
360-24444-16	OC-EBK-007	20298	6.15	352567	6.47	185176	9.52

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/6/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48826/2 Date Analyzed: 09/10/2009 16:46

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06850.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		108891	11.49				
UPPER LIMIT		217782	11.99				
LOWER LIMIT		54446	10.99				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48826/3		111797	11.49				
LCSD 360-48826/4		107713	11.49				
MB 360-48826/6		74064	11.49				
360-24444-16	OC-EBK-007	69980	11.49				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/6/10

FORM VIII 8260B

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48716/2 Date Analyzed: 09/09/2009 05:40

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44822.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20427	5.65	478011	5.87	283175	8.32
UPPER LIMIT		40854	6.15	956022	6.37	566350	8.82
LOWER LIMIT		10214	5.15	239006	5.37	141588	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48715/1-A		19859	5.64	474711	5.87	279446	8.31
LCSD 360-48715/2-A		19516	5.64	459828	5.87	269008	8.31
MB 360-48715/3-A		19260	5.64	449298	5.87	264275	8.31
360-24444-1	OC-SB-459-6.0/8.0-DUP	22464	5.65	511223	5.87	311697	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/6/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48716/2 Date Analyzed: 09/09/2009 05:40

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44822.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		132188	10.13				
UPPER LIMIT		264376	10.63				
LOWER LIMIT		66094	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48715/1-A		131583	10.13				
LCSD 360-48715/2-A		129157	10.13				
MB 360-48715/3-A		129582	10.13				
360-24444-1	OC-SB-459-6.0/8.0-DUP	136292	10.12				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC
4/6/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48767/2 Date Analyzed: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44837.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		26071	5.64	540044	5.87	336855	8.32
UPPER LIMIT		52142	6.14	1080088	6.37	673710	8.82
LOWER LIMIT		13036	5.14	270022	5.37	168428	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48765/1-A		21452	5.65	486594	5.88	302398	8.32
LCSD 360-48765/2-A		21186	5.64	479122	5.87	293982	8.31
MB 360-48765/3-A		18618	5.64	430407	5.87	264758	8.31
360-24444-5	OC-SB-462-4.0/6.0-XXX	20032	5.63	439169	5.86	260588	8.31

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/6/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48767/2 Date Analyzed: 09/09/2009 16:42

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44837.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		152815	10.13				
UPPER LIMIT		305630	10.63				
LOWER LIMIT		76408	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48765/1-A		140892	10.13				
LCSD 360-48765/2-A		139060	10.12				
MB 360-48765/3-A		131728	10.12				
360-24444-5	OC-SB-462-4.0/6.0-XXX	127325	10.12				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/6/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48773/2 Date Analyzed: 09/09/2009 22:17

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44851.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20473	5.64	495248	5.86	300568	8.31
UPPER LIMIT		40946	6.14	990496	6.36	601136	8.81
LOWER LIMIT		10237	5.14	247624	5.36	150284	7.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48769/1-A		19692	5.63	477160	5.86	276391	8.31
LCSD 360-48769/2-A		22352	5.63	499916	5.87	306944	8.31
MB 360-48769/3-A		19951	5.63	463645	5.86	278401	8.31
360-24444-2	OC-SB-459-6.0/8.0-XXX	17516	5.63	407983	5.86	246284	8.31
360-24444-2 MS	OC-SB-459-6.0/8.0-XXX MS	18681	5.63	436320	5.86	258339	8.30
360-24444-2 MSD	OC-SB-459-6.0/8.0-XXX MSD	17203	5.62	419506	5.85	243298	8.30

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

4/6/10 TC

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48773/2 Date Analyzed: 09/09/2009 22:17

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44851.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		136400	10.12				
UPPER LIMIT		272800	10.62				
LOWER LIMIT		68200	9.62				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48769/1-A		132707	10.11				
LCSD 360-48769/2-A		137655	10.12				
MB 360-48769/3-A		128058	10.12				
360-24444-2	OC-SB-459-6.0/8.0-XXX	121522	10.11				
360-24444-2 MS	OC-SB-459-6.0/8.0-XXX MS	122158	10.11				
360-24444-2 MSD	OC-SB-459-6.0/8.0-XXX MSD	113395	10.11				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/6/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48816/2 Date Analyzed: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44875.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		21627	5.63	499947	5.86	309826	8.31
UPPER LIMIT		43254	6.13	999894	6.36	619652	8.81
LOWER LIMIT		10814	5.13	249974	5.36	154913	7.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48815/1-A		19979	5.64	481094	5.86	293648	8.31
LCSD 360-48815/2-A		20323	5.63	467613	5.86	297803	8.30
360-24444-9 MS	OC-SB-467-6.0/8.0-XXX MS	20663	5.63	481374	5.86	302823	8.30
360-24444-9 MSD	OC-SB-467-6.0/8.0-XXX MSD	20960	5.63	456904	5.86	270059	8.30
MB 360-48815/3-A		18034	5.62	410806	5.86	247259	8.30
360-24444-8	OC-SB-467-6.0/8.0-DUP	20006	5.62	477875	5.85	279838	8.30
360-24444-9	OC-SB-467-6.0/8.0-XXX	18090	5.63	428611	5.86	253062	8.30

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/6/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48816/2 Date Analyzed: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44875.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		139895	10.11				
UPPER LIMIT		279790	10.61				
LOWER LIMIT		69948	9.61				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48815/1-A		130298	10.11				
LCSD 360-48815/2-A		135751	10.11				
360-24444-9 MS	OC-SB-467-6.0/8.0-XXX MS	127492	10.11				
360-24444-9 MSD	OC-SB-467-6.0/8.0-XXX MSD	124440	10.11				
MB 360-48815/3-A		124253	10.11				
360-24444-8	OC-SB-467-6.0/8.0-DUP	124675	10.11				
360-24444-9	OC-SB-467-6.0/8.0-XXX	120685	10.11				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/6/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48819/2 Date Analyzed: 09/10/2009 23:39

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44894.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20127	5.63	472712	5.86	292585	8.30
UPPER LIMIT		40254	6.13	945424	6.36	585170	8.80
LOWER LIMIT		10064	5.13	236356	5.36	146293	7.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48818/1-A		19346	5.63	471536	5.86	281392	8.30
LCSD 360-48818/2-A		19716	5.63	467386	5.85	277626	8.30
MB 360-48818/3-A		19580	5.63	460931	5.86	277536	8.30
360-24444-12	OC-SB-459-0.0/1.0-XXX	19835	5.63	445041	5.86	272830	8.31

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/6/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48819/2 Date Analyzed: 09/10/2009 23:39

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44894.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		130668	10.11				
UPPER LIMIT		261336	10.61				
LOWER LIMIT		65334	9.61				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48818/1-A		124887	10.11				
LCSD 360-48818/2-A		130826	10.11				
MB 360-48818/3-A		123998	10.11				
360-24444-12	OC-SB-459-0.0/1.0-XXX	134451	10.12				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/6/10

FORM VIII 8260B

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48878/2 Date Analyzed: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44921.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22279	5.67	477588	5.89	286880	8.33
UPPER LIMIT		44558	6.17	955176	6.39	573760	8.83
LOWER LIMIT		11140	5.17	238794	5.39	143440	7.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48877/1-A		22284	5.67	482795	5.89	294219	8.33
LCSD 360-48877/2-A		22745	5.67	479756	5.89	288925	8.33
MB 360-48877/3-A		17141	5.66	394856	5.89	236414	8.33
360-24444-3	OC-SB-462-0.0/1.0-XXX	18454	5.66	420018	5.89	252395	8.33
360-24444-10	OC-TBK-013	20981	5.67	486757	5.89	290135	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/6/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-48878/2 Date Analyzed: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44921.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		133935	10.14				
UPPER LIMIT		267870	10.64				
LOWER LIMIT		66968	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48877/1-A		133940	10.13				
LCSD 360-48877/2-A		139063	10.14				
MB 360-48877/3-A		117984	10.13				
360-24444-3	OC-SB-462-0.0/1.0-XXX	114111	10.13				
360-24444-10	OC-TBK-013	122136	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/6/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-49101/2 Date Analyzed: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45087.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		18578	5.65	452876	5.87	273923	8.31
UPPER LIMIT		37156	6.15	905752	6.37	547846	8.81
LOWER LIMIT		9289	5.15	226438	5.37	136962	7.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49099/1-A		24679	5.65	581810	5.88	361040	8.32
LCSD 360-49099/2-A		19649	5.64	463552	5.88	274516	8.32
MB 360-49099/3-A		18225	5.65	425927	5.88	251888	8.31
360-24444-4	OC-SB-462-31/33-XXX	21821	5.65	500332	5.88	303486	8.32
360-24444-7	OC-SB-467-30/32-XXX	17965	5.65	418130	5.88	243542	8.32
360-24444-13	OC-SB-459-26/28-XXX	19386	5.66	439731	5.88	264387	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/6/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24444-1

SDG No.: OCRI-11

Sample No.: CCVIS 360-49101/2 Date Analyzed: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45087.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		123204	10.12				
UPPER LIMIT		246408	10.62				
LOWER LIMIT		61602	9.62				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49099/1-A		150558	10.12				
LCSD 360-49099/2-A		132959	10.13				
MB 360-49099/3-A		126147	10.12				
360-24444-4	OC-SB-462-31/33-XXX	128323	10.13				
360-24444-7	OC-SB-467-30/32-XXX	119991	10.13				
360-24444-13	OC-SB-459-26/28-XXX	122621	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/6/10

FORM VIII 8260B

OC RI-12

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / II / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360 244541

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES NO NA	
Data completeness ☑ ☐ ☐ All data summaries, QC forms and raw data available from hard copy or electronic data package ☑ ☐ ☐ Data summaries match EDD	Contact lab if missing data. Lab to respond with 24 hours.
Holding Times and Preservation ☑ ☐ ☐ Hold times met (14 days with preservation) ☑ ☐ ☐ Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune) ☑ ☐ ☐ Tune available for each 12-hour period samples were analyzed ☑ ☐ ☐ Appropriate number of significant figures reported (at least 2) ☑ ☐ ☐ Mass/Charge list (m/z) criteria met	
Initial Calibration ☑ ☐ ☐ %RSD less than or equal to 30% ☐ ☑ ☐ RRF greater than or equal to 0.05	UJ Dioxane-1,4 UJ Acetone → Ical 9/08/09 HP#1
Continuing Calibration ☐ ☑ ☐ %D less than or equal to 25% ☑ ☐ ☐ RRF greater than or equal to 0.05.	→ see attached Form 3's 5
Blank Contamination ☑ ☐ ☐ Method blank contamination ☐ ☐ ☐ Trip blank contamination ☐ ☐ ☐ Equipment/Rinseate blank contamination	Evaluate all blanks for contamination. Highest contaminant level used for action level. → see Form 5 Only Meclz no detects in samples no Quals

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes No N/A — TIER I / II / III (circle one)

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples ☐ ☐ ☑ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☐ ☐ ☑ MS/MSD RPD criteria met (water and soil <30%) ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	} Not in this data Package → See attached Form 5's
Field Duplicates ☐ ☐ ☑ RPD criteria (water <30%, soils <50%) met	Not in this data package
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: Liz Lee

Date: 4/7/10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-461-28/30-XXX**

Lab Sample ID: 360-24454-2
Client Matrix: Solid % Moisture: 6.4

Date Sampled: 09/03/2009 1650
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/17/2009 2210
Date Prepared: 09/17/2009 1218

Analysis Batch: 360-49101
Prep Batch: 360-49099

Instrument ID: HP #1 GC/MS
Lab File ID: V45108.D
Initial Weight/Volume: 6.01 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.89	2.2
1,1,1-Trichloroethane		ND		0.89	2.2
1,1,2,2-Tetrachloroethane		ND		0.89	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.89	11
1,1,2-Trichloroethane		ND		0.89	2.2
1,1-Dichloroethane		ND		0.89	2.2
1,1-Dichloroethene		ND		0.89	2.2
1,1-Dichloropropene		ND		0.89	2.2
1,2,3-Trichlorobenzene		ND		0.89	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.89	2.2
1,2,4-Trimethylbenzene		ND		0.89	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.89	2.2
1,2-Dichlorobenzene		ND		0.89	2.2
1,2-Dichloroethane		ND		0.89	2.2
Acetone		ND	J	16	220
1,2-Dichloropropane		ND		0.89	2.2
1,3,5-Trimethylbenzene		ND		0.89	2.2
1,3-Dichlorobenzene		ND		0.89	2.2
1,3-Dichloropropane		ND		0.89	2.2
1,4-Dichlorobenzene		ND		0.89	2.2
1,4-Dioxane		ND	J	29	220
2,2-Dichloropropane		ND		0.89	2.2
2,4,4-Trimethyl-1-pentene		ND		0.89	4.4
2,4,4-Trimethyl-2-pentene		ND		0.89	4.4
2-Chlorotoluene		ND		0.89	2.2
2-Hexanone		ND		4.6	22
4-Chlorotoluene		ND		0.89	2.2
Benzene		ND		0.89	2.2
Bromobenzene		ND		0.89	2.2
Chlorobromomethane		ND		0.89	2.2
Dichlorobromomethane		ND		0.89	2.2
Bromoform		ND		0.89	2.2
Bromomethane		ND		0.89	4.4
n-Butylbenzene		ND		0.89	2.2
Carbon disulfide		ND		0.89	2.2
Carbon tetrachloride		ND		0.89	2.2
Chlorobenzene		ND		0.89	2.2
Chloroethane		ND		0.89	4.4
Chloroform		ND		0.89	2.2
Chloromethane		ND		0.89	4.4
cis-1,2-Dichloroethene		ND		0.89	2.2
cis-1,3-Dichloropropene		ND		0.89	2.2
Cyclohexane		ND		2.3	22
Chlorodibromomethane		ND		0.89	2.2

4/7/10 TE

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-461-28/30-XXX**

Lab Sample ID: 360-24454-2
Client Matrix: Solid % Moisture: 6.4

Date Sampled: 09/03/2009 1650
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45108.D
Dilution:	1.0			Initial Weight/Volume:	6.01 g
Date Analyzed:	09/17/2009 2210			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.89	2.2
Dichlorodifluoromethane		ND J		0.89	4.4
Ethyl ether		ND		0.89	2.2
Isopropyl ether		ND		0.89	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.89	2.2
Hexachlorobutadiene		ND		0.89	2.2
Isopropylbenzene		ND		0.89	2.2
Methyl acetate		ND		14	44
2-Butanone (MEK)		ND		6.0	22
4-Methyl-2-pentanone (MIBK)		ND		4.6	22
Methyl tert-butyl ether		ND		0.89	2.2
Methylcyclohexane		ND		0.89	2.2
Methylene Chloride		ND		4.3	8.9
m-Xylene & p-Xylene		ND		0.89	4.4
Naphthalene		ND		0.89	22
N-Propylbenzene		ND		0.89	2.2
o-Xylene		ND		0.89	2.2
4-Isopropyltoluene		ND		0.89	2.2
sec-Butylbenzene		ND		0.89	2.2
Styrene		ND		0.89	2.2
Tert-amyl methyl ether		ND		0.89	2.2
tert-Butylbenzene		ND		0.89	2.2
Tetrachloroethene		ND		0.89	2.2
Tetrahydrofuran		ND		4.9	22
Toluene		ND		0.89	2.2
trans-1,2-Dichloroethene		ND		0.89	2.2
trans-1,3-Dichloropropene		ND		0.89	2.2
Trichloroethene		ND		0.89	2.2
Trichlorofluoromethane		ND		0.89	4.4
Vinyl chloride		ND		0.89	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	105		70 - 130

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-461-28/30-XXX**

Lab Sample ID: 360-24454-2
Client Matrix: Solid % Moisture: 6.4

Date Sampled: 09/03/2009 1650
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45108.D
Dilution:	1.0			Initial Weight/Volume:	6.01 g
Date Analyzed:	09/17/2009 2210			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	16.39	1.7	T J

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-461-5.0/7.0-XXX**

Lab Sample ID: 360-24454-3
Client Matrix: Solid % Moisture: 14.6

Date Sampled: 09/03/2009 1430
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44890.D
Dilution:	1.0			Initial Weight/Volume:	5.94 g
Date Analyzed:	09/10/2009 2203			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	4.9
2,4,4-Trimethyl-2-pentene		ND		0.99	4.9
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	4.9
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	4.9
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	4.9
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND		2.5	25
Chlorodibromomethane		ND		0.99	2.5

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Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-461-5.0/7.0-XXX**

Lab Sample ID: 360-24454-3
Client Matrix: Solid % Moisture: 14.6

Date Sampled: 09/03/2009 1430
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44890.D
Dilution:	1.0			Initial Weight/Volume:	5.94 g
Date Analyzed:	09/10/2009 2203			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND J		0.99	4.9
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND J		16	49
2-Butanone (MEK)		ND		6.6	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	4.9
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		7.0	J	5.4	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	4.9
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	100		70 - 130

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Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-461-5.0/7.0-XXX**

Lab Sample ID: 360-24454-3
Client Matrix: Solid % Moisture: 14.6

Date Sampled: 09/03/2009 1430
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44890.D
Dilution:	1.0			Initial Weight/Volume:	5.94 g
Date Analyzed:	09/10/2009 2203			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.64	1.3	T J

TC
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Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-470-0.0/1.0-XXX**

Lab Sample ID: 360-24454-4
Client Matrix: Solid % Moisture: 9.7

Date Sampled: 09/04/2009 1015
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44935.D
Dilution:	1.0			Initial Weight/Volume:	5.59 g
Date Analyzed:	09/12/2009 1807			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	5.0
2,4,4-Trimethyl-2-pentene		ND		0.99	5.0
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	5.0
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	5.0
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	5.0
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		0.99	2.5

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Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-470-0.0/1.0-XXX**

Lab Sample ID: 360-24454-4
Client Matrix: Solid % Moisture: 9.7

Date Sampled: 09/04/2009 1015
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44935.D
Dilution:	1.0			Initial Weight/Volume:	5.59 g
Date Analyzed:	09/12/2009 1807			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND J		0.99	5.0
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	5.0
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		9.0	J	5.5	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	5.0
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

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Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-470-0.0/1.0-XXX**

Lab Sample ID: 360-24454-4
Client Matrix: Solid % Moisture: 9.7

Date Sampled: 09/04/2009 1015
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44935.D
Dilution:	1.0			Initial Weight/Volume:	5.59 g
Date Analyzed:	09/12/2009 1807			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
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Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-470-31/33-XXX**

Lab Sample ID: 360-24454-5
Client Matrix: Solid % Moisture: 10.1

Date Sampled: 09/04/2009 1120
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45109.D
Dilution:	1.0			Initial Weight/Volume:	5.88 g
Date Analyzed:	09/17/2009 2234			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.95	2.4
1,1,1-Trichloroethane		ND		0.95	2.4
1,1,2,2-Tetrachloroethane		ND		0.95	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.95	12
1,1,2-Trichloroethane		ND		0.95	2.4
1,1-Dichloroethane		ND		0.95	2.4
1,1-Dichloroethene		ND		0.95	2.4
1,1-Dichloropropene		ND		0.95	2.4
1,2,3-Trichlorobenzene		ND		0.95	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.95	2.4
1,2,4-Trimethylbenzene		ND		0.95	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.95	2.4
1,2-Dichlorobenzene		ND		0.95	2.4
1,2-Dichloroethane		ND		0.95	2.4
Acetone		ND	J	17	240
1,2-Dichloropropane		ND		0.95	2.4
1,3,5-Trimethylbenzene		ND		0.95	2.4
1,3-Dichlorobenzene		ND		0.95	2.4
1,3-Dichloropropane		ND		0.95	2.4
1,4-Dichlorobenzene		ND		0.95	2.4
1,4-Dioxane		ND	J	31	240
2,2-Dichloropropane		ND		0.95	2.4
2,4,4-Trimethyl-1-pentene		ND		0.95	4.7
2,4,4-Trimethyl-2-pentene		ND		0.95	4.7
2-Chlorotoluene		ND		0.95	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.95	2.4
Benzene		ND		0.95	2.4
Bromobenzene		ND		0.95	2.4
Chlorobromomethane		ND		0.95	2.4
Dichlorobromomethane		ND		0.95	2.4
Bromoform		ND		0.95	2.4
Bromomethane		ND		0.95	4.7
n-Butylbenzene		ND		0.95	2.4
Carbon disulfide		ND		0.95	2.4
Carbon tetrachloride		ND		0.95	2.4
Chlorobenzene		ND		0.95	2.4
Chloroethane		ND		0.95	4.7
Chloroform		ND		0.95	2.4
Chloromethane		ND		0.95	4.7
cis-1,2-Dichloroethene		ND		0.95	2.4
cis-1,3-Dichloropropene		ND		0.95	2.4
Cyclohexane		ND		2.4	24
Chlorodibromomethane		ND		0.95	2.4

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Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-470-31/33-XXX**

Lab Sample ID: 360-24454-5
Client Matrix: Solid % Moisture: 10.1

Date Sampled: 09/04/2009 1120
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/17/2009 2234
Date Prepared: 09/17/2009 1218

Analysis Batch: 360-49101
Prep Batch: 360-49099

Instrument ID: HP #1 GC/MS
Lab File ID: V45109.D
Initial Weight/Volume: 5.88 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.95	2.4
Dichlorodifluoromethane		ND J		0.95	4.7
Ethyl ether		ND		0.95	2.4
Isopropyl ether		ND		0.95	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.95	2.4
Hexachlorobutadiene		ND		0.95	2.4
Isopropylbenzene		ND		0.95	2.4
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.95	2.4
Methylcyclohexane		ND		0.95	2.4
Methylene Chloride		ND		4.6	9.5
m-Xylene & p-Xylene		ND		0.95	4.7
Naphthalene		ND		0.95	24
N-Propylbenzene		ND		0.95	2.4
o-Xylene		ND		0.95	2.4
4-Isopropyltoluene		ND		0.95	2.4
sec-Butylbenzene		ND		0.95	2.4
Styrene		ND		0.95	2.4
Tert-amyl methyl ether		ND		0.95	2.4
tert-Butylbenzene		ND		0.95	2.4
Tetrachloroethene		ND		0.95	2.4
Tetrahydrofuran		ND		5.2	24
Toluene		ND		0.95	2.4
trans-1,2-Dichloroethene		ND		0.95	2.4
trans-1,3-Dichloropropene		ND		0.95	2.4
Trichloroethene		ND		0.95	2.4
Trichlorofluoromethane		ND		0.95	4.7
Vinyl chloride		ND		0.95	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-470-31/33-XXX**

Lab Sample ID: 360-24454-5
Client Matrix: Solid % Moisture: 10.1

Date Sampled: 09/04/2009 1120
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45109.D
Dilution:	1.0			Initial Weight/Volume:	5.88 g
Date Analyzed:	09/17/2009 2234			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	16.39	1.0	T J

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-470-7.0/9.0-XXX**

Lab Sample ID: 360-24454-6
Client Matrix: Solid % Moisture: 4.7

Date Sampled: 09/04/2009 1020
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44891.D
Dilution:	1.0			Initial Weight/Volume:	4.98 g
Date Analyzed:	09/10/2009 2227			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.6
1,1,1-Trichloroethane		ND		1.1	2.6
1,1,2,2-Tetrachloroethane		ND		1.1	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.6
1,1-Dichloroethane		ND		1.1	2.6
1,1-Dichloroethene		ND		1.1	2.6
1,1-Dichloropropene		ND		1.1	2.6
1,2,3-Trichlorobenzene		ND		1.1	2.6
1,2,3-Trichloropropane		ND		1.6	2.6
1,2,4-Trichlorobenzene		ND		1.1	2.6
1,2,4-Trimethylbenzene		ND		1.1	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.1	2.6
1,2-Dichlorobenzene		ND		1.1	2.6
1,2-Dichloroethane		ND		1.1	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.1	2.6
1,3,5-Trimethylbenzene		ND		1.1	2.6
1,3-Dichlorobenzene		ND		1.1	2.6
1,3-Dichloropropane		ND		1.1	2.6
1,4-Dichlorobenzene		ND		1.1	2.6
1,4-Dioxane		ND	J	35	260
2,2-Dichloropropane		ND		1.1	2.6
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.1	2.6
Benzene		ND		1.1	2.6
Bromobenzene		ND		1.1	2.6
Chlorobromomethane		ND		1.1	2.6
Dichlorobromomethane		ND		1.1	2.6
Bromoform		ND		1.1	2.6
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.6
Carbon disulfide		ND		1.1	2.6
Carbon tetrachloride		ND		1.1	2.6
Chlorobenzene		ND		1.1	2.6
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.6
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.6
cis-1,3-Dichloropropene		ND		1.1	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.1	2.6

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-470-7.0/9.0-XXX**

Lab Sample ID: 360-24454-6
Client Matrix: Solid % Moisture: 4.7

Date Sampled: 09/04/2009 1020
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44891.D
Dilution:	1.0			Initial Weight/Volume:	4.98 g
Date Analyzed:	09/10/2009 2227			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.6
Dichlorodifluoromethane		ND J		1.1	5.3
Ethyl ether		ND		1.1	2.6
Isopropyl ether		ND		1.1	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.1	2.6
Hexachlorobutadiene		ND		1.1	2.6
Isopropylbenzene		ND		1.1	2.6
Methyl acetate		ND J		17	53
2-Butanone (MEK)		ND		7.1	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.1	2.6
Methylcyclohexane		ND		1.1	2.6
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	26
N-Propylbenzene		ND		1.1	2.6
o-Xylene		ND		1.1	2.6
4-Isopropyltoluene		ND		1.1	2.6
sec-Butylbenzene		ND		1.1	2.6
Styrene		ND		1.1	2.6
Tert-amyl methyl ether		ND		1.1	2.6
tert-Butylbenzene		ND		1.1	2.6
Tetrachloroethene		ND		1.1	2.6
Tetrahydrofuran		7.8	J	5.8	26
Toluene		ND		1.1	2.6
trans-1,2-Dichloroethene		ND		1.1	2.6
trans-1,3-Dichloropropene		ND		1.1	2.6
Trichloroethene		ND		1.1	2.6
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TS 4/4/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-470-7.0/9.0-XXX**

Lab Sample ID: 360-24454-6
Client Matrix: Solid % Moisture: 4.7

Date Sampled: 09/04/2009 1020
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48816		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48815		Lab File ID:	V44891.D
Dilution:	1.0			Initial Weight/Volume:	4.98 g
Date Analyzed:	09/10/2009 2227			Final Weight/Volume:	5 g
Date Prepared:	09/10/2009 1440				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	12.77	2.7	T J

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-472-0.0/1.0-XXX**

Lab Sample ID: 360-24454-7
Client Matrix: Solid % Moisture: 7.0

Date Sampled: 09/04/2009 0745
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44936.D
Dilution:	1.0			Initial Weight/Volume:	4.83 g
Date Analyzed:	09/12/2009 1831			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.8
1,1,1-Trichloroethane		ND		1.1	2.8
1,1,2,2-Tetrachloroethane		ND		1.1	2.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.8
1,1-Dichloroethane		ND		1.1	2.8
1,1-Dichloroethene		ND		1.1	2.8
1,1-Dichloropropene		ND		1.1	2.8
1,2,3-Trichlorobenzene		ND		1.1	2.8
1,2,3-Trichloropropane		ND		1.6	2.8
1,2,4-Trichlorobenzene		ND		1.1	2.8
1,2,4-Trimethylbenzene		ND		1.1	2.8
1,2-Dibromo-3-Chloropropane		ND		2.0	28
Ethylene Dibromide		ND		1.1	2.8
1,2-Dichlorobenzene		ND		1.1	2.8
1,2-Dichloroethane		ND		1.1	2.8
Acetone		ND	J	20	280
1,2-Dichloropropane		ND		1.1	2.8
1,3,5-Trimethylbenzene		ND		1.1	2.8
1,3-Dichlorobenzene		ND		1.1	2.8
1,3-Dichloropropane		ND		1.1	2.8
1,4-Dichlorobenzene		ND		1.1	2.8
1,4-Dioxane		ND	J	37	280
2,2-Dichloropropane		ND		1.1	2.8
2,4,4-Trimethyl-1-pentene		ND		1.1	5.6
2,4,4-Trimethyl-2-pentene		ND		1.1	5.6
2-Chlorotoluene		ND		1.1	2.8
2-Hexanone		ND		5.7	28
4-Chlorotoluene		ND		1.1	2.8
Benzene		ND		1.1	2.8
Bromobenzene		ND		1.1	2.8
Chlorobromomethane		ND		1.1	2.8
Dichlorobromomethane		ND		1.1	2.8
Bromoform		ND		1.1	2.8
Bromomethane		ND		1.1	5.6
n-Butylbenzene		ND		1.1	2.8
Carbon disulfide		ND		1.1	2.8
Carbon tetrachloride		ND		1.1	2.8
Chlorobenzene		ND		1.1	2.8
Chloroethane		ND		1.1	5.6
Chloroform		ND		1.1	2.8
Chloromethane		ND		1.1	5.6
cis-1,2-Dichloroethene		ND		1.1	2.8
cis-1,3-Dichloropropene		ND		1.1	2.8
Cyclohexane		ND		2.9	28
Chlorodibromomethane		ND		1.1	2.8

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-472-0.0/1.0-XXX**

Lab Sample ID: 360-24454-7
Client Matrix: Solid % Moisture: 7.0

Date Sampled: 09/04/2009 0745
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44936.D
Dilution:	1.0			Initial Weight/Volume:	4.83 g
Date Analyzed:	09/12/2009 1831			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.8
Dichlorodifluoromethane		ND J		1.1	5.6
Ethyl ether		ND		1.1	2.8
Isopropyl ether		ND		1.1	2.8
Tert-butyl ethyl ether		ND		2.8	2.8
Ethylbenzene		ND		1.1	2.8
Hexachlorobutadiene		ND		1.1	2.8
Isopropylbenzene		ND		1.1	2.8
Methyl acetate		ND		18	56
2-Butanone (MEK)		ND		7.5	28
4-Methyl-2-pentanone (MIBK)		ND		5.7	28
Methyl tert-butyl ether		ND		1.1	2.8
Methylcyclohexane		ND		1.1	2.8
Methylene Chloride		ND		5.4	11
m-Xylene & p-Xylene		ND		1.1	5.6
Naphthalene		ND		1.1	28
N-Propylbenzene		ND		1.1	2.8
o-Xylene		ND		1.1	2.8
4-Isopropyltoluene		ND		1.1	2.8
sec-Butylbenzene		ND		1.1	2.8
Styrene		ND		1.1	2.8
Tert-amyl methyl ether		ND		1.1	2.8
tert-Butylbenzene		ND		1.1	2.8
Tetrachloroethene		ND		1.1	2.8
Tetrahydrofuran		ND		6.1	28
Toluene		ND		1.1	2.8
trans-1,2-Dichloroethene		ND		1.1	2.8
trans-1,3-Dichloropropene		ND		1.1	2.8
Trichloroethene		ND		1.1	2.8
Trichlorofluoromethane		ND		1.1	5.6
Vinyl chloride		ND		1.1	2.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-472-0.0/1.0-XXX**

Lab Sample ID: 360-24454-7
Client Matrix: Solid % Moisture: 7.0

Date Sampled: 09/04/2009 0745
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44936.D
Dilution:	1.0			Initial Weight/Volume:	4.83 g
Date Analyzed:	09/12/2009 1831			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.37	2.1	T J

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-472-30/32-XXX**

Lab Sample ID: 360-24454-8
Client Matrix: Solid % Moisture: 8.9

Date Sampled: 09/04/2009 0850
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44937.D
Dilution:	1.0			Initial Weight/Volume:	6.93 g
Date Analyzed:	09/12/2009 1855			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.79	2.0
1,1,1-Trichloroethane		ND		0.79	2.0
1,1,2,2-Tetrachloroethane		ND		0.79	2.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.79	9.9
1,1,2-Trichloroethane		ND		0.79	2.0
1,1-Dichloroethane		ND		0.79	2.0
1,1-Dichloroethene		ND		0.79	2.0
1,1-Dichloropropene		ND		0.79	2.0
1,2,3-Trichlorobenzene		ND		0.79	2.0
1,2,3-Trichloropropane		ND		1.2	2.0
1,2,4-Trichlorobenzene		ND		0.79	2.0
1,2,4-Trimethylbenzene		ND		0.79	2.0
1,2-Dibromo-3-Chloropropane		ND		1.4	20
Ethylene Dibromide		ND		0.79	2.0
1,2-Dichlorobenzene		ND		0.79	2.0
1,2-Dichloroethane		ND		0.79	2.0
Acetone		ND	J	14	200
1,2-Dichloropropane		ND		0.79	2.0
1,3,5-Trimethylbenzene		ND		0.79	2.0
1,3-Dichlorobenzene		ND		0.79	2.0
1,3-Dichloropropane		ND		0.79	2.0
1,4-Dichlorobenzene		ND		0.79	2.0
1,4-Dioxane		ND	J	26	200
2,2-Dichloropropane		ND		0.79	2.0
2,4,4-Trimethyl-1-pentene		ND		0.79	4.0
2,4,4-Trimethyl-2-pentene		ND		0.79	4.0
2-Chlorotoluene		ND		0.79	2.0
2-Hexanone		ND		4.1	20
4-Chlorotoluene		ND		0.79	2.0
Benzene		ND		0.79	2.0
Bromobenzene		ND		0.79	2.0
Chlorobromomethane		ND		0.79	2.0
Dichlorobromomethane		ND		0.79	2.0
Bromoform		ND		0.79	2.0
Bromomethane		ND		0.79	4.0
n-Butylbenzene		ND		0.79	2.0
Carbon disulfide		ND		0.79	2.0
Carbon tetrachloride		ND		0.79	2.0
Chlorobenzene		ND		0.79	2.0
Chloroethane		ND		0.79	4.0
Chloroform		ND		0.79	2.0
Chloromethane		ND		0.79	4.0
cis-1,2-Dichloroethene		ND		0.79	2.0
cis-1,3-Dichloropropene		ND		0.79	2.0
Cyclohexane		ND		2.0	20
Chlorodibromomethane		ND		0.79	2.0

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-472-30/32-XXX**

Lab Sample ID: 360-24454-8
Client Matrix: Solid % Moisture: 8.9

Date Sampled: 09/04/2009 0850
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44937.D
Dilution:	1.0			Initial Weight/Volume:	6.93 g
Date Analyzed:	09/12/2009 1855			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.79	2.0
Dichlorodifluoromethane		ND J	*	0.79	4.0
Ethyl ether		ND		0.79	2.0
Isopropyl ether		ND		0.79	2.0
Tert-butyl ethyl ether		ND		2.0	2.0
Ethylbenzene		ND		0.79	2.0
Hexachlorobutadiene		ND		0.79	2.0
Isopropylbenzene		ND		0.79	2.0
Methyl acetate		ND		13	40
2-Butanone (MEK)		ND		5.3	20
4-Methyl-2-pentanone (MIBK)		ND		4.1	20
Methyl tert-butyl ether		ND		0.79	2.0
Methylcyclohexane		ND		0.79	2.0
Methylene Chloride		ND		3.8	7.9
m-Xylene & p-Xylene		ND		0.79	4.0
Naphthalene		ND		0.79	20
N-Propylbenzene		ND		0.79	2.0
o-Xylene		ND		0.79	2.0
4-Isopropyltoluene		ND		0.79	2.0
sec-Butylbenzene		ND		0.79	2.0
Styrene		ND		0.79	2.0
Tert-amyl methyl ether		ND		0.79	2.0
tert-Butylbenzene		ND		0.79	2.0
Tetrachloroethene		ND		0.79	2.0
Tetrahydrofuran		ND		4.4	20
Toluene		ND		0.79	2.0
trans-1,2-Dichloroethene		ND		0.79	2.0
trans-1,3-Dichloropropene		ND		0.79	2.0
Trichloroethene		ND		0.79	2.0
Trichlorofluoromethane		ND		0.79	4.0
Vinyl chloride		ND		0.79	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-472-30/32-XXX**

Lab Sample ID: 360-24454-8
Client Matrix: Solid % Moisture: 8.9

Date Sampled: 09/04/2009 0850
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44937.D
Dilution:	1.0			Initial Weight/Volume:	6.93 g
Date Analyzed:	09/12/2009 1855			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
590-18-1	2-Butene, (Z)-	1.86	16	T J N
	Unknown	2.54	7.8	T J

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-472-8.0/10-XXX**

Lab Sample ID: 360-24454-9
Client Matrix: Solid % Moisture: 15.3

Date Sampled: 09/04/2009 0755
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44976.D
Dilution:	1.0			Initial Weight/Volume:	5.99 g
Date Analyzed:	09/14/2009 1833			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND	J	32	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	4.9
2,4,4-Trimethyl-2-pentene		ND		0.99	4.9
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	4.9
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	4.9
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	4.9
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND	J	2.5	25
Chlorodibromomethane		ND		0.99	2.5

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-472-8.0/10-XXX**

Lab Sample ID: 360-24454-9
Client Matrix: Solid % Moisture: 15.3

Date Sampled: 09/04/2009 0755
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44976.D
Dilution:	1.0			Initial Weight/Volume:	5.99 g
Date Analyzed:	09/14/2009 1833			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND J	*	0.99	4.9
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND		6.6	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	4.9
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		ND		5.4	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	4.9
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-SB-472-8.0/10-XXX**

Lab Sample ID: 360-24454-9
Client Matrix: Solid % Moisture: 15.3

Date Sampled: 09/04/2009 0755
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44976.D
Dilution:	1.0			Initial Weight/Volume:	5.99 g
Date Analyzed:	09/14/2009 1833			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.38	1.7	T J

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-TBK-014**

Lab Sample ID: 360-24454-10
Client Matrix: Solid

Date Sampled: 09/04/2009 1130
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44977.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/14/2009 1857			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-TBK-014**

Lab Sample ID: 360-24454-10
Client Matrix: Solid

Date Sampled: 09/04/2009 1130
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44977.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/14/2009 1857			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND		1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	107		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	101		70 - 130

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-TBK-014**

Lab Sample ID: 360-24454-10
Client Matrix: Solid

Date Sampled: 09/04/2009 1130
Date Received: 09/04/2009 1605

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44977.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/14/2009 1857			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-EBK-008**

Lab Sample ID: 360-24454-18EB
Client Matrix: Water

Date Sampled: 09/08/2009 1100
Date Received: 09/08/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/11/2009 0111
Date Prepared: 09/11/2009 0111

Analysis Batch: 360-48826

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06874.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND		0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND		0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	1.4		0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

TC 4/7/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-EBK-008**

Lab Sample ID: 360-24454-18EB
Client Matrix: Water

Date Sampled: 09/08/2009 1100
Date Received: 09/08/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/11/2009 0111
Date Prepared: 09/11/2009 0111

Analysis Batch: 360-48826

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06874.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND	*	0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	85		70 - 130
Dibromofluoromethane	117		70 - 130
Toluene-d8 (Surr)	96		70 - 130

TC
4/1/10

Client: Olin Corporation

Job Number: 360-24454-1
Sdg Number: OCRI-12

Client Sample ID: **OC-EBK-008**

Lab Sample ID: 360-24454-18EB
Client Matrix: Water

Date Sampled: 09/08/2009 1100
Date Received: 09/08/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48826		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06874.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	09/11/2009 0111			Final Weight/Volume:	5 mL
Date Prepared:	09/11/2009 0111				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
115-7-1	Propene	1.68	3.8	T J N
	Unknown	8.17	0.58	T J

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

UJ 1,4-Dioxane RRF < 0.05 in IC

J/UJ Dichlorodifluoromethane
J/UJ Acetone
} ICV %D > 30%

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab File ID: V44874.D BFB Injection Date: 09/10/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:42

Analysis Batch No.: 48816

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.1	
75	30.0 - 60.0 % of mass 95	51.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.9	
175	5.0 - 9.0 % of mass 174	5.3	(7.9)1
176	95.0 - 101.0 % of mass 174	65.5	(97.9)1
177	5.0 - 9.0 % of mass 176	4.2	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48816/2	V44875.D	09/10/2009	16:05
	LCS 360-48815/1-A	V44876.D	09/10/2009	16:29
	LCSD 360-48815/2-A	V44877.D	09/10/2009	16:53
	360-24444-C-9-B MS	V44878.D	09/10/2009	17:17
	360-24444-C-9-C MSD	V44879.D	09/10/2009	17:41
	MB 360-48815/3-A	V44881.D	09/10/2009	18:28
OC-SB-461-5.0/7.0-XXX	360-24454-3	V44890.D	09/10/2009	22:03
OC-SB-470-7.0/9.0-XXX	360-24454-6	V44891.D	09/10/2009	22:27

Dichlorodifluoromethane -52 } UJ
Methyl Acetate 55.9 }

Dichlorodifluoromethane LCS 36 LCSD 32

Methylene Chloride @ 11.6 ug/kg Nodetects in samples

4/7/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab File ID: V44920.D BFB Injection Date: 09/12/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 12:07

Analysis Batch No.: 48878

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.0	
75	30.0 - 60.0 % of mass 95	50.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.8	
175	5.0 - 9.0 % of mass 174	5.3	(8.4)1
176	95.0 - 101.0 % of mass 174	63.4	(99.4)1
177	5.0 - 9.0 % of mass 176	4.3	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48878/2	V44921.D	09/12/2009	12:31
	LCS 360-48877/1-A	V44922.D	09/12/2009	12:55
	LCSD 360-48877/2-A	V44923.D	09/12/2009	13:19
	MB 360-48877/3-A	V44925.D	09/12/2009	14:06
OC-SB-470-0.0/1.0-XXX	360-24454-4	V44935.D	09/12/2009	18:07
OC-SB-472-0.0/1.0-XXX	360-24454-7	V44936.D	09/12/2009	18:31
OC-SB-472-30/32-XXX	360-24454-8	V44937.D	09/12/2009	18:55

w/in Control

Clean

Dichlorodifluoromethane LCS 58% LCSD 60%

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab File ID: V44966.D BFB Injection Date: 09/14/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 14:32

Analysis Batch No.: 48929

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.2	
75	30.0 - 60.0 % of mass 95	50.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.9	
175	5.0 - 9.0 % of mass 174	5.6	(8.2)1
176	95.0 - 101.0 % of mass 174	66.4	(97.7)1
177	5.0 - 9.0 % of mass 176	4.3	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48929/2	V44967.D	09/14/2009	14:56
	LCS 360-48927/1-A	V44968.D	09/14/2009	15:21
	LCSD 360-48927/2-A	V44969.D	09/14/2009	15:45
	MB 360-48927/3-A	V44971.D	09/14/2009	16:34
OC-SB-472-8.0/10-XXX	360-24454-9	V44976.D	09/14/2009	18:33
OC-TBK-014	360-24454-10	V44977.D	09/14/2009	18:57

clean

Cyclohexane -26.7 (UJ)

Dichlorodifluoromethane LCS 59% LCSD 53%

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab File ID: V45086.D BFB Injection Date: 09/17/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 13:02

Analysis Batch No.: 49101

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.6	
75	30.0 - 60.0 % of mass 95	51.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.2	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	64.3	(95.7)1
177	5.0 - 9.0 % of mass 176	4.4	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49101/2	V45087.D	09/17/2009	13:26
	LCS 360-49099/1-A	V45088.D	09/17/2009	13:51
	LCSD 360-49099/2-A	V45089.D	09/17/2009	14:15
	MB 360-49099/3-A	V45091.D	09/17/2009	15:02
OC-SB-461-28/30-XXX	360-24454-2	V45108.D	09/17/2009	22:10
OC-SB-470-31/33-XXX	360-24454-5	V45109.D	09/17/2009	22:34

Acetone 27 VJ

Clean

dichlorodifluoromethane LCS 51% LCSD 65%

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-461-28/30-XXX	360-24454-2	97	105	94
OC-SB-461-5.0/7.0-XXX	360-24454-3	101	100	101
OC-SB-470-0.0/1.0-XXX	360-24454-4	102	100	102
OC-SB-470-31/33-XXX	360-24454-5	104	100	102
OC-SB-470-7.0/9.0-XXX	360-24454-6	101	99	100
OC-SB-472-0.0/1.0-XXX	360-24454-7	102	102	99
OC-SB-472-30/32-XXX	360-24454-8	105	98	105
OC-SB-472-8.0/10-XXX	360-24454-9	102	99	104
OC-TBK-014	360-24454-10	105	101	107
	MB 360-48815/3-A	102	100	106
	MB 360-48877/3-A	105	99	105
	MB 360-48927/3-A	96	103	95
	MB 360-49099/3-A	101	99	103
	LCS 360-48815/1-A	97	102	94
	LCS 360-48877/1-A	99	101	96
	LCS 360-48927/1-A	100	102	93
	LCS 360-49099/1-A	94	106	90
	LCSD 360-48815/2-A	99	103	95
	LCSD 360-48877/2-A	100	100	97
	LCSD 360-48927/2-A	100	102	93
	LCSD 360-49099/2-A	99	101	97
	360-24444-C-9-B MS	99	102	92
	360-24444-C-9-C MSD	101	100	99

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

TC 4-7/10

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Water Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-EBK-008	360-24454-18	117	96	85
	MB 360-48826/6	106	96	89
	LCS 360-48826/3	99	104	101
	LCSD 360-48826/4	99	104	101

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

TC
4/7/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab File ID: V06680.D BFB Injection Date: 09/03/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:33

Analysis Batch No.: 48601

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.7	
75	30.0 - 60.0 % of mass 95	55.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	67.6	
175	5.0 - 9.0 % of mass 174	4.9	(7.3)1
176	95.0 - 101.0 % of mass 174	65.1	(96.3)1
177	5.0 - 9.0 % of mass 176	4.2	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD03 360-48601/4	V06683.D	09/03/2009	17:36
	STD05 360-48601/5	V06684.D	09/03/2009	17:57
	STD1 360-48601/6	V06685.D	09/03/2009	18:18
	STD5 360-48601/7	V06686.D	09/03/2009	18:38
	STD10 360-48601/8	V06687.D	09/03/2009	18:59
	STD40 360-48601/9	V06688.D	09/03/2009	19:20
	STD80 360-48601/10	V06689.D	09/03/2009	19:41
	STD160 360-48601/11	V06690.D	09/03/2009	20:02

4/7/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab File ID: V06849.D BFB Injection Date: 09/10/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:25

Analysis Batch No.: 48826

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.1	
75	30.0 - 60.0 % of mass 95	52.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	78.1	
175	5.0 - 9.0 % of mass 174	5.7	(7.3)1
176	95.0 - 101.0 % of mass 174	74.6	(95.5)1
177	5.0 - 9.0 % of mass 176	4.9	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48826/2	V06850.D	09/10/2009	16:46
	LCS 360-48826/3	V06851.D	09/10/2009	17:07
	LCSD 360-48826/4	V06852.D	09/10/2009	17:28
	MB 360-48826/6	V06854.D	09/10/2009	18:10
OC-EBK-008	360-24454-18	V06874.D	09/11/2009	01:11

4/7/10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-48816/2 Calibration Date: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44875.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2305		9.55	20.0	-52.2*	30.0
Chloromethane	Ave	0.9034	0.8553	0.1000	20.4	20.0	-5.3	30.0
Vinyl chloride	Ave	0.6300	0.5760		19.5	20.0	-8.6	20.0
Bromomethane	Ave	0.3127	0.3131		21.0	20.0	0.1	30.0
Chloroethane	Lin2		0.3289		20.4	20.0	1.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4684		18.1	20.0	-9.6	30.0
Ethyl ether	Ave	0.2603	0.2216		18.2	20.0	-14.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.2846		18.5	20.0	-11.1	20.0
Carbon disulfide	Ave	1.395	1.143		16.4	20.0	-18.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1542		16.6	20.0	-17.0	30.0
Acrolein	Ave	0.7836	0.7345		937	1000	-6.3	30.0
Methylene Chloride	Lin1		0.3470		19.9	20.0	-0.7	30.0
Acetone	Lin2		0.0556		213	200	6.3	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6346		18.0	20.0	-10.1	30.0
Methyl acetate	Lin1		0.2270		312	200	55.9*	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6083		17.4	20.0	-13.0	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3073		160	200	-19.9	30.0
Isopropyl ether	Ave	1.997	1.816		18.3	20.0	-9.1	30.0
1,1-Dichloroethane	Ave	0.7919	0.7324	0.1000	19.7	20.0	-7.5	30.0
Acrylonitrile	Lin1		0.0612		18.8	20.0	-6.2	30.0
Tert-butyl ethyl ether	Ave	1.194	1.097		18.4	20.0	-8.1	30.0
Vinyl acetate	Ave	0.5745	0.5475		191	200	-4.7	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5642		18.3	20.0	-8.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.5024		21.6	20.0	-6.5	30.0
Chlorobromomethane	Ave	0.1386	0.1282		18.5	20.0	-7.5	30.0
Cyclohexane	Ave	0.8898	0.7283		16.5	20.0	-18.2	30.0
Chloroform	Ave	0.6243	0.5702		19.5	20.0	-8.7	20.0
Carbon tetrachloride	Ave	0.3645	0.3404		18.6	20.0	-6.6	30.0
Tetrahydrofuran	Ave	0.0762	0.0669		191	200	-12.1	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4772		18.3	20.0	-7.7	30.0
2-Butanone (MEK)	Ave	0.0960	0.0916		203	200	-4.6	30.0
1,1-Dichloropropene	Ave	0.4990	0.4616		18.5	20.0	-7.5	30.0
Benzene	Ave	1.352	1.293		19.1	20.0	-4.3	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7189		18.9	20.0	-5.7	30.0
1,2-Dichloroethane	Ave	0.3253	0.2977		18.3	20.0	-8.5	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3139		18.3	20.0	-17.5	30.0
Methylcyclohexane	Ave	0.6300	0.5197		16.6	20.0	-17.5	30.0
Trichloroethene	Ave	0.3155	0.3014		19.9	20.0	-4.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1607		17.2	20.0	-14.2	30.0
Dibromomethane	Ave	0.1188	0.1126		18.9	20.0	-5.2	30.0

TC 4/7/10 ✓

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-48816/2 Calibration Date: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44875.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2986		21.2	20.0	-6.2	20.0
Dichlorobromomethane	Ave	0.3427	0.3249		18.8	20.0	-5.2	30.0
Methyl methacrylate	Ave	0.0864	0.0835		18.9	20.0	-3.3	30.0
1,4-Dioxane	Qua		0.0222		207	200	3.3	30.0
2-Chloroethyl vinyl ether	Lin		0.0748		387	200	93.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3909		19.7	20.0	-1.7	30.0
Toluene	Ave	0.7062	0.7026		20.5	20.0	-0.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1946		190	200	-5.0	30.0
Tetrachloroethene	Ave	0.1859	0.1936		20.8	20.0	4.1	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2861		19.7	20.0	-1.8	30.0
1,1,2-Trichloroethane	Lin1		0.1203		19.3	20.0	-3.7	30.0
Chlorodibromomethane	Ave	0.1504	0.1470		19.5	20.0	-2.3	30.0
1,3-Dichloropropane	Ave	0.2828	0.2753		19.5	20.0	-2.7	30.0
Ethylene Dibromide	Ave	0.1260	0.1235		19.6	20.0	-2.0	30.0
2-Hexanone	Ave	0.1294	0.1280		201	200	-1.1	30.0
Chlorobenzene	Ave	1.096	1.105	0.3000	20.3	20.0	0.8	30.0
Ethylbenzene	Ave	2.279	2.210		20.7	20.0	-3.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3324		20.1	20.0	-4.4	30.0
m-Xylene & p-Xylene	Ave	1.752	1.712		39.1	40.0	-2.3	30.0
o-Xylene	Ave	1.903	1.814		19.1	20.0	-4.7	30.0
Styrene	Ave	1.294	1.256		19.5	20.0	-2.9	30.0
Bromoform	Ave	0.3131	0.2942	0.1000	17.8	20.0	-6.1	20.0
Isopropylbenzene	Ave	2.255	2.238		19.9	20.0	-0.8	30.0
Bromobenzene	Ave	1.024	0.9299		18.2	20.0	-9.2	30.0
N-Propylbenzene	Ave	2.901	2.810		19.4	20.0	-3.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6107	0.3000	17.7	20.0	-10.8	30.0
2-Chlorotoluene	Ave	1.927	1.809		18.9	20.0	-6.1	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.810		19.6	20.0	-2.2	30.0
1,2,3-Trichloropropane	Lin2		0.0596		19.2	20.0	-4.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1012		19.0	20.0	-4.8	30.0
4-Chlorotoluene	Ave	1.683	1.598		18.9	20.0	-5.0	30.0
tert-Butylbenzene	Ave	1.471	1.461		19.8	20.0	-0.7	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.782		18.9	20.0	-4.9	30.0
sec-Butylbenzene	Ave	2.518	2.464		19.6	20.0	-2.1	30.0
4-Isopropyltoluene	Ave	1.894	1.871		19.7	20.0	-1.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7909		18.8	20.0	-6.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.716		19.3	20.0	-4.0	30.0
n-Butylbenzene	Ave	4.614	4.495		19.5	20.0	-2.6	30.0
1,2-Dichlorobenzene	Ave	1.492	1.412		18.9	20.0	-5.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0689		17.9	20.0	-10.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4859		18.8	20.0	-6.0	30.0

TC 4/7/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-48816/2 Calibration Date: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44875.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9230		18.9	20.0	-5.4	30.0
Naphthalene	Ave	1.288	1.172		18.2	20.0	-9.1	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7030		19.5	20.0	-2.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2261		19.4	20.0	-2.9	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9122		20.5	20.0	2.7	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5450		19.0	20.0	-4.9	30.0

TC
4/7/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3807		15.8	20.0	-21.1	30.0
Chloromethane	Ave	0.9034	0.7000	0.1000	16.5	20.0	-22.5	30.0
Vinyl chloride	Ave	0.6300	0.4878		16.4	20.0	-22.6*	20.0
Bromomethane	Ave	0.3127	0.2577		17.3	20.0	-17.6	30.0
Chloroethane	Lin2		0.2777		16.9	20.0	-15.4	30.0
Trichlorofluoromethane	Ave	0.5183	0.4067		15.7	20.0	-21.5	30.0
Ethyl ether	Ave	0.2603	0.2193		18.0	20.0	-15.7	30.0
1,1-Dichloroethene	Ave	0.3201	0.2699		17.5	20.0	-15.7	20.0
Carbon disulfide	Ave	1.395	1.145		16.4	20.0	-18.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1556		16.8	20.0	-16.2	30.0
Acrolein	Ave	0.7836	0.6865		876	1000	-12.4	30.0
Methylene Chloride	Lin1		0.3167		18.0	20.0	-9.9	30.0
Acetone	Lin2		0.0593		227	200	13.5	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.5751		16.3	20.0	-18.5	30.0
Methyl acetate	Lin1		0.1613		222	200	10.8	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6100		17.4	20.0	-12.8	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2993		156	200	-21.9	30.0
Isopropyl ether	Ave	1.997	1.736		17.5	20.0	-13.1	30.0
1,1-Dichloroethane	Ave	0.7919	0.6546	0.1000	17.6	20.0	-17.3	30.0
Acrylonitrile	Lin1		0.0634		19.5	20.0	-2.6	30.0
Tert-butyl ethyl ether	Ave	1.194	1.057		17.7	20.0	-11.4	30.0
Vinyl acetate	Ave	0.5745	0.5212		181	200	-9.3	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5153		16.8	20.0	-16.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.4491		19.1	20.0	-16.4	30.0
Cyclohexane	Ave	0.8898	0.7159		16.2	20.0	-19.5	30.0
Chlorobromomethane	Ave	0.1386	0.1200		17.3	20.0	-13.4	30.0
Chloroform	Ave	0.6243	0.5025		17.2	20.0	-19.5	20.0
Carbon tetrachloride	Ave	0.3645	0.3163		17.3	20.0	-13.2	30.0
Tetrahydrofuran	Ave	0.0762	0.0687		197	200	-9.8	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4317		16.5	20.0	-16.5	30.0
2-Butanone (MEK)	Ave	0.0960	0.0919		203	200	-4.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4149		16.6	20.0	-16.8	30.0
Benzene	Ave	1.352	1.159		17.2	20.0	-14.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6945		18.2	20.0	-8.9	30.0
1,2-Dichloroethane	Ave	0.3253	0.2832		17.4	20.0	-13.0	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3159		18.4	20.0	-17.0	30.0
Methylcyclohexane	Ave	0.6300	0.5238		16.7	20.0	-16.9	30.0
Trichloroethene	Ave	0.3155	0.2655		17.5	20.0	-15.8	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1641		17.5	20.0	-12.3	30.0
Dibromomethane	Ave	0.1188	0.1047		17.5	20.0	-11.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2688		19.1	20.0	-15.5	20.0
Dichlorobromomethane	Ave	0.3427	0.2893		16.8	20.0	-15.6	30.0
Methyl methacrylate	Ave	0.0864	0.0766		17.4	20.0	-11.3	30.0
1,4-Dioxane	Qua		0.0193		179	200	-10.5	30.0
2-Chloroethyl vinyl ether	Lin		0.0582		305	200	52.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3425		17.2	20.0	-13.8	30.0
Toluene	Ave	0.7062	0.6062		17.7	20.0	-14.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1893		185	200	-7.6	30.0
Tetrachloroethene	Ave	0.1859	0.1648		17.7	20.0	-11.3	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2551		17.5	20.0	-12.4	30.0
1,1,2-Trichloroethane	Lin1		0.1117		17.9	20.0	-10.4	30.0
Chlorodibromomethane	Ave	0.1504	0.1330		17.7	20.0	-11.6	30.0
1,3-Dichloropropane	Ave	0.2828	0.2486		17.6	20.0	-12.1	30.0
Ethylene Dibromide	Ave	0.1260	0.1121		17.8	20.0	-11.0	30.0
2-Hexanone	Ave	0.1294	0.1199		188	200	-7.3	30.0
Chlorobenzene	Ave	1.096	0.9706	0.3000	17.8	20.0	-11.4	30.0
Ethylbenzene	Ave	2.279	1.964		18.4	20.0	-13.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3074		18.5	20.0	-11.5	30.0
m-Xylene & p-Xylene	Ave	1.752	1.527		34.9	40.0	-12.9	30.0
o-Xylene	Ave	1.903	1.666		17.6	20.0	-12.5	30.0
Styrene	Ave	1.294	1.155		17.9	20.0	-10.8	30.0
Bromoform	Ave	0.3131	0.2788	0.1000	16.9	20.0	-11.0	20.0
Isopropylbenzene	Ave	2.255	2.019		17.9	20.0	-10.5	30.0
Bromobenzene	Ave	1.024	0.8796		17.3	20.0	-14.1	30.0
N-Propylbenzene	Ave	2.901	2.544		17.5	20.0	-12.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5992	0.3000	17.4	20.0	-12.5	30.0
2-Chlorotoluene	Ave	1.927	1.665		17.4	20.0	-13.6	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.671		18.1	20.0	-9.7	30.0
1,2,3-Trichloropropane	Lin2		0.0610		19.6	20.0	-1.9	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0982		18.5	20.0	-7.7	30.0
4-Chlorotoluene	Ave	1.683	1.457		17.2	20.0	-13.4	30.0
tert-Butylbenzene	Ave	1.471	1.348		18.3	20.0	-8.4	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.660		17.6	20.0	-11.4	30.0
sec-Butylbenzene	Ave	2.518	2.276		18.1	20.0	-9.6	30.0
4-Isopropyltoluene	Ave	1.894	1.716		18.1	20.0	-9.4	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7388		17.5	20.0	-12.2	30.0
1,4-Dichlorobenzene	Ave	1.788	1.553		17.4	20.0	-13.2	30.0
n-Butylbenzene	Ave	4.614	4.077		17.7	20.0	-11.6	30.0
1,2-Dichlorobenzene	Ave	1.492	1.313		17.6	20.0	-12.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0673		17.5	20.0	-12.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4388		17.0	20.0	-15.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.8609		17.7	20.0	-11.7	30.0
Naphthalene	Ave	1.288	1.128		17.5	20.0	-12.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6515		18.1	20.0	-9.7	30.0
Dibromofluoromethane	Ave	0.2328	0.2313		19.9	20.0	-0.7	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8911		20.1	20.0	0.3	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5556		19.4	20.0	-3.1	30.0

TC 4/7/09

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-48929/2 Calibration Date: 09/14/2009 14:56

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44967.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4306		17.8	20.0	-10.8	30.0
Chloromethane	Ave	0.9034	0.8205	0.1000	19.5	20.0	-9.2	30.0
Vinyl chloride	Ave	0.6300	0.5516		18.6	20.0	-12.5	20.0
Bromomethane	Ave	0.3127	0.3035		20.4	20.0	-2.9	30.0
Chloroethane	Lin2		0.3169		19.6	20.0	-2.2	30.0
Trichlorofluoromethane	Ave	0.5183	0.4584		17.7	20.0	-11.5	30.0
Ethyl ether	Ave	0.2603	0.2059		16.9	20.0	-20.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.2782		18.1	20.0	-13.1	20.0
Carbon disulfide	Ave	1.395	1.185		17.0	20.0	-15.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1555		16.7	20.0	-16.3	30.0
Acrolein	Ave	0.7836	0.6756		862	1000	-13.8	30.0
Methylene Chloride	Lin1		0.3332		19.0	20.0	-4.9	30.0
Acetone	Lin2		0.0606		232	200	16.1	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6077		17.2	20.0	-13.9	30.0
Methyl acetate	Lin1		0.1302		179	200	-10.5	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5512		15.8	20.0	-21.2	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2865		149	200	-25.3	30.0
Isopropyl ether	Ave	1.997	1.683		16.9	20.0	-15.7	30.0
1,1-Dichloroethane	Ave	0.7919	0.6899	0.1000	18.6	20.0	-12.9	30.0
Acrylonitrile	Lin1		0.0572		17.5	20.0	-12.5	30.0
Tert-butyl ethyl ether	Ave	1.194	0.9792		16.4	20.0	-18.0	30.0
Vinyl acetate	Ave	0.5745	0.5054		176	200	-12.0	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5367		17.4	20.0	-12.7	30.0
2,2-Dichloropropane	Ave	0.5371	0.4611		19.6	20.0	-14.1	30.0
Cyclohexane	Ave	0.8898	0.6524		14.8	20.0	-26.7	30.0
Chlorobromomethane	Ave	0.1386	0.1205		17.4	20.0	-13.1	30.0
Chloroform	Ave	0.6243	0.5351		18.3	20.0	-14.3	20.0
Carbon tetrachloride	Ave	0.3645	0.3168		17.3	20.0	-13.1	30.0
Tetrahydrofuran	Ave	0.0762	0.0625		179	200	-17.9	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4440		17.0	20.0	-14.1	30.0
2-Butanone (MEK)	Ave	0.0960	0.0891		197	200	-7.2	30.0
1,1-Dichloropropene	Ave	0.4990	0.4484		18.0	20.0	-10.1	30.0
Benzene	Ave	1.352	1.300		19.2	20.0	-3.8	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6358		16.7	20.0	-16.6	30.0
1,2-Dichloroethane	Ave	0.3253	0.2900		17.8	20.0	-10.9	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.2973		17.2	20.0	-21.9	30.0
Methylcyclohexane	Ave	0.6300	0.4807		15.3	20.0	-23.7	30.0
Trichloroethene	Ave	0.3155	0.3045		20.1	20.0	-3.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1539		16.4	20.0	-17.8	30.0
Dibromomethane	Ave	0.1188	0.1084		18.2	20.0	-8.8	30.0

TC 4/9/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-48929/2 Calibration Date: 09/14/2009 14:56

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44967.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2931		20.8	20.0	-7.9	20.0
Dichlorobromomethane	Ave	0.3427	0.3178		18.4	20.0	-7.3	30.0
Methyl methacrylate	Ave	0.0864	0.0830		18.8	20.0	-3.9	30.0
1,4-Dioxane	Qua		0.0223		208	200	3.9	30.0
2-Chloroethyl vinyl ether	Lin		0.0631		329	200	64.5*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3921		19.7	20.0	-1.4	30.0
Toluene	Ave	0.7062	0.7051		20.5	20.0	-0.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1867		183	200	-8.8	30.0
Tetrachloroethene	Ave	0.1859	0.1972		21.2	20.0	6.1	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2796		19.2	20.0	-4.0	30.0
1,1,2-Trichloroethane	Lin1		0.1175		18.8	20.0	-5.9	30.0
Chlorodibromomethane	Ave	0.1504	0.1409		18.7	20.0	-6.3	30.0
1,3-Dichloropropane	Ave	0.2828	0.2620		18.5	20.0	-7.4	30.0
Ethylene Dibromide	Ave	0.1260	0.1191		18.9	20.0	-5.5	30.0
2-Hexanone	Ave	0.1294	0.1246		196	200	-3.7	30.0
Chlorobenzene	Ave	1.096	1.058	0.3000	19.4	20.0	-3.5	30.0
Ethylbenzene	Ave	2.279	2.153		20.2	20.0	-5.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3116		18.8	20.0	-10.3	30.0
m-Xylene & p-Xylene	Ave	1.752	1.660		37.9	40.0	-5.3	30.0
o-Xylene	Ave	1.903	1.727		18.2	20.0	-9.3	30.0
Styrene	Ave	1.294	1.164		18.0	20.0	-10.0	30.0
Bromoform	Ave	0.3131	0.3043	0.1000	18.4	20.0	-2.8	20.0
Isopropylbenzene	Ave	2.255	2.095		18.6	20.0	-7.1	30.0
Bromobenzene	Ave	1.024	0.8632		16.9	20.0	-15.7	30.0
N-Propylbenzene	Ave	2.901	2.626		18.1	20.0	-9.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5951	0.3000	17.3	20.0	-13.1	30.0
2-Chlorotoluene	Ave	1.927	1.694		17.7	20.0	-12.1	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.688		18.3	20.0	-8.8	30.0
1,2,3-Trichloropropane	Lin2		0.0547		17.6	20.0	-12.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0915		17.2	20.0	-14.1	30.0
4-Chlorotoluene	Ave	1.683	1.498		17.7	20.0	-11.0	30.0
tert-Butylbenzene	Ave	1.471	1.378		18.7	20.0	-6.3	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.677		17.8	20.0	-10.5	30.0
sec-Butylbenzene	Ave	2.518	2.294		18.2	20.0	-8.9	30.0
4-Isopropyltoluene	Ave	1.894	1.743		18.4	20.0	-8.0	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7351		17.5	20.0	-12.7	30.0
1,4-Dichlorobenzene	Ave	1.788	1.728		19.4	20.0	-3.4	30.0
n-Butylbenzene	Ave	4.614	4.604		20.0	20.0	-0.2	30.0
1,2-Dichlorobenzene	Ave	1.492	1.420		19.0	20.0	-4.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0696		18.1	20.0	-9.5	30.0
Hexachlorobutadiene	Ave	0.5170	0.5415		20.9	20.0	4.7	30.0

TC 4/4/16

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-48929/2 Calibration Date: 09/14/2009 14:56

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44967.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9801		20.1	20.0	0.5	30.0
Naphthalene	Ave	1.288	1.176		18.3	20.0	-8.7	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7276		20.2	20.0	0.9	30.0
Dibromofluoromethane	Ave	0.2328	0.2272		19.5	20.0	-2.4	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9306		21.0	20.0	4.8	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5139		17.9	20.0	-10.3	30.0

TC 4/9/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-49101/2 Calibration Date: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45087.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.5319		22.0	20.0	10.2	30.0
Chloromethane	Ave	0.9034	0.9171	0.1000	21.9	20.0	1.5	30.0
Vinyl chloride	Ave	0.6300	0.6456		22.0	20.0	2.5	20.0
Bromomethane	Ave	0.3127	0.3214		21.6	20.0	2.8	30.0
Chloroethane	Lin2		0.3487		21.7	20.0	8.4	30.0
Trichlorofluoromethane	Ave	0.5183	0.5402		20.8	20.0	4.2	30.0
Ethyl ether	Ave	0.2603	0.2267		18.6	20.0	-12.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.3338		21.8	20.0	4.3	20.0
Carbon disulfide	Ave	1.395	1.391		20.0	20.0	-0.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1900		20.5	20.0	2.3	30.0
Acrolein	Ave	0.7836	0.7499		957	1000	-4.3	30.0
Methylene Chloride	Lin1		0.3527		20.2	20.0	1.0	30.0
Acetone	Lin2		0.0662		254	200	27.2	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6911		19.6	20.0	-2.1	30.0
Methyl acetate	Lin1		0.1403		193	200	-3.6	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6047		17.3	20.0	-13.5	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3363		175	200	-12.3	30.0
Isopropyl ether	Ave	1.997	1.901		19.1	20.0	-4.8	30.0
1,1-Dichloroethane	Ave	0.7919	0.7669	0.1000	20.7	20.0	-3.2	30.0
Acrylonitrile	Lin1		0.0615		18.9	20.0	-5.6	30.0
Tert-butyl ethyl ether	Ave	1.194	1.103		18.5	20.0	-7.6	30.0
Vinyl acetate	Ave	0.5745	0.4466		155	200	-22.3	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5846		19.0	20.0	-4.9	30.0
2,2-Dichloropropane	Ave	0.5371	0.5519		23.9	20.0	2.7	30.0
Cyclohexane	Ave	0.8898	0.9365		21.2	20.0	5.2	30.0
Chlorobromomethane	Ave	0.1386	0.1255		18.1	20.0	-9.5	30.0
Chloroform	Ave	0.6243	0.5837		20.0	20.0	-6.5	20.0
Carbon tetrachloride	Ave	0.3645	0.3874		21.2	20.0	6.3	30.0
Tetrahydrofuran	Ave	0.0762	0.0654		187	200	-14.1	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.5273		20.2	20.0	2.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0898		198	200	-6.5	30.0
1,1-Dichloropropene	Ave	0.4990	0.5110		20.5	20.0	2.4	30.0
Benzene	Ave	1.352	1.356		20.1	20.0	0.3	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7033		18.5	20.0	-7.7	30.0
1,2-Dichloroethane	Ave	0.3253	0.3006		18.5	20.0	-7.6	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3915		23.2	20.0	2.9	30.0
Methylcyclohexane	Ave	0.6300	0.6818		21.7	20.0	8.2	30.0
Trichloroethene	Ave	0.3155	0.3167		20.9	20.0	0.4	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1975		21.1	20.0	5.5	30.0
Dibromomethane	Ave	0.1188	0.1081		18.1	20.0	-9.0	30.0

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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-49101/2 Calibration Date: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45087.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3027		21.5	20.0	-4.9	20.0
Dichlorobromomethane	Ave	0.3427	0.3142		18.2	20.0	-8.3	30.0
Methyl methacrylate	Ave	0.0864	0.0756		17.1	20.0	-12.5	30.0
1,4-Dioxane	Qua		0.0235		219	200	9.6	30.0
2-Chloroethyl vinyl ether	Lin		0.0616		322	200	60.9*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3659		18.4	20.0	-8.0	30.0
Toluene	Ave	0.7062	0.7019		20.5	20.0	-0.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1907		187	200	-6.9	30.0
Tetrachloroethene	Ave	0.1859	0.1992		21.4	20.0	7.2	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2548		17.5	20.0	-12.5	30.0
1,1,2-Trichloroethane	Lin1		0.1137		18.2	20.0	-8.9	30.0
Chlorodibromomethane	Ave	0.1504	0.1309		17.4	20.0	-13.0	30.0
1,3-Dichloropropane	Ave	0.2828	0.2494		17.6	20.0	-11.8	30.0
Ethylene Dibromide	Ave	0.1260	0.1125		17.8	20.0	-10.7	30.0
2-Hexanone	Ave	0.1294	0.1188		187	200	-8.2	30.0
Chlorobenzene	Ave	1.096	1.071	0.3000	19.7	20.0	-2.3	30.0
Ethylbenzene	Ave	2.279	2.284		21.4	20.0	0.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3326		20.1	20.0	-4.3	30.0
m-Xylene & p-Xylene	Ave	1.752	1.752		40.0	40.0	0.0	30.0
o-Xylene	Ave	1.903	1.885		19.9	20.0	-0.9	30.0
Styrene	Ave	1.294	1.238		19.2	20.0	-4.3	30.0
Bromoform	Ave	0.3131	0.2721	0.1000	16.6	20.0	-13.1	20.0
Isopropylbenzene	Ave	2.255	2.367		21.0	20.0	4.9	30.0
Bromobenzene	Ave	1.024	0.9360		18.4	20.0	-8.6	30.0
N-Propylbenzene	Ave	2.901	2.963		20.4	20.0	2.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5955	0.3000	17.3	20.0	-13.0	30.0
2-Chlorotoluene	Ave	1.927	1.871		19.5	20.0	-2.9	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.899		20.5	20.0	2.6	30.0
1,2,3-Trichloropropane	Lin2		0.0578		18.6	20.0	-7.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0932		17.5	20.0	-12.5	30.0
4-Chlorotoluene	Ave	1.683	1.617		19.1	20.0	-3.9	30.0
tert-Butylbenzene	Ave	1.471	1.567		21.3	20.0	6.5	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.868		19.9	20.0	-0.3	30.0
sec-Butylbenzene	Ave	2.518	2.676		21.3	20.0	6.3	30.0
4-Isopropyltoluene	Ave	1.894	1.993		21.0	20.0	5.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7987		19.0	20.0	-5.1	30.0
1,4-Dichlorobenzene	Ave	1.788	1.723		19.3	20.0	-3.7	30.0
n-Butylbenzene	Ave	4.614	5.002		21.7	20.0	8.4	30.0
1,2-Dichlorobenzene	Ave	1.492	1.440		19.3	20.0	-3.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0629		16.3	20.0	-18.3	30.0
Hexachlorobutadiene	Ave	0.5170	0.5416		21.0	20.0	4.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Lab Sample ID: CCVIS 360-49101/2 Calibration Date: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45087.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9366		19.2	20.0	-4.0	30.0
Naphthalene	Ave	1.288	1.114		17.3	20.0	-13.5	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6887		19.1	20.0	-4.5	30.0
Dibromofluoromethane	Ave	0.2328	0.2245		19.3	20.0	-3.6	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9073		20.4	20.0	2.2	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5435		19.0	20.0	-5.2	30.0

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FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44876.D

Lab ID: LCS 360-48815/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	93.4	93	70-130	
1,1,1,2-Tetrachloroethane	100	99.0	99	70-130	
1,1,2,2-Tetrachloroethane	100	83.8	84	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	84.0	84	70-130	
1,1,2-Trichloroethane	100	88.0	88	70-130	
1,1-Dichloroethane	100	101	101	70-130	
1,1-Dichloroethene	100	96.2	96	70-130	
1,1-Dichloropropene	100	93.2	93	70-130	
1,2,3-Trichlorobenzene	100	97.7	98	70-130	
1,2,3-Trichloropropane	100	101	101	70-130	
1,2,4-Trichlorobenzene	100	99.3	99	70-130	
1,2,4-Trimethylbenzene	100	94.5	94	70-130	
1,2-Dibromo-3-Chloropropane	100	85.9	86	70-130	
Ethylene Dibromide	100	90.2	90	70-130	
1,2-Dichlorobenzene	100	95.3	95	70-130	
1,2-Dichloroethane	100	86.0	86	70-130	
1,2-Dichloropropane	100	101	101	70-130	
1,3,5-Trimethylbenzene	100	99.6	100	70-130	
1,3-Dichlorobenzene	100	94.4	94	70-130	
1,3-Dichloropropane	100	87.0	87	70-130	
1,4-Dichlorobenzene	100	97.7	98	70-130	
1,4-Dioxane	1000	1020	102	70-130	
2,2-Dichloropropane	100	112	112	70-130	
2,4,4-Trimethyl-1-pentene	100	95.7	96	70-130	
2,4,4-Trimethyl-2-pentene	100	89.5	90	70-130	
2-Chlorotoluene	100	94.4	94	70-130	
2-Hexanone	1000	768	77	70-130	
4-Chlorotoluene	100	96.0	96	70-130	
Acetone	1000	855	85	70-130	
Benzene	100	95.1	95	70-130	
Bromobenzene	100	90.9	91	70-130	
Chlorobromomethane	100	90.9	91	70-130	
Dichlorobromomethane	100	89.7	90	70-130	
Bromoform	100	83.1	83	70-130	
Bromomethane	100	107	107	70-130	
n-Butylbenzene	100	103	103	70-130	
Carbon disulfide	100	92.9	93	70-130	
Carbon tetrachloride	100	92.0	92	70-130	
Chlorobenzene	100	100	100	70-130	
Chloroethane	100	99.7	100	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

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tc

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44876.D

Lab ID: LCS 360-48815/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	95.5	96	70-130	
Chloromethane	100	95.0	95	70-130	
cis-1,2-Dichloroethene	100	94.0	94	70-130	
cis-1,3-Dichloropropene	100	89.4	89	70-130	
Cyclohexane	100	87.9	88	70-130	
Chlorodibromomethane	100	87.0	87	70-130	
Dibromomethane	100	87.9	88	70-130	
Dichlorodifluoromethane	100	36.5	36	70-130	*
Ethyl ether	100	91.1	91	70-130	
Isopropyl ether	100	89.1	89	70-130	
Tert-butyl ethyl ether	100	88.4	88	70-130	
Ethylbenzene	100	104	104	70-130	
Hexachlorobutadiene	100	98.8	99	70-130	
Isopropylbenzene	100	101	101	70-130	
Methyl acetate	1000	923	92	70-130	
2-Butanone (MEK)	1000	766	77	70-130	
4-Methyl-2-pentanone (MIBK)	1000	793	79	70-130	
Methyl tert-butyl ether	100	82.7	83	70-130	
Methylcyclohexane	100	89.8	90	70-130	
Methylene Chloride	100	104	104	70-130	
m-Xylene & p-Xylene	200	194	97	70-130	
Naphthalene	100	87.7	88	70-130	
N-Propylbenzene	100	98.1	98	70-130	
o-Xylene	100	95.3	95	70-130	
4-Isopropyltoluene	100	104	104	70-130	
sec-Butylbenzene	100	100	100	70-130	
Styrene	100	95.7	96	70-130	
Tert-amyl methyl ether	100	89.4	89	70-130	
tert-Butylbenzene	100	102	102	70-130	
Tetrachloroethene	100	102	102	70-130	
Tetrahydrofuran	1000	916	92	70-130	
Toluene	100	100	100	70-130	
trans-1,2-Dichloroethene	100	91.7	92	70-130	
trans-1,3-Dichloropropene	100	90.8	91	70-130	
Trichloroethene	100	100	100	70-130	
Trichlorofluoromethane	100	87.9	88	70-130	
Vinyl chloride	100	92.7	93	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

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TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44877.D

Lab ID: LCSD 360-48815/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	90.1	90	4	25	70-130	
1,1,1,2-Tetrachloroethane	100	96.1	96	3	25	70-130	
1,1,2,2-Tetrachloroethane	100	83.9	84	0	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	81.3	81	3	25	70-130	
1,1,2-Trichloroethane	100	91.5	91	4	25	70-130	
1,1-Dichloroethane	100	96.7	97	4	25	70-130	
1,1-Dichloroethene	100	93.6	94	3	25	70-130	
1,1-Dichloropropene	100	89.7	90	4	25	70-130	
1,2,3-Trichlorobenzene	100	99.3	99	2	25	70-130	
1,2,3-Trichloropropane	100	104	104	3	25	70-130	
1,2,4-Trichlorobenzene	100	99.1	99	0	25	70-130	
1,2,4-Trimethylbenzene	100	92.3	92	2	25	70-130	
1,2-Dibromo-3-Chloropropane	100	88.8	89	3	25	70-130	
Ethylene Dibromide	100	95.0	95	5	25	70-130	
1,2-Dichlorobenzene	100	93.0	93	2	25	70-130	
1,2-Dichloroethane	100	90.3	90	5	25	70-130	
1,2-Dichloropropane	100	102	102	1	25	70-130	
1,3,5-Trimethylbenzene	100	95.1	95	5	25	70-130	
1,3-Dichlorobenzene	100	93.6	94	1	25	70-130	
1,3-Dichloropropane	100	91.0	91	5	25	70-130	
1,4-Dichlorobenzene	100	94.9	95	3	25	70-130	
1,4-Dioxane	1000	1040	104	1	25	70-130	
2,2-Dichloropropane	100	108	108	4	25	70-130	
2,4,4-Trimethyl-1-pentene	100	91.4	91	5	25	70-130	
2,4,4-Trimethyl-2-pentene	100	87.0	87	3	25	70-130	
2-Chlorotoluene	100	91.7	92	3	25	70-130	
2-Hexanone	1000	824	82	7	25	70-130	
4-Chlorotoluene	100	92.6	93	4	25	70-130	
Acetone	1000	925	93	8	25	70-130	
Benzene	100	92.4	92	3	25	70-130	
Bromobenzene	100	89.0	89	2	25	70-130	
Chlorobromomethane	100	93.3	93	3	25	70-130	
Dichlorobromomethane	100	90.3	90	1	25	70-130	
Bromoform	100	84.2	84	1	25	70-130	
Bromomethane	100	97.4	97	10	25	70-130	
n-Butylbenzene	100	95.9	96	7	25	70-130	
Carbon disulfide	100	89.6	90	4	25	70-130	
Carbon tetrachloride	100	89.8	90	2	25	70-130	
Chlorobenzene	100	95.5	96	5	25	70-130	
Chloroethane	100	93.6	94	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

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TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44877.D

Lab ID: LCSD 360-48815/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	95.6	96	0	25	70-130	
Chloromethane	100	88.6	89	7	25	70-130	
cis-1,2-Dichloroethene	100	91.5	92	3	25	70-130	
cis-1,3-Dichloropropene	100	89.9	90	0	25	70-130	
Cyclohexane	100	86.6	87	2	25	70-130	
Chlorodibromomethane	100	88.7	89	2	25	70-130	
Dibromomethane	100	89.5	89	2	25	70-130	
Dichlorodifluoromethane	100	31.6	32	14	25	70-130	*
Ethyl ether	100	96.8	97	6	25	70-130	
Isopropyl ether	100	89.1	89	0	25	70-130	
Tert-butyl ethyl ether	100	90.4	90	2	25	70-130	
Ethylbenzene	100	98.3	98	5	25	70-130	
Hexachlorobutadiene	100	95.2	95	4	25	70-130	
Isopropylbenzene	100	95.5	95	6	25	70-130	
Methyl acetate	1000	1060	106	14	25	70-130	
2-Butanone (MEK)	1000	840	84	9	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	850	85	7	25	70-130	
Methyl tert-butyl ether	100	87.3	87	5	25	70-130	
Methylcyclohexane	100	89.8	90	0	25	70-130	
Methylene Chloride	100	104	104	0	25	70-130	
m-Xylene & p-Xylene	200	185	93	5	25	70-130	
Naphthalene	100	90.5	90	3	25	70-130	
N-Propylbenzene	100	94.2	94	4	25	70-130	
o-Xylene	100	91.9	92	4	25	70-130	
4-Isopropyltoluene	100	100	100	3	25	70-130	
sec-Butylbenzene	100	94.3	94	6	25	70-130	
Styrene	100	91.3	91	5	25	70-130	
Tert-amyl methyl ether	100	91.5	92	2	25	70-130	
tert-Butylbenzene	100	98.2	98	4	25	70-130	
Tetrachloroethene	100	100	100	2	25	70-130	
Tetrahydrofuran	1000	991	99	8	25	70-130	
Toluene	100	97.1	97	3	25	70-130	
trans-1,2-Dichloroethene	100	87.4	87	5	25	70-130	
trans-1,3-Dichloropropene	100	93.6	94	3	25	70-130	
Trichloroethene	100	96.3	96	4	25	70-130	
Trichlorofluoromethane	100	84.2	84	4	25	70-130	
Vinyl chloride	100	87.7	88	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

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TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Water Level: Low Lab File ID: V06852.D

Lab ID: LCSD 360-48826/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	22.3	112	4	25	70-130	
1,1,1,2-Tetrachloroethane	20.0	20.4	102	2	25	70-130	
1,1,2,2-Tetrachloroethane	20.0	16.1	81	2	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.4	107	6	25	70-130	
1,1,2-Trichloroethane	20.0	19.1	96	0	25	70-130	
1,1-Dichloroethane	20.0	19.5	98	2	25	70-130	
1,1-Dichloroethene	20.0	18.4	92	3	25	70-130	
1,1-Dichloropropene	20.0	20.9	105	2	25	70-130	
1,2,3-Trichlorobenzene	20.0	18.0	90	2	25	70-130	
1,2,3-Trichloropropane	20.0	19.9	99	1	25	70-130	
1,2,4-Trichlorobenzene	20.0	19.1	95	2	25	70-130	
1,2,4-Trimethylbenzene	20.0	19.1	95	1	25	70-130	
1,2-Dibromo-3-Chloropropane	20.0	15.6	78	4	25	70-130	
Ethylene Dibromide	20.0	21.2	106	2	25	70-130	
1,2-Dichlorobenzene	20.0	20.2	101	4	25	70-130	
1,2-Dichloroethane	20.0	18.9	95	2	25	70-130	
1,2-Dichloropropane	20.0	19.6	98	2	25	70-130	
1,3,5-Trimethylbenzene	20.0	19.5	97	2	25	70-130	
1,3-Dichlorobenzene	20.0	22.1	111	2	25	70-130	
1,3-Dichloropropane	20.0	20.0	100	1	25	70-130	
1,4-Dichlorobenzene	20.0	20.3	101	3	25	70-130	
1,4-Dioxane	200	202	101	8	25	70-130	
2,2-Dichloropropane	20.0	25.2	126	9	25	70-130	
2,4,4-Trimethyl-1-pentene	20.0	22.3	112	10	25	70-130	
2,4,4-Trimethyl-2-pentene	20.0	21.9	109	4	25	70-130	
2-Chlorotoluene	20.0	19.3	97	0	25	70-130	
2-Hexanone	200	182	91	0	25	70-130	
4-Chlorotoluene	20.0	20.1	100	2	25	70-130	
Acetone	200	184	92	5	25	70-130	
Benzene	20.0	20.0	100	2	25	70-130	
Bromobenzene	20.0	19.6	98	2	25	70-130	
Chlorobromomethane	20.0	21.6	108	3	25	70-130	
Dichlorobromomethane	20.0	19.8	99	1	25	70-130	
Bromoform	20.0	17.9	90	1	25	70-130	
Bromomethane	20.0	22.9	114	10	25	70-130	
n-Butylbenzene	20.0	17.6	88	2	25	70-130	
Carbon disulfide	20.0	18.1	90	4	25	70-130	
Carbon tetrachloride	20.0	23.1	115	2	25	70-130	
Chlorobenzene	20.0	20.4	102	3	25	70-130	
Chloroethane	20.0	18.8	94	9	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/7/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Water Level: Low Lab File ID: V06851.D

Lab ID: LCS 360-48826/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	21.5	107	70-130	
1,1,1,2-Tetrachloroethane	20.0	20.1	100	70-130	
1,1,2,2-Tetrachloroethane	20.0	15.7	79	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.1	101	70-130	
1,1,2-Trichloroethane	20.0	19.0	95	70-130	
1,1-Dichloroethane	20.0	19.1	96	70-130	
1,1-Dichloroethene	20.0	18.0	90	70-130	
1,1-Dichloropropene	20.0	20.5	103	70-130	
1,2,3-Trichlorobenzene	20.0	17.7	88	70-130	
1,2,3-Trichloropropane	20.0	20.1	101	70-130	
1,2,4-Trichlorobenzene	20.0	18.7	94	70-130	
1,2,4-Trimethylbenzene	20.0	18.8	94	70-130	
1,2-Dibromo-3-Chloropropane	20.0	15.0	75	70-130	
Ethylene Dibromide	20.0	20.7	104	70-130	
1,2-Dichlorobenzene	20.0	19.4	97	70-130	
1,2-Dichloroethane	20.0	18.6	93	70-130	
1,2-Dichloropropane	20.0	19.3	96	70-130	
1,3,5-Trimethylbenzene	20.0	19.2	96	70-130	
1,3-Dichlorobenzene	20.0	21.8	109	70-130	
1,3-Dichloropropane	20.0	19.7	99	70-130	
1,4-Dichlorobenzene	20.0	19.7	98	70-130	
1,4-Dioxane	200	218	109	70-130	
2,2-Dichloropropane	20.0	23.0	115	70-130	
2,4,4-Trimethyl-1-pentene	20.0	20.1	101	70-130	
2,4,4-Trimethyl-2-pentene	20.0	21.0	105	70-130	
2-Chlorotoluene	20.0	19.3	97	70-130	
2-Hexanone	200	182	91	70-130	
4-Chlorotoluene	20.0	19.7	99	70-130	
Acetone	200	193	97	70-130	
Benzene	20.0	19.6	98	70-130	
Bromobenzene	20.0	19.1	96	70-130	
Chlorobromomethane	20.0	20.9	104	70-130	
Dichlorobromomethane	20.0	19.5	97	70-130	
Bromoform	20.0	17.7	89	70-130	
Bromomethane	20.0	20.7	103	70-130	
n-Butylbenzene	20.0	17.3	87	70-130	
Carbon disulfide	20.0	17.4	87	70-130	
Carbon tetrachloride	20.0	22.6	113	70-130	
Chlorobenzene	20.0	19.8	99	70-130	
Chloroethane	20.0	17.2	86	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/7/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Water Level: Low Lab File ID: V06851.D

Lab ID: LCS 360-48826/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloroform	20.0	19.3	96	70-130	
Chloromethane	20.0	16.9	84	70-130	
cis-1,2-Dichloroethene	20.0	19.8	99	70-130	
cis-1,3-Dichloropropene	20.0	21.1	105	70-130	
Cyclohexane	20.0	18.1	90	70-130	
Chlorodibromomethane	20.0	20.4	102	70-130	
Dibromomethane	20.0	19.2	96	70-130	
Dichlorodifluoromethane	20.0	12.3	61	70-130	*
Ethyl ether	20.0	18.5	93	70-130	
Isopropyl ether	20.0	19.0	95	70-130	
Tert-butyl ethyl ether	20.0	20.2	101	70-130	
Ethylbenzene	20.0	20.1	101	70-130	
Hexachlorobutadiene	20.0	19.5	97	70-130	
Isopropylbenzene	20.0	18.4	92	70-130	
Methyl acetate	200	183	92	70-130	
2-Butanone (MEK)	200	170	85	70-130	
4-Methyl-2-pentanone (MIBK)	200	181	90	70-130	
Methyl tert-butyl ether	20.0	21.6	108	70-130	
Methylcyclohexane	20.0	20.1	100	70-130	
Methylene Chloride	20.0	19.7	99	70-130	
m-Xylene & p-Xylene	40.0	39.3	98	70-130	
Naphthalene	20.0	15.5	77	70-130	
N-Propylbenzene	20.0	18.5	93	70-130	
o-Xylene	20.0	17.4	87	70-130	
4-Isopropyltoluene	20.0	19.4	97	70-130	
sec-Butylbenzene	20.0	19.3	96	70-130	
Styrene	20.0	18.1	90	70-130	
Tert-amyl methyl ether	20.0	22.0	110	70-130	
tert-Butylbenzene	20.0	19.0	95	70-130	
Tetrachloroethene	20.0	22.4	112	70-130	
Tetrahydrofuran	200	183	91	70-130	
Toluene	20.0	20.4	102	70-130	
trans-1,2-Dichloroethene	20.0	18.9	95	70-130	
trans-1,3-Dichloropropene	20.0	22.0	110	70-130	
Trichloroethene	20.0	19.3	97	70-130	
Trichlorofluoromethane	20.0	19.9	100	70-130	
Vinyl chloride	20.0	17.5	87	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4/7/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Water Level: Low Lab File ID: V06852.D

Lab ID: LCSD 360-48826/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	20.0	19.6	98	2	25	70-130	
Chloromethane	20.0	17.1	86	1	25	70-130	
cis-1,2-Dichloroethene	20.0	20.2	101	2	25	70-130	
cis-1,3-Dichloropropene	20.0	21.3	107	1	25	70-130	
Cyclohexane	20.0	19.2	96	6	25	70-130	
Chlorodibromomethane	20.0	20.3	102	0	25	70-130	
Dibromomethane	20.0	19.5	98	2	25	70-130	
Dichlorodifluoromethane	20.0	12.7	63	3	25	70-130	*
Ethyl ether	20.0	19.6	98	6	25	70-130	
Isopropyl ether	20.0	20.0	100	5	25	70-130	
Tert-butyl ethyl ether	20.0	21.3	106	5	25	70-130	
Ethylbenzene	20.0	20.6	103	2	25	70-130	
Hexachlorobutadiene	20.0	19.8	99	2	25	70-130	
Isopropylbenzene	20.0	18.7	94	2	25	70-130	
Methyl acetate	200	188	94	3	25	70-130	
2-Butanone (MEK)	200	170	85	0	25	70-130	
4-Methyl-2-pentanone (MIBK)	200	184	92	2	25	70-130	
Methyl tert-butyl ether	20.0	22.4	112	4	25	70-130	
Methylcyclohexane	20.0	21.2	106	6	25	70-130	
Methylene Chloride	20.0	20.5	102	4	25	70-130	
m-Xylene & p-Xylene	40.0	39.9	100	2	25	70-130	
Naphthalene	20.0	15.9	80	3	25	70-130	
N-Propylbenzene	20.0	18.8	94	1	25	70-130	
o-Xylene	20.0	17.9	89	3	25	70-130	
4-Isopropyltoluene	20.0	19.9	100	3	25	70-130	
sec-Butylbenzene	20.0	19.6	98	2	25	70-130	
Styrene	20.0	18.7	93	3	25	70-130	
Tert-amyl methyl ether	20.0	23.0	115	5	25	70-130	
tert-Butylbenzene	20.0	19.3	97	2	25	70-130	
Tetrachloroethene	20.0	22.7	113	1	25	70-130	
Tetrahydrofuran	200	183	91	0	25	70-130	
Toluene	20.0	21.0	105	3	25	70-130	
trans-1,2-Dichloroethene	20.0	19.4	97	3	25	70-130	
trans-1,3-Dichloropropene	20.0	22.3	111	1	25	70-130	
Trichloroethene	20.0	19.7	99	2	25	70-130	
Trichlorofluoromethane	20.0	21.7	109	9	25	70-130	
Vinyl chloride	20.0	18.3	91	4	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

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FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44923.D

Lab ID: LCSD 360-48877/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	92.3	92	5	25	70-130	
1,1,1,2-Tetrachloroethane	100	104	104	7	25	70-130	
1,1,2,2-Tetrachloroethane	100	92.9	93	6	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	96.1	96	8	25	70-130	
1,1,2-Trichloroethane	100	97.2	97	6	25	70-130	
1,1-Dichloroethane	100	98.8	99	4	25	70-130	
1,1-Dichloroethene	100	100	100	5	25	70-130	
1,1-Dichloropropene	100	95.7	96	6	25	70-130	
1,2,3-Trichlorobenzene	100	112	112	13	25	70-130	
1,2,3-Trichloropropane	100	116	116	8	25	70-130	
1,2,4-Trichlorobenzene	100	109	109	10	25	70-130	
1,2,4-Trimethylbenzene	100	97.9	98	6	25	70-130	
1,2-Dibromo-3-Chloropropane	100	104	104	14	25	70-130	
Ethylene Dibromide	100	98.7	99	6	25	70-130	
1,2-Dichlorobenzene	100	98.9	99	6	25	70-130	
1,2-Dichloroethane	100	96.4	96	8	25	70-130	
1,2-Dichloropropane	100	106	106	3	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	6	25	70-130	
1,3-Dichlorobenzene	100	101	101	9	25	70-130	
1,3-Dichloropropane	100	95.2	95	6	25	70-130	
1,4-Dichlorobenzene	100	97.4	97	4	25	70-130	
1,4-Dioxane	1000	1030	103	18	25	70-130	
2,2-Dichloropropane	100	110	110	6	25	70-130	
2,4,4-Trimethyl-1-pentene	100	107	107	5	25	70-130	
2,4,4-Trimethyl-2-pentene	100	100	100	5	25	70-130	
2-Chlorotoluene	100	97.2	97	6	25	70-130	
2-Hexanone	1000	885	89	9	25	70-130	
4-Chlorotoluene	100	99.1	99	6	25	70-130	
Acetone	1000	1020	102	11	25	70-130	
Benzene	100	95.6	96	5	25	70-130	
Bromobenzene	100	95.6	96	7	25	70-130	
Chlorobromomethane	100	97.7	98	8	25	70-130	
Dichlorobromomethane	100	94.1	94	5	25	70-130	
Bromoform	100	88.6	89	4	25	70-130	
Bromomethane	100	100	100	6	25	70-130	
n-Butylbenzene	100	100	100	3	25	70-130	
Carbon disulfide	100	96.1	96	5	25	70-130	
Carbon tetrachloride	100	95.1	95	5	25	70-130	
Chlorobenzene	100	99.8	100	4	25	70-130	
Chloroethane	100	95.2	95	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

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FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44922.D

Lab ID: LCS 360-48877/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	87.9	88	70-130	
1,1,1,2-Tetrachloroethane	100	96.9	97	70-130	
1,1,2,2-Tetrachloroethane	100	87.2	87	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	88.3	88	70-130	
1,1,2-Trichloroethane	100	91.3	91	70-130	
1,1-Dichloroethane	100	95.0	95	70-130	
1,1-Dichloroethene	100	95.1	95	70-130	
1,1-Dichloropropene	100	90.0	90	70-130	
1,2,3-Trichlorobenzene	100	99.1	99	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	99.0	99	70-130	
1,2,4-Trimethylbenzene	100	92.0	92	70-130	
1,2-Dibromo-3-Chloropropane	100	90.6	91	70-130	
Ethylene Dibromide	100	93.3	93	70-130	
1,2-Dichlorobenzene	100	93.0	93	70-130	
1,2-Dichloroethane	100	89.2	89	70-130	
1,2-Dichloropropane	100	102	102	70-130	
1,3,5-Trimethylbenzene	100	95.5	95	70-130	
1,3-Dichlorobenzene	100	92.5	92	70-130	
1,3-Dichloropropane	100	89.5	90	70-130	
1,4-Dichlorobenzene	100	93.6	94	70-130	
1,4-Dioxane	1000	861	86	70-130	
2,2-Dichloropropane	100	103	103	70-130	
2,4,4-Trimethyl-1-pentene	100	102	102	70-130	
2,4,4-Trimethyl-2-pentene	100	95.3	95	70-130	
2-Chlorotoluene	100	91.7	92	70-130	
2-Hexanone	1000	811	81	70-130	
4-Chlorotoluene	100	93.1	93	70-130	
Acetone	1000	922	92	70-130	
Benzene	100	91.3	91	70-130	
Bromobenzene	100	89.3	89	70-130	
Chlorobromomethane	100	90.2	90	70-130	
Dichlorobromomethane	100	89.3	89	70-130	
Bromoform	100	84.9	85	70-130	
Bromomethane	100	94.5	95	70-130	
n-Butylbenzene	100	97.5	98	70-130	
Carbon disulfide	100	91.6	92	70-130	
Carbon tetrachloride	100	90.9	91	70-130	
Chlorobenzene	100	95.6	96	70-130	
Chloroethane	100	90.6	91	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/7/10
tc

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44922.D

Lab ID: LCS 360-48877/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	95.3	95	70-130	
Chloromethane	100	83.1	83	70-130	
cis-1,2-Dichloroethene	100	90.4	90	70-130	
cis-1,3-Dichloropropene	100	89.6	90	70-130	
Cyclohexane	100	88.6	89	70-130	
Chlorodibromomethane	100	87.8	88	70-130	
Dibromomethane	100	91.1	91	70-130	
Dichlorodifluoromethane	100	57.8	58	70-130	*
Ethyl ether	100	96.8	97	70-130	
Isopropyl ether	100	88.4	88	70-130	
Tert-butyl ethyl ether	100	90.9	91	70-130	
Ethylbenzene	100	98.8	99	70-130	
Hexachlorobutadiene	100	96.0	96	70-130	
Isopropylbenzene	100	96.3	96	70-130	
Methyl acetate	1000	1040	104	70-130	
2-Butanone (MEK)	1000	842	84	70-130	
4-Methyl-2-pentanone (MIBK)	1000	849	85	70-130	
Methyl tert-butyl ether	100	87.2	87	70-130	
Methylcyclohexane	100	91.2	91	70-130	
Methylene Chloride	100	94.1	94	70-130	
m-Xylene & p-Xylene	200	187	93	70-130	
Naphthalene	100	88.4	88	70-130	
N-Propylbenzene	100	94.9	95	70-130	
o-Xylene	100	92.9	93	70-130	
4-Isopropyltoluene	100	99.6	100	70-130	
sec-Butylbenzene	100	96.3	96	70-130	
Styrene	100	92.8	93	70-130	
Tert-amyl methyl ether	100	91.5	91	70-130	
tert-Butylbenzene	100	98.0	98	70-130	
Tetrachloroethene	100	98.4	98	70-130	
Tetrahydrofuran	1000	1010	101	70-130	
Toluene	100	95.0	95	70-130	
trans-1,2-Dichloroethene	100	86.3	86	70-130	
trans-1,3-Dichloropropene	100	91.6	92	70-130	
Trichloroethene	100	95.2	95	70-130	
Trichlorofluoromethane	100	87.3	87	70-130	
Vinyl chloride	100	86.8	87	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/7/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44923.D

Lab ID: LCSD 360-48877/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	99.3	99	4	25	70-130	
Chloromethane	100	90.1	90	8	25	70-130	
cis-1,2-Dichloroethene	100	94.8	95	5	25	70-130	
cis-1,3-Dichloropropene	100	92.7	93	3	25	70-130	
Cyclohexane	100	90.9	91	3	25	70-130	
Chlorodibromomethane	100	92.7	93	5	25	70-130	
Dibromomethane	100	97.3	97	7	25	70-130	
Dichlorodifluoromethane	100	60.0	60	4	25	70-130	*
Ethyl ether	100	103	103	6	25	70-130	
Isopropyl ether	100	93.8	94	6	25	70-130	
Tert-butyl ethyl ether	100	97.7	98	7	25	70-130	
Ethylbenzene	100	103	103	4	25	70-130	
Hexachlorobutadiene	100	101	101	5	25	70-130	
Isopropylbenzene	100	101	101	5	25	70-130	
Methyl acetate	1000	1200	120	14	25	70-130	
2-Butanone (MEK)	1000	923	92	9	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	942	94	10	25	70-130	
Methyl tert-butyl ether	100	95.7	96	9	25	70-130	
Methylcyclohexane	100	95.3	95	4	25	70-130	
Methylene Chloride	100	99.7	100	6	25	70-130	
m-Xylene & p-Xylene	200	195	98	4	25	70-130	
Naphthalene	100	101	101	14	25	70-130	
N-Propylbenzene	100	99.3	99	5	25	70-130	
o-Xylene	100	97.5	98	5	25	70-130	
4-Isopropyltoluene	100	107	107	7	25	70-130	
sec-Butylbenzene	100	103	103	6	25	70-130	
Styrene	100	97.6	98	5	25	70-130	
Tert-amyl methyl ether	100	100	100	9	25	70-130	
tert-Butylbenzene	100	104	104	6	25	70-130	
Tetrachloroethene	100	102	102	4	25	70-130	
Tetrahydrofuran	1000	1110	111	9	25	70-130	
Toluene	100	98.7	99	4	25	70-130	
trans-1,2-Dichloroethene	100	91.0	91	5	25	70-130	
trans-1,3-Dichloropropene	100	94.9	95	4	25	70-130	
Trichloroethene	100	98.8	99	4	25	70-130	
Trichlorofluoromethane	100	92.2	92	5	25	70-130	
Vinyl chloride	100	91.0	91	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/7/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44969.D

Lab ID: LCSD 360-48927/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	82.5	83	15	25	70-130	
1,1,1,2-Tetrachloroethane	100	91.5	92	18	25	70-130	
1,1,2,2-Tetrachloroethane	100	79.4	79	22	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	82.6	83	10	25	70-130	
1,1,2-Trichloroethane	100	88.1	88	19	25	70-130	
1,1-Dichloroethane	100	91.3	91	16	25	70-130	
1,1-Dichloroethene	100	85.6	86	17	25	70-130	
1,1-Dichloropropene	100	84.0	84	16	25	70-130	
1,2,3-Trichlorobenzene	100	95.8	96	17	25	70-130	
1,2,3-Trichloropropane	100	99.8	100	20	25	70-130	
1,2,4-Trichlorobenzene	100	94.9	95	16	25	70-130	
1,2,4-Trimethylbenzene	100	86.8	87	17	25	70-130	
1,2-Dibromo-3-Chloropropane	100	86.8	87	16	25	70-130	
Ethylene Dibromide	100	87.8	88	21	25	70-130	
1,2-Dichlorobenzene	100	88.6	89	17	25	70-130	
1,2-Dichloroethane	100	84.9	85	19	25	70-130	
1,2-Dichloropropane	100	97.9	98	16	25	70-130	
1,3,5-Trimethylbenzene	100	88.9	89	17	25	70-130	
1,3-Dichlorobenzene	100	88.5	88	18	25	70-130	
1,3-Dichloropropane	100	84.8	85	21	25	70-130	
1,4-Dichlorobenzene	100	90.0	90	16	25	70-130	
1,4-Dioxane	1000	1030	103	17	25	70-130	
2,2-Dichloropropane	100	95.6	96	17	25	70-130	
2,4,4-Trimethyl-1-pentene	100	92.9	93	10	25	70-130	
2,4,4-Trimethyl-2-pentene	100	86.8	87	12	25	70-130	
2-Chlorotoluene	100	85.9	86	17	25	70-130	
2-Hexanone	1000	768	77	20	25	70-130	
4-Chlorotoluene	100	87.5	88	17	25	70-130	
Acetone	1000	896	90	15	25	70-130	
Benzene	100	89.2	89	16	25	70-130	
Bromobenzene	100	82.9	83	18	25	70-130	
Chlorobromomethane	100	89.3	89	16	25	70-130	
Dichlorobromomethane	100	86.5	86	18	25	70-130	
Bromoform	100	82.7	83	19	25	70-130	
Bromomethane	100	98.9	99	11	25	70-130	
n-Butylbenzene	100	89.0	89	17	25	70-130	
Carbon disulfide	100	85.5	86	14	25	70-130	
Carbon tetrachloride	100	83.8	84	14	25	70-130	
Chlorobenzene	100	88.3	88	20	25	70-130	
Chloroethane	100	91.3	91	13	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/7/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44968.D

Lab ID: LCS 360-48927/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	95.9	96	70-130	
1,1,1,2-Tetrachloroethane	100	109	109	70-130	
1,1,2,2-Tetrachloroethane	100	99.4	99	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	91.2	91	70-130	
1,1,2-Trichloroethane	100	106	106	70-130	
1,1-Dichloroethane	100	107	107	70-130	
1,1-Dichloroethene	100	101	101	70-130	
1,1-Dichloropropene	100	98.9	99	70-130	
1,2,3-Trichlorobenzene	100	114	114	70-130	
1,2,3-Trichloropropane	100	122	122	70-130	
1,2,4-Trichlorobenzene	100	112	112	70-130	
1,2,4-Trimethylbenzene	100	103	103	70-130	
1,2-Dibromo-3-Chloropropane	100	101	101	70-130	
Ethylene Dibromide	100	108	108	70-130	
1,2-Dichlorobenzene	100	105	105	70-130	
1,2-Dichloroethane	100	103	103	70-130	
1,2-Dichloropropane	100	115	115	70-130	
1,3,5-Trimethylbenzene	100	106	106	70-130	
1,3-Dichlorobenzene	100	106	106	70-130	
1,3-Dichloropropane	100	104	104	70-130	
1,4-Dichlorobenzene	100	106	106	70-130	
1,4-Dioxane	1000	1230	123	70-130	
2,2-Dichloropropane	100	113	113	70-130	
2,4,4-Trimethyl-1-pentene	100	102	102	70-130	
2,4,4-Trimethyl-2-pentene	100	97.7	98	70-130	
2-Chlorotoluene	100	102	102	70-130	
2-Hexanone	1000	939	94	70-130	
4-Chlorotoluene	100	103	103	70-130	
Acetone	1000	1040	104	70-130	
Benzene	100	105	105	70-130	
Bromobenzene	100	99.1	99	70-130	
Chlorobromomethane	100	104	104	70-130	
Dichlorobromomethane	100	104	104	70-130	
Bromoform	100	100	100	70-130	
Bromomethane	100	111	111	70-130	
n-Butylbenzene	100	105	105	70-130	
Carbon disulfide	100	98.4	98	70-130	
Carbon tetrachloride	100	96.8	97	70-130	
Chlorobenzene	100	108	108	70-130	
Chloroethane	100	104	104	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/7/10 RC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44968.D

Lab ID: LCS 360-48927/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	108	108	70-130	
Chloromethane	100	98.0	98	70-130	
cis-1,2-Dichloroethene	100	102	102	70-130	
cis-1,3-Dichloropropene	100	104	104	70-130	
Cyclohexane	100	83.2	83	70-130	
Chlorodibromomethane	100	104	104	70-130	
Dibromomethane	100	104	104	70-130	
Dichlorodifluoromethane	100	59.4	59	70-130	*
Ethyl ether	100	109	109	70-130	
Isopropyl ether	100	103	103	70-130	
Tert-butyl ethyl ether	100	105	105	70-130	
Ethylbenzene	100	109	109	70-130	
Hexachlorobutadiene	100	105	105	70-130	
Isopropylbenzene	100	105	105	70-130	
Methyl acetate	1000	1020	102	70-130	
2-Butanone (MEK)	1000	990	99	70-130	
4-Methyl-2-pentanone (MIBK)	1000	977	98	70-130	
Methyl tert-butyl ether	100	102	102	70-130	
Methylcyclohexane	100	87.0	87	70-130	
Methylene Chloride	100	115	115	70-130	
m-Xylene & p-Xylene	200	207	103	70-130	
Naphthalene	100	103	103	70-130	
N-Propylbenzene	100	103	103	70-130	
o-Xylene	100	104	104	70-130	
4-Isopropyltoluene	100	108	108	70-130	
sec-Butylbenzene	100	103	103	70-130	
Styrene	100	103	103	70-130	
Tert-amyl methyl ether	100	108	108	70-130	
tert-Butylbenzene	100	106	106	70-130	
Tetrachloroethene	100	111	111	70-130	
Tetrahydrofuran	1000	1150	115	70-130	
Toluene	100	109	109	70-130	
trans-1,2-Dichloroethene	100	95.2	95	70-130	
trans-1,3-Dichloropropene	100	105	105	70-130	
Trichloroethene	100	109	109	70-130	
Trichlorofluoromethane	100	94.9	95	70-130	
Vinyl chloride	100	95.5	96	70-130	

4/7/10 TC

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V44969.D

Lab ID: LCSD 360-48927/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	91.3	91	17	25	70-130	
Chloromethane	100	86.5	87	12	25	70-130	
cis-1,2-Dichloroethene	100	87.6	88	15	25	70-130	
cis-1,3-Dichloropropene	100	85.3	85	19	25	70-130	
Cyclohexane	100	88.2	88	6	25	70-130	
Chlorodibromomethane	100	84.5	85	20	25	70-130	
Dibromomethane	100	87.1	87	18	25	70-130	
Dichlorodifluoromethane	100	52.6	53	12	25	70-130	*
Ethyl ether	100	90.8	91	18	25	70-130	
Isopropyl ether	100	86.1	86	18	25	70-130	
Tert-butyl ethyl ether	100	87.7	88	18	25	70-130	
Ethylbenzene	100	91.5	92	18	25	70-130	
Hexachlorobutadiene	100	90.8	91	15	25	70-130	
Isopropylbenzene	100	88.1	88	17	25	70-130	
Methyl acetate	1000	1230	123	19	25	70-130	
2-Butanone (MEK)	1000	824	82	18	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	817	82	18	25	70-130	
Methyl tert-butyl ether	100	84.8	85	18	25	70-130	
Methylcyclohexane	100	92.1	92	6	25	70-130	
Methylene Chloride	100	99.4	99	15	25	70-130	
m-Xylene & p-Xylene	200	173	86	18	25	70-130	
Naphthalene	100	86.3	86	17	25	70-130	
N-Propylbenzene	100	86.8	87	17	25	70-130	
o-Xylene	100	86.4	86	19	25	70-130	
4-Isopropyltoluene	100	92.4	92	15	25	70-130	
sec-Butylbenzene	100	87.1	87	17	25	70-130	
Styrene	100	84.3	84	20	25	70-130	
Tert-amyl methyl ether	100	89.8	90	18	25	70-130	
tert-Butylbenzene	100	89.7	90	16	25	70-130	
Tetrachloroethene	100	92.6	93	18	25	70-130	
Tetrahydrofuran	1000	973	97	17	25	70-130	
Toluene	100	91.1	91	18	25	70-130	
trans-1,2-Dichloroethene	100	82.8	83	14	25	70-130	
trans-1,3-Dichloropropene	100	85.3	85	21	25	70-130	
Trichloroethene	100	92.5	92	17	25	70-130	
Trichlorofluoromethane	100	83.8	84	12	25	70-130	
Vinyl chloride	100	85.0	85	12	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/7/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V45088.D

Lab ID: LCS 360-49099/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	84.2	84	70-130	
1,1,1,2-Tetrachloroethane	100	88.3	88	70-130	
1,1,2,2-Tetrachloroethane	100	82.3	82	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	84.8	85	70-130	
1,1,2-Trichloroethane	100	93.1	93	70-130	
1,1-Dichloroethane	100	88.4	88	70-130	
1,1-Dichloroethene	100	88.0	88	70-130	
1,1-Dichloropropene	100	91.5	92	70-130	
1,2,3-Trichlorobenzene	100	95.0	95	70-130	
1,2,3-Trichloropropane	100	93.0	93	70-130	
1,2,4-Trichlorobenzene	100	96.1	96	70-130	
1,2,4-Trimethylbenzene	100	82.6	83	70-130	
1,2-Dibromo-3-Chloropropane	100	84.7	85	70-130	
Ethylene Dibromide	100	93.1	93	70-130	
1,2-Dichlorobenzene	100	89.0	89	70-130	
1,2-Dichloroethane	100	89.2	89	70-130	
1,2-Dichloropropane	100	101	101	70-130	
1,3,5-Trimethylbenzene	100	86.7	87	70-130	
1,3-Dichlorobenzene	100	82.0	82	70-130	
1,3-Dichloropropane	100	93.6	94	70-130	
1,4-Dichlorobenzene	100	90.5	91	70-130	
1,4-Dioxane	1000	1030	103	70-130	
2,2-Dichloropropane	100	91.3	91	70-130	
2,4,4-Trimethyl-1-pentene	100	94.0	94	70-130	
2,4,4-Trimethyl-2-pentene	100	92.4	92	70-130	
2-Chlorotoluene	100	83.4	83	70-130	
2-Hexanone	1000	826	83	70-130	
4-Chlorotoluene	100	84.2	84	70-130	
Acetone	1000	800	80	70-130	
Benzene	100	91.0	91	70-130	
Bromobenzene	100	80.4	80	70-130	
Chlorobromomethane	100	84.7	85	70-130	
Dichlorobromomethane	100	90.9	91	70-130	
Bromoform	100	88.6	89	70-130	
Bromomethane	100	91.2	91	70-130	
n-Butylbenzene	100	96.3	96	70-130	
Carbon disulfide	100	82.3	82	70-130	
Carbon tetrachloride	100	87.5	88	70-130	
Chlorobenzene	100	94.9	95	70-130	
Chloroethane	100	82.4	82	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4/7/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V45088.D

Lab ID: LCS 360-49099/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	87.4	87	70-130	
Chloromethane	100	79.1	79	70-130	
cis-1,2-Dichloroethene	100	84.7	85	70-130	
cis-1,3-Dichloropropene	100	94.8	95	70-130	
Cyclohexane	100	88.2	88	70-130	
Chlorodibromomethane	100	87.7	88	70-130	
Dibromomethane	100	90.1	90	70-130	
Dichlorodifluoromethane	100	51.2	51	70-130	*
Ethyl ether	100	88.0	88	70-130	
Isopropyl ether	100	79.5	79	70-130	
Tert-butyl ethyl ether	100	79.1	79	70-130	
Ethylbenzene	100	97.9	98	70-130	
Hexachlorobutadiene	100	100	100	70-130	
Isopropylbenzene	100	90.6	91	70-130	
Methyl acetate	1000	1070	107	70-130	
2-Butanone (MEK)	1000	834	83	70-130	
4-Methyl-2-pentanone (MIBK)	1000	799	80	70-130	
Methyl tert-butyl ether	100	76.3	76	70-130	
Methylcyclohexane	100	93.2	93	70-130	
Methylene Chloride	100	84.6	85	70-130	
m-Xylene & p-Xylene	200	181	91	70-130	
Naphthalene	100	84.0	84	70-130	
N-Propylbenzene	100	87.6	88	70-130	
o-Xylene	100	86.3	86	70-130	
4-Isopropyltoluene	100	89.6	90	70-130	
sec-Butylbenzene	100	87.8	88	70-130	
Styrene	100	87.8	88	70-130	
Tert-amyl methyl ether	100	80.9	81	70-130	
tert-Butylbenzene	100	89.1	89	70-130	
Tetrachloroethene	100	107	107	70-130	
Tetrahydrofuran	1000	960	96	70-130	
Toluene	100	99.7	100	70-130	
trans-1,2-Dichloroethene	100	79.3	79	70-130	
trans-1,3-Dichloropropene	100	97.1	97	70-130	
Trichloroethene	100	98.0	98	70-130	
Trichlorofluoromethane	100	84.0	84	70-130	
Vinyl chloride	100	80.7	81	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC
4/7/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V45089.D

Lab ID: LCSD 360-49099/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	95.6	96	13	25	70-130	
1,1,1,2-Tetrachloroethane	100	104	104	16	25	70-130	
1,1,2,2-Tetrachloroethane	100	87.0	87	6	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	98.6	99	15	25	70-130	
1,1,2-Trichloroethane	100	91.7	92	2	25	70-130	
1,1-Dichloroethane	100	99.0	99	11	25	70-130	
1,1-Dichloroethene	100	100	100	13	25	70-130	
1,1-Dichloropropene	100	96.4	96	5	25	70-130	
1,2,3-Trichlorobenzene	100	99.4	99	5	25	70-130	
1,2,3-Trichloropropane	100	112	112	19	25	70-130	
1,2,4-Trichlorobenzene	100	99.8	100	4	25	70-130	
1,2,4-Trimethylbenzene	100	98.9	99	18	25	70-130	
1,2-Dibromo-3-Chloropropane	100	87.5	87	3	25	70-130	
Ethylene Dibromide	100	91.5	91	2	25	70-130	
1,2-Dichlorobenzene	100	94.3	94	6	25	70-130	
1,2-Dichloroethane	100	92.0	92	3	25	70-130	
1,2-Dichloropropane	100	105	105	3	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	16	25	70-130	
1,3-Dichlorobenzene	100	98.7	99	19	25	70-130	
1,3-Dichloropropane	100	89.1	89	5	25	70-130	
1,4-Dichlorobenzene	100	94.1	94	4	25	70-130	
1,4-Dioxane	1000	1190	119	15	25	70-130	
2,2-Dichloropropane	100	110	110	19	25	70-130	
2,4,4-Trimethyl-1-pentene	100	111	111	16	25	70-130	
2,4,4-Trimethyl-2-pentene	100	105	105	12	25	70-130	
2-Chlorotoluene	100	96.4	96	14	25	70-130	
2-Hexanone	1000	845	85	2	25	70-130	
4-Chlorotoluene	100	97.6	98	15	25	70-130	
Acetone	1000	839	84	5	25	70-130	
Benzene	100	96.5	96	6	25	70-130	
Bromobenzene	100	92.1	92	14	25	70-130	
Chlorobromomethane	100	92.6	93	9	25	70-130	
Dichlorobromomethane	100	90.4	90	1	25	70-130	
Bromoform	100	84.2	84	5	25	70-130	
Bromomethane	100	109	109	18	25	70-130	
n-Butylbenzene	100	101	101	4	25	70-130	
Carbon disulfide	100	95.2	95	15	25	70-130	
Carbon tetrachloride	100	98.9	99	12	25	70-130	
Chlorobenzene	100	99.0	99	4	25	70-130	
Chloroethane	100	100	100	20	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/7/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Matrix: Solid Level: Low Lab File ID: V45089.D

Lab ID: LCSD 360-49099/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	97.9	98	11	25	70-130	
Chloromethane	100	95.5	95	19	25	70-130	
cis-1,2-Dichloroethene	100	95.2	95	12	25	70-130	
cis-1,3-Dichloropropene	100	89.0	89	6	25	70-130	
Cyclohexane	100	95.9	96	8	25	70-130	
Chlorodibromomethane	100	86.7	87	1	25	70-130	
Dibromomethane	100	92.7	93	3	25	70-130	
Dichlorodifluoromethane	100	64.9	65	24	25	70-130	*
Ethyl ether	100	96.5	96	9	25	70-130	
Isopropyl ether	100	91.4	91	14	25	70-130	
Tert-butyl ethyl ether	100	93.2	93	16	25	70-130	
Ethylbenzene	100	105	105	7	25	70-130	
Hexachlorobutadiene	100	101	101	0	25	70-130	
Isopropylbenzene	100	104	104	13	25	70-130	
Methyl acetate	1000	1140	114	7	25	70-130	
2-Butanone (MEK)	1000	928	93	11	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	916	92	14	25	70-130	
Methyl tert-butyl ether	100	91.0	91	18	25	70-130	
Methylcyclohexane	100	99.1	99	6	25	70-130	
Methylene Chloride	100	97.1	97	14	25	70-130	
m-Xylene & p-Xylene	200	197	99	8	25	70-130	
Naphthalene	100	88.4	88	5	25	70-130	
N-Propylbenzene	100	101	101	15	25	70-130	
o-Xylene	100	98.2	98	13	25	70-130	
4-Isopropyltoluene	100	107	107	18	25	70-130	
sec-Butylbenzene	100	105	105	18	25	70-130	
Styrene	100	95.1	95	8	25	70-130	
Tert-amyl methyl ether	100	95.3	95	16	25	70-130	
tert-Butylbenzene	100	106	106	17	25	70-130	
Tetrachloroethene	100	104	104	3	25	70-130	
Tetrahydrofuran	1000	1010	101	5	25	70-130	
Toluene	100	99.0	99	1	25	70-130	
trans-1,2-Dichloroethene	100	90.0	90	13	25	70-130	
trans-1,3-Dichloropropene	100	89.1	89	9	25	70-130	
Trichloroethene	100	102	102	4	25	70-130	
Trichlorofluoromethane	100	98.5	99	16	25	70-130	
Vinyl chloride	100	96.6	97	18	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/7/10
TC

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Sample No.: CCVIS 360-48826/2 Date Analyzed: 09/10/2009 16:46

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06850.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22553	6.15	456604	6.46	237206	9.52
UPPER LIMIT		45106	6.65	913208	6.96	474412	10.02
LOWER LIMIT		11277	5.65	228302	5.96	118603	9.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48826/3		23633	6.15	464016	6.46	246903	9.52
LCSD 360-48826/4		22666	6.15	451313	6.46	239329	9.52
MB 360-48826/6		20315	6.15	383387	6.46	194050	9.52
360-24454-18	OC-EBK-008	17016	6.15	318006	6.46	157641	9.52

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/7/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Sample No.: CCVIS 360-48826/2 Date Analyzed: 09/10/2009 16:46

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06850.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		108891	11.49				
UPPER LIMIT		217782	11.99				
LOWER LIMIT		54446	10.99				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48826/3		111797	11.49				
LCSD 360-48826/4		107713	11.49				
MB 360-48826/6		74064	11.49				
360-24454-18	OC-EBK-008	58122	11.49				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/7/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Sample No.: CCVIS 360-48816/2 Date Analyzed: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44875.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		21627	5.63	499947	5.86	309826	8.31
UPPER LIMIT		43254	6.13	999894	6.36	619652	8.81
LOWER LIMIT		10814	5.13	249974	5.36	154913	7.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48815/1-A		19979	5.64	481094	5.86	293648	8.31
LCSD 360-48815/2-A		20323	5.63	467613	5.86	297803	8.30
360-24444-C-9-B MS		20663	5.63	481374	5.86	302823	8.30
360-24444-C-9-C MSD		20960	5.63	456904	5.86	270059	8.30
MB 360-48815/3-A		18034	5.62	410806	5.86	247259	8.30
360-24454-3	OC-SB-461-5.0/7.0-XXX	18630	5.62	431908	5.86	262128	8.30
360-24454-6	OC-SB-470-7.0/9.0-XXX	19538	5.63	437754	5.86	262865	8.30

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/7/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Sample No.: CCVIS 360-48816/2 Date Analyzed: 09/10/2009 16:05

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44875.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		139895	10.11				
UPPER LIMIT		279790	10.61				
LOWER LIMIT		69948	9.61				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48815/1-A		130298	10.11				
LCSD 360-48815/2-A		135751	10.11				
360-24444-C-9-B MS		127492	10.11				
360-24444-C-9-C MSD		124440	10.11				
MB 360-48815/3-A		124253	10.11				
360-24454-3	OC-SB-461-5.0/7.0-XXX	125206	10.11				
360-24454-6	OC-SB-470-7.0/9.0-XXX	122919	10.11				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/7/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Sample No.: CCVIS 360-48878/2 Date Analyzed: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44921.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22279	5.67	477588	5.89	286880	8.33
UPPER LIMIT		44558	6.17	955176	6.39	573760	8.83
LOWER LIMIT		11140	5.17	238794	5.39	143440	7.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48877/1-A		22284	5.67	482795	5.89	294219	8.33
LCSD 360-48877/2-A		22745	5.67	479756	5.89	288925	8.33
MB 360-48877/3-A		17141	5.66	394856	5.89	236414	8.33
360-24454-4	OC-SB-470-0.0/1.0-XXX	19477	5.67	432113	5.89	255601	8.33
360-24454-7	OC-SB-472-0.0/1.0-XXX	19534	5.66	443807	5.89	269994	8.33
360-24454-8	OC-SB-472-30/32-XXX	18308	5.66	398073	5.89	231174	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/7/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Sample No.: CCVIS 360-48878/2 Date Analyzed: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44921.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		133935	10.14				
UPPER LIMIT		267870	10.64				
LOWER LIMIT		66968	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48877/1-A		133940	10.13				
LCSD 360-48877/2-A		139063	10.14				
MB 360-48877/3-A		117984	10.13				
360-24454-4	OC-SB-470-0.0/1.0-XXX	122955	10.14				
360-24454-7	OC-SB-472-0.0/1.0-XXX	121083	10.14				
360-24454-8	OC-SB-472-30/32-XXX	114327	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC
4/7/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Sample No.: CCVIS 360-48929/2 Date Analyzed: 09/14/2009 14:56

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44967.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		25443	5.68	573596	5.90	358752	8.34
UPPER LIMIT		50886	6.18	1147192	6.40	717504	8.84
LOWER LIMIT		12722	5.18	286798	5.40	179376	7.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48927/1-A		22347	5.68	506672	5.90	315859	8.34
LCSD 360-48927/2-A		20889	5.68	483191	5.91	305575	8.34
MB 360-48927/3-A		22703	5.68	540888	5.90	327458	8.34
360-24454-9	OC-SB-472-8.0/10-XXX	17527	5.67	410977	5.90	241083	8.33
360-24454-10	OC-TBK-014	18353	5.67	414278	5.90	245465	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/7/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Sample No.: CCVIS 360-48929/2 Date Analyzed: 09/14/2009 14:56

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44967.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		148735	10.15				
UPPER LIMIT		297470	10.65				
LOWER LIMIT		74368	9.65				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48927/1-A		144443	10.15				
LCSD 360-48927/2-A		140692	10.14				
MB 360-48927/3-A		141492	10.15				
360-24454-9	OC-SB-472-8.0/10-XXX	118832	10.14				
360-24454-10	OC-TBK-014	123382	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC
4/7/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Sample No.: CCVIS 360-49101/2 Date Analyzed: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45087.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		18578	5.65	452876	5.87	273923	8.31
UPPER LIMIT		37156	6.15	905752	6.37	547846	8.81
LOWER LIMIT		9289	5.15	226438	5.37	136962	7.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49099/1-A		24679	5.65	581810	5.88	361040	8.32
LCSD 360-49099/2-A		19649	5.64	463552	5.88	274516	8.32
MB 360-49099/3-A		18225	5.65	425927	5.88	251888	8.31
360-24454-2	OC-SB-461-28/30-XXX	22609	5.66	500254	5.88	307468	8.32
360-24454-5	OC-SB-470-31/33-XXX	18652	5.65	417522	5.88	248629	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/7/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24454-1

SDG No.: OCRI-12

Sample No.: CCVIS 360-49101/2 Date Analyzed: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45087.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		123204	10.12				
UPPER LIMIT		246408	10.62				
LOWER LIMIT		61602	9.62				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49099/1-A		150558	10.12				
LCSD 360-49099/2-A		132959	10.13				
MB 360-49099/3-A		126147	10.12				
360-24454-2	OC-SB-461-28/30-XXX	132772	10.13				
360-24454-5	OC-SB-470-31/33-XXX	123202	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC
4/7/10

OCRI-13

Tier 2

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 33 (FC) 360-24499-1

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Data completeness				
☑	☐	☐	All data summaries, QC forms and raw data available from hard copy or electronic data package	Contact lab if missing data. Lab to respond with 24 hours.
☑	☐	☐	Data summaries match EDD	
Holding Times and Preservation				
☑	☐	☐	Hold times met (14 days with preservation)	
☑	☐	☐	Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune)				
☑	☐	☐	Tune available for each 12-hour period samples were analyzed	
☑	☐	☐	Appropriate number of significant figures reported (at least 2)	
☑	☐	☐	Mass/Charge list (m/z) criteria met	
Initial Calibration				
☑	☐	☐	%RSD less than or equal to 30%	
☐	☑	☐	RRF greater than or equal to 0.05	→ I-Cal 9/8/10 1,4-Dioxane UJ
Continuing Calibration				
☐	☑	☐	%D less than or equal to 25%	
☑	☐	☐	RRF greater than or equal to 0.05.	
Blank Contamination				Evaluate all blanks for contamination. Highest contaminant level used for action level.
☑	☐	☐	Method blank contamination →	Yes but not affecting samples
☐	☐	☐	Trip blank contamination	
☐	☐	☐	Equipment/Rinseate blank contamination	

OC RI-13

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / II / III (circle one)

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	OK
Matrix Spikes and Laboratory Control Samples ☐ ☐ ☑ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☐ ☐ ☑ MS/MSD RPD criteria met (water and soil <30%) ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	See attached
Field Duplicates ☐ ☐ ☑ RPD criteria (water <30%, soils <50%) met	not collected
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: _____

Date: 4/8/10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-466-6.0/8.0-XXX**

Lab Sample ID: 360-24499-1
Client Matrix: Solid % Moisture: 7.5

Date Sampled: 09/08/2009 1350
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927	Lab File ID: V44978.D
Dilution:	1.0		Initial Weight/Volume: 5.72 g
Date Analyzed:	09/14/2009 1921		Final Weight/Volume: 5 g
Date Prepared:	09/14/2009 1402		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.94	2.4
1,1,1-Trichloroethane		ND		0.94	2.4
1,1,2,2-Tetrachloroethane		ND		0.94	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.94	12
1,1,2-Trichloroethane		ND		0.94	2.4
1,1-Dichloroethane		ND		0.94	2.4
1,1-Dichloroethene		ND		0.94	2.4
1,1-Dichloropropene		ND		0.94	2.4
1,2,3-Trichlorobenzene		ND		0.94	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.94	2.4
1,2,4-Trimethylbenzene		ND		0.94	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.94	2.4
1,2-Dichlorobenzene		ND		0.94	2.4
1,2-Dichloroethane		ND		0.94	2.4
Acetone		ND	J	17	240
1,2-Dichloropropane		ND		0.94	2.4
1,3,5-Trimethylbenzene		ND		0.94	2.4
1,3-Dichlorobenzene		ND		0.94	2.4
1,3-Dichloropropane		ND		0.94	2.4
1,4-Dichlorobenzene		ND		0.94	2.4
1,4-Dioxane		ND	J	31	240
2,2-Dichloropropane		ND		0.94	2.4
2,4,4-Trimethyl-1-pentene		ND		0.94	4.7
2,4,4-Trimethyl-2-pentene		ND		0.94	4.7
2-Chlorotoluene		ND		0.94	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.94	2.4
Benzene		ND		0.94	2.4
Bromobenzene		ND		0.94	2.4
Chlorobromomethane		ND		0.94	2.4
Dichlorobromomethane		ND		0.94	2.4
Bromoform		ND		0.94	2.4
Bromomethane		ND		0.94	4.7
n-Butylbenzene		ND		0.94	2.4
Carbon disulfide		ND		0.94	2.4
Carbon tetrachloride		ND		0.94	2.4
Chlorobenzene		ND		0.94	2.4
Chloroethane		ND		0.94	4.7
Chloroform		ND		0.94	2.4
Chloromethane		ND		0.94	4.7
cis-1,2-Dichloroethene		ND		0.94	2.4
cis-1,3-Dichloropropene		ND		0.94	2.4
Cyclohexane		ND	J	2.4	24
Chlorodibromomethane		ND		0.94	2.4

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-466-6.0/8.0-XXX**

Lab Sample ID: 360-24499-1
Client Matrix: Solid % Moisture: 7.5

Date Sampled: 09/08/2009 1350
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44978.D
Dilution:	1.0			Initial Weight/Volume:	5.72 g
Date Analyzed:	09/14/2009 1921			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.94	2.4
Dichlorodifluoromethane		ND J		0.94	4.7
Ethyl ether		ND		0.94	2.4
Isopropyl ether		ND		0.94	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.94	2.4
Hexachlorobutadiene		ND		0.94	2.4
Isopropylbenzene		ND		0.94	2.4
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.94	2.4
Methylcyclohexane		ND		0.94	2.4
Methylene Chloride		ND		4.6	9.4
m-Xylene & p-Xylene		ND		0.94	4.7
Naphthalene		ND		0.94	24
N-Propylbenzene		ND		0.94	2.4
o-Xylene		ND		0.94	2.4
4-Isopropyltoluene		ND		0.94	2.4
sec-Butylbenzene		ND		0.94	2.4
Styrene		ND		0.94	2.4
Tert-amyl methyl ether		ND		0.94	2.4
tert-Butylbenzene		ND		0.94	2.4
Tetrachloroethene		ND		0.94	2.4
Tetrahydrofuran		ND		5.2	24
Toluene		ND		0.94	2.4
trans-1,2-Dichloroethene		ND		0.94	2.4
trans-1,3-Dichloropropene		ND		0.94	2.4
Trichloroethene		ND		0.94	2.4
Trichlorofluoromethane		ND		0.94	4.7
Vinyl chloride		ND		0.94	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	102		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-466-6.0/8.0-XXX**

Lab Sample ID: 360-24499-1
Client Matrix: Solid % Moisture: 7.5

Date Sampled: 09/08/2009 1350
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44978.D
Dilution:	1.0			Initial Weight/Volume:	5.72 g
Date Analyzed:	09/14/2009 1921			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.38	2.8	T J

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-0.0/1.0-XXX**

Lab Sample ID: 360-24499-2
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 09/08/2009 1715
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44979.D
Dilution:	1.0			Initial Weight/Volume:	5.31 g
Date Analyzed:	09/14/2009 1945			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	5.0
2,4,4-Trimethyl-2-pentene		ND		0.99	5.0
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	5.0
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	5.0
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	5.0
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND	J	2.6	25
Chlorodibromomethane		ND		0.99	2.5

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-0.0/1.0-XXX**

Lab Sample ID: 360-24499-2
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 09/08/2009 1715
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44979.D
Dilution:	1.0			Initial Weight/Volume:	5.31 g
Date Analyzed:	09/14/2009 1945			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND J	*	0.99	5.0
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	5.0
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	5.0
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	103		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-0.0/1.0-XXX**

Lab Sample ID: 360-24499-2
Client Matrix: Solid % Moisture: 5.2

Date Sampled: 09/08/2009 1715
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44979.D
Dilution:	1.0			Initial Weight/Volume:	5.31 g
Date Analyzed:	09/14/2009 1945			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	9.16	2.1	T J

4/8/10 Tc

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-28/30-XXX**

Lab Sample ID: 360-24499-3
Client Matrix: Solid % Moisture: 9.6

Date Sampled: 09/09/2009 1040
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45239.D
Dilution:	1.0			Initial Weight/Volume:	5.89 g
Date Analyzed:	09/22/2009 1844			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.94	2.3
1,1,1-Trichloroethane		ND		0.94	2.3
1,1,2,2-Tetrachloroethane		ND		0.94	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.94	12
1,1,2-Trichloroethane		ND		0.94	2.3
1,1-Dichloroethane		ND		0.94	2.3
1,1-Dichloroethene		ND		0.94	2.3
1,1-Dichloropropene		ND		0.94	2.3
1,2,3-Trichlorobenzene		ND		0.94	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.94	2.3
1,2,4-Trimethylbenzene		ND		0.94	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.94	2.3
1,2-Dichlorobenzene		ND		0.94	2.3
1,2-Dichloroethane		ND		0.94	2.3
Acetone		ND	J	17	230
1,2-Dichloropropane		ND		0.94	2.3
1,3,5-Trimethylbenzene		ND		0.94	2.3
1,3-Dichlorobenzene		ND		0.94	2.3
1,3-Dichloropropane		ND		0.94	2.3
1,4-Dichlorobenzene		ND		0.94	2.3
1,4-Dioxane		ND	J	31	230
2,2-Dichloropropane		ND		0.94	2.3
2,4,4-Trimethyl-1-pentene		ND		0.94	4.7
2,4,4-Trimethyl-2-pentene		ND		0.94	4.7
2-Chlorotoluene		ND		0.94	2.3
2-Hexanone		ND		4.8	23
4-Chlorotoluene		ND		0.94	2.3
Benzene		ND		0.94	2.3
Bromobenzene		ND		0.94	2.3
Chlorobromomethane		ND		0.94	2.3
Dichlorobromomethane		ND		0.94	2.3
Bromoform		ND		0.94	2.3
Bromomethane		ND		0.94	4.7
n-Butylbenzene		ND		0.94	2.3
Carbon disulfide		ND		0.94	2.3
Carbon tetrachloride		ND		0.94	2.3
Chlorobenzene		ND		0.94	2.3
Chloroethane		ND		0.94	4.7
Chloroform		ND		0.94	2.3
Chloromethane		ND		0.94	4.7
cis-1,2-Dichloroethene		ND		0.94	2.3
cis-1,3-Dichloropropene		ND		0.94	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.94	2.3

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-28/30-XXX**

Lab Sample ID: 360-24499-3
Client Matrix: Solid % Moisture: 9.6

Date Sampled: 09/09/2009 1040
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45239.D
Dilution:	1.0			Initial Weight/Volume:	5.89 g
Date Analyzed:	09/22/2009 1844			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.94	2.3
Dichlorodifluoromethane		ND	*	0.94	4.7
Ethyl ether		ND		0.94	2.3
Isopropyl ether		ND		0.94	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.94	2.3
Hexachlorobutadiene		ND		0.94	2.3
Isopropylbenzene		ND		0.94	2.3
Methyl acetate		ND	*	15	47
2-Butanone (MEK)		ND		6.3	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.94	2.3
Methylcyclohexane		ND		0.94	2.3
Methylene Chloride		ND		4.5	9.4
m-Xylene & p-Xylene		ND		0.94	4.7
Naphthalene		ND		0.94	23
N-Propylbenzene		ND		0.94	2.3
o-Xylene		ND		0.94	2.3
4-Isopropyltoluene		ND		0.94	2.3
sec-Butylbenzene		ND		0.94	2.3
Styrene		ND		0.94	2.3
Tert-amyl methyl ether		ND		0.94	2.3
tert-Butylbenzene		ND		0.94	2.3
Tetrachloroethene		ND		0.94	2.3
Tetrahydrofuran		ND		5.2	23
Toluene		ND		0.94	2.3
trans-1,2-Dichloroethene		ND		0.94	2.3
trans-1,3-Dichloropropene		ND		0.94	2.3
Trichloroethene		ND		0.94	2.3
Trichlorofluoromethane		ND		0.94	4.7
Vinyl chloride		ND		0.94	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	105		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-28/30-XXX**

Lab Sample ID: 360-24499-3
Client Matrix: Solid % Moisture: 9.6

Date Sampled: 09/09/2009 1040
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45239.D
Dilution:	1.0			Initial Weight/Volume:	5.89 g
Date Analyzed:	09/22/2009 1844			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Tentatively Identified Compounds Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-36/37-XXX**

Lab Sample ID: 360-24499-4
Client Matrix: Solid % Moisture: 8.0

Date Sampled: 09/09/2009 1145
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44938.D
Dilution:	1.0			Initial Weight/Volume:	6.68 g
Date Analyzed:	09/12/2009 1918			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.81	2.0
1,1,1-Trichloroethane		ND		0.81	2.0
1,1,2,2-Tetrachloroethane		ND		0.81	2.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.81	10
1,1,2-Trichloroethane		ND		0.81	2.0
1,1-Dichloroethane		ND		0.81	2.0
1,1-Dichloroethene		ND		0.81	2.0
1,1-Dichloropropene		ND		0.81	2.0
1,2,3-Trichlorobenzene		ND		0.81	2.0
1,2,3-Trichloropropane		ND		1.2	2.0
1,2,4-Trichlorobenzene		ND		0.81	2.0
1,2,4-Trimethylbenzene		11		0.81	2.0
1,2-Dibromo-3-Chloropropane		ND		1.5	20
Ethylene Dibromide		ND		0.81	2.0
1,2-Dichlorobenzene		ND		0.81	2.0
1,2-Dichloroethane		ND		0.81	2.0
Acetone		45	J	15	200
1,2-Dichloropropane		ND		0.81	2.0
1,3,5-Trimethylbenzene		2.6		0.81	2.0
1,3-Dichlorobenzene		ND		0.81	2.0
1,3-Dichloropropane		ND		0.81	2.0
1,4-Dichlorobenzene		ND		0.81	2.0
1,4-Dioxane		ND	J	27	200
2,2-Dichloropropane		ND		0.81	2.0
2,4,4-Trimethyl-1-pentene		ND		0.81	4.1
2,4,4-Trimethyl-2-pentene		ND		0.81	4.1
2-Chlorotoluene		ND		0.81	2.0
2-Hexanone		5.8	J	4.2	20
4-Chlorotoluene		ND		0.81	2.0
Benzene		8.1		0.81	2.0
Bromobenzene		ND		0.81	2.0
Chlorobromomethane		ND		0.81	2.0
Dichlorobromomethane		ND		0.81	2.0
Bromoform		ND		0.81	2.0
Bromomethane		ND		0.81	4.1
n-Butylbenzene		3.6		0.81	2.0
Carbon disulfide		ND		0.81	2.0
Carbon tetrachloride		ND		0.81	2.0
Chlorobenzene		ND		0.81	2.0
Chloroethane		ND		0.81	4.1
Chloroform		ND		0.81	2.0
Chloromethane		ND		0.81	4.1
cis-1,2-Dichloroethene		ND		0.81	2.0
cis-1,3-Dichloropropene		ND		0.81	2.0
Cyclohexane		ND	J	2.1	20
Chlorodibromomethane		ND		0.81	2.0

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-36/37-XXX**

Lab Sample ID: 360-24499-4
Client Matrix: Solid % Moisture: 8.0

Date Sampled: 09/09/2009 1145
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44938.D
Dilution:	1.0			Initial Weight/Volume:	6.68 g
Date Analyzed:	09/12/2009 1918			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.81	2.0
Dichlorodifluoromethane		ND J	*	0.81	4.1
Ethyl ether		ND		0.81	2.0
Isopropyl ether		ND		0.81	2.0
Tert-butyl ethyl ether		ND		2.0	2.0
Ethylbenzene		11		0.81	2.0
Hexachlorobutadiene		ND		0.81	2.0
Isopropylbenzene		0.99	J	0.81	2.0
Methyl acetate		ND		13	41
2-Butanone (MEK)		13	J	5.5	20
4-Methyl-2-pentanone (MIBK)		ND		4.2	20
Methyl tert-butyl ether		ND		0.81	2.0
Methylcyclohexane		0.83	J	0.81	2.0
Methylene Chloride		ND		3.9	8.1
m-Xylene & p-Xylene		21		0.81	4.1
Naphthalene		9.9	J	0.81	20
N-Propylbenzene		4.2		0.81	2.0
o-Xylene		13		0.81	2.0
4-Isopropyltoluene		1.8	J	0.81	2.0
sec-Butylbenzene		ND		0.81	2.0
Styrene		ND		0.81	2.0
Tert-amyl methyl ether		ND		0.81	2.0
tert-Butylbenzene		ND		0.81	2.0
Tetrachloroethene		ND		0.81	2.0
Tetrahydrofuran		ND		4.5	20
Toluene		21		0.81	2.0
trans-1,2-Dichloroethene		ND		0.81	2.0
trans-1,3-Dichloropropene		ND		0.81	2.0
Trichloroethene		ND		0.81	2.0
Trichlorofluoromethane		ND		0.81	4.1
Vinyl chloride		ND		0.81	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	100		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-36/37-XXX**

Lab Sample ID: 360-24499-4
Client Matrix: Solid % Moisture: 8.0

Date Sampled: 09/09/2009 1145
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44938.D
Dilution:	1.0			Initial Weight/Volume:	6.68 g
Date Analyzed:	09/12/2009 1918			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** 8

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
14850-23-8	4-Octene, (E)-	6.97	19	T J N
111-65-9	Octane	7.01	32	T J N
16789-51-8	3-Ethyl-3-hexene	7.04	29	T J N
	Unknown	8.26	21	T J
	Unknown	9.32	24	T J
611-14-3	Benzene, 1-ethyl-2-methyl-	9.43	31	T J N
	Unknown	10.26	38	T J
	Unknown	11.32	19	T J

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-7.0/9.0-XXX**

Lab Sample ID: 360-24499-5
Client Matrix: Solid % Moisture: 4.3

Date Sampled: 09/09/2009 0750
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44939.D
Dilution:	1.0			Initial Weight/Volume:	5.23 g
Date Analyzed:	09/12/2009 1942			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-7.0/9.0-XXX**

Lab Sample ID: 360-24499-5
Client Matrix: Solid % Moisture: 4.3

Date Sampled: 09/09/2009 0750
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877	Lab File ID: V44939.D
Dilution:	1.0		Initial Weight/Volume: 5.23 g
Date Analyzed:	09/12/2009 1942		Final Weight/Volume: 5 g
Date Prepared:	09/12/2009 1114		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J		1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		7.0	J	5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	100		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-469-7.0/9.0-XXX**

Lab Sample ID: 360-24499-5
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 09/09/2009 0750
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48878		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48877		Lab File ID:	V44939.D
Dilution:	1.0			Initial Weight/Volume:	5.23 g
Date Analyzed:	09/12/2009 1942			Final Weight/Volume:	5 g
Date Prepared:	09/12/2009 1114				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	9.15	2.1	T J

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-466-0.0/1.0-XXX**

Lab Sample ID: 360-24499-6
Client Matrix: Solid % Moisture: 3.1

Date Sampled: 09/08/2009 1255
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44980.D
Dilution:	1.0			Initial Weight/Volume:	5.07 g
Date Analyzed:	09/14/2009 2009			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	34	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND	J	2.6	25
Chlorodibromomethane		ND		1.0	2.5

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-466-0.0/1.0-XXX**

Lab Sample ID: 360-24499-6
Client Matrix: Solid % Moisture: 3.1

Date Sampled: 09/08/2009 1255
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44980.D
Dilution:	1.0			Initial Weight/Volume:	5.07 g
Date Analyzed:	09/14/2009 2009			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J		1.0	5.1
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		17	51
2-Butanone (MEK)		ND		6.9	25
4-Methyl-2-pentanone (MIBK)		ND		5.3	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.6	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	102		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-466-0.0/1.0-XXX**

Lab Sample ID: 360-24499-6
Client Matrix: Solid % Moisture: 3.1

Date Sampled: 09/08/2009 1255
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44980.D
Dilution:	1.0			Initial Weight/Volume:	5.07 g
Date Analyzed:	09/14/2009 2009			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.22	3.0	T J

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-466-30/32-XXX**

Lab Sample ID: 360-24499-7
Client Matrix: Solid % Moisture: 8.1

Date Sampled: 09/08/2009 1550
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44981.D
Dilution:	1.0			Initial Weight/Volume:	6.13 g
Date Analyzed:	09/14/2009 2033			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.89	2.2
1,1,1-Trichloroethane		ND		0.89	2.2
1,1,2,2-Tetrachloroethane		ND		0.89	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.89	11
1,1,2-Trichloroethane		ND		0.89	2.2
1,1-Dichloroethane		ND		0.89	2.2
1,1-Dichloroethene		ND		0.89	2.2
1,1-Dichloropropene		ND		0.89	2.2
1,2,3-Trichlorobenzene		ND		0.89	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.89	2.2
1,2,4-Trimethylbenzene		ND		0.89	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.89	2.2
1,2-Dichlorobenzene		ND		0.89	2.2
1,2-Dichloroethane		ND		0.89	2.2
Acetone		ND	J	16	220
1,2-Dichloropropane		ND		0.89	2.2
1,3,5-Trimethylbenzene		ND		0.89	2.2
1,3-Dichlorobenzene		ND		0.89	2.2
1,3-Dichloropropane		ND		0.89	2.2
1,4-Dichlorobenzene		ND		0.89	2.2
1,4-Dioxane		ND	J	29	220
2,2-Dichloropropane		ND		0.89	2.2
2,4,4-Trimethyl-1-pentene		ND		0.89	4.4
2,4,4-Trimethyl-2-pentene		ND		0.89	4.4
2-Chlorotoluene		ND		0.89	2.2
2-Hexanone		ND		4.6	22
4-Chlorotoluene		ND		0.89	2.2
Benzene		ND		0.89	2.2
Bromobenzene		ND		0.89	2.2
Chlorobromomethane		ND		0.89	2.2
Dichlorobromomethane		ND		0.89	2.2
Bromoform		ND		0.89	2.2
Bromomethane		ND		0.89	4.4
n-Butylbenzene		ND		0.89	2.2
Carbon disulfide		4.6		0.89	2.2
Carbon tetrachloride		ND		0.89	2.2
Chlorobenzene		ND		0.89	2.2
Chloroethane		ND		0.89	4.4
Chloroform		ND		0.89	2.2
Chloromethane		ND		0.89	4.4
cis-1,2-Dichloroethene		ND		0.89	2.2
cis-1,3-Dichloropropene		ND		0.89	2.2
Cyclohexane		ND	J	2.3	22
Chlorodibromomethane		ND		0.89	2.2

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-466-30/32-XXX**

Lab Sample ID: 360-24499-7
Client Matrix: Solid % Moisture: 8.1

Date Sampled: 09/08/2009 1550
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927	Lab File ID: V44981.D
Dilution:	1.0		Initial Weight/Volume: 6.13 g
Date Analyzed:	09/14/2009 2033		Final Weight/Volume: 5 g
Date Prepared:	09/14/2009 1402		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		1.7	J	0.89	2.2
Dichlorodifluoromethane		ND J		0.89	4.4
Ethyl ether		ND		0.89	2.2
Isopropyl ether		ND		0.89	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.89	2.2
Hexachlorobutadiene		ND		0.89	2.2
Isopropylbenzene		ND		0.89	2.2
Methyl acetate		ND		14	44
2-Butanone (MEK)		ND		6.0	22
4-Methyl-2-pentanone (MIBK)		ND		4.6	22
Methyl tert-butyl ether		ND		0.89	2.2
Methylcyclohexane		ND		0.89	2.2
Methylene Chloride		ND		4.3	8.9
m-Xylene & p-Xylene		ND		0.89	4.4
Naphthalene		ND		0.89	22
N-Propylbenzene		ND		0.89	2.2
o-Xylene		ND		0.89	2.2
4-Isopropyltoluene		ND		0.89	2.2
sec-Butylbenzene		ND		0.89	2.2
Styrene		ND		0.89	2.2
Tert-amyl methyl ether		ND		0.89	2.2
tert-Butylbenzene		ND		0.89	2.2
Tetrachloroethene		ND		0.89	2.2
Tetrahydrofuran		ND		4.9	22
Toluene		ND		0.89	2.2
trans-1,2-Dichloroethene		ND		0.89	2.2
trans-1,3-Dichloropropene		ND		0.89	2.2
Trichloroethene		ND		0.89	2.2
Trichlorofluoromethane		ND		0.89	4.4
Vinyl chloride		ND		0.89	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	98		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-466-30/32-XXX**

Lab Sample ID: 360-24499-7
Client Matrix: Solid % Moisture: 8.1

Date Sampled: 09/08/2009 1550
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44981.D
Dilution:	1.0			Initial Weight/Volume:	6.13 g
Date Analyzed:	09/14/2009 2033			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-TBK-015**

Lab Sample ID: 360-24499-8
Client Matrix: Solid

Date Sampled: 09/09/2009 1400
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44982.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/14/2009 2057			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-TBK-015**

Lab Sample ID: 360-24499-8
Client Matrix: Solid

Date Sampled: 09/09/2009 1400
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929	Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927	Lab File ID:	V44982.D
Dilution:	1.0		Initial Weight/Volume:	5.00 g
Date Analyzed:	09/14/2009 2057		Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND		1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-TBK-015**

Lab Sample ID: 360-24499-8
Client Matrix: Solid

Date Sampled: 09/09/2009 1400
Date Received: 09/09/2009 1810

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44982.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/14/2009 2057			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	0.99	T J

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-417-0.0/1.0-XXX**

Lab Sample ID: 360-24499-14
Client Matrix: Solid % Moisture: 1.6

Date Sampled: 09/10/2009 1040
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44983.D
Dilution:	1.0			Initial Weight/Volume:	5.78 g
Date Analyzed:	09/14/2009 2121			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.88	2.2
1,1,1-Trichloroethane		ND		0.88	2.2
1,1,2,2-Tetrachloroethane		ND		0.88	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.88	11
1,1,2-Trichloroethane		ND		0.88	2.2
1,1-Dichloroethane		ND		0.88	2.2
1,1-Dichloroethene		ND		0.88	2.2
1,1-Dichloropropene		ND		0.88	2.2
1,2,3-Trichlorobenzene		ND		0.88	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.88	2.2
1,2,4-Trimethylbenzene		ND		0.88	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.88	2.2
1,2-Dichlorobenzene		ND		0.88	2.2
1,2-Dichloroethane		ND		0.88	2.2
Acetone		ND	J	16	220
1,2-Dichloropropane		ND		0.88	2.2
1,3,5-Trimethylbenzene		ND		0.88	2.2
1,3-Dichlorobenzene		ND		0.88	2.2
1,3-Dichloropropane		ND		0.88	2.2
1,4-Dichlorobenzene		ND		0.88	2.2
1,4-Dioxane		ND	J	29	220
2,2-Dichloropropane		ND		0.88	2.2
2,4,4-Trimethyl-1-pentene		ND		0.88	4.4
2,4,4-Trimethyl-2-pentene		ND		0.88	4.4
2-Chlorotoluene		ND		0.88	2.2
2-Hexanone		ND		4.5	22
4-Chlorotoluene		ND		0.88	2.2
Benzene		ND		0.88	2.2
Bromobenzene		ND		0.88	2.2
Chlorobromomethane		ND		0.88	2.2
Dichlorobromomethane		ND		0.88	2.2
Bromoform		ND		0.88	2.2
Bromomethane		ND		0.88	4.4
n-Butylbenzene		ND		0.88	2.2
Carbon disulfide		ND		0.88	2.2
Carbon tetrachloride		ND		0.88	2.2
Chlorobenzene		ND		0.88	2.2
Chloroethane		ND		0.88	4.4
Chloroform		ND		0.88	2.2
Chloromethane		ND		0.88	4.4
cis-1,2-Dichloroethene		ND		0.88	2.2
cis-1,3-Dichloropropene		ND		0.88	2.2
Cyclohexane		ND	J	2.3	22
Chlorodibromomethane		ND		0.88	2.2

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-417-0.0/1.0-XXX**

Lab Sample ID: 360-24499-14
Client Matrix: Solid % Moisture: 1.6

Date Sampled: 09/10/2009 1040
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927	Lab File ID: V44983.D
Dilution:	1.0		Initial Weight/Volume: 5.78 g
Date Analyzed:	09/14/2009 2121		Final Weight/Volume: 5 g
Date Prepared:	09/14/2009 1402		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.88	2.2
Dichlorodifluoromethane		ND J	*	0.88	4.4
Ethyl ether		ND		0.88	2.2
Isopropyl ether		ND		0.88	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.88	2.2
Hexachlorobutadiene		ND		0.88	2.2
Isopropylbenzene		ND		0.88	2.2
Methyl acetate		ND		14	44
2-Butanone (MEK)		ND		5.9	22
4-Methyl-2-pentanone (MIBK)		ND		4.5	22
Methyl tert-butyl ether		ND		0.88	2.2
Methylcyclohexane		ND		0.88	2.2
Methylene Chloride		ND		4.3	8.8
m-Xylene & p-Xylene		ND		0.88	4.4
Naphthalene		ND		0.88	22
N-Propylbenzene		ND		0.88	2.2
o-Xylene		ND		0.88	2.2
4-Isopropyltoluene		ND		0.88	2.2
sec-Butylbenzene		ND		0.88	2.2
Styrene		ND		0.88	2.2
Tert-amyl methyl ether		ND		0.88	2.2
tert-Butylbenzene		ND		0.88	2.2
Tetrachloroethene		ND		0.88	2.2
Tetrahydrofuran		ND		4.8	22
Toluene		ND		0.88	2.2
trans-1,2-Dichloroethene		ND		0.88	2.2
trans-1,3-Dichloropropene		ND		0.88	2.2
Trichloroethene		ND		0.88	2.2
Trichlorofluoromethane		ND		0.88	4.4
Vinyl chloride		ND		0.88	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	100		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-417-0.0/1.0-XXX**

Lab Sample ID: 360-24499-14
Client Matrix: Solid % Moisture: 1.6

Date Sampled: 09/10/2009 1040
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44983.D
Dilution:	1.0			Initial Weight/Volume:	5.78 g
Date Analyzed:	09/14/2009 2121			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	9.15	3.0	T J

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-417-8.0/10-XXX**

Lab Sample ID: 360-24499-16
Client Matrix: Solid % Moisture: 2.5

Date Sampled: 09/10/2009 1050
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48879		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48880		Lab File ID:	V44950.D
Dilution:	1.0			Initial Weight/Volume:	10.59 g
Date Analyzed:	09/13/2009 0006			Final Weight/Volume:	10 g
Date Prepared:	09/12/2009 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		48	120
1,1,1-Trichloroethane		ND		48	120
1,1,2,2-Tetrachloroethane		ND		48	120
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		48	610
1,1,2-Trichloroethane		ND		48	120
1,1-Dichloroethane		ND		48	120
1,1-Dichloroethene		ND		48	120
1,1-Dichloropropene		ND		48	120
1,2,3-Trichlorobenzene		ND		48	120
1,2,3-Trichloropropane		ND		71	120
1,2,4-Trichlorobenzene		ND		48	120
1,2,4-Trimethylbenzene		ND		48	120
1,2-Dibromo-3-Chloropropane		ND		87	1200
Ethylene Dibromide		ND		48	120
1,2-Dichlorobenzene		ND		48	120
1,2-Dichloroethane		ND		48	120
Acetone		ND	J	870	12000
1,2-Dichloropropane		ND		48	120
1,3,5-Trimethylbenzene		ND		48	120
1,3-Dichlorobenzene		ND		48	120
1,3-Dichloropropane		ND		48	120
1,4-Dichlorobenzene		ND		48	120
1,4-Dioxane		ND	J	1600	12000
2,2-Dichloropropane		ND		48	120
2,4,4-Trimethyl-1-pentene		ND		48	240
2,4,4-Trimethyl-2-pentene		ND		48	240
2-Chlorotoluene		ND		48	120
2-Hexanone		ND		250	1200
4-Chlorotoluene		ND		48	120
Benzene		ND		48	120
Bromobenzene		ND		48	120
Chlorobromomethane		ND		48	120
Dichlorobromomethane		ND		48	120
Bromoform		ND		48	120
Bromomethane		ND		48	240
n-Butylbenzene		ND		48	120
Carbon disulfide		ND		48	120
Carbon tetrachloride		ND		48	120
Chlorobenzene		ND		48	120
Chloroethane		ND		48	240
Chloroform		ND		48	120
Chloromethane		ND		48	240
cis-1,2-Dichloroethene		ND		48	120
cis-1,3-Dichloropropene		ND		48	120
Cyclohexane		ND		120	1200
Chlorodibromomethane		ND		48	120

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-417-8.0/10-XXX**

Lab Sample ID: 360-24499-16
Client Matrix: Solid % Moisture: 2.5

Date Sampled: 09/10/2009 1050
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48879		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48880		Lab File ID:	V44950.D
Dilution:	1.0			Initial Weight/Volume:	10.59 g
Date Analyzed:	09/13/2009 0006			Final Weight/Volume:	10 g
Date Prepared:	09/12/2009 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		48	120
Dichlorodifluoromethane		ND J		48	240
Ethyl ether		ND		48	120
Isopropyl ether		ND		48	120
Tert-butyl ethyl ether		ND		120	120
Ethylbenzene		ND		48	120
Hexachlorobutadiene		ND		48	120
Isopropylbenzene		ND		48	120
Methyl acetate		ND		790	2400
2-Butanone (MEK)		ND		330	1200
4-Methyl-2-pentanone (MIBK)		ND		250	1200
Methyl tert-butyl ether		ND		48	120
Methylcyclohexane		ND		48	120
Methylene Chloride		ND		230	480
m-Xylene & p-Xylene		ND		48	240
Naphthalene		ND		48	1200
N-Propylbenzene		ND		48	120
o-Xylene		ND		48	120
4-Isopropyltoluene		ND		48	120
sec-Butylbenzene		ND		48	120
Styrene		ND		48	120
Tert-amyl methyl ether		ND		48	120
tert-Butylbenzene		ND		48	120
Tetrachloroethene		ND		48	120
Tetrahydrofuran		ND		270	1200
Toluene		ND		48	120
trans-1,2-Dichloroethene		ND		48	120
trans-1,3-Dichloropropene		ND		48	120
Trichloroethene		ND		48	120
Trichlorofluoromethane		ND		48	240
Vinyl chloride		ND		48	120

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-417-8.0/10-XXX**

Lab Sample ID: 360-24499-16
Client Matrix: Solid % Moisture: 2.5

Date Sampled: 09/10/2009 1050
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48879		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48880		Lab File ID:	V44950.D
Dilution:	1.0			Initial Weight/Volume:	10.59 g
Date Analyzed:	09/13/2009 0006			Final Weight/Volume:	10 g
Date Prepared:	09/12/2009 1208				

Tentatively Identified Compounds **Number TIC's Found:** 4

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	13.35	3500	T J
	Unknown	13.48	310	T J
	Unknown	13.62	2700	T J
	Unknown	13.75	1700	T J

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-434-0.0/1.0-XXX**

Lab Sample ID: 360-24499-17
Client Matrix: Solid % Moisture: 5.7

Date Sampled: 09/10/2009 0750
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44984.D
Dilution:	1.0			Initial Weight/Volume:	5.70 g
Date Analyzed:	09/14/2009 2145			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.93	2.3
1,1,1-Trichloroethane		ND		0.93	2.3
1,1,2,2-Tetrachloroethane		ND		0.93	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.93	12
1,1,2-Trichloroethane		ND		0.93	2.3
1,1-Dichloroethane		ND		0.93	2.3
1,1-Dichloroethene		ND		0.93	2.3
1,1-Dichloropropene		ND		0.93	2.3
1,2,3-Trichlorobenzene		ND		0.93	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.93	2.3
1,2,4-Trimethylbenzene		ND		0.93	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.93	2.3
1,2-Dichlorobenzene		ND		0.93	2.3
1,2-Dichloroethane		ND		0.93	2.3
Acetone		ND	J	17	230
1,2-Dichloropropane		ND		0.93	2.3
1,3,5-Trimethylbenzene		ND		0.93	2.3
1,3-Dichlorobenzene		ND		0.93	2.3
1,3-Dichloropropane		ND		0.93	2.3
1,4-Dichlorobenzene		ND		0.93	2.3
1,4-Dioxane		ND	J	31	230
2,2-Dichloropropane		ND		0.93	2.3
2,4,4-Trimethyl-1-pentene		ND		0.93	4.7
2,4,4-Trimethyl-2-pentene		ND		0.93	4.7
2-Chlorotoluene		ND		0.93	2.3
2-Hexanone		ND		4.8	23
4-Chlorotoluene		ND		0.93	2.3
Benzene		ND		0.93	2.3
Bromobenzene		ND		0.93	2.3
Chlorobromomethane		ND		0.93	2.3
Dichlorobromomethane		ND		0.93	2.3
Bromoform		ND		0.93	2.3
Bromomethane		ND		0.93	4.7
n-Butylbenzene		ND		0.93	2.3
Carbon disulfide		ND		0.93	2.3
Carbon tetrachloride		ND		0.93	2.3
Chlorobenzene		ND		0.93	2.3
Chloroethane		ND		0.93	4.7
Chloroform		ND		0.93	2.3
Chloromethane		ND		0.93	4.7
cis-1,2-Dichloroethene		ND		0.93	2.3
cis-1,3-Dichloropropene		ND		0.93	2.3
Cyclohexane		ND	J	2.4	23
Chlorodibromomethane		ND		0.93	2.3

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-434-0.0/1.0-XXX**

Lab Sample ID: 360-24499-17
Client Matrix: Solid % Moisture: 5.7

Date Sampled: 09/10/2009 0750
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927	Lab File ID: V44984.D
Dilution:	1.0		Initial Weight/Volume: 5.70 g
Date Analyzed:	09/14/2009 2145		Final Weight/Volume: 5 g
Date Prepared:	09/14/2009 1402		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.93	2.3
Dichlorodifluoromethane		ND J	*	0.93	4.7
Ethyl ether		ND		0.93	2.3
Isopropyl ether		ND		0.93	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.93	2.3
Hexachlorobutadiene		ND		0.93	2.3
Isopropylbenzene		ND		0.93	2.3
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.3	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.93	2.3
Methylcyclohexane		ND		0.93	2.3
Methylene Chloride		ND		4.5	9.3
m-Xylene & p-Xylene		ND		0.93	4.7
Naphthalene		ND		0.93	23
N-Propylbenzene		ND		0.93	2.3
o-Xylene		ND		0.93	2.3
4-Isopropyltoluene		ND		0.93	2.3
sec-Butylbenzene		ND		0.93	2.3
Styrene		ND		0.93	2.3
Tert-amyl methyl ether		ND		0.93	2.3
tert-Butylbenzene		ND		0.93	2.3
Tetrachloroethene		ND		0.93	2.3
Tetrahydrofuran		ND		5.1	23
Toluene		1.6	J	0.93	2.3
trans-1,2-Dichloroethene		ND		0.93	2.3
trans-1,3-Dichloropropene		ND		0.93	2.3
Trichloroethene		ND		0.93	2.3
Trichlorofluoromethane		ND		0.93	4.7
Vinyl chloride		ND		0.93	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	102		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-434-0.0/1.0-XXX**

Lab Sample ID: 360-24499-17
Client Matrix: Solid % Moisture: 5.7

Date Sampled: 09/10/2009 0750
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44984.D
Dilution:	1.0			Initial Weight/Volume:	5.70 g
Date Analyzed:	09/14/2009 2145			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	3.4	TJ

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-434-7.0-/9.0-XXX**

Lab Sample ID: 360-24499-19
Client Matrix: Solid % Moisture: 6.8

Date Sampled: 09/10/2009 0815
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44972.D
Dilution:	1.0			Initial Weight/Volume:	5.24 g
Date Analyzed:	09/14/2009 1658			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.8	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	18	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND	J	2.6	26
Chlorodibromomethane		ND		1.0	2.6

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-434-7.0-/9.0-XXX**

Lab Sample ID: 360-24499-19
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 09/10/2009 0815
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44972.D
Dilution:	1.0			Initial Weight/Volume:	5.24 g
Date Analyzed:	09/14/2009 1658			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J		1.0	5.1
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	51
2-Butanone (MEK)		ND		6.9	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.6	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	101		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-434-7.0-/9.0-XXX**

Lab Sample ID: 360-24499-19
Client Matrix: Solid % Moisture: 6.8

Date Sampled: 09/10/2009 0815
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44972.D
Dilution:	1.0			Initial Weight/Volume:	5.24 g
Date Analyzed:	09/14/2009 1658			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-450-0.0/1.0-XXX**

Lab Sample ID: 360-24499-20
Client Matrix: Solid % Moisture: 5.7

Date Sampled: 09/09/2009 1340
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44985.D
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Date Analyzed:	09/14/2009 2209			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND	J	2.6	25
Chlorodibromomethane		ND		1.0	2.5

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-450-0.0/1.0-XXX**

Lab Sample ID: 360-24499-20
Client Matrix: Solid % Moisture: 5.7

Date Sampled: 09/09/2009 1340
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929	Instrument ID: HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927	Lab File ID: V44985.D
Dilution:	1.0		Initial Weight/Volume: 5.29 g
Date Analyzed:	09/14/2009 2209		Final Weight/Volume: 5 g
Date Prepared:	09/14/2009 1402		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J		1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	101		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-450-0.0/1.0-XXX**

Lab Sample ID: 360-24499-20
Client Matrix: Solid % Moisture: 5.7

Date Sampled: 09/09/2009 1340
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44985.D
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Date Analyzed:	09/14/2009 2209			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	4.4	T J

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-450-8.0/10-XXX**

Lab Sample ID: 360-24499-22
Client Matrix: Solid
% Moisture: 12.9

Date Sampled: 09/09/2009 1355
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44973.D
Dilution:	1.0			Initial Weight/Volume:	5.60 g
Date Analyzed:	09/14/2009 1722			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.8	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	18	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND	J	2.6	26
Chlorodibromomethane		ND		1.0	2.6

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-450-8.0/10-XXX**

Lab Sample ID: 360-24499-22
Client Matrix: Solid
% Moisture: 12.9

Date Sampled: 09/09/2009 1355
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44973.D
Dilution:	1.0			Initial Weight/Volume:	5.60 g
Date Analyzed:	09/14/2009 1722			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	*	1.0	5.1
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	51
2-Butanone (MEK)		ND		6.9	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.6	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	99		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-SB-450-8.0/10-XXX**

Lab Sample ID: 360-24499-22
Client Matrix: Solid
% Moisture: 12.9

Date Sampled: 09/09/2009 1355
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44973.D
Dilution:	1.0			Initial Weight/Volume:	5.60 g
Date Analyzed:	09/14/2009 1722			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.68	5.5	T J

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-TBK-016**

Lab Sample ID: 360-24499-23
Client Matrix: Solid

Date Sampled: 09/10/2009 1330
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44986.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/14/2009 2233			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-TBK-016**

Lab Sample ID: 360-24499-23
Client Matrix: Solid

Date Sampled: 09/10/2009 1330
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44986.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/14/2009 2233			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND		1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	99		70 - 130

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24499-1
Sdg Number: OCRI-13

Client Sample ID: **OC-TBK-016**

Lab Sample ID: 360-24499-23
Client Matrix: Solid

Date Sampled: 09/10/2009 1330
Date Received: 09/10/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48929		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48927		Lab File ID:	V44986.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/14/2009 2233			Final Weight/Volume:	5 g
Date Prepared:	09/14/2009 1402				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	1.2	T J

4/8/10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

I-Cal 1,4-Dioxane UJ All

ICV = UJ Acetone -30.9

UJ Dichlorodifluoromethane -41

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab File ID: V44920.D BFB Injection Date: 09/12/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 12:07

Analysis Batch No.: 48878

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.0	
75	30.0 - 60.0 % of mass 95	50.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.8	
175	5.0 - 9.0 % of mass 174	5.3	(8.4)1
176	95.0 - 101.0 % of mass 174	63.4	(99.4)1
177	5.0 - 9.0 % of mass 176	4.3	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48878/2	V44921.D	09/12/2009	12:31
	LCS 360-48877/1-A	V44922.D	09/12/2009	12:55
	LCSD 360-48877/2-A	V44923.D	09/12/2009	13:19
	MB 360-48877/3-A	V44925.D	09/12/2009	14:06
OC-SB-469-36/37-XXX	360-24499-4	V44938.D	09/12/2009	19:18
OC-SB-469-7.0/9.0-XXX	360-24499-5	V44939.D	09/12/2009	19:42

W/in Control

Clean

LCS LCSD

Dichlorodifluoromethane 58% 60%

4/8/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab File ID: V44942.D BFB Injection Date: 09/12/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 20:55

Analysis Batch No.: 48879

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.3	
75	30.0 - 60.0 % of mass 95	50.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.1	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	68.6	
175	5.0 - 9.0 % of mass 174	5.6	(8.1)1
176	95.0 - 101.0 % of mass 174	68.2	(99.4)1
177	5.0 - 9.0 % of mass 176	4.5	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48879/2	V44943.D	09/12/2009	21:18
	LCS 360-48880/1-A	V44944.D	09/12/2009	21:42
	LCSD 360-48880/2-A	V44945.D	09/12/2009	22:06
	MB 360-48880/3-A	V44947.D	09/12/2009	22:54
OC-SB-417-8.0/10-XXX	360-24499-16	V44950.D	09/13/2009	00:06

Dichlorodifluoromethane -27.5

Dichlorodifluoromethane LCS 46% LCSD 45%

Unknown @ 10.37 min
OK, Not in sample

4/8/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab File ID: V44966.D BFB Injection Date: 09/14/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 14:32

Analysis Batch No.: 48929

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.2	
75	30.0 - 60.0 % of mass 95	50.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.9	
175	5.0 - 9.0 % of mass 174	5.6	(8.2)1
176	95.0 - 101.0 % of mass 174	66.4	(97.7)1
177	5.0 - 9.0 % of mass 176	4.3	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48929/2	V44967.D	09/14/2009	14:56
	LCS 360-48927/1-A	V44968.D	09/14/2009	15:21
	LCSD 360-48927/2-A	V44969.D	09/14/2009	15:45
	MB 360-48927/3-A	V44971.D	09/14/2009	16:34
OC-SB-434-7.0-/9.0-XXX	360-24499-19	V44972.D	09/14/2009	16:58
OC-SB-450-8.0/10-XXX	360-24499-22	V44973.D	09/14/2009	17:22
OC-SB-466-6.0/8.0-XXX	360-24499-1	V44978.D	09/14/2009	19:21
OC-SB-469-0.0/1.0-XXX	360-24499-2	V44979.D	09/14/2009	19:45
OC-SB-466-0.0/1.0-XXX	360-24499-6	V44980.D	09/14/2009	20:09
OC-SB-466-30/32-XXX	360-24499-7	V44981.D	09/14/2009	20:33
OC-TBK-015	360-24499-8	V44982.D	09/14/2009	20:57
OC-SB-417-0.0/1.0-XXX	360-24499-14	V44983.D	09/14/2009	21:21
OC-SB-434-0.0/1.0-XXX	360-24499-17	V44984.D	09/14/2009	21:45
OC-SB-450-0.0/1.0-XXX	360-24499-20	V44985.D	09/14/2009	22:09
OC-TBK-016	360-24499-23	V44986.D	09/14/2009	22:33

Dichlorodifluoromethane LCS 59% LCSD 53%

Cyclohexane 32%

Clean

4/8/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab File ID: V45233.D BFB Injection Date: 09/22/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:22

Analysis Batch No.: 49326

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.0	
75	30.0 - 60.0 % of mass 95	49.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.3	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	65.0	(96.7)1
177	5.0 - 9.0 % of mass 176	4.5	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49326/3	V45234.D	09/22/2009	16:46
	LCS 360-49322/1-A	V45235.D	09/22/2009	17:10
	LCSD 360-49322/2-A	V45236.D	09/22/2009	17:33
	MB 360-49322/3-A	V45238.D	09/22/2009	18:20
OC-SB-469-28/30-XXX	360-24499-3	V45239.D	09/22/2009	18:44

clean

Not reported ← Vinyl Acetate -31
MTBE -26
Ethyl Ether -25.2

Dichlorodifluoromethane
Methyl Acetate

	LCS	LCSD
Dichlorodifluoromethane	58%	60%
Methyl Acetate	135%	134%

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
OC-SB-466-6.0/8.0-XXX	360-24499-1	98	102	96
OC-SB-469-0.0/1.0-XXX	360-24499-2	103	103	99
OC-SB-469-28/30-XXX	360-24499-3	96	105	92
OC-SB-469-36/37-XXX	360-24499-4	101	100	100
OC-SB-469-7.0/9.0-XXX	360-24499-5	101	100	101
OC-SB-466-0.0/1.0-XXX	360-24499-6	101	102	100
OC-SB-466-30/32-XXX	360-24499-7	102	98	101
OC-TBK-015	360-24499-8	100	102	99
OC-SB-417-0.0/1.0-XXX	360-24499-14	101	100	101
OC-SB-417-8.0/10-XXX	360-24499-16	104	100	104
OC-SB-434-0.0/1.0-XXX	360-24499-17	101	102	99
OC-SB-434-7.0-/9.0-XXX	360-24499-19	102	101	100
OC-SB-450-0.0/1.0-XXX	360-24499-20	102	101	101
OC-SB-450-8.0/10-XXX	360-24499-22	103	99	102
OC-TBK-016	360-24499-23	102	99	101
	MB 360-48877/3-A	105	99	105
	MB 360-48880/3-A	99	103	99
	MB 360-48927/3-A	96	103	95
	MB 360-49322/3-A	102	100	102
	LCS 360-48877/1-A	99	101	96
	LCS 360-48880/1-A	101	100	98
	LCS 360-48927/1-A	100	102	93
	LCS 360-49322/1-A	100	101	97
	LCSD 360-48877/2-A	100	100	97
	LCSD 360-48880/2-A	99	100	95
	LCSD 360-48927/2-A	100	102	93

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

4/8/10
TC

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.25 (um)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
	LCSD 360-49322/2-A	97	101	97

	QC LIMITS
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

4/8/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44922.D

Lab ID: LCS 360-48877/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	96.9	97	70-130	
1,1,1-Trichloroethane	100	87.9	88	70-130	
1,1,2,2-Tetrachloroethane	100	87.2	87	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	88.3	88	70-130	
1,1,2-Trichloroethane	100	91.3	91	70-130	
1,1-Dichloroethane	100	95.0	95	70-130	
1,1-Dichloroethene	100	95.1	95	70-130	
1,1-Dichloropropene	100	90.0	90	70-130	
1,2,3-Trichlorobenzene	100	99.1	99	70-130	
1,2,3-Trichloropropane	100	107	107	70-130	
1,2,4-Trichlorobenzene	100	99.0	99	70-130	
1,2,4-Trimethylbenzene	100	92.0	92	70-130	
1,2-Dibromo-3-Chloropropane	100	90.6	91	70-130	
Ethylene Dibromide	100	93.3	93	70-130	
1,2-Dichlorobenzene	100	93.0	93	70-130	
1,2-Dichloroethane	100	89.2	89	70-130	
Acetone	1000	922	92	70-130	
1,2-Dichloropropane	100	102	102	70-130	
1,3,5-Trimethylbenzene	100	95.5	95	70-130	
1,3-Dichlorobenzene	100	92.5	92	70-130	
1,3-Dichloropropane	100	89.5	90	70-130	
1,4-Dichlorobenzene	100	93.6	94	70-130	
1,4-Dioxane	1000	861	86	70-130	
2,2-Dichloropropane	100	103	103	70-130	
2,4,4-Trimethyl-1-pentene	100	102	102	70-130	
2,4,4-Trimethyl-2-pentene	100	95.3	95	70-130	
2-Chlorotoluene	100	91.7	92	70-130	
2-Hexanone	1000	811	81	70-130	
4-Chlorotoluene	100	93.1	93	70-130	
Benzene	100	91.3	91	70-130	
Bromobenzene	100	89.3	89	70-130	
Chlorobromomethane	100	90.2	90	70-130	
Dichlorobromomethane	100	89.3	89	70-130	
Bromoform	100	84.9	85	70-130	
Bromomethane	100	94.5	95	70-130	
n-Butylbenzene	100	97.5	98	70-130	
Carbon disulfide	100	91.6	92	70-130	
Carbon tetrachloride	100	90.9	91	70-130	
Chlorobenzene	100	95.6	96	70-130	
Chloroethane	100	90.6	91	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

1/6/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44922.D

Lab ID: LCS 360-48877/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	95.3	95	70-130	
Chloromethane	100	83.1	83	70-130	
cis-1,2-Dichloroethene	100	90.4	90	70-130	
cis-1,3-Dichloropropene	100	89.6	90	70-130	
Cyclohexane	100	88.6	89	70-130	
Chlorodibromomethane	100	87.8	88	70-130	
Dibromomethane	100	91.1	91	70-130	
Dichlorodifluoromethane	100	57.8	58	70-130	*
Ethyl ether	100	96.8	97	70-130	
Isopropyl ether	100	88.4	88	70-130	
Tert-butyl ethyl ether	100	90.9	91	70-130	
Ethylbenzene	100	98.8	99	70-130	
Hexachlorobutadiene	100	96.0	96	70-130	
Isopropylbenzene	100	96.3	96	70-130	
Methyl acetate	1000	1040	104	70-130	
2-Butanone (MEK)	1000	842	84	70-130	
4-Methyl-2-pentanone (MIBK)	1000	849	85	70-130	
Methyl tert-butyl ether	100	87.2	87	70-130	
Methylcyclohexane	100	91.2	91	70-130	
Methylene Chloride	100	94.1	94	70-130	
m-Xylene & p-Xylene	200	187	93	70-130	
Naphthalene	100	88.4	88	70-130	
N-Propylbenzene	100	94.9	95	70-130	
o-Xylene	100	92.9	93	70-130	
4-Isopropyltoluene	100	99.6	100	70-130	
sec-Butylbenzene	100	96.3	96	70-130	
Styrene	100	92.8	93	70-130	
Tert-amyl methyl ether	100	91.5	91	70-130	
tert-Butylbenzene	100	98.0	98	70-130	
Tetrachloroethene	100	98.4	98	70-130	
Tetrahydrofuran	1000	1010	101	70-130	
Toluene	100	95.0	95	70-130	
trans-1,2-Dichloroethene	100	86.3	86	70-130	
trans-1,3-Dichloropropene	100	91.6	92	70-130	
Trichloroethene	100	95.2	95	70-130	
Trichlorofluoromethane	100	87.3	87	70-130	
Vinyl chloride	100	86.8	87	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/8/10
TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44923.D

Lab ID: LCSD 360-48877/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	104	104	7	25	70-130	
1,1,1-Trichloroethane	100	92.3	92	5	25	70-130	
1,1,2,2-Tetrachloroethane	100	92.9	93	6	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	96.1	96	8	25	70-130	
1,1,2-Trichloroethane	100	97.2	97	6	25	70-130	
1,1-Dichloroethane	100	98.8	99	4	25	70-130	
1,1-Dichloroethene	100	100	100	5	25	70-130	
1,1-Dichloropropene	100	95.7	96	6	25	70-130	
1,2,3-Trichlorobenzene	100	112	112	13	25	70-130	
1,2,3-Trichloropropane	100	116	116	8	25	70-130	
1,2,4-Trichlorobenzene	100	109	109	10	25	70-130	
1,2,4-Trimethylbenzene	100	97.9	98	6	25	70-130	
1,2-Dibromo-3-Chloropropane	100	104	104	14	25	70-130	
Ethylene Dibromide	100	98.7	99	6	25	70-130	
1,2-Dichlorobenzene	100	98.9	99	6	25	70-130	
1,2-Dichloroethane	100	96.4	96	8	25	70-130	
Acetone	1000	1020	102	11	25	70-130	
1,2-Dichloropropane	100	106	106	3	25	70-130	
1,3,5-Trimethylbenzene	100	102	102	6	25	70-130	
1,3-Dichlorobenzene	100	101	101	9	25	70-130	
1,3-Dichloropropane	100	95.2	95	6	25	70-130	
1,4-Dichlorobenzene	100	97.4	97	4	25	70-130	
1,4-Dioxane	1000	1030	103	18	25	70-130	
2,2-Dichloropropane	100	110	110	6	25	70-130	
2,4,4-Trimethyl-1-pentene	100	107	107	5	25	70-130	
2,4,4-Trimethyl-2-pentene	100	100	100	5	25	70-130	
2-Chlorotoluene	100	97.2	97	6	25	70-130	
2-Hexanone	1000	885	89	9	25	70-130	
4-Chlorotoluene	100	99.1	99	6	25	70-130	
Benzene	100	95.6	96	5	25	70-130	
Bromobenzene	100	95.6	96	7	25	70-130	
Chlorobromomethane	100	97.7	98	8	25	70-130	
Dichlorobromomethane	100	94.1	94	5	25	70-130	
Bromoform	100	88.6	89	4	25	70-130	
Bromomethane	100	100	100	6	25	70-130	
n-Butylbenzene	100	100	100	3	25	70-130	
Carbon disulfide	100	96.1	96	5	25	70-130	
Carbon tetrachloride	100	95.1	95	5	25	70-130	
Chlorobenzene	100	99.8	100	4	25	70-130	
Chloroethane	100	95.2	95	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/8/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44923.D

Lab ID: LCSD 360-48877/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	99.3	99	4	25	70-130	
Chloromethane	100	90.1	90	8	25	70-130	
cis-1,2-Dichloroethene	100	94.8	95	5	25	70-130	
cis-1,3-Dichloropropene	100	92.7	93	3	25	70-130	
Cyclohexane	100	90.9	91	3	25	70-130	
Chlorodibromomethane	100	92.7	93	5	25	70-130	
Dibromomethane	100	97.3	97	7	25	70-130	
Dichlorodifluoromethane	100	60.0	60	4	25	70-130	*
Ethyl ether	100	103	103	6	25	70-130	
Isopropyl ether	100	93.8	94	6	25	70-130	
Tert-butyl ethyl ether	100	97.7	98	7	25	70-130	
Ethylbenzene	100	103	103	4	25	70-130	
Hexachlorobutadiene	100	101	101	5	25	70-130	
Isopropylbenzene	100	101	101	5	25	70-130	
Methyl acetate	1000	1200	120	14	25	70-130	
2-Butanone (MEK)	1000	923	92	9	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	942	94	10	25	70-130	
Methyl tert-butyl ether	100	95.7	96	9	25	70-130	
Methylcyclohexane	100	95.3	95	4	25	70-130	
Methylene Chloride	100	99.7	100	6	25	70-130	
m-Xylene & p-Xylene	200	195	98	4	25	70-130	
Naphthalene	100	101	101	14	25	70-130	
N-Propylbenzene	100	99.3	99	5	25	70-130	
o-Xylene	100	97.5	98	5	25	70-130	
4-Isopropyltoluene	100	107	107	7	25	70-130	
sec-Butylbenzene	100	103	103	6	25	70-130	
Styrene	100	97.6	98	5	25	70-130	
Tert-amyl methyl ether	100	100	100	9	25	70-130	
tert-Butylbenzene	100	104	104	6	25	70-130	
Tetrachloroethene	100	102	102	4	25	70-130	
Tetrahydrofuran	1000	1110	111	9	25	70-130	
Toluene	100	98.7	99	4	25	70-130	
trans-1,2-Dichloroethene	100	91.0	91	5	25	70-130	
trans-1,3-Dichloropropene	100	94.9	95	4	25	70-130	
Trichloroethene	100	98.8	99	4	25	70-130	
Trichlorofluoromethane	100	92.2	92	5	25	70-130	
Vinyl chloride	100	91.0	91	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/8/10 rc

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44944.D

Lab ID: LCS 360-48880/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5000	5020	100	70-130	
1,1,1-Trichloroethane	5000	4240	85	70-130	
1,1,2,2-Tetrachloroethane	5000	4480	90	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	3760	75	70-130	
1,1,2-Trichloroethane	5000	4630	93	70-130	
1,1-Dichloroethane	5000	4660	93	70-130	
1,1-Dichloroethene	5000	4320	86	70-130	
1,1-Dichloropropene	5000	4190	84	70-130	
1,2,3-Trichlorobenzene	5000	5040	101	70-130	
1,2,3-Trichloropropane	5000	5970	119	70-130	
1,2,4-Trichlorobenzene	5000	4850	97	70-130	
1,2,4-Trimethylbenzene	5000	4680	94	70-130	
1,2-Dibromo-3-Chloropropane	5000	4800	96	70-130	
Ethylene Dibromide	5000	4710	94	70-130	
1,2-Dichlorobenzene	5000	4560	91	70-130	
1,2-Dichloroethane	5000	4660	93	70-130	
Acetone	50000	48100	96	70-130	
1,2-Dichloropropane	5000	5080	102	70-130	
1,3,5-Trimethylbenzene	5000	4780	96	70-130	
1,3-Dichlorobenzene	5000	4780	96	70-130	
1,3-Dichloropropane	5000	4520	90	70-130	
1,4-Dichlorobenzene	5000	4510	90	70-130	
1,4-Dioxane	50000	43700	87	70-130	
2,2-Dichloropropane	5000	4390	88	70-130	
2,4,4-Trimethyl-1-pentene	5000	4140	83	70-130	
2,4,4-Trimethyl-2-pentene	5000	4000	80	70-130	
2-Chlorotoluene	5000	4600	92	70-130	
2-Hexanone	50000	43000	86	70-130	
4-Chlorotoluene	5000	4670	93	70-130	
Benzene	5000	4480	90	70-130	
Bromobenzene	5000	4550	91	70-130	
Chlorobromomethane	5000	4720	94	70-130	
Dichlorobromomethane	5000	4430	89	70-130	
Bromoform	5000	4140	83	70-130	
Bromomethane	5000	4610	92	70-130	
n-Butylbenzene	5000	4310	86	70-130	
Carbon disulfide	5000	4250	85	70-130	
Carbon tetrachloride	5000	4070	81	70-130	
Chlorobenzene	5000	4730	95	70-130	
Chloroethane	5000	4280	86	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 4/8/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44944.D

Lab ID: LCS 360-48880/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	5000	4600	92	70-130	
Chloromethane	5000	4080	82	70-130	
cis-1,2-Dichloroethene	5000	4530	91	70-130	
cis-1,3-Dichloropropene	5000	4250	85	70-130	
Cyclohexane	5000	3720	74	70-130	
Chlorodibromomethane	5000	4400	88	70-130	
Dibromomethane	5000	4780	96	70-130	
Dichlorodifluoromethane	5000	2320	46	70-130	*
Ethyl ether	5000	5090	102	70-130	
Isopropyl ether	5000	4580	92	70-130	
Tert-butyl ethyl ether	5000	4790	96	70-130	
Ethylbenzene	5000	4800	96	70-130	
Hexachlorobutadiene	5000	4280	86	70-130	
Isopropylbenzene	5000	4690	94	70-130	
Methyl acetate	50000	57000	114	70-130	
2-Butanone (MEK)	50000	46400	93	70-130	
4-Methyl-2-pentanone (MIBK)	50000	46200	92	70-130	
Methyl tert-butyl ether	5000	4780	96	70-130	
Methylcyclohexane	5000	3810	76	70-130	
Methylene Chloride	5000	4830	97	70-130	
m-Xylene & p-Xylene	10000	9100	91	70-130	
Naphthalene	5000	4720	94	70-130	
N-Propylbenzene	5000	4590	92	70-130	
o-Xylene	5000	4640	93	70-130	
4-Isopropyltoluene	5000	4890	98	70-130	
sec-Butylbenzene	5000	4640	93	70-130	
Styrene	5000	4640	93	70-130	
Tert-amyl methyl ether	5000	5020	100	70-130	
tert-Butylbenzene	5000	4810	96	70-130	
Tetrachloroethene	5000	4520	90	70-130	
Tetrahydrofuran	50000	55000	110	70-130	
Toluene	5000	4530	91	70-130	
trans-1,2-Dichloroethene	5000	4210	84	70-130	
trans-1,3-Dichloropropene	5000	4340	87	70-130	
Trichloroethene	5000	4540	91	70-130	
Trichlorofluoromethane	5000	3690	74	70-130	
Vinyl chloride	5000	3940	79	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 4/8/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44945.D

Lab ID: LCSD 360-48880/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5000	4720	94	6	25	70-130	
1,1,1-Trichloroethane	5000	4040	81	5	25	70-130	
1,1,2,2-Tetrachloroethane	5000	4370	87	2	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	3600	72	4	25	70-130	
1,1,2-Trichloroethane	5000	4500	90	3	25	70-130	
1,1-Dichloroethane	5000	4520	90	3	25	70-130	
1,1-Dichloroethene	5000	4180	84	3	25	70-130	
1,1-Dichloropropene	5000	4010	80	4	25	70-130	
1,2,3-Trichlorobenzene	5000	5060	101	0	25	70-130	
1,2,3-Trichloropropane	5000	5340	107	11	25	70-130	
1,2,4-Trichlorobenzene	5000	4990	100	3	25	70-130	
1,2,4-Trimethylbenzene	5000	4470	89	5	25	70-130	
1,2-Dibromo-3-Chloropropane	5000	4640	93	3	25	70-130	
Ethylene Dibromide	5000	4660	93	1	25	70-130	
1,2-Dichlorobenzene	5000	4580	92	0	25	70-130	
1,2-Dichloroethane	5000	4430	89	5	25	70-130	
Acetone	50000	47000	94	2	25	70-130	
1,2-Dichloropropane	5000	4940	99	3	25	70-130	
1,3,5-Trimethylbenzene	5000	4520	90	6	25	70-130	
1,3-Dichlorobenzene	5000	4570	91	4	25	70-130	
1,3-Dichloropropane	5000	4390	88	3	25	70-130	
1,4-Dichlorobenzene	5000	4500	90	0	25	70-130	
1,4-Dioxane	50000	58500	117	29	25	70-130	*
2,2-Dichloropropane	5000	4210	84	4	25	70-130	
2,4,4-Trimethyl-1-pentene	5000	3920	78	5	25	70-130	
2,4,4-Trimethyl-2-pentene	5000	3740	75	7	25	70-130	
2-Chlorotoluene	5000	4380	88	5	25	70-130	
2-Hexanone	50000	41600	83	3	25	70-130	
4-Chlorotoluene	5000	4430	89	5	25	70-130	
Benzene	5000	4390	88	2	25	70-130	
Bromobenzene	5000	4350	87	5	25	70-130	
Chlorobromomethane	5000	4530	91	4	25	70-130	
Dichlorobromomethane	5000	4310	86	3	25	70-130	
Bromoform	5000	4120	82	0	25	70-130	
Bromomethane	5000	4390	88	5	25	70-130	
n-Butylbenzene	5000	4380	88	2	25	70-130	
Carbon disulfide	5000	4090	82	4	25	70-130	
Carbon tetrachloride	5000	3920	78	4	25	70-130	
Chlorobenzene	5000	4540	91	4	25	70-130	
Chloroethane	5000	4080	82	5	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 4/8/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44945.D

Lab ID: LCSD 360-48880/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	5000	4570	91	1	25	70-130	
Chloromethane	5000	3870	77	5	25	70-130	
cis-1,2-Dichloroethene	5000	4330	87	4	25	70-130	
cis-1,3-Dichloropropene	5000	4190	84	2	25	70-130	
Cyclohexane	5000	3570	71	4	25	70-130	
Chlorodibromomethane	5000	4310	86	2	25	70-130	
Dibromomethane	5000	4620	92	3	25	70-130	
Dichlorodifluoromethane	5000	2240	45	3	25	70-130	*
Ethyl ether	5000	4870	97	4	25	70-130	
Isopropyl ether	5000	4440	89	3	25	70-130	
Tert-butyl ethyl ether	5000	4600	92	4	25	70-130	
Ethylbenzene	5000	4590	92	5	25	70-130	
Hexachlorobutadiene	5000	4220	84	1	25	70-130	
Isopropylbenzene	5000	4430	89	6	25	70-130	
Methyl acetate	50000	56100	112	2	25	70-130	
2-Butanone (MEK)	50000	43200	86	7	25	70-130	
4-Methyl-2-pentanone (MIBK)	50000	43900	88	5	25	70-130	
Methyl tert-butyl ether	5000	4510	90	6	25	70-130	
Methylcyclohexane	5000	3640	73	5	25	70-130	
Methylene Chloride	5000	4650	93	4	25	70-130	
m-Xylene & p-Xylene	10000	8710	87	4	25	70-130	
Naphthalene	5000	4720	94	0	25	70-130	
N-Propylbenzene	5000	4350	87	5	25	70-130	
o-Xylene	5000	4420	88	5	25	70-130	
4-Isopropyltoluene	5000	4640	93	5	25	70-130	
sec-Butylbenzene	5000	4400	88	5	25	70-130	
Styrene	5000	4460	89	4	25	70-130	
Tert-amyl methyl ether	5000	4730	95	6	25	70-130	
tert-Butylbenzene	5000	4550	91	6	25	70-130	
Tetrachloroethene	5000	4380	88	3	25	70-130	
Tetrahydrofuran	50000	52100	104	5	25	70-130	
Toluene	5000	4460	89	2	25	70-130	
trans-1,2-Dichloroethene	5000	4020	80	5	25	70-130	
trans-1,3-Dichloropropene	5000	4310	86	1	25	70-130	
Trichloroethene	5000	4430	89	2	25	70-130	
Trichlorofluoromethane	5000	3560	71	4	25	70-130	
Vinyl chloride	5000	3720	74	6	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

TC 4/8/10

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44968.D

Lab ID: LCS 360-48927/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	109	109	70-130	
1,1,1-Trichloroethane	100	95.9	96	70-130	
1,1,2,2-Tetrachloroethane	100	99.4	99	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	91.2	91	70-130	
1,1,2-Trichloroethane	100	106	106	70-130	
1,1-Dichloroethane	100	107	107	70-130	
1,1-Dichloroethene	100	101	101	70-130	
1,1-Dichloropropene	100	98.9	99	70-130	
1,2,3-Trichlorobenzene	100	114	114	70-130	
1,2,3-Trichloropropane	100	122	122	70-130	
1,2,4-Trichlorobenzene	100	112	112	70-130	
1,2,4-Trimethylbenzene	100	103	103	70-130	
1,2-Dibromo-3-Chloropropane	100	101	101	70-130	
Ethylene Dibromide	100	108	108	70-130	
1,2-Dichlorobenzene	100	105	105	70-130	
1,2-Dichloroethane	100	103	103	70-130	
Acetone	1000	1040	104	70-130	
1,2-Dichloropropane	100	115	115	70-130	
1,3,5-Trimethylbenzene	100	106	106	70-130	
1,3-Dichlorobenzene	100	106	106	70-130	
1,3-Dichloropropane	100	104	104	70-130	
1,4-Dichlorobenzene	100	106	106	70-130	
1,4-Dioxane	1000	1230	123	70-130	
2,2-Dichloropropane	100	113	113	70-130	
2,4,4-Trimethyl-1-pentene	100	102	102	70-130	
2,4,4-Trimethyl-2-pentene	100	97.7	98	70-130	
2-Chlorotoluene	100	102	102	70-130	
2-Hexanone	1000	939	94	70-130	
4-Chlorotoluene	100	103	103	70-130	
Benzene	100	105	105	70-130	
Bromobenzene	100	99.1	99	70-130	
Chlorobromomethane	100	104	104	70-130	
Dichlorobromomethane	100	104	104	70-130	
Bromoform	100	100	100	70-130	
Bromomethane	100	111	111	70-130	
n-Butylbenzene	100	105	105	70-130	
Carbon disulfide	100	98.4	98	70-130	
Carbon tetrachloride	100	96.8	97	70-130	
Chlorobenzene	100	108	108	70-130	
Chloroethane	100	104	104	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/8/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44968.D

Lab ID: LCS 360-48927/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	108	108	70-130	
Chloromethane	100	98.0	98	70-130	
cis-1,2-Dichloroethene	100	102	102	70-130	
cis-1,3-Dichloropropene	100	104	104	70-130	
Cyclohexane	100	83.2	83	70-130	
Chlorodibromomethane	100	104	104	70-130	
Dibromomethane	100	104	104	70-130	
Dichlorodifluoromethane	100	59.4	59	70-130	*
Ethyl ether	100	109	109	70-130	
Isopropyl ether	100	103	103	70-130	
Tert-butyl ethyl ether	100	105	105	70-130	
Ethylbenzene	100	109	109	70-130	
Hexachlorobutadiene	100	105	105	70-130	
Isopropylbenzene	100	105	105	70-130	
Methyl acetate	1000	1020	102	70-130	
2-Butanone (MEK)	1000	990	99	70-130	
4-Methyl-2-pentanone (MIBK)	1000	977	98	70-130	
Methyl tert-butyl ether	100	102	102	70-130	
Methylcyclohexane	100	87.0	87	70-130	
Methylene Chloride	100	115	115	70-130	
m-Xylene & p-Xylene	200	207	103	70-130	
Naphthalene	100	103	103	70-130	
N-Propylbenzene	100	103	103	70-130	
o-Xylene	100	104	104	70-130	
4-Isopropyltoluene	100	108	108	70-130	
sec-Butylbenzene	100	103	103	70-130	
Styrene	100	103	103	70-130	
Tert-amyl methyl ether	100	108	108	70-130	
tert-Butylbenzene	100	106	106	70-130	
Tetrachloroethene	100	111	111	70-130	
Tetrahydrofuran	1000	1150	115	70-130	
Toluene	100	109	109	70-130	
trans-1,2-Dichloroethene	100	95.2	95	70-130	
trans-1,3-Dichloropropene	100	105	105	70-130	
Trichloroethene	100	109	109	70-130	
Trichlorofluoromethane	100	94.9	95	70-130	
Vinyl chloride	100	95.5	96	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/8/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44969.D

Lab ID: LCSD 360-48927/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	91.5	92	18	25	70-130	
1,1,1-Trichloroethane	100	82.5	83	15	25	70-130	
1,1,2,2-Tetrachloroethane	100	79.4	79	22	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	82.6	83	10	25	70-130	
1,1,2-Trichloroethane	100	88.1	88	19	25	70-130	
1,1-Dichloroethane	100	91.3	91	16	25	70-130	
1,1-Dichloroethene	100	85.6	86	17	25	70-130	
1,1-Dichloropropene	100	84.0	84	16	25	70-130	
1,2,3-Trichlorobenzene	100	95.8	96	17	25	70-130	
1,2,3-Trichloropropane	100	99.8	100	20	25	70-130	
1,2,4-Trichlorobenzene	100	94.9	95	16	25	70-130	
1,2,4-Trimethylbenzene	100	86.8	87	17	25	70-130	
1,2-Dibromo-3-Chloropropane	100	86.8	87	16	25	70-130	
Ethylene Dibromide	100	87.8	88	21	25	70-130	
1,2-Dichlorobenzene	100	88.6	89	17	25	70-130	
1,2-Dichloroethane	100	84.9	85	19	25	70-130	
Acetone	1000	896	90	15	25	70-130	
1,2-Dichloropropane	100	97.9	98	16	25	70-130	
1,3,5-Trimethylbenzene	100	88.9	89	17	25	70-130	
1,3-Dichlorobenzene	100	88.5	88	18	25	70-130	
1,3-Dichloropropane	100	84.8	85	21	25	70-130	
1,4-Dichlorobenzene	100	90.0	90	16	25	70-130	
1,4-Dioxane	1000	1030	103	17	25	70-130	
2,2-Dichloropropane	100	95.6	96	17	25	70-130	
2,4,4-Trimethyl-1-pentene	100	92.9	93	10	25	70-130	
2,4,4-Trimethyl-2-pentene	100	86.8	87	12	25	70-130	
2-Chlorotoluene	100	85.9	86	17	25	70-130	
2-Hexanone	1000	768	77	20	25	70-130	
4-Chlorotoluene	100	87.5	88	17	25	70-130	
Benzene	100	89.2	89	16	25	70-130	
Bromobenzene	100	82.9	83	18	25	70-130	
Chlorobromomethane	100	89.3	89	16	25	70-130	
Dichlorobromomethane	100	86.5	86	18	25	70-130	
Bromoform	100	82.7	83	19	25	70-130	
Bromomethane	100	98.9	99	11	25	70-130	
n-Butylbenzene	100	89.0	89	17	25	70-130	
Carbon disulfide	100	85.5	86	14	25	70-130	
Carbon tetrachloride	100	83.8	84	14	25	70-130	
Chlorobenzene	100	88.3	88	20	25	70-130	
Chloroethane	100	91.3	91	13	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/8/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V44969.D

Lab ID: LCSD 360-48927/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	91.3	91	17	25	70-130	
Chloromethane	100	86.5	87	12	25	70-130	
cis-1,2-Dichloroethene	100	87.6	88	15	25	70-130	
cis-1,3-Dichloropropene	100	85.3	85	19	25	70-130	
Cyclohexane	100	88.2	88	6	25	70-130	
Chlorodibromomethane	100	84.5	85	20	25	70-130	
Dibromomethane	100	87.1	87	18	25	70-130	
Dichlorodifluoromethane	100	52.6	53	12	25	70-130	*
Ethyl ether	100	90.8	91	18	25	70-130	
Isopropyl ether	100	86.1	86	18	25	70-130	
Tert-butyl ethyl ether	100	87.7	88	18	25	70-130	
Ethylbenzene	100	91.5	92	18	25	70-130	
Hexachlorobutadiene	100	90.8	91	15	25	70-130	
Isopropylbenzene	100	88.1	88	17	25	70-130	
Methyl acetate	1000	1230	123	19	25	70-130	
2-Butanone (MEK)	1000	824	82	18	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	817	82	18	25	70-130	
Methyl tert-butyl ether	100	84.8	85	18	25	70-130	
Methylcyclohexane	100	92.1	92	6	25	70-130	
Methylene Chloride	100	99.4	99	15	25	70-130	
m-Xylene & p-Xylene	200	173	86	18	25	70-130	
Naphthalene	100	86.3	86	17	25	70-130	
N-Propylbenzene	100	86.8	87	17	25	70-130	
o-Xylene	100	86.4	86	19	25	70-130	
4-Isopropyltoluene	100	92.4	92	15	25	70-130	
sec-Butylbenzene	100	87.1	87	17	25	70-130	
Styrene	100	84.3	84	20	25	70-130	
Tert-amyl methyl ether	100	89.8	90	18	25	70-130	
tert-Butylbenzene	100	89.7	90	16	25	70-130	
Tetrachloroethene	100	92.6	93	18	25	70-130	
Tetrahydrofuran	1000	973	97	17	25	70-130	
Toluene	100	91.1	91	18	25	70-130	
trans-1,2-Dichloroethene	100	82.8	83	14	25	70-130	
trans-1,3-Dichloropropene	100	85.3	85	21	25	70-130	
Trichloroethene	100	92.5	92	17	25	70-130	
Trichlorofluoromethane	100	83.8	84	12	25	70-130	
Vinyl chloride	100	85.0	85	12	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/8/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V45235.D

Lab ID: LCS 360-49322/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	102	102	70-130	
1,1,1-Trichloroethane	100	92.4	92	70-130	
1,1,2,2-Tetrachloroethane	100	94.6	95	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	89.0	89	70-130	
1,1,2-Trichloroethane	100	96.0	96	70-130	
1,1-Dichloroethane	100	102	102	70-130	
1,1-Dichloroethene	100	99.7	100	70-130	
1,1-Dichloropropene	100	94.9	95	70-130	
1,2,3-Trichlorobenzene	100	105	105	70-130	
1,2,3-Trichloropropane	100	113	113	70-130	
1,2,4-Trichlorobenzene	100	104	104	70-130	
1,2,4-Trimethylbenzene	100	97.4	97	70-130	
1,2-Dibromo-3-Chloropropane	100	92.7	93	70-130	
Ethylene Dibromide	100	95.7	96	70-130	
1,2-Dichlorobenzene	100	98.4	98	70-130	
1,2-Dichloroethane	100	97.7	98	70-130	
Acetone	1000	1080	108	70-130	
1,2-Dichloropropane	100	107	107	70-130	
1,3,5-Trimethylbenzene	100	99.7	100	70-130	
1,3-Dichlorobenzene	100	95.9	96	70-130	
1,3-Dichloropropane	100	93.0	93	70-130	
1,4-Dichlorobenzene	100	97.2	97	70-130	
1,4-Dioxane	1000	1090	109	70-130	
2,2-Dichloropropane	100	109	109	70-130	
2,4,4-Trimethyl-1-pentene	100	101	101	70-130	
2,4,4-Trimethyl-2-pentene	100	96.9	97	70-130	
2-Chlorotoluene	100	95.7	96	70-130	
2-Hexanone	1000	886	89	70-130	
4-Chlorotoluene	100	96.0	96	70-130	
Benzene	100	98.4	98	70-130	
Bromobenzene	100	91.7	92	70-130	
Chlorobromomethane	100	97.1	97	70-130	
Dichlorobromomethane	100	94.8	95	70-130	
Bromoform	100	88.5	88	70-130	
Bromomethane	100	99.6	100	70-130	
n-Butylbenzene	100	102	102	70-130	
Carbon disulfide	100	93.6	94	70-130	
Carbon tetrachloride	100	91.6	92	70-130	
Chlorobenzene	100	100	100	70-130	
Chloroethane	100	90.6	91	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/5/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V45235.D

Lab ID: LCS 360-49322/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	100	102	102	70-130	
Chloromethane	100	89.9	90	70-130	
cis-1,2-Dichloroethene	100	96.5	96	70-130	
cis-1,3-Dichloropropene	100	93.0	93	70-130	
Cyclohexane	100	90.3	90	70-130	
Chlorodibromomethane	100	89.6	90	70-130	
Dibromomethane	100	97.1	97	70-130	
Dichlorodifluoromethane	100	58.2	58	70-130	*
Ethyl ether	100	104	104	70-130	
Isopropyl ether	100	97.7	98	70-130	
Tert-butyl ethyl ether	100	99.8	100	70-130	
Ethylbenzene	100	104	104	70-130	
Hexachlorobutadiene	100	94.6	95	70-130	
Isopropylbenzene	100	102	102	70-130	
Methyl acetate	1000	1350	135	70-130	*
2-Butanone (MEK)	1000	996	100	70-130	
4-Methyl-2-pentanone (MIBK)	1000	964	96	70-130	
Methyl tert-butyl ether	100	96.2	96	70-130	
Methylcyclohexane	100	94.0	94	70-130	
Methylene Chloride	100	106	106	70-130	
m-Xylene & p-Xylene	200	195	97	70-130	
Naphthalene	100	95.3	95	70-130	
N-Propylbenzene	100	97.8	98	70-130	
o-Xylene	100	98.5	99	70-130	
4-Isopropyltoluene	100	102	102	70-130	
sec-Butylbenzene	100	99.8	100	70-130	
Styrene	100	96.5	97	70-130	
Tert-amyl methyl ether	100	103	103	70-130	
tert-Butylbenzene	100	101	101	70-130	
Tetrachloroethene	100	98.5	99	70-130	
Tetrahydrofuran	1000	1130	113	70-130	
Toluene	100	101	101	70-130	
trans-1,2-Dichloroethene	100	91.8	92	70-130	
trans-1,3-Dichloropropene	100	92.0	92	70-130	
Trichloroethene	100	104	104	70-130	
Trichlorofluoromethane	100	84.4	84	70-130	
Vinyl chloride	100	87.9	88	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/8/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V45236.D

Lab ID: LCSD 360-49322/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	100	107	107	5	25	70-130	
1,1,1-Trichloroethane	100	99.7	100	8	25	70-130	
1,1,2,2-Tetrachloroethane	100	95.4	95	1	25	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	90.2	90	1	25	70-130	
1,1,2-Trichloroethane	100	94.1	94	2	25	70-130	
1,1-Dichloroethane	100	107	107	5	25	70-130	
1,1-Dichloroethene	100	104	104	4	25	70-130	
1,1-Dichloropropene	100	98.9	99	4	25	70-130	
1,2,3-Trichlorobenzene	100	104	104	1	25	70-130	
1,2,3-Trichloropropane	100	112	112	1	25	70-130	
1,2,4-Trichlorobenzene	100	105	105	0	25	70-130	
1,2,4-Trimethylbenzene	100	105	105	8	25	70-130	
1,2-Dibromo-3-Chloropropane	100	87.7	88	5	25	70-130	
Ethylene Dibromide	100	92.8	93	3	25	70-130	
1,2-Dichlorobenzene	100	102	102	3	25	70-130	
1,2-Dichloroethane	100	96.8	97	1	25	70-130	
Acetone	1000	881	88	21	25	70-130	
1,2-Dichloropropane	100	110	110	3	25	70-130	
1,3,5-Trimethylbenzene	100	109	109	9	25	70-130	
1,3-Dichlorobenzene	100	99.9	100	4	25	70-130	
1,3-Dichloropropane	100	90.4	90	3	25	70-130	
1,4-Dichlorobenzene	100	101	101	4	25	70-130	
1,4-Dioxane	1000	1000	100	9	25	70-130	
2,2-Dichloropropane	100	122	122	11	25	70-130	
2,4,4-Trimethyl-1-pentene	100	105	105	3	25	70-130	
2,4,4-Trimethyl-2-pentene	100	97.3	97	0	25	70-130	
2-Chlorotoluene	100	103	103	8	25	70-130	
2-Hexanone	1000	824	82	7	25	70-130	
4-Chlorotoluene	100	102	102	6	25	70-130	
Benzene	100	103	103	4	25	70-130	
Bromobenzene	100	95.9	96	5	25	70-130	
Chlorobromomethane	100	97.7	98	1	25	70-130	
Dichlorobromomethane	100	94.7	95	0	25	70-130	
Bromoform	100	86.0	86	3	25	70-130	
Bromomethane	100	114	114	13	25	70-130	
n-Butylbenzene	100	110	110	7	25	70-130	
Carbon disulfide	100	99.9	100	7	25	70-130	
Carbon tetrachloride	100	97.0	97	6	25	70-130	
Chlorobenzene	100	105	105	5	25	70-130	
Chloroethane	100	102	102	12	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/8/10 TC

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Matrix: Solid Level: Low Lab File ID: V45236.D

Lab ID: LCSD 360-49322/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	100	105	105	4	25	70-130	
Chloromethane	100	101	101	11	25	70-130	
cis-1,2-Dichloroethene	100	102	102	6	25	70-130	
cis-1,3-Dichloropropene	100	92.4	92	1	25	70-130	
Cyclohexane	100	93.1	93	3	25	70-130	
Chlorodibromomethane	100	88.7	89	1	25	70-130	
Dibromomethane	100	96.9	97	0	25	70-130	
Dichlorodifluoromethane	100	60.3	60	4	25	70-130	*
Ethyl ether	100	102	102	2	25	70-130	
Isopropyl ether	100	99.8	100	2	25	70-130	
Tert-butyl ethyl ether	100	99.5	100	0	25	70-130	
Ethylbenzene	100	111	111	7	25	70-130	
Hexachlorobutadiene	100	97.1	97	3	25	70-130	
Isopropylbenzene	100	110	110	8	25	70-130	
Methyl acetate	1000	1340	134	1	25	70-130	*
2-Butanone (MEK)	1000	900	90	10	25	70-130	
4-Methyl-2-pentanone (MIBK)	1000	912	91	5	25	70-130	
Methyl tert-butyl ether	100	95.0	95	1	25	70-130	
Methylcyclohexane	100	95.3	95	1	25	70-130	
Methylene Chloride	100	110	110	4	25	70-130	
m-Xylene & p-Xylene	200	207	103	6	25	70-130	
Naphthalene	100	92.9	93	3	25	70-130	
N-Propylbenzene	100	106	106	8	25	70-130	
o-Xylene	100	105	105	7	25	70-130	
4-Isopropyltoluene	100	111	111	9	25	70-130	
sec-Butylbenzene	100	109	109	8	25	70-130	
Styrene	100	103	103	6	25	70-130	
Tert-amyl methyl ether	100	101	101	2	25	70-130	
tert-Butylbenzene	100	110	110	8	25	70-130	
Tetrachloroethene	100	101	101	3	25	70-130	
Tetrahydrofuran	1000	1070	107	6	25	70-130	
Toluene	100	105	105	4	25	70-130	
trans-1,2-Dichloroethene	100	97.9	98	6	25	70-130	
trans-1,3-Dichloropropene	100	89.1	89	3	25	70-130	
Trichloroethene	100	107	107	3	25	70-130	
Trichlorofluoromethane	100	88.8	89	5	25	70-130	
Vinyl chloride	100	96.7	97	9	25	70-130	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

4/3/10 TC

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Sample No.: CCVIS 360-48878/2 Date Analyzed: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44921.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22279	5.67	477588	5.89	286880	8.33
UPPER LIMIT		44558	6.17	955176	6.39	573760	8.83
LOWER LIMIT		11140	5.17	238794	5.39	143440	7.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48877/1-A		22284	5.67	482795	5.89	294219	8.33
LCSD 360-48877/2-A		22745	5.67	479756	5.89	288925	8.33
MB 360-48877/3-A		17141	5.66	394856	5.89	236414	8.33
360-24499-4	OC-SB-469-36/37-XXX	17008	5.66	403562	5.88	234628	8.33
360-24499-5	OC-SB-469-7.0/9.0-XXX	18992	5.66	430011	5.89	256167	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Sample No.: CCVIS 360-48878/2 Date Analyzed: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44921.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		133935	10.14				
UPPER LIMIT		267870	10.64				
LOWER LIMIT		66968	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48877/1-A		133940	10.13				
LCSD 360-48877/2-A		139063	10.14				
MB 360-48877/3-A		117984	10.13				
360-24499-4	OC-SB-469-36/37-XXX	108688	10.14				
360-24499-5	OC-SB-469-7.0/9.0-XXX	117558	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Sample No.: CCVIS 360-48879/2 Date Analyzed: 09/12/2009 21:18

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44943.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20690	5.66	465674	5.89	288473	8.33
UPPER LIMIT		41380	6.16	931348	6.39	576946	8.83
LOWER LIMIT		10345	5.16	232837	5.39	144237	7.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48880/1-A		21066	5.66	453081	5.89	270092	8.33
LCSD 360-48880/2-A		20098	5.66	458830	5.89	281155	8.33
MB 360-48880/3-A		19356	5.66	443251	5.89	272093	8.33
360-24499-16	OC-SB-417-8.0/10-XXX	18021	5.66	412533	5.89	244204	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Sample No.: CCVIS 360-48879/2 Date Analyzed: 09/12/2009 21:18

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44943.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		132224	10.14				
UPPER LIMIT		264448	10.64				
LOWER LIMIT		66112	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48880/1-A		133483	10.14				
LCSD 360-48880/2-A		131053	10.14				
MB 360-48880/3-A		128775	10.14				
360-24499-16	OC-SB-417-8.0/10-XXX	125314	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/8/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Sample No.: CCVIS 360-48929/2 Date Analyzed: 09/14/2009 14:56

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44967.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		25443	5.68	573596	5.90	358752	8.34
UPPER LIMIT		50886	6.18	1147192	6.40	717504	8.84
LOWER LIMIT		12722	5.18	286798	5.40	179376	7.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48927/1-A		22347	5.68	506672	5.90	315859	8.34
LCSD 360-48927/2-A		20889	5.68	483191	5.91	305575	8.34
MB 360-48927/3-A		22703	5.68	540888	5.90	327458	8.34
360-24499-19	OC-SB-434-7.0-/9.0-XXX	20699	5.68	471603	5.90	287563	8.34
360-24499-22	OC-SB-450-8.0/10-XXX	19189	5.67	438367	5.90	257279	8.33
360-24499-1	OC-SB-466-6.0/8.0-XXX	21478	5.67	501955	5.90	299622	8.34
360-24499-2	OC-SB-469-0.0/1.0-XXX	20077	5.67	443373	5.90	274845	8.34
360-24499-6	OC-SB-466-0.0/1.0-XXX	20110	5.67	441045	5.90	268195	8.33
360-24499-7	OC-SB-466-30/32-XXX	18823	5.67	431184	5.90	259126	8.33
360-24499-8	OC-TBK-015	19749	5.67	448972	5.90	273277	8.34
360-24499-14	OC-SB-417-0.0/1.0-XXX	18510	5.67	432748	5.89	256501	8.33
360-24499-17	OC-SB-434-0.0/1.0-XXX	18526	5.67	427430	5.90	256390	8.33
360-24499-20	OC-SB-450-0.0/1.0-XXX	19390	5.67	434894	5.89	260648	8.33
360-24499-23	OC-TBK-016	18354	5.67	425613	5.90	252912	8.34

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/8/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Sample No.: CCVIS 360-48929/2 Date Analyzed: 09/14/2009 14:56

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44967.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		148735	10.15				
UPPER LIMIT		297470	10.65				
LOWER LIMIT		74368	9.65				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48927/1-A		144443	10.15				
LCSD 360-48927/2-A		140692	10.14				
MB 360-48927/3-A		141492	10.15				
360-24499-19	OC-SB-434-7.0-/9.0-XXX	138605	10.15				
360-24499-22	OC-SB-450-8.0/10-XXX	122804	10.14				
360-24499-1	OC-SB-466-6.0/8.0-XXX	128138	10.14				
360-24499-2	OC-SB-469-0.0/1.0-XXX	125532	10.14				
360-24499-6	OC-SB-466-0.0/1.0-XXX	123322	10.14				
360-24499-7	OC-SB-466-30/32-XXX	126877	10.14				
360-24499-8	OC-TBK-015	124936	10.14				
360-24499-14	OC-SB-417-0.0/1.0-XXX	123058	10.14				
360-24499-17	OC-SB-434-0.0/1.0-XXX	116259	10.14				
360-24499-20	OC-SB-450-0.0/1.0-XXX	123567	10.14				
360-24499-23	OC-TBK-016	122897	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/8/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Sample No.: CCVIS 360-49326/3 Date Analyzed: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45234.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20654	5.65	525989	5.88	323542	8.32
UPPER LIMIT		41308	6.15	1051978	6.38	647084	8.82
LOWER LIMIT		10327	5.15	262995	5.38	161771	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49322/1-A		22932	5.66	509023	5.88	303650	8.32
LCSD 360-49322/2-A		21089	5.65	498711	5.88	292785	8.32
MB 360-49322/3-A		18137	5.65	423384	5.88	250329	8.31
360-24499-3	OC-SB-469-28/30-XXX	24724	5.65	574498	5.87	352397	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/8/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Sample No.: CCVIS 360-49326/3 Date Analyzed: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45234.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		130876	10.13				
UPPER LIMIT		261752	10.63				
LOWER LIMIT		65438	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49322/1-A		137113	10.13				
LCSD 360-49322/2-A		133281	10.13				
MB 360-49322/3-A		119009	10.12				
360-24499-3	OC-SB-469-28/30-XXX	142913	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 4/8/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3807		15.8	20.0	-21.1	30.0
Chloromethane	Ave	0.9034	0.7000	0.1000	16.5	20.0	-22.5	30.0
Vinyl chloride	Ave	0.6300	0.4878		16.4	20.0	-22.6*	20.0
Bromomethane	Ave	0.3127	0.2577		17.3	20.0	-17.6	30.0
Chloroethane	Lin2		0.2777		16.9	20.0	-15.4	30.0
Trichlorofluoromethane	Ave	0.5183	0.4067		15.7	20.0	-21.5	30.0
Ethyl ether	Ave	0.2603	0.2193		18.0	20.0	-15.7	30.0
1,1-Dichloroethene	Ave	0.3201	0.2699		17.5	20.0	-15.7	20.0
Carbon disulfide	Ave	1.395	1.145		16.4	20.0	-18.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1556		16.8	20.0	-16.2	30.0
Acrolein	Ave	0.7836	0.6865		876	1000	-12.4	30.0
Methylene Chloride	Lin1		0.3167		18.0	20.0	-9.9	30.0
Acetone	Lin2		0.0593		227	200	13.5	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.5751		16.3	20.0	-18.5	30.0
Methyl acetate	Lin1		0.1613		222	200	10.8	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6100		17.4	20.0	-12.8	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2993		156	200	-21.9	30.0
Isopropyl ether	Ave	1.997	1.736		17.5	20.0	-13.1	30.0
1,1-Dichloroethane	Ave	0.7919	0.6546	0.1000	17.6	20.0	-17.3	30.0
Acrylonitrile	Lin1		0.0634		19.5	20.0	-2.6	30.0
Tert-butyl ethyl ether	Ave	1.194	1.057		17.7	20.0	-11.4	30.0
Vinyl acetate	Ave	0.5745	0.5212		181	200	-9.3	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5153		16.8	20.0	-16.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.4491		19.1	20.0	-16.4	30.0
Cyclohexane	Ave	0.8898	0.7159		16.2	20.0	-19.5	30.0
Chlorobromomethane	Ave	0.1386	0.1200		17.3	20.0	-13.4	30.0
Chloroform	Ave	0.6243	0.5025		17.2	20.0	-19.5	20.0
Carbon tetrachloride	Ave	0.3645	0.3163		17.3	20.0	-13.2	30.0
Tetrahydrofuran	Ave	0.0762	0.0687		197	200	-9.8	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4317		16.5	20.0	-16.5	30.0
2-Butanone (MEK)	Ave	0.0960	0.0919		203	200	-4.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4149		16.6	20.0	-16.8	30.0
Benzene	Ave	1.352	1.159		17.2	20.0	-14.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6945		18.2	20.0	-8.9	30.0
1,2-Dichloroethane	Ave	0.3253	0.2832		17.4	20.0	-13.0	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3159		18.4	20.0	-17.0	30.0
Methylcyclohexane	Ave	0.6300	0.5238		16.7	20.0	-16.9	30.0
Trichloroethene	Ave	0.3155	0.2655		17.5	20.0	-15.8	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1641		17.5	20.0	-12.3	30.0
Dibromomethane	Ave	0.1188	0.1047		17.5	20.0	-11.9	30.0

TC 4/8/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2688		19.1	20.0	-15.5	20.0
Dichlorobromomethane	Ave	0.3427	0.2893		16.8	20.0	-15.6	30.0
Methyl methacrylate	Ave	0.0864	0.0766		17.4	20.0	-11.3	30.0
1,4-Dioxane	Qua		0.0193		179	200	-10.5	30.0
2-Chloroethyl vinyl ether	Lin		0.0582		305	200	52.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3425		17.2	20.0	-13.8	30.0
Toluene	Ave	0.7062	0.6062		17.7	20.0	-14.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1893		185	200	-7.6	30.0
Tetrachloroethene	Ave	0.1859	0.1648		17.7	20.0	-11.3	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2551		17.5	20.0	-12.4	30.0
1,1,2-Trichloroethane	Lin1		0.1117		17.9	20.0	-10.4	30.0
Chlorodibromomethane	Ave	0.1504	0.1330		17.7	20.0	-11.6	30.0
1,3-Dichloropropane	Ave	0.2828	0.2486		17.6	20.0	-12.1	30.0
Ethylene Dibromide	Ave	0.1260	0.1121		17.8	20.0	-11.0	30.0
2-Hexanone	Ave	0.1294	0.1199		188	200	-7.3	30.0
Chlorobenzene	Ave	1.096	0.9706	0.3000	17.8	20.0	-11.4	30.0
Ethylbenzene	Ave	2.279	1.964		18.4	20.0	-13.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3074		18.5	20.0	-11.5	30.0
m-Xylene & p-Xylene	Ave	1.752	1.527		34.9	40.0	-12.9	30.0
o-Xylene	Ave	1.903	1.666		17.6	20.0	-12.5	30.0
Styrene	Ave	1.294	1.155		17.9	20.0	-10.8	30.0
Bromoform	Ave	0.3131	0.2788	0.1000	16.9	20.0	-11.0	20.0
Isopropylbenzene	Ave	2.255	2.019		17.9	20.0	-10.5	30.0
Bromobenzene	Ave	1.024	0.8796		17.3	20.0	-14.1	30.0
N-Propylbenzene	Ave	2.901	2.544		17.5	20.0	-12.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5992	0.3000	17.4	20.0	-12.5	30.0
2-Chlorotoluene	Ave	1.927	1.665		17.4	20.0	-13.6	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.671		18.1	20.0	-9.7	30.0
1,2,3-Trichloropropane	Lin2		0.0610		19.6	20.0	-1.9	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0982		18.5	20.0	-7.7	30.0
4-Chlorotoluene	Ave	1.683	1.457		17.2	20.0	-13.4	30.0
tert-Butylbenzene	Ave	1.471	1.348		18.3	20.0	-8.4	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.660		17.6	20.0	-11.4	30.0
sec-Butylbenzene	Ave	2.518	2.276		18.1	20.0	-9.6	30.0
4-Isopropyltoluene	Ave	1.894	1.716		18.1	20.0	-9.4	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7388		17.5	20.0	-12.2	30.0
1,4-Dichlorobenzene	Ave	1.788	1.553		17.4	20.0	-13.2	30.0
n-Butylbenzene	Ave	4.614	4.077		17.7	20.0	-11.6	30.0
1,2-Dichlorobenzene	Ave	1.492	1.313		17.6	20.0	-12.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0673		17.5	20.0	-12.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4388		17.0	20.0	-15.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-48878/2 Calibration Date: 09/12/2009 12:31

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.8609		17.7	20.0	-11.7	30.0
Naphthalene	Ave	1.288	1.128		17.5	20.0	-12.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6515		18.1	20.0	-9.7	30.0
Dibromofluoromethane	Ave	0.2328	0.2313		19.9	20.0	-0.7	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8911		20.1	20.0	0.3	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5556		19.4	20.0	-3.1	30.0

TC
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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-48879/2 Calibration Date: 09/12/2009 21:18

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44943.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3498		14.5	20.0	-27.5	30.0
Chloromethane	Ave	0.9034	0.7477	0.1000	17.7	20.0	-17.2	30.0
Vinyl chloride	Ave	0.6300	0.4954		16.6	20.0	-21.4*	20.0
Bromomethane	Ave	0.3127	0.2758		18.5	20.0	-11.8	30.0
Chloroethane	Lin2		0.2924		17.9	20.0	-10.4	30.0
Trichlorofluoromethane	Ave	0.5183	0.3939		15.2	20.0	-24.0	30.0
Ethyl ether	Ave	0.2603	0.2250		18.5	20.0	-13.6	30.0
1,1-Dichloroethene	Ave	0.3201	0.2748		17.8	20.0	-14.1	20.0
Carbon disulfide	Ave	1.395	1.184		17.0	20.0	-15.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1472		15.8	20.0	-20.8	30.0
Acrolein	Ave	0.7836	0.6880		878	1000	-12.2	30.0
Methylene Chloride	Lin1		0.3322		19.0	20.0	-5.2	30.0
Acetone	Lin2		0.0548		210	200	4.8	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6085		17.3	20.0	-13.8	30.0
Methyl acetate	Lin1		0.1605		221	200	10.3	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6105		17.5	20.0	-12.7	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3166		165	200	-17.4	30.0
Isopropyl ether	Ave	1.997	1.788		18.0	20.0	-10.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.6939	0.1000	18.7	20.0	-12.4	30.0
Acrylonitrile	Lin1		0.0645		19.8	20.0	-0.8	30.0
Tert-butyl ethyl ether	Ave	1.194	1.082		18.1	20.0	-9.3	30.0
Vinyl acetate	Ave	0.5745	0.5036		175	200	-12.3	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5521		17.9	20.0	-10.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.4233		17.8	20.0	-21.2	30.0
Cyclohexane	Ave	0.8898	0.6751		15.3	20.0	-24.1	30.0
Chlorobromomethane	Ave	0.1386	0.1264		18.2	20.0	-8.8	30.0
Chloroform	Ave	0.6243	0.5442		18.6	20.0	-12.8	20.0
Carbon tetrachloride	Ave	0.3645	0.3059		16.7	20.0	-16.1	30.0
Tetrahydrofuran	Ave	0.0762	0.0702		201	200	-7.8	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4447		17.0	20.0	-14.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0860		190	200	-10.5	30.0
1,1-Dichloropropene	Ave	0.4990	0.4329		17.3	20.0	-13.2	30.0
Benzene	Ave	1.352	1.251		18.5	20.0	-7.5	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7173		18.8	20.0	-5.9	30.0
1,2-Dichloroethane	Ave	0.3253	0.2969		18.3	20.0	-8.7	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.2909		16.8	20.0	-23.6	30.0
Methylcyclohexane	Ave	0.6300	0.4856		15.5	20.0	-22.9	30.0
Trichloroethene	Ave	0.3155	0.2883		19.0	20.0	-8.6	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1480		15.8	20.0	-20.9	30.0
Dibromomethane	Ave	0.1188	0.1112		18.6	20.0	-6.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-48879/2 Calibration Date: 09/12/2009 21:18

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44943.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2877		20.4	20.0	-9.6	20.0
Dichlorobromomethane	Ave	0.3427	0.3103		18.0	20.0	-9.5	30.0
Methyl methacrylate	Ave	0.0864	0.0808		18.3	20.0	-6.4	30.0
1,4-Dioxane	Qua		0.0228		212	200	6.2	30.0
2-Chloroethyl vinyl ether	Lin		0.0726		376	200	88.1*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3620		18.2	20.0	-8.9	30.0
Toluene	Ave	0.7062	0.6657		19.4	20.0	-5.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1937		190	200	-5.4	30.0
Tetrachloroethene	Ave	0.1859	0.1776		19.1	20.0	-4.4	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2652		18.2	20.0	-9.0	30.0
1,1,2-Trichloroethane	Lin1		0.1186		19.0	20.0	-5.0	30.0
Chlorodibromomethane	Ave	0.1504	0.1390		18.5	20.0	-7.6	30.0
1,3-Dichloropropane	Ave	0.2828	0.2651		18.7	20.0	-6.3	30.0
Ethylene Dibromide	Ave	0.1260	0.1206		19.1	20.0	-4.3	30.0
2-Hexanone	Ave	0.1294	0.1201		189	200	-7.2	30.0
Chlorobenzene	Ave	1.096	1.030	0.3000	18.9	20.0	-6.0	30.0
Ethylbenzene	Ave	2.279	2.072		19.4	20.0	-9.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3162		19.1	20.0	-9.0	30.0
m-Xylene & p-Xylene	Ave	1.752	1.600		36.6	40.0	-8.7	30.0
o-Xylene	Ave	1.903	1.730		18.2	20.0	-9.1	30.0
Styrene	Ave	1.294	1.192		18.5	20.0	-7.9	30.0
Bromoform	Ave	0.3131	0.2739	0.1000	16.7	20.0	-12.5	20.0
Isopropylbenzene	Ave	2.255	2.091		18.6	20.0	-7.3	30.0
Bromobenzene	Ave	1.024	0.8941		17.5	20.0	-12.7	30.0
N-Propylbenzene	Ave	2.901	2.598		17.9	20.0	-10.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6083	0.3000	17.6	20.0	-11.2	30.0
2-Chlorotoluene	Ave	1.927	1.718		17.9	20.0	-10.9	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.713		18.5	20.0	-7.5	30.0
1,2,3-Trichloropropane	Lin2		0.0613		19.7	20.0	-1.4	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0895		16.8	20.0	-16.0	30.0
4-Chlorotoluene	Ave	1.683	1.515		17.9	20.0	-10.0	30.0
tert-Butylbenzene	Ave	1.471	1.385		18.8	20.0	-5.8	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.700		18.1	20.0	-9.3	30.0
sec-Butylbenzene	Ave	2.518	2.303		18.3	20.0	-8.5	30.0
4-Isopropyltoluene	Ave	1.894	1.738		18.3	20.0	-8.3	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7678		18.2	20.0	-8.8	30.0
1,4-Dichlorobenzene	Ave	1.788	1.632		18.3	20.0	-8.8	30.0
n-Butylbenzene	Ave	4.614	4.147		18.0	20.0	-10.1	30.0
1,2-Dichlorobenzene	Ave	1.492	1.384		18.6	20.0	-7.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0661		17.2	20.0	-14.2	30.0
Hexachlorobutadiene	Ave	0.5170	0.4639		17.9	20.0	-10.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-48879/2 Calibration Date: 09/12/2009 21:18

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44943.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9309		19.1	20.0	-4.5	30.0
Naphthalene	Ave	1.288	1.199		18.6	20.0	-6.9	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7002		19.4	20.0	-2.9	30.0
Dibromofluoromethane	Ave	0.2328	0.2259		19.4	20.0	-3.0	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9094		20.5	20.0	2.4	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5438		19.0	20.0	-5.1	30.0

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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-48929/2 Calibration Date: 09/14/2009 14:56

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44967.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4306		17.8	20.0	-10.8	30.0
Chloromethane	Ave	0.9034	0.8205	0.1000	19.5	20.0	-9.2	30.0
Vinyl chloride	Ave	0.6300	0.5516		18.6	20.0	-12.5	20.0
Bromomethane	Ave	0.3127	0.3035		20.4	20.0	-2.9	30.0
Chloroethane	Lin2		0.3169		19.6	20.0	-2.2	30.0
Trichlorofluoromethane	Ave	0.5183	0.4584		17.7	20.0	-11.5	30.0
Ethyl ether	Ave	0.2603	0.2059		16.9	20.0	-20.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.2782		18.1	20.0	-13.1	20.0
Carbon disulfide	Ave	1.395	1.185		17.0	20.0	-15.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1555		16.7	20.0	-16.3	30.0
Acrolein	Ave	0.7836	0.6756		862	1000	-13.8	30.0
Methylene Chloride	Lin1		0.3332		19.0	20.0	-4.9	30.0
Acetone	Lin2		0.0606		232	200	16.1	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6077		17.2	20.0	-13.9	30.0
Methyl acetate	Lin1		0.1302		179	200	-10.5	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5512		15.8	20.0	-21.2	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2865		149	200	-25.3	30.0
Isopropyl ether	Ave	1.997	1.683		16.9	20.0	-15.7	30.0
1,1-Dichloroethane	Ave	0.7919	0.6899	0.1000	18.6	20.0	-12.9	30.0
Acrylonitrile	Lin1		0.0572		17.5	20.0	-12.5	30.0
Tert-butyl ethyl ether	Ave	1.194	0.9792		16.4	20.0	-18.0	30.0
Vinyl acetate	Ave	0.5745	0.5054		176	200	-12.0	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5367		17.4	20.0	-12.7	30.0
2,2-Dichloropropane	Ave	0.5371	0.4611		19.6	20.0	-14.1	30.0
Cyclohexane	Ave	0.8898	0.6524		14.8	20.0	-26.7	30.0
Chlorobromomethane	Ave	0.1386	0.1205		17.4	20.0	-13.1	30.0
Chloroform	Ave	0.6243	0.5351		18.3	20.0	-14.3	20.0
Carbon tetrachloride	Ave	0.3645	0.3168		17.3	20.0	-13.1	30.0
Tetrahydrofuran	Ave	0.0762	0.0625		179	200	-17.9	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4440		17.0	20.0	-14.1	30.0
2-Butanone (MEK)	Ave	0.0960	0.0891		197	200	-7.2	30.0
1,1-Dichloropropene	Ave	0.4990	0.4484		18.0	20.0	-10.1	30.0
Benzene	Ave	1.352	1.300		19.2	20.0	-3.8	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6358		16.7	20.0	-16.6	30.0
1,2-Dichloroethane	Ave	0.3253	0.2900		17.8	20.0	-10.9	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.2973		17.2	20.0	-21.9	30.0
Methylcyclohexane	Ave	0.6300	0.4807		15.3	20.0	-23.7	30.0
Trichloroethene	Ave	0.3155	0.3045		20.1	20.0	-3.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1539		16.4	20.0	-17.8	30.0
Dibromomethane	Ave	0.1188	0.1084		18.2	20.0	-8.8	30.0

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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-48929/2 Calibration Date: 09/14/2009 14:56

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44967.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2931		20.8	20.0	-7.9	20.0
Dichlorobromomethane	Ave	0.3427	0.3178		18.4	20.0	-7.3	30.0
Methyl methacrylate	Ave	0.0864	0.0830		18.8	20.0	-3.9	30.0
1,4-Dioxane	Qua		0.0223		208	200	3.9	30.0
2-Chloroethyl vinyl ether	Lin		0.0631		329	200	64.5*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3921		19.7	20.0	-1.4	30.0
Toluene	Ave	0.7062	0.7051		20.5	20.0	-0.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1867		183	200	-8.8	30.0
Tetrachloroethene	Ave	0.1859	0.1972		21.2	20.0	6.1	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2796		19.2	20.0	-4.0	30.0
1,1,2-Trichloroethane	Lin1		0.1175		18.8	20.0	-5.9	30.0
Chlorodibromomethane	Ave	0.1504	0.1409		18.7	20.0	-6.3	30.0
1,3-Dichloropropane	Ave	0.2828	0.2620		18.5	20.0	-7.4	30.0
Ethylene Dibromide	Ave	0.1260	0.1191		18.9	20.0	-5.5	30.0
2-Hexanone	Ave	0.1294	0.1246		196	200	-3.7	30.0
Chlorobenzene	Ave	1.096	1.058	0.3000	19.4	20.0	-3.5	30.0
Ethylbenzene	Ave	2.279	2.153		20.2	20.0	-5.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3116		18.8	20.0	-10.3	30.0
m-Xylene & p-Xylene	Ave	1.752	1.660		37.9	40.0	-5.3	30.0
o-Xylene	Ave	1.903	1.727		18.2	20.0	-9.3	30.0
Styrene	Ave	1.294	1.164		18.0	20.0	-10.0	30.0
Bromoform	Ave	0.3131	0.3043	0.1000	18.4	20.0	-2.8	20.0
Isopropylbenzene	Ave	2.255	2.095		18.6	20.0	-7.1	30.0
Bromobenzene	Ave	1.024	0.8632		16.9	20.0	-15.7	30.0
N-Propylbenzene	Ave	2.901	2.626		18.1	20.0	-9.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5951	0.3000	17.3	20.0	-13.1	30.0
2-Chlorotoluene	Ave	1.927	1.694		17.7	20.0	-12.1	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.688		18.3	20.0	-8.8	30.0
1,2,3-Trichloropropane	Lin2		0.0547		17.6	20.0	-12.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0915		17.2	20.0	-14.1	30.0
4-Chlorotoluene	Ave	1.683	1.498		17.7	20.0	-11.0	30.0
tert-Butylbenzene	Ave	1.471	1.378		18.7	20.0	-6.3	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.677		17.8	20.0	-10.5	30.0
sec-Butylbenzene	Ave	2.518	2.294		18.2	20.0	-8.9	30.0
4-Isopropyltoluene	Ave	1.894	1.743		18.4	20.0	-8.0	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7351		17.5	20.0	-12.7	30.0
1,4-Dichlorobenzene	Ave	1.788	1.728		19.4	20.0	-3.4	30.0
n-Butylbenzene	Ave	4.614	4.604		20.0	20.0	-0.2	30.0
1,2-Dichlorobenzene	Ave	1.492	1.420		19.0	20.0	-4.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0696		18.1	20.0	-9.5	30.0
Hexachlorobutadiene	Ave	0.5170	0.5415		20.9	20.0	4.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-48929/2 Calibration Date: 09/14/2009 14:56

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44967.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9801		20.1	20.0	0.5	30.0
Naphthalene	Ave	1.288	1.176		18.3	20.0	-8.7	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7276		20.2	20.0	0.9	30.0
Dibromofluoromethane	Ave	0.2328	0.2272		19.5	20.0	-2.4	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9306		21.0	20.0	4.8	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5139		17.9	20.0	-10.3	30.0

4/8/10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4254		17.6	20.0	-11.9	30.0
Chloromethane	Ave	0.9034	0.8234	0.1000	19.6	20.0	-8.9	30.0
Vinyl chloride	Ave	0.6300	0.5519		18.6	20.0	-12.4	20.0
Bromomethane	Ave	0.3127	0.3000		20.1	20.0	-4.1	30.0
Chloroethane	Lin2		0.3122		19.2	20.0	-3.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4501		17.4	20.0	-13.2	30.0
Ethyl ether	Ave	0.2603	0.1946		15.9	20.0	-25.2	30.0
1,1-Dichloroethene	Ave	0.3201	0.3050		19.9	20.0	-4.7	20.0
Carbon disulfide	Ave	1.395	1.226		17.6	20.0	-12.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1568		16.9	20.0	-15.6	30.0
Acrolein	Ave	0.7836	0.6751		861	1000	-13.9	30.0
Methylene Chloride	Lin1		0.3360		19.2	20.0	-4.1	30.0
Acetone	Lin2		0.0555		212	200	6.2	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6487		18.4	20.0	-8.1	30.0
Methyl acetate	Lin1		0.1443		198	200	-0.9	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5166		14.8	20.0	-26.1	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2947		154	200	-23.1	30.0
Isopropyl ether	Ave	1.997	1.687		17.0	20.0	-15.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7239	0.1000	19.5	20.0	-8.6	30.0
Acrylonitrile	Lin1		0.0539		16.5	20.0	-17.7	30.0
Tert-butyl ethyl ether	Ave	1.194	0.9518		15.9	20.0	-20.3	30.0
Vinyl acetate	Ave	0.5745	0.3965		138	200	-31.0*	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5663		18.4	20.0	-7.9	30.0
2,2-Dichloropropane	Ave	0.5371	0.5032		21.6	20.0	-6.3	30.0
Cyclohexane	Ave	0.8898	0.7411		16.8	20.0	-16.7	30.0
Chlorobromomethane	Ave	0.1386	0.1172		16.9	20.0	-15.5	30.0
Chloroform	Ave	0.6243	0.5506		18.9	20.0	-11.8	20.0
Carbon tetrachloride	Ave	0.3645	0.3510		19.2	20.0	-3.7	30.0
Tetrahydrofuran	Ave	0.0762	0.0576		165	200	-24.3	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4861		18.6	20.0	-6.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0781		172	200	-18.7	30.0
1,1-Dichloropropene	Ave	0.4990	0.4819		19.3	20.0	-3.4	30.0
Benzene	Ave	1.352	1.340		19.8	20.0	-0.8	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6073		15.9	20.0	-20.3	30.0
1,2-Dichloroethane	Ave	0.3253	0.2833		17.4	20.0	-12.9	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3148		18.3	20.0	-17.3	30.0
Methylcyclohexane	Ave	0.6300	0.5441		17.3	20.0	-13.6	30.0
Trichloroethene	Ave	0.3155	0.3225		21.3	20.0	2.2	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1675		17.9	20.0	-10.5	30.0
Dibromomethane	Ave	0.1188	0.1024		17.2	20.0	-13.7	30.0

4/8/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2950		21.0	20.0	-7.3	20.0
Dichlorobromomethane	Ave	0.3427	0.3093		17.9	20.0	-9.8	30.0
Methyl methacrylate	Ave	0.0864	0.0718		16.3	20.0	-16.9	30.0
1,4-Dioxane	Qua		0.0229		213	200	6.7	30.0
2-Chloroethyl vinyl ether	Lin		0.0586		307	200	53.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3755		18.9	20.0	-5.5	30.0
Toluene	Ave	0.7062	0.7400		21.6	20.0	4.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1609		158	200	-21.4	30.0
Tetrachloroethene	Ave	0.1859	0.2025		21.7	20.0	9.0	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2587		17.8	20.0	-11.2	30.0
1,1,2-Trichloroethane	Lin1		0.1109		17.8	20.0	-11.1	30.0
Chlorodibromomethane	Ave	0.1504	0.1274		16.9	20.0	-15.3	30.0
1,3-Dichloropropane	Ave	0.2828	0.2464		17.4	20.0	-12.9	30.0
Ethylene Dibromide	Ave	0.1260	0.1116		17.7	20.0	-11.4	30.0
2-Hexanone	Ave	0.1294	0.1055		166	200	-18.5	30.0
Chlorobenzene	Ave	1.096	1.096	0.3000	20.1	20.0	0.0	30.0
Ethylbenzene	Ave	2.279	2.297		21.6	20.0	0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3080		18.6	20.0	-11.4	30.0
m-Xylene & p-Xylene	Ave	1.752	1.757		40.2	40.0	0.3	30.0
o-Xylene	Ave	1.903	1.830		19.3	20.0	-3.8	30.0
Styrene	Ave	1.294	1.206		18.7	20.0	-6.8	30.0
Bromoform	Ave	0.3131	0.2757	0.1000	16.8	20.0	-11.9	20.0
Isopropylbenzene	Ave	2.255	2.296		20.4	20.0	1.8	30.0
Bromobenzene	Ave	1.024	0.8609		16.9	20.0	-15.9	30.0
N-Propylbenzene	Ave	2.901	2.844		19.6	20.0	-2.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5660	0.3000	16.4	20.0	-17.3	30.0
2-Chlorotoluene	Ave	1.927	1.788		18.6	20.0	-7.3	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.806		19.5	20.0	-2.4	30.0
1,2,3-Trichloropropane	Lin2		0.0512		16.4	20.0	-17.8	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0808		15.1	20.0	-24.4	30.0
4-Chlorotoluene	Ave	1.683	1.545		18.3	20.0	-8.2	30.0
tert-Butylbenzene	Ave	1.471	1.481		20.1	20.0	0.7	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.754		18.6	20.0	-6.4	30.0
sec-Butylbenzene	Ave	2.518	2.514		20.0	20.0	-0.2	30.0
4-Isopropyltoluene	Ave	1.894	1.852		19.5	20.0	-2.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7236		17.2	20.0	-14.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.733		19.5	20.0	-3.1	30.0
n-Butylbenzene	Ave	4.614	5.106		22.1	20.0	10.7	30.0
1,2-Dichlorobenzene	Ave	1.492	1.416		19.0	20.0	-5.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0608		15.8	20.0	-21.0	30.0
Hexachlorobutadiene	Ave	0.5170	0.5544		21.4	20.0	7.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24499-1

SDG No.: OCRI-13

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9317		19.1	20.0	-4.5	30.0
Naphthalene	Ave	1.288	1.051		16.3	20.0	-18.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6737		18.7	20.0	-6.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2133		18.3	20.0	-8.4	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9281		20.9	20.0	4.5	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5130		17.9	20.0	-10.5	30.0

4/8/10
TK

OCRI-14

Tier 2

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360-24563-1

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Data completeness				
☑	☐	☐	All data summaries, QC forms and raw data available from hard copy or electronic data package	Contact lab if missing data. Lab to respond with 24 hours.
☑	☐	☐	Data summaries match EDD	
Holding Times and Preservation				
☑	☐	☐	Hold times met (14 days with preservation)	
☑	☐	☐	Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune)				
☑	☐	☐	Tune available for each 12-hour period samples were analyzed	
☑	☐	☐	Appropriate number of significant figures reported (at least 2)	
☑	☐	☐	Mass/Charge list (m/z) criteria met	
Initial Calibration				
☑	☐	☐	%RSD less than or equal to 30%	→ I-Cal 9/8/10
☐	☑	☐	RRF greater than or equal to 0.05	
Continuing Calibration				
☐	☑	☐	%D less than or equal to 25%	→ See attached Form 5's 3
☑	☐	☐	RRF greater than or equal to 0.05.	
Blank Contamination				Evaluate all blanks for contamination. Highest contaminant level used for action level.
☑	☐	☐	Method blank contamination	
☐	☐	☐	Trip blank contamination	
☐	☐	☐	Equipment/Rinseate blank contamination	

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for
OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / II / III (circle one)

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples * ☐ ☑ ☐ MS/MSD percent recovery criteria met (water and soil: 70%-130%) * ☐ ☑ ☐ MS/MSD RPD criteria met (water and soil <30%) * ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	See attached Form V
Field Duplicates ☑ ☐ ☐ RPD criteria (water <30%, soils <50%) met	
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: [signature]

Date: 4-9-10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-0.0/1.0-XXX**

Lab Sample ID: 360-24563-1
Client Matrix: Solid
% Moisture: 7.1

Date Sampled: 09/10/2009 1340
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/15/2009 1934
Date Prepared: 09/15/2009 1417

Analysis Batch: 360-48976
Prep Batch: 360-48975

Instrument ID: HP #1 GC/MS
Lab File ID: V45024.D
Initial Weight/Volume: 5.03 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

4/12/10 TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-0.0/1.0-XXX**

Lab Sample ID: 360-24563-1
Client Matrix: Solid % Moisture: 7.1

Date Sampled: 09/10/2009 1340
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45024.D
Dilution:	1.0			Initial Weight/Volume:	5.03 g
Date Analyzed:	09/15/2009 1934			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	J	1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		17	54
2-Butanone (MEK)		~~7.6~~ ND	J	7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		~~27~~ ND	J	5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		70 - 130
Dibromofluoromethane	95		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TC 4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-0.0/1.0-XXX**

Lab Sample ID: 360-24563-1
Client Matrix: Solid
% Moisture: 7.1

Date Sampled: 09/10/2009 1340
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45024.D
Dilution:	1.0			Initial Weight/Volume:	5.03 g
Date Analyzed:	09/15/2009 1934			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	9.8	T J

TR 4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-12/14-XXX**

Lab Sample ID: 360-24563-2
Client Matrix: Solid
% Moisture: 10.2

Date Sampled: 09/10/2009 1435
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48939		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48935		Lab File ID:	V45011.D
Dilution:	10			Initial Weight/Volume:	10.32 g
Date Analyzed:	09/15/2009 0835			Final Weight/Volume:	10 g
Date Prepared:	09/14/2009 1454				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		540	1300
1,1,1-Trichloroethane		ND		540	1300
1,1,2,2-Tetrachloroethane		ND		540	1300
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	J	540	6700
1,1,2-Trichloroethane		ND		540	1300
1,1-Dichloroethane		ND		540	1300
1,1-Dichloroethene		ND		540	1300
1,1-Dichloropropene		ND		540	1300
1,2,3-Trichlorobenzene		ND		540	1300
1,2,3-Trichloropropane		ND		800	1300
1,2,4-Trichlorobenzene		ND		540	1300
1,2,4-Trimethylbenzene		ND		540	1300
1,2-Dibromo-3-Chloropropane		ND		970	13000
Ethylene Dibromide		ND		540	1300
1,2-Dichlorobenzene		ND		540	1300
1,2-Dichloroethane		ND		540	1300
Acetone		ND	J	9700	130000
1,2-Dichloropropane		ND		540	1300
1,3,5-Trimethylbenzene		ND		540	1300
1,3-Dichlorobenzene		ND		540	1300
1,3-Dichloropropane		ND		540	1300
1,4-Dichlorobenzene		ND		540	1300
1,4-Dioxane		ND	J	18000	130000
2,2-Dichloropropane		ND		540	1300
2,4,4-Trimethyl-2-pentene		180000		540	2700
2-Chlorotoluene		ND		540	1300
2-Hexanone		ND		2800	13000
4-Chlorotoluene		ND		540	1300
Benzene		ND		540	1300
Bromobenzene		ND		540	1300
Chlorobromomethane		ND		540	1300
Dichlorobromomethane		ND		540	1300
Bromoform		ND		540	1300
Bromomethane		ND		540	2700
n-Butylbenzene		ND		540	1300
Carbon disulfide		ND		540	1300
Carbon tetrachloride		ND		540	1300
Chlorobenzene		ND		540	1300
Chloroethane		ND	J	540	2700
Chloroform		ND		540	1300
Chloromethane		ND		540	2700
cis-1,2-Dichloroethene		ND		540	1300
cis-1,3-Dichloropropene		ND		540	1300
Cyclohexane		ND		1400	13000
Chlorodibromomethane		ND		540	1300
Dibromomethane		ND		540	1300

TC
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Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-12/14-XXX**

Lab Sample ID: 360-24563-2
Client Matrix: Solid
% Moisture: 10.2

Date Sampled: 09/10/2009 1435
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48939		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48935		Lab File ID:	V45011.D
Dilution:	10			Initial Weight/Volume:	10.32 g
Date Analyzed:	09/15/2009 0835			Final Weight/Volume:	10 g
Date Prepared:	09/14/2009 1454				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		ND J		540	2700
Ethyl ether		ND		540	1300
Isopropyl ether		ND		540	1300
Tert-butyl ethyl ether		ND		1300	1300
Ethylbenzene		ND		540	1300
Hexachlorobutadiene		ND		540	1300
Isopropylbenzene		ND		540	1300
Methyl acetate		ND J		8800	27000
2-Butanone (MEK)		ND		3600	13000
4-Methyl-2-pentanone (MIBK)		ND		2800	13000
Methyl tert-butyl ether		ND		540	1300
Methylcyclohexane		ND		540	1300
Methylene Chloride		ND		2600	5400
m-Xylene & p-Xylene		ND		540	2700
Naphthalene		ND		540	13000
N-Propylbenzene		ND		540	1300
o-Xylene		ND		540	1300
4-Isopropyltoluene		ND		540	1300
sec-Butylbenzene		ND		540	1300
Styrene		ND		540	1300
Tert-amyl methyl ether		ND		540	1300
tert-Butylbenzene		ND		540	1300
Tetrachloroethene		ND		540	1300
Tetrahydrofuran		ND		3000	13000
Toluene		ND		540	1300
trans-1,2-Dichloroethene		ND		540	1300
trans-1,3-Dichloropropene		ND		540	1300
Trichloroethene		ND		540	1300
Trichlorofluoromethane		ND J		540	2700
Vinyl chloride		ND		540	1300

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-12/14-XXX**

Lab Sample ID: 360-24563-2
Client Matrix: Solid
% Moisture: 10.2

Date Sampled: 09/10/2009 1435
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48939		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48935		Lab File ID:	V45011.D
Dilution:	10			Initial Weight/Volume:	10.32 g
Date Analyzed:	09/15/2009 0835			Final Weight/Volume:	10 g
Date Prepared:	09/14/2009 1454				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	6.54	1900	T J

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-12/14-XXX**

Lab Sample ID: 360-24563-2
Client Matrix: Solid
% Moisture: 10.2

Date Sampled: 09/10/2009 1435
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48982		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48981		Lab File ID:	V45041.D
Dilution:	50			Initial Weight/Volume:	10.32 g
Date Analyzed:	09/16/2009 0223			Final Weight/Volume:	10 g
Date Prepared:	09/14/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,4-Trimethyl-1-pentene		890000		2700	13000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	101		70 - 130

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-12/14-XXX**

Lab Sample ID: 360-24563-2
Client Matrix: Solid % Moisture: 10.2

Date Sampled: 09/10/2009 1435
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48982		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48981		Lab File ID:	V45041.D
Dilution:	50			Initial Weight/Volume:	10.32 g
Date Analyzed:	09/16/2009 0223			Final Weight/Volume:	10 g
Date Prepared:	09/14/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-17/19-XXX**

Lab Sample ID: 360-24563-3
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 09/10/2009 1505
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45240.D
Dilution:	1.0			Initial Weight/Volume:	5.45 g
Date Analyzed:	09/22/2009 1909			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-17/19-XXX**

Lab Sample ID: 360-24563-3
Client Matrix: Solid % Moisture: 8.9

Date Sampled: 09/10/2009 1505
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45240.D
Dilution:	1.0			Initial Weight/Volume:	5.45 g
Date Analyzed:	09/22/2009 1909			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J		1.0	5.0
Ethyl ether		ND J		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND J		16	50
2-Butanone (MEK)		ND		6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND J		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		70 - 130
Dibromofluoromethane	95		70 - 130
Toluene-d8 (Surr)	103		70 - 130

TC 4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-17/19-XXX**

Lab Sample ID: 360-24563-3
Client Matrix: Solid % Moisture: 8.9

Date Sampled: 09/10/2009 1505
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45240.D
Dilution:	1.0			Initial Weight/Volume:	5.45 g
Date Analyzed:	09/22/2009 1909			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

4/12/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-8.0/10-DUP**

Lab Sample ID: 360-24563-4
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 09/10/2009 1400
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45021.D
Dilution:	1.0			Initial Weight/Volume:	4.76 g
Date Analyzed:	09/15/2009 1822			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND	J	1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		2.0	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		76	J	20	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.6	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

TC 4-12-10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-8.0/10-DUP**

Lab Sample ID: 360-24563-4
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 09/10/2009 1400
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45021.D
Dilution:	1.0			Initial Weight/Volume:	4.76 g
Date Analyzed:	09/15/2009 1822			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J		1.1	5.5
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND J		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		18	55
2-Butanone (MEK)		~~14~~ ND	J	7.4	27
4-Methyl-2-pentanone (MIBK)		ND		5.7	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.3	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		6.0	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TC 4-12-10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-8.0/10-DUP**

Lab Sample ID: 360-24563-4
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 09/10/2009 1400
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45021.D
Dilution:	1.0			Initial Weight/Volume:	4.76 g
Date Analyzed:	09/15/2009 1822			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Tentatively Identified Compounds **Number TIC's Found:** 9

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	5.04	33	T J
590-50-1	2-Pentanone, 4,4-dimethyl-	7.95	18	T J N
	Unknown	9.80	15	T J
	Unknown	9.89	29	T J
	Unknown	10.04	4.7	T J
	Unknown	11.25	14	T J
	Unknown	13.35	31	T J
	Unknown	13.62	19	T J
	Unknown	13.75	11	T J

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-8.0/10-XXX**

Lab Sample ID: 360-24563-5
Client Matrix: Solid % Moisture: 4.1

Date Sampled: 09/10/2009 1400
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45022.D
Dilution:	1.0			Initial Weight/Volume:	5.16 g
Date Analyzed:	09/15/2009 1845			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND	J	1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		60	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND	J	1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

4/12/10 TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-8.0/10-XXX**

Lab Sample ID: 360-24563-5
Client Matrix: Solid % Moisture: 4.1

Date Sampled: 09/10/2009 1400
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45022.D
Dilution:	1.0			Initial Weight/Volume:	5.16 g
Date Analyzed:	09/15/2009 1845			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J		1.0	5.1
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND J		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	51
2-Butanone (MEK)		~~8.8 25~~ ND	J	6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.6	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-427-8.0/10-XXX**

Lab Sample ID: 360-24563-5
Client Matrix: Solid % Moisture: 4.1

Date Sampled: 09/10/2009 1400
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45022.D
Dilution:	1.0			Initial Weight/Volume:	5.16 g
Date Analyzed:	09/15/2009 1845			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Tentatively Identified Compounds **Number TIC's Found:** 9

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	7.95	16	T J
	Unknown	9.79	12	T J
	Unknown	9.89	38	T J
	Unknown	11.25	13	T J
	Unknown	13.25	5.4	T J
	Unknown	13.35	220	T J
15220-85-6	1-Propene, 2-methyl-, tetramer	13.47	14	T J N
	Unknown	13.62	130	T J
	Unknown	13.75	63	T J

4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-428-0.0/1.0-XXX**

Lab Sample ID: 360-24563-6
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 09/10/2009 1600
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45025.D
Dilution:	1.0			Initial Weight/Volume:	6.05 g
Date Analyzed:	09/15/2009 1958			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.87	2.2
1,1,1-Trichloroethane		ND		0.87	2.2
1,1,2,2-Tetrachloroethane		ND		0.87	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.87	11
1,1,2-Trichloroethane		ND		0.87	2.2
1,1-Dichloroethane		ND		0.87	2.2
1,1-Dichloroethene		ND		0.87	2.2
1,1-Dichloropropene		ND		0.87	2.2
1,2,3-Trichlorobenzene		ND		0.87	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.87	2.2
1,2,4-Trimethylbenzene		ND		0.87	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.87	2.2
1,2-Dichlorobenzene		ND		0.87	2.2
1,2-Dichloroethane		ND		0.87	2.2
Acetone		ND	J	16	220
1,2-Dichloropropane		ND		0.87	2.2
1,3,5-Trimethylbenzene		ND		0.87	2.2
1,3-Dichlorobenzene		ND		0.87	2.2
1,3-Dichloropropane		ND		0.87	2.2
1,4-Dichlorobenzene		ND		0.87	2.2
1,4-Dioxane		ND	J	29	220
2,2-Dichloropropane		ND		0.87	2.2
2,4,4-Trimethyl-1-pentene		ND		0.87	4.4
2,4,4-Trimethyl-2-pentene		ND		0.87	4.4
2-Chlorotoluene		ND		0.87	2.2
2-Hexanone		ND		4.5	22
4-Chlorotoluene		ND		0.87	2.2
Benzene		ND		0.87	2.2
Bromobenzene		ND		0.87	2.2
Chlorobromomethane		ND		0.87	2.2
Dichlorobromomethane		ND		0.87	2.2
Bromoform		ND		0.87	2.2
Bromomethane		ND		0.87	4.4
n-Butylbenzene		ND		0.87	2.2
Carbon disulfide		ND		0.87	2.2
Carbon tetrachloride		ND		0.87	2.2
Chlorobenzene		ND		0.87	2.2
Chloroethane		ND		0.87	4.4
Chloroform		ND		0.87	2.2
Chloromethane		ND		0.87	4.4
cis-1,2-Dichloroethene		ND		0.87	2.2
cis-1,3-Dichloropropene		ND		0.87	2.2
Cyclohexane		ND		2.3	22
Chlorodibromomethane		ND		0.87	2.2

4/12/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-428-0.0/1.0-XXX**

Lab Sample ID: 360-24563-6
Client Matrix: Solid % Moisture: 5.4

Date Sampled: 09/10/2009 1600
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45025.D
Dilution:	1.0			Initial Weight/Volume:	6.05 g
Date Analyzed:	09/15/2009 1958			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.87	2.2
Dichlorodifluoromethane		ND J		0.87	4.4
Ethyl ether		ND		0.87	2.2
Isopropyl ether		ND		0.87	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.87	2.2
Hexachlorobutadiene		ND		0.87	2.2
Isopropylbenzene		ND		0.87	2.2
Methyl acetate		ND		14	44
2-Butanone (MEK)		~~11~~ ND	~~J~~	5.9	22
4-Methyl-2-pentanone (MIBK)		ND		4.5	22
Methyl tert-butyl ether		ND		0.87	2.2
Methylcyclohexane		ND		0.87	2.2
Methylene Chloride		ND		4.2	8.7
m-Xylene & p-Xylene		ND		0.87	4.4
Naphthalene		ND		0.87	22
N-Propylbenzene		ND		0.87	2.2
o-Xylene		ND		0.87	2.2
4-Isopropyltoluene		ND		0.87	2.2
sec-Butylbenzene		ND		0.87	2.2
Styrene		ND		0.87	2.2
Tert-amyl methyl ether		ND		0.87	2.2
tert-Butylbenzene		ND		0.87	2.2
Tetrachloroethene		ND		0.87	2.2
Tetrahydrofuran		26 U		4.8	22
Toluene		ND		0.87	2.2
trans-1,2-Dichloroethene		ND		0.87	2.2
trans-1,3-Dichloropropene		ND		0.87	2.2
Trichloroethene		ND		0.87	2.2
Trichlorofluoromethane		ND		0.87	4.4
Vinyl chloride		ND		0.87	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

4/12/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-428-0.0/1.0-XXX**

Lab Sample ID: 360-24563-6
Client Matrix: Solid % Moisture: 5.4

Date Sampled: 09/10/2009 1600
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45025.D
Dilution:	1.0			Initial Weight/Volume:	6.05 g
Date Analyzed:	09/15/2009 1958			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	9.15	7.0	T J

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-428-23/25-XXX**

Lab Sample ID: 360-24563-7
Client Matrix: Solid % Moisture: 11.9

Date Sampled: 09/10/2009 1740
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45241.D
Dilution:	1.0			Initial Weight/Volume:	5.31 g
Date Analyzed:	09/22/2009 1933			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

4/12/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-428-23/25-XXX**

Lab Sample ID: 360-24563-7
Client Matrix: Solid
% Moisture: 11.9

Date Sampled: 09/10/2009 1740
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45241.D
Dilution:	1.0			Initial Weight/Volume:	5.31 g
Date Analyzed:	09/22/2009 1933			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND		1.1	5.3
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		17	53
2-Butanone (MEK)		ND		7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	104		70 - 130

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-428-23/25-XXX**

Lab Sample ID: 360-24563-7
Client Matrix: Solid % Moisture: 11.9

Date Sampled: 09/10/2009 1740
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45241.D
Dilution:	1.0			Initial Weight/Volume:	5.31 g
Date Analyzed:	09/22/2009 1933			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-428-8.0/10-XXX**

Lab Sample ID: 360-24563-9
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 09/10/2009 1620
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45023.D
Dilution:	1.0			Initial Weight/Volume:	5.46 g
Date Analyzed:	09/15/2009 1909			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.98	2.4
1,1,1-Trichloroethane		ND		0.98	2.4
1,1,2,2-Tetrachloroethane		ND		0.98	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.98	12
1,1,2-Trichloroethane		ND		0.98	2.4
1,1-Dichloroethane		ND		0.98	2.4
1,1-Dichloroethene		ND		0.98	2.4
1,1-Dichloropropene		ND		0.98	2.4
1,2,3-Trichlorobenzene		ND		0.98	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.98	2.4
1,2,4-Trimethylbenzene		ND		0.98	2.4
1,2-Dibromo-3-Chloropropane		ND		1.8	24
Ethylene Dibromide		ND		0.98	2.4
1,2-Dichlorobenzene		ND		0.98	2.4
1,2-Dichloroethane		ND		0.98	2.4
Acetone		97	J	17	240
1,2-Dichloropropane		ND		0.98	2.4
1,3,5-Trimethylbenzene		ND		0.98	2.4
1,3-Dichlorobenzene		ND		0.98	2.4
1,3-Dichloropropane		ND		0.98	2.4
1,4-Dichlorobenzene		ND		0.98	2.4
1,4-Dioxane		ND J		32	240
2,2-Dichloropropane		ND		0.98	2.4
2,4,4-Trimethyl-1-pentene		ND		0.98	4.9
2,4,4-Trimethyl-2-pentene		ND		0.98	4.9
2-Chlorotoluene		ND		0.98	2.4
2-Hexanone		ND		5.0	24
4-Chlorotoluene		ND		0.98	2.4
Benzene		ND		0.98	2.4
Bromobenzene		ND		0.98	2.4
Chlorobromomethane		ND		0.98	2.4
Dichlorobromomethane		ND		0.98	2.4
Bromoform		ND		0.98	2.4
Bromomethane		ND		0.98	4.9
n-Butylbenzene		ND		0.98	2.4
Carbon disulfide		ND		0.98	2.4
Carbon tetrachloride		ND		0.98	2.4
Chlorobenzene		ND		0.98	2.4
Chloroethane		ND		0.98	4.9
Chloroform		ND		0.98	2.4
Chloromethane		ND		0.98	4.9
cis-1,2-Dichloroethene		ND		0.98	2.4
cis-1,3-Dichloropropene		ND		0.98	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.98	2.4

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-428-8.0/10-XXX**

Lab Sample ID: 360-24563-9
Client Matrix: Solid

% Moisture: 6.1

Date Sampled: 09/10/2009 1620
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45023.D
Dilution:	1.0			Initial Weight/Volume:	5.46 g
Date Analyzed:	09/15/2009 1909			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.98	2.4
Dichlorodifluoromethane		ND J	J	0.98	4.9
Ethyl ether		ND		0.98	2.4
Isopropyl ether		ND		0.98	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.98	2.4
Hexachlorobutadiene		ND		0.98	2.4
Isopropylbenzene		ND		0.98	2.4
Methyl acetate		ND		16	49
2-Butanone (MEK)		~~21~~ ND	J	6.6	24
4-Methyl-2-pentanone (MIBK)		ND		5.0	24
Methyl tert-butyl ether		ND		0.98	2.4
Methylcyclohexane		ND		0.98	2.4
Methylene Chloride		ND		4.7	9.8
m-Xylene & p-Xylene		ND		0.98	4.9
Naphthalene		ND		0.98	24
N-Propylbenzene		ND		0.98	2.4
o-Xylene		ND		0.98	2.4
4-Isopropyltoluene		ND		0.98	2.4
sec-Butylbenzene		ND		0.98	2.4
Styrene		ND		0.98	2.4
Tert-amyl methyl ether		ND		0.98	2.4
tert-Butylbenzene		ND		0.98	2.4
Tetrachloroethene		ND		0.98	2.4
Tetrahydrofuran		27 V	V	5.4	24
Toluene		ND		0.98	2.4
trans-1,2-Dichloroethene		ND		0.98	2.4
trans-1,3-Dichloropropene		ND		0.98	2.4
Trichloroethene		ND		0.98	2.4
Trichlorofluoromethane		ND		0.98	4.9
Vinyl chloride		ND		0.98	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	100		70 - 130

4/12/10 TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-428-8.0/10-XXX**

Lab Sample ID: 360-24563-9
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 09/10/2009 1620
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45023.D
Dilution:	1.0			Initial Weight/Volume:	5.46 g
Date Analyzed:	09/15/2009 1909			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	13.35	7.5	T J

4/12/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-TBK-017**

Lab Sample ID: 360-24563-10
Client Matrix: Solid

Date Sampled: 09/11/2009 1000
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45026.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/15/2009 2022			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-TBK-017**

Lab Sample ID: 360-24563-10
Client Matrix: Solid

Date Sampled: 09/11/2009 1000
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45026.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/15/2009 2022			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND		1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		10	J	6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		33		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-TBK-017**

Lab Sample ID: 360-24563-10
Client Matrix: Solid

Date Sampled: 09/11/2009 1000
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45026.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/15/2009 2022			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-0.0/1.0-XXX**

Lab Sample ID: 360-24563-11
Client Matrix: Solid
% Moisture: 2.5

Date Sampled: 09/11/2009 0830
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45027.D
Dilution:	1.0			Initial Weight/Volume:	4.76 g
Date Analyzed:	09/15/2009 2046			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	36	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

4/12/10 TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-0.0/1.0-XXX**

Lab Sample ID: 360-24563-11
Client Matrix: Solid
% Moisture: 2.5

Date Sampled: 09/11/2009 0830
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45027.D
Dilution:	1.0			Initial Weight/Volume:	4.76 g
Date Analyzed:	09/15/2009 2046			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J		1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		18	54
2-Butanone (MEK)		~~9.0~~ ND	J	7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		~~29~~ ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-0.0/1.0-XXX**

Lab Sample ID: 360-24563-11
Client Matrix: Solid % Moisture: 2.5

Date Sampled: 09/11/2009 0830
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45027.D
Dilution:	1.0			Initial Weight/Volume:	4.76 g
Date Analyzed:	09/15/2009 2046			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.63	9.5	T J

TS 4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-16/18-XXX**

Lab Sample ID: 360-24563-12
Client Matrix: Solid % Moisture: 9.7

Date Sampled: 09/11/2009 1040
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45028.D
Dilution:	1.0			Initial Weight/Volume:	5.27 g
Date Analyzed:	09/15/2009 2110			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.6
1,1,1-Trichloroethane		ND		1.1	2.6
1,1,2,2-Tetrachloroethane		ND		1.1	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.6
1,1-Dichloroethane		ND		1.1	2.6
1,1-Dichloroethene		ND		1.1	2.6
1,1-Dichloropropene		ND		1.1	2.6
1,2,3-Trichlorobenzene		ND		1.1	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.1	2.6
1,2,4-Trimethylbenzene		ND		1.1	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.1	2.6
1,2-Dichlorobenzene		ND		1.1	2.6
1,2-Dichloroethane		ND		1.1	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.1	2.6
1,3,5-Trimethylbenzene		ND		1.1	2.6
1,3-Dichlorobenzene		ND		1.1	2.6
1,3-Dichloropropane		ND		1.1	2.6
1,4-Dichlorobenzene		ND		1.1	2.6
1,4-Dioxane		ND	J	35	260
2,2-Dichloropropane		ND		1.1	2.6
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.1	2.6
Benzene		ND		1.1	2.6
Bromobenzene		ND		1.1	2.6
Chlorobromomethane		ND		1.1	2.6
Dichlorobromomethane		ND		1.1	2.6
Bromoform		ND		1.1	2.6
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.6
Carbon disulfide		1.4	J	1.1	2.6
Carbon tetrachloride		ND		1.1	2.6
Chlorobenzene		ND		1.1	2.6
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.6
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.6
cis-1,3-Dichloropropene		ND		1.1	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.1	2.6

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-16/18-XXX**

Lab Sample ID: 360-24563-12
Client Matrix: Solid % Moisture: 9.7

Date Sampled: 09/11/2009 1040
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45028.D
Dilution:	1.0			Initial Weight/Volume:	5.27 g
Date Analyzed:	09/15/2009 2110			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.6
Dichlorodifluoromethane		ND J		1.1	5.3
Ethyl ether		ND		1.1	2.6
Isopropyl ether		ND		1.1	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.1	2.6
Hexachlorobutadiene		ND		1.1	2.6
Isopropylbenzene		ND		1.1	2.6
Methyl acetate		ND		17	53
2-Butanone (MEK)		~~11~~ ND	~~J~~	7.1	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.1	2.6
Methylcyclohexane		ND		1.1	2.6
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	26
N-Propylbenzene		ND		1.1	2.6
o-Xylene		ND		1.1	2.6
4-Isopropyltoluene		ND		1.1	2.6
sec-Butylbenzene		ND		1.1	2.6
Styrene		ND		1.1	2.6
Tert-amyl methyl ether		ND		1.1	2.6
tert-Butylbenzene		ND		1.1	2.6
Tetrachloroethene		ND		1.1	2.6
Tetrahydrofuran		~~29~~ ND		5.8	26
Toluene		ND		1.1	2.6
trans-1,2-Dichloroethene		ND		1.1	2.6
trans-1,3-Dichloropropene		ND		1.1	2.6
Trichloroethene		ND		1.1	2.6
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

4/12/10 TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-16/18-XXX**

Lab Sample ID: 360-24563-12
Client Matrix: Solid % Moisture: 9.7

Date Sampled: 09/11/2009 1040
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45028.D
Dilution:	1.0			Initial Weight/Volume:	5.27 g
Date Analyzed:	09/15/2009 2110			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	9.14	2.5	T J

TC 4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-7.0/9.0-DUP**

Lab Sample ID: 360-24563-13
Client Matrix: Solid
% Moisture: 7.4

Date Sampled: 09/11/2009 0900
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45029.D
Dilution:	1.0			Initial Weight/Volume:	5.10 g
Date Analyzed:	09/15/2009 2134			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.6
1,1,1-Trichloroethane		ND		1.1	2.6
1,1,2,2-Tetrachloroethane		ND		1.1	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.6
1,1-Dichloroethane		ND		1.1	2.6
1,1-Dichloroethene		ND		1.1	2.6
1,1-Dichloropropene		ND		1.1	2.6
1,2,3-Trichlorobenzene		ND		1.1	2.6
1,2,3-Trichloropropane		ND		1.6	2.6
1,2,4-Trichlorobenzene		ND		1.1	2.6
1,2,4-Trimethylbenzene		ND		1.1	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.1	2.6
1,2-Dichlorobenzene		ND		1.1	2.6
1,2-Dichloroethane		ND		1.1	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.1	2.6
1,3,5-Trimethylbenzene		ND		1.1	2.6
1,3-Dichlorobenzene		ND		1.1	2.6
1,3-Dichloropropane		ND		1.1	2.6
1,4-Dichlorobenzene		ND		1.1	2.6
1,4-Dioxane		ND	J	35	260
2,2-Dichloropropane		ND		1.1	2.6
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.1	2.6
Benzene		ND		1.1	2.6
Bromobenzene		ND		1.1	2.6
Chlorobromomethane		ND		1.1	2.6
Dichlorobromomethane		ND		1.1	2.6
Bromoform		ND		1.1	2.6
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND		1.1	2.6
Carbon disulfide		ND		1.1	2.6
Carbon tetrachloride		ND		1.1	2.6
Chlorobenzene		ND		1.1	2.6
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.6
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.6
cis-1,3-Dichloropropene		ND		1.1	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.1	2.6

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TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-7.0/9.0-DUP**

Lab Sample ID: 360-24563-13
Client Matrix: Solid
% Moisture: 7.4

Date Sampled: 09/11/2009 0900
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45029.D
Dilution:	1.0			Initial Weight/Volume:	5.10 g
Date Analyzed:	09/15/2009 2134			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.6
Dichlorodifluoromethane		ND J		1.1	5.3
Ethyl ether		ND		1.1	2.6
Isopropyl ether		ND		1.1	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.1	2.6
Hexachlorobutadiene		ND		1.1	2.6
Isopropylbenzene		ND		1.1	2.6
Methyl acetate		ND		17	53
2-Butanone (MEK)		~~8.0~~ ND	J	7.1	26
4-Methyl-2-pentanone (MIBK)		ND		5.5	26
Methyl tert-butyl ether		ND		1.1	2.6
Methylcyclohexane		ND		1.1	2.6
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND		1.1	26
N-Propylbenzene		ND		1.1	2.6
o-Xylene		ND		1.1	2.6
4-Isopropyltoluene		ND		1.1	2.6
sec-Butylbenzene		ND		1.1	2.6
Styrene		ND		1.1	2.6
Tert-amyl methyl ether		ND		1.1	2.6
tert-Butylbenzene		ND		1.1	2.6
Tetrachloroethene		ND		1.1	2.6
Tetrahydrofuran		33 U		5.8	26
Toluene		ND		1.1	2.6
trans-1,2-Dichloroethene		ND		1.1	2.6
trans-1,3-Dichloropropene		ND		1.1	2.6
Trichloroethene		ND		1.1	2.6
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	99		70 - 130

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TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-7.0/9.0-DUP**

Lab Sample ID: 360-24563-13
Client Matrix: Solid
% Moisture: 7.4

Date Sampled: 09/11/2009 0900
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-48976		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-48975		Lab File ID:	V45029.D
Dilution:	1.0			Initial Weight/Volume:	5.10 g
Date Analyzed:	09/15/2009 2134			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	4.5	T J

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TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-7.0/9.0-XXX**

Lab Sample ID: 360-24563-14
Client Matrix: Solid % Moisture: 7.2

Date Sampled: 09/11/2009 0900
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45055.D
Dilution:	1.0			Initial Weight/Volume:	5.77 g
Date Analyzed:	09/16/2009 1923			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.93	2.3
1,1,1-Trichloroethane		ND		0.93	2.3
1,1,2,2-Tetrachloroethane		ND		0.93	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.93	12
1,1,2-Trichloroethane		ND		0.93	2.3
1,1-Dichloroethane		ND		0.93	2.3
1,1-Dichloroethene		ND		0.93	2.3
1,1-Dichloropropene		ND		0.93	2.3
1,2,3-Trichlorobenzene		ND		0.93	2.3
1,2,3-Trichloropropane		ND		1.4	2.3
1,2,4-Trichlorobenzene		ND		0.93	2.3
1,2,4-Trimethylbenzene		ND		0.93	2.3
1,2-Dibromo-3-Chloropropane		ND		1.7	23
Ethylene Dibromide		ND		0.93	2.3
1,2-Dichlorobenzene		ND		0.93	2.3
1,2-Dichloroethane		ND		0.93	2.3
Acetone		ND	J	17	230
1,2-Dichloropropane		ND		0.93	2.3
1,3,5-Trimethylbenzene		ND		0.93	2.3
1,3-Dichlorobenzene		ND		0.93	2.3
1,3-Dichloropropane		ND		0.93	2.3
1,4-Dichlorobenzene		ND		0.93	2.3
1,4-Dioxane		ND	J	31	230
2,2-Dichloropropane		ND		0.93	2.3
2,4,4-Trimethyl-1-pentene		ND		0.93	4.7
2,4,4-Trimethyl-2-pentene		ND		0.93	4.7
2-Chlorotoluene		ND		0.93	2.3
2-Hexanone		ND		4.8	23
4-Chlorotoluene		ND		0.93	2.3
Benzene		ND		0.93	2.3
Bromobenzene		ND		0.93	2.3
Chlorobromomethane		ND		0.93	2.3
Dichlorobromomethane		ND		0.93	2.3
Bromoform		ND		0.93	2.3
Bromomethane		ND		0.93	4.7
n-Butylbenzene		ND		0.93	2.3
Carbon disulfide		ND		0.93	2.3
Carbon tetrachloride		ND		0.93	2.3
Chlorobenzene		ND		0.93	2.3
Chloroethane		ND		0.93	4.7
Chloroform		ND		0.93	2.3
Chloromethane		ND		0.93	4.7
cis-1,2-Dichloroethene		ND		0.93	2.3
cis-1,3-Dichloropropene		ND		0.93	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.93	2.3

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TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-7.0/9.0-XXX**

Lab Sample ID: 360-24563-14
Client Matrix: Solid
% Moisture: 7.2

Date Sampled: 09/11/2009 0900
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45055.D
Dilution:	1.0			Initial Weight/Volume:	5.77 g
Date Analyzed:	09/16/2009 1923			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.93	2.3
Dichlorodifluoromethane		ND J		0.93	4.7
Ethyl ether		ND		0.93	2.3
Isopropyl ether		ND		0.93	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.93	2.3
Hexachlorobutadiene		ND		0.93	2.3
Isopropylbenzene		ND		0.93	2.3
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.3	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.93	2.3
Methylcyclohexane		ND		0.93	2.3
Methylene Chloride		ND		4.5	9.3
m-Xylene & p-Xylene		ND		0.93	4.7
Naphthalene		ND		0.93	23
N-Propylbenzene		ND		0.93	2.3
o-Xylene		ND		0.93	2.3
4-Isopropyltoluene		ND		0.93	2.3
sec-Butylbenzene		ND		0.93	2.3
Styrene		ND		0.93	2.3
Tert-amyl methyl ether		ND		0.93	2.3
tert-Butylbenzene		ND		0.93	2.3
Tetrachloroethene		ND		0.93	2.3
Tetrahydrofuran		ND		5.1	23
Toluene		ND		0.93	2.3
trans-1,2-Dichloroethene		ND		0.93	2.3
trans-1,3-Dichloropropene		ND		0.93	2.3
Trichloroethene		ND		0.93	2.3
Trichlorofluoromethane		ND		0.93	4.7
Vinyl chloride		ND		0.93	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	103		70 - 130

4/12/10 TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-456-7.0/9.0-XXX**

Lab Sample ID: 360-24563-14
Client Matrix: Solid % Moisture: 7.2

Date Sampled: 09/11/2009 0900
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45055.D
Dilution:	1.0			Initial Weight/Volume:	5.77 g
Date Analyzed:	09/16/2009 1923			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-457-0.0/1.0-XXX**

Lab Sample ID: 360-24563-15
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 09/11/2009 1310
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45056.D
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Date Analyzed:	09/16/2009 1947			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND J		18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND J		33	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	5.0
2,4,4-Trimethyl-2-pentene		ND		0.99	5.0
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	5.0
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	5.0
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	5.0
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		0.99	2.5

4/12/10
FC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-457-0.0/1.0-XXX**

Lab Sample ID: 360-24563-15
Client Matrix: Solid % Moisture: 4.8

Date Sampled: 09/11/2009 1310
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45056.D
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Date Analyzed:	09/16/2009 1947			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND J		0.99	5.0
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	5.0
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	5.0
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	102		70 - 130

4/12/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-457-0.0/1.0-XXX**

Lab Sample ID: 360-24563-15
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 09/11/2009 1310
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45056.D
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Date Analyzed:	09/16/2009 1947			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.36	3.7	T J

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-457-8.0/10-XXX**

Lab Sample ID: 360-24563-16
Client Matrix: Solid % Moisture: 9.2

Date Sampled: 09/11/2009 1320
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45057.D
Dilution:	1.0			Initial Weight/Volume:	6.19 g
Date Analyzed:	09/16/2009 2011			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.89	2.2
1,1,1-Trichloroethane		ND		0.89	2.2
1,1,2,2-Tetrachloroethane		ND		0.89	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.89	11
1,1,2-Trichloroethane		ND		0.89	2.2
1,1-Dichloroethane		ND		0.89	2.2
1,1-Dichloroethene		ND		0.89	2.2
1,1-Dichloropropene		ND		0.89	2.2
1,2,3-Trichlorobenzene		ND		0.89	2.2
1,2,3-Trichloropropane		ND		1.3	2.2
1,2,4-Trichlorobenzene		ND		0.89	2.2
1,2,4-Trimethylbenzene		ND		0.89	2.2
1,2-Dibromo-3-Chloropropane		ND		1.6	22
Ethylene Dibromide		ND		0.89	2.2
1,2-Dichlorobenzene		ND		0.89	2.2
1,2-Dichloroethane		ND		0.89	2.2
Acetone		ND	J	16	220
1,2-Dichloropropane		ND		0.89	2.2
1,3,5-Trimethylbenzene		ND		0.89	2.2
1,3-Dichlorobenzene		ND		0.89	2.2
1,3-Dichloropropane		ND		0.89	2.2
1,4-Dichlorobenzene		ND		0.89	2.2
1,4-Dioxane		ND	J	29	220
2,2-Dichloropropane		ND		0.89	2.2
2,4,4-Trimethyl-1-pentene		ND		0.89	4.5
2,4,4-Trimethyl-2-pentene		ND		0.89	4.5
2-Chlorotoluene		ND		0.89	2.2
2-Hexanone		ND		4.6	22
4-Chlorotoluene		ND		0.89	2.2
Benzene		ND		0.89	2.2
Bromobenzene		ND		0.89	2.2
Chlorobromomethane		ND		0.89	2.2
Dichlorobromomethane		ND		0.89	2.2
Bromoform		ND		0.89	2.2
Bromomethane		ND		0.89	4.5
n-Butylbenzene		ND		0.89	2.2
Carbon disulfide		ND		0.89	2.2
Carbon tetrachloride		ND		0.89	2.2
Chlorobenzene		ND		0.89	2.2
Chloroethane		ND		0.89	4.5
Chloroform		ND		0.89	2.2
Chloromethane		ND		0.89	4.5
cis-1,2-Dichloroethene		ND		0.89	2.2
cis-1,3-Dichloropropene		ND		0.89	2.2
Cyclohexane		ND		2.3	22
Chlorodibromomethane		ND		0.89	2.2

TC 4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-457-8.0/10-XXX**

Lab Sample ID: 360-24563-16
Client Matrix: Solid
% Moisture: 9.2

Date Sampled: 09/11/2009 1320
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45057.D
Dilution:	1.0			Initial Weight/Volume:	6.19 g
Date Analyzed:	09/16/2009 2011			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.89	2.2
Dichlorodifluoromethane		ND		0.89	4.5
Ethyl ether		ND		0.89	2.2
Isopropyl ether		ND		0.89	2.2
Tert-butyl ethyl ether		ND		2.2	2.2
Ethylbenzene		ND		0.89	2.2
Hexachlorobutadiene		ND		0.89	2.2
Isopropylbenzene		ND		0.89	2.2
Methyl acetate		ND		14	45
2-Butanone (MEK)		ND		6.0	22
4-Methyl-2-pentanone (MIBK)		ND		4.6	22
Methyl tert-butyl ether		ND		0.89	2.2
Methylcyclohexane		ND		0.89	2.2
Methylene Chloride		ND		4.3	8.9
m-Xylene & p-Xylene		ND		0.89	4.5
Naphthalene		ND		0.89	22
N-Propylbenzene		ND		0.89	2.2
o-Xylene		ND		0.89	2.2
4-Isopropyltoluene		ND		0.89	2.2
sec-Butylbenzene		ND		0.89	2.2
Styrene		ND		0.89	2.2
Tert-amyl methyl ether		ND		0.89	2.2
tert-Butylbenzene		ND		0.89	2.2
Tetrachloroethene		ND		0.89	2.2
Tetrahydrofuran		ND		4.9	22
Toluene		ND		0.89	2.2
trans-1,2-Dichloroethene		ND		0.89	2.2
trans-1,3-Dichloropropene		ND		0.89	2.2
Trichloroethene		ND		0.89	2.2
Trichlorofluoromethane		ND		0.89	4.5
Vinyl chloride		ND		0.89	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	101		70 - 130

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-SB-457-8.0/10-XXX**

Lab Sample ID: 360-24563-16
Client Matrix: Solid % Moisture: 9.2

Date Sampled: 09/11/2009 1320
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45057.D
Dilution:	1.0			Initial Weight/Volume:	6.19 g
Date Analyzed:	09/16/2009 2011			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.36	3.3	TJ

4/12/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-EBK-009**

Lab Sample ID: 360-24563-23
Client Matrix: Water

Date Sampled: 09/10/2009 1850
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/17/2009 2018
Date Prepared: 09/17/2009 2018

Analysis Batch: 360-49119

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06982.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND	*	0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND	*	7.7	50
2,2-Dichloropropane	ND	*	0.60	1.0
2,4,4-Trimethyl-1-pentene	ND		0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND		0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	1.1		0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-EBK-009**

Lab Sample ID: 360-24563-23
Client Matrix: Water

Date Sampled: 09/10/2009 1850
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49119	Instrument ID: Agilent#2 GC/MS
Preparation:	5030B		Lab File ID: V06982.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	09/17/2009 2018		Final Weight/Volume: 5 mL
Date Prepared:	09/17/2009 2018		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND		0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	87		70 - 130
Dibromofluoromethane	126		70 - 130
Toluene-d8 (Surr)	94		70 - 130

4/12/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Client Sample ID: **OC-EBK-009**

Lab Sample ID: 360-24563-23
Client Matrix: Water

Date Sampled: 09/10/2009 1850
Date Received: 09/11/2009 1820

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49119		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V06982.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	09/17/2009 2018			Final Weight/Volume:	5 mL
Date Prepared:	09/17/2009 2018				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	2.03	2.0	T J

TC
4-12-10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

I-Cal 1,4-Dioxane RRF < 0.05 OJ

Acetone
dichlorodifluoromethane

4/8/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab File ID: V44990.D BFB Injection Date: 09/15/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 00:08

Analysis Batch No.: 48939

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	30.0	
75	30.0 - 60.0 % of mass 95	52.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.9	
175	5.0 - 9.0 % of mass 174	5.6	(8.4)1
176	95.0 - 101.0 % of mass 174	63.8	(95.4)1
177	5.0 - 9.0 % of mass 176	4.2	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48939/2	V44991.D	09/15/2009	00:32
	LCS 360-48935/1-A	V44992.D	09/15/2009	00:57
	LCSD 360-48935/2-A	V44993.D	09/15/2009	01:21
	MB 360-48935/3-A	V44997.D	09/15/2009	02:57
OC-SB-427-12/14-XXX	360-24563-2	V45011.D	09/15/2009	08:35

Clean

LCS LCSD
1,1,2-Trichloro-1,2,2-trifluoroethane 68% 48%
Chloroethane 65%
Dichlorodifluoromethane 39%
Methyl Acetate 165% 184%
Trichlorofluoromethane 67%

1,1,2-Trichloro-1,2,2-trifluoroethane -25.1
Methyl Acetate 45.9
~~Vinyl Acetate~~ ~~-30.7~~ (Tc)

4/8/10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab File ID: V45012.D BFB Injection Date: 09/15/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 14:44

Analysis Batch No.: 48976

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.8	
75	30.0 - 60.0 % of mass 95	50.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.8	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	66.3	(97.8)1
177	5.0 - 9.0 % of mass 176	4.6	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48976/2	V45013.D	09/15/2009	15:08
	LCS 360-48975/1-A	V45014.D	09/15/2009	15:33
	LCSD 360-48975/2-A	V45015.D	09/15/2009	15:57
OC-SB-427-8.0/10-XXX MS	360-24563-5 MS	V45016.D	09/15/2009	16:21
OC-SB-427-8.0/10-XXX MSD	360-24563-5 MSD	V45017.D	09/15/2009	16:46
	MB 360-48975/3-A	V45019.D	09/15/2009	17:34
OC-SB-427-8.0/10-DUP	360-24563-4	V45021.D	09/15/2009	18:22
OC-SB-427-8.0/10-XXX	360-24563-5	V45022.D	09/15/2009	18:45
OC-SB-428-8.0/10-XXX	360-24563-9	V45023.D	09/15/2009	19:09
OC-SB-427-0.0/1.0-XXX	360-24563-1	V45024.D	09/15/2009	19:34
OC-SB-428-0.0/1.0-XXX	360-24563-6	V45025.D	09/15/2009	19:58
OC-TBK-017	360-24563-10	V45026.D	09/15/2009	20:22
OC-SB-456-0.0/1.0-XXX	360-24563-11	V45027.D	09/15/2009	20:46
OC-SB-456-16/18-XXX	360-24563-12	V45028.D	09/15/2009	21:10
OC-SB-456-7.0/9.0-DUP	360-24563-13	V45029.D	09/15/2009	21:34

in control

Dichlorodifluoromethane LCS 60% LCSD 60%

Clean

Trip Blank

Tetrahydrofuran 53 ug/kg x5 = 165 ug/kg

2-Butanone 10 ug/kg x10 = 100 ug/kg

Action

(U) Qual All samples w/ detections < Action

	MS	MSD
123Trichlorobenzene	69	69
N butyl benzene	67	70
Dichlorodifluoromethane	62	58
Hexachlorobutadiene	43	45

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab File ID: V45032.D BFB Injection Date: 09/15/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 22:47

Analysis Batch No.: 48982

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.9	
75	30.0 - 60.0 % of mass 95	51.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	68.2	
175	5.0 - 9.0 % of mass 174	5.6	(8.2)1
176	95.0 - 101.0 % of mass 174	65.6	(96.2)1
177	5.0 - 9.0 % of mass 176	4.3	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-48982/2	V45033.D	09/15/2009	23:11
	LCS 360-48981/1-A	V45034.D	09/15/2009	23:35
	MB 360-48981/3-A	V45039.D	09/16/2009	01:35
OC-SB-427-12/14-XXX	360-24563-2	V45041.D	09/16/2009	02:23
	LCSD 360-48981/2-A	V45035.D	09/16/2009	23:59

Clean

LCS LCSD
Dichlorodifluoromethane 58 46
Methyl Acetate 157 155

Methyl Acetate 53.2

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab File ID: V45047.D BFB Injection Date: 09/16/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:13

Analysis Batch No.: 49049

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.7	
75	30.0 - 60.0 % of mass 95	50.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	69.2	
175	5.0 - 9.0 % of mass 174	5.7	(8.2)1
176	95.0 - 101.0 % of mass 174	67.4	(97.4)1
177	5.0 - 9.0 % of mass 176	4.3	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49049/2	V45048.D	09/16/2009	16:37
	LCS 360-49046/1-A	V45049.D	09/16/2009	17:01
	LCSD 360-49046/2-A	V45050.D	09/16/2009	17:25
OC-SB-456-7.0/9.0-XXX MS	360-24563-14 MS	V45051.D	09/16/2009	17:48
OC-SB-456-7.0/9.0-XXX MSD	360-24563-14 MSD	V45052.D	09/16/2009	18:12
	MB 360-49046/3-A	V45054.D	09/16/2009	18:58
OC-SB-456-7.0/9.0-XXX	360-24563-14	V45055.D	09/16/2009	19:23
OC-SB-457-0.0/1.0-XXX	360-24563-15	V45056.D	09/16/2009	19:47
OC-SB-457-8.0/10-XXX	360-24563-16	V45057.D	09/16/2009	20:11

Acetone 25.8

Dichlorodifluoromethane LCS 46 LCSD 56

Unknown @ 10.36 min deleted TICs in Lab sample ID's 360-24563-15 360-24563-16

1,4-Dioxane RPD = 33

Dichlorodifluoromethane MS 65% MSD 68%

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab File ID: V45233.D BFB Injection Date: 09/22/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:22

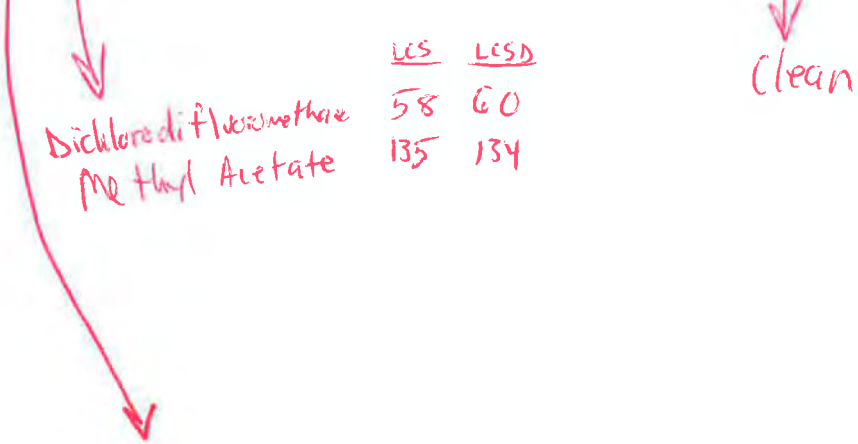
Analysis Batch No.: 49326

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.0	
75	30.0 - 60.0 % of mass 95	49.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.3	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	65.0	(96.7)1
177	5.0 - 9.0 % of mass 176	4.5	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49326/3	V45234.D	09/22/2009	16:46
	LCS 360-49322/1-A	V45235.D	09/22/2009	17:10
	LCSD 360-49322/2-A	V45236.D	09/22/2009	17:33
	MB 360-49322/3-A	V45238.D	09/22/2009	18:20
OC-SB-427-17/19-XXX	360-24563-3	V45240.D	09/22/2009	19:09
OC-SB-428-23/25-XXX	360-24563-7	V45241.D	09/22/2009	19:33



4/8/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab File ID: V06970.D BFB Injection Date: 09/17/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:05

Analysis Batch No.: 49119

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.6	
75	30.0 - 60.0 % of mass 95	51.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.9	(1.2)1
174	50.0 - 120.00 % of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	5.8	(7.2)1
176	95.0 - 101.0 % of mass 174	76.4	(95.4)1
177	5.0 - 9.0 % of mass 176	5.0	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49119/2	V06971.D	09/17/2009	16:26
	LCS 360-49119/3	V06972.D	09/17/2009	16:47
	LCSD 360-49119/4	V06973.D	09/17/2009	17:07
	MB 360-49119/6	V06975.D	09/17/2009	17:49
OC-EBK-009	360-24563-23	V06982.D	09/17/2009	20:18

4/8/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
360-24563-1	OC-SB-427-0.0/1.0-XX	92	95	102
360-24563-2	OC-SB-427-12/14-XX	97	96	100
360-24563-2	OC-SB-427-12/14-XX	102	102	101
360-24563-3	OC-SB-427-17/19-XX	91	95	103
360-24563-4	OC-SB-427-8.0/10-DUP	100	105	100
360-24563-5	OC-SB-427-8.0/10-XX	101	102	100
360-24563-6	OC-SB-428-0.0/1.0-XX	100	101	101
360-24563-7	OC-SB-428-23/25-XX	95	101	104
360-24563-9	OC-SB-428-8.0/10-XX	103	106	100
360-24563-10	OC-TBK-017	101	102	99
360-24563-11	OC-SB-456-0.0/1.0-XX	100	103	101
360-24563-12	OC-SB-456-16/18-XX	100	102	100
360-24563-13	OC-SB-456-7.0/9.0-DUP	102	104	99
360-24563-14	OC-SB-456-7.0/9.0-XX	93	96	103
360-24563-15	OC-SB-457-0.0/1.0-XX	97	98	102
360-24563-16	OC-SB-457-8.0/10-XX	102	106	101
MB 360-48935/3-A		95	94	104
MB 360-48975/3-A		102	104	101
MB 360-48981/3-A		96	97	104
MB 360-49046/3-A		105	100	101
MB 360-49322/3-A		102	102	100

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

TC 4/8/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
LCS 360-48935/1-A		88	94	104
LCS 360-48975/1-A		95	99	101
LCS 360-48981/1-A		94	98	100
LCS 360-49046/1-A		90	93	106
LCS 360-49322/1-A		97	100	101
LCSD 360-48935/2-A		96	96	99
LCSD 360-48975/2-A		95	99	102
LCSD 360-48981/2-A		97	98	101
LCSD 360-49046/2-A		96	102	102
LCSD 360-49322/2-A		97	97	101
360-24563-5 MS	OC-SB-427-8.0/10-XX X MS	95	101	101
360-24563-14 MS	OC-SB-456-7.0/9.0-X XX MS	96	99	100
360-24563-5 MSD	OC-SB-427-8.0/10-XX X MSD	94	101	102
360-24563-14 MSD	OC-SB-456-7.0/9.0-X XX MSD	98	98	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

TC 4/8/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
360-24563-23	OC-EBK-009	87	126	94
MB 360-49119/6		85	112	96
LCS 360-49119/3		98	100	103
LCSD 360-49119/4		98	101	104

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

TC 4/8/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-48935

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-48935/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/15/2009 0257
Date Prepared: 09/14/2009 1454

Analysis Batch: 360-48939
Prep Batch: 360-48935
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V44997.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		50	120
1,1,1,2-Tetrachloroethane	ND		50	120
1,1,2,2-Tetrachloroethane	ND		50	120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	620
1,1,2-Trichloroethane	ND		50	120
1,1-Dichloroethane	ND		50	120
1,1-Dichloroethene	ND		50	120
1,1-Dichloropropene	ND		50	120
1,2,3-Trichlorobenzene	ND		50	120
1,2,3-Trichloropropane	ND		74	120
1,2,4-Trichlorobenzene	ND		50	120
1,2,4-Trimethylbenzene	ND		50	120
1,2-Dibromo-3-Chloropropane	ND		90	1200
Ethylene Dibromide	ND		50	120
1,2-Dichlorobenzene	ND		50	120
1,2-Dichloroethane	ND		50	120
1,2-Dichloropropane	ND		50	120
1,3,5-Trimethylbenzene	ND		50	120
1,3-Dichlorobenzene	ND		50	120
1,3-Dichloropropane	ND		50	120
1,4-Dichlorobenzene	ND		50	120
1,4-Dioxane	ND		1600	12000
2,2-Dichloropropane	ND		50	120
2,4,4-Trimethyl-1-pentene	ND		50	250
2,4,4-Trimethyl-2-pentene	ND		50	250
2-Chlorotoluene	ND		50	120
2-Hexanone	ND		260	1200
4-Chlorotoluene	ND		50	120
Acetone	ND		900	12000
Benzene	ND		50	120
Bromobenzene	ND		50	120
Chlorobromomethane	ND		50	120
Dichlorobromomethane	ND		50	120
Bromoform	ND		50	120
Bromomethane	ND		50	250
n-Butylbenzene	ND		50	120
Carbon disulfide	ND		50	120
Carbon tetrachloride	ND		50	120
Chlorobenzene	ND		50	120
Chloroethane	ND		50	250
Chloroform	ND		50	120

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4/8/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-48935

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-48935/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/15/2009 0257
Date Prepared: 09/14/2009 1454

Analysis Batch: 360-48939
Prep Batch: 360-48935
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V44997.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		50	250
cis-1,2-Dichloroethene	ND		50	120
cis-1,3-Dichloropropene	ND		50	120
Cyclohexane	ND		130	1200
Chlorodibromomethane	ND		50	120
Dibromomethane	ND		50	120
Dichlorodifluoromethane	ND		50	250
Ethyl ether	ND		50	120
Isopropyl ether	ND		50	120
Tert-butyl ethyl ether	ND		120	120
Ethylbenzene	ND		50	120
Hexachlorobutadiene	ND		50	120
Isopropylbenzene	ND		50	120
Methyl acetate	ND		810	2500
2-Butanone (MEK)	ND		340	1200
4-Methyl-2-pentanone (MIBK)	ND		260	1200
Methyl tert-butyl ether	ND		50	120
Methylcyclohexane	ND		50	120
Methylene Chloride	ND		240	500
m-Xylene & p-Xylene	ND		50	250
Naphthalene	ND		50	1200
N-Propylbenzene	ND		50	120
o-Xylene	ND		50	120
4-Isopropyltoluene	ND		50	120
sec-Butylbenzene	ND		50	120
Styrene	ND		50	120
Tert-amyl methyl ether	ND		50	120
tert-Butylbenzene	ND		50	120
Tetrachloroethene	ND		50	120
Tetrahydrofuran	ND		280	1200
Toluene	ND		50	120
trans-1,2-Dichloroethene	ND		50	120
trans-1,3-Dichloropropene	ND		50	120
Trichloroethene	ND		50	120
Trichlorofluoromethane	ND		50	250
Vinyl chloride	ND		50	120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	95	70 - 130
Dibromofluoromethane	94	70 - 130
Toluene-d8 (Surr)	104	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4/8/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank TICs- Batch: 360-48935

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	12.83	60.9	T J

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4/8/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-48935

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-48935/1-A	Analysis Batch:	360-48939	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48935	Lab File ID:	V44992.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/15/2009 0057			Final Weight/Volume:	10 g
Date Prepared:	09/14/2009 1454				

LCSD Lab Sample ID:	LCSD 360-48935/2-A	Analysis Batch:	360-48939	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48935	Lab File ID:	V44993.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/15/2009 0121			Final Weight/Volume:	10 g
Date Prepared:	09/14/2009 1454				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	76	93	70 - 130	20	25		
1,1,1,2-Tetrachloroethane	90	107	70 - 130	18	25		
1,1,2,2-Tetrachloroethane	83	90	70 - 130	8	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	68	83	70 - 130	20	25	*	
1,1,2-Trichloroethane	91	90	70 - 130	2	25		
1,1-Dichloroethane	88	105	70 - 130	18	25		
1,1-Dichloroethene	77	95	70 - 130	21	25		
1,1-Dichloropropene	81	92	70 - 130	13	25		
1,2,3-Trichlorobenzene	95	102	70 - 130	7	25		
1,2,3-Trichloropropane	92	108	70 - 130	15	25		
1,2,4-Trichlorobenzene	95	103	70 - 130	8	25		
1,2,4-Trimethylbenzene	82	104	70 - 130	24	25		
1,2-Dibromo-3-Chloropropane	85	92	70 - 130	8	25		
Ethylene Dibromide	92	89	70 - 130	3	25		
1,2-Dichlorobenzene	91	100	70 - 130	10	25		
1,2-Dichloroethane	88	91	70 - 130	4	25		
1,2-Dichloropropane	102	108	70 - 130	6	25		
1,3,5-Trimethylbenzene	85	107	70 - 130	23	25		
1,3-Dichlorobenzene	82	103	70 - 130	23	25		
1,3-Dichloropropane	91	86	70 - 130	6	25		
1,4-Dichlorobenzene	91	101	70 - 130	11	25		
1,4-Dioxane	102	123	70 - 130	19	25		
2,2-Dichloropropane	74	100	70 - 130	30	25		*
2,4,4-Trimethyl-1-pentene	72	89	70 - 130	21	25		
2,4,4-Trimethyl-2-pentene	71	82	70 - 130	14	25		
2-Chlorotoluene	83	103	70 - 130	22	25		
2-Hexanone	82	78	70 - 130	5	25		
4-Chlorotoluene	83	102	70 - 130	21	25		
Acetone	77	84	70 - 130	8	25		
Benzene	91	101	70 - 130	11	25		
Bromobenzene	80	97	70 - 130	19	25		
Chlorobromomethane	85	95	70 - 130	12	25		

4/8/10 TC

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-48935

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-48935/1-A	Analysis Batch:	360-48939	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48935	Lab File ID:	V44992.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/15/2009 0057			Final Weight/Volume:	10 g
Date Prepared:	09/14/2009 1454				

LCSD Lab Sample ID:	LCSD 360-48935/2-A	Analysis Batch:	360-48939	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48935	Lab File ID:	V44993.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/15/2009 0121			Final Weight/Volume:	10 g
Date Prepared:	09/14/2009 1454				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	88	91	70 - 130	3	25		
Bromoform	86	84	70 - 130	3	25		
Bromomethane	91	116	70 - 130	24	25		
n-Butylbenzene	89	102	70 - 130	14	25		
Carbon disulfide	75	92	70 - 130	20	25		
Carbon tetrachloride	76	88	70 - 130	15	25		
Chlorobenzene	95	104	70 - 130	9	25		
Chloroethane	65	87	70 - 130	30	25	*	*
Chloroform	86	100	70 - 130	15	25		
Chloromethane	75	99	70 - 130	28	25		*
cis-1,2-Dichloroethene	85	101	70 - 130	18	25		
cis-1,3-Dichloropropene	90	88	70 - 130	3	25		
Cyclohexane	74	83	70 - 130	11	25		
Chlorodibromomethane	85	84	70 - 130	1	25		
Dibromomethane	89	91	70 - 130	2	25		
Dichlorodifluoromethane	39	48	70 - 130	20	25	*	*
Ethyl ether	85	95	70 - 130	12	25		
Isopropyl ether	80	97	70 - 130	20	25		
Tert-butyl ethyl ether	79	97	70 - 130	20	25		
Ethylbenzene	96	109	70 - 130	13	25		
Hexachlorobutadiene	91	98	70 - 130	8	25		
Isopropylbenzene	87	106	70 - 130	20	25		
Methyl acetate	165	184	70 - 130	11	25	*	*
2-Butanone (MEK)	85	89	70 - 130	5	25		
4-Methyl-2-pentanone (MIBK)	81	87	70 - 130	7	25		
Methyl tert-butyl ether	76	92	70 - 130	19	25		
Methylcyclohexane	77	84	70 - 130	9	25		
Methylene Chloride	88	108	70 - 130	21	25		
m-Xylene & p-Xylene	90	102	70 - 130	13	25		
Naphthalene	84	89	70 - 130	6	25		
N-Propylbenzene	84	103	70 - 130	21	25		
o-Xylene	86	104	70 - 130	19	25		

4/8/10 TC

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-48935

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-48935/1-A	Analysis Batch:	360-48939	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48935	Lab File ID:	V44992.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/15/2009 0057			Final Weight/Volume:	10 g
Date Prepared:	09/14/2009 1454				

LCSD Lab Sample ID:	LCSD 360-48935/2-A	Analysis Batch:	360-48939	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48935	Lab File ID:	V44993.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/15/2009 0121			Final Weight/Volume:	10 g
Date Prepared:	09/14/2009 1454				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	85	108	70 - 130	24	25		
sec-Butylbenzene	82	104	70 - 130	24	25		
Styrene	89	99	70 - 130	10	25		
Tert-amyl methyl ether	80	96	70 - 130	18	25		
tert-Butylbenzene	86	109	70 - 130	23	25		
Tetrachloroethene	95	97	70 - 130	2	25		
Tetrahydrofuran	94	98	70 - 130	4	25		
Toluene	98	101	70 - 130	3	25		
trans-1,2-Dichloroethene	77	94	70 - 130	20	25		
trans-1,3-Dichloropropene	93	86	70 - 130	8	25		
Trichloroethene	94	102	70 - 130	8	25		
Trichlorofluoromethane	67	83	70 - 130	22	25	*	
Vinyl chloride	71	91	70 - 130	25	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	88	96	70 - 130
Dibromofluoromethane	94	96	70 - 130
Toluene-d8 (Surr)	104	99	70 - 130

4/8/10
TC

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-48975

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-48975/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/15/2009 1734
Date Prepared: 09/15/2009 1417

Analysis Batch: 360-48976
Prep Batch: 360-48975
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45019.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
4-Chlorotoluene	ND		1.0	2.5
Acetone	ND		18	250
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-48975

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-48975/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/15/2009 1734
Date Prepared: 09/15/2009 1417

Analysis Batch: 360-48976
Prep Batch: 360-48975
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45019.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	70 - 130
Dibromofluoromethane	104	70 - 130
Toluene-d8 (Surr)	101	70 - 130

4/8/10 TC

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank TICs- Batch: 360-48975

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4/8/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-48975

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-48975/1-A	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45014.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/15/2009 1533			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

LCSD Lab Sample ID:	LCSD 360-48975/2-A	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45015.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/15/2009 1557			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	93	92	70 - 130	1	25		
1,1,1,2-Tetrachloroethane	99	99	70 - 130	0	25		
1,1,2,2-Tetrachloroethane	83	87	70 - 130	5	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	96	93	70 - 130	3	25		
1,1,2-Trichloroethane	89	95	70 - 130	6	25		
1,1-Dichloroethane	97	98	70 - 130	1	25		
1,1-Dichloroethene	97	98	70 - 130	1	25		
1,1-Dichloropropene	94	95	70 - 130	1	25		
1,2,3-Trichlorobenzene	97	103	70 - 130	6	25		
1,2,3-Trichloropropane	103	112	70 - 130	8	25		
1,2,4-Trichlorobenzene	98	102	70 - 130	4	25		
1,2,4-Trimethylbenzene	94	94	70 - 130	0	25		
1,2-Dibromo-3-Chloropropane	87	91	70 - 130	4	25		
Ethylene Dibromide	89	99	70 - 130	10	25		
1,2-Dichlorobenzene	92	94	70 - 130	3	25		
1,2-Dichloroethane	90	95	70 - 130	5	25		
1,2-Dichloropropane	101	106	70 - 130	4	25		
1,3,5-Trimethylbenzene	98	97	70 - 130	1	25		
1,3-Dichlorobenzene	95	95	70 - 130	1	25		
1,3-Dichloropropane	87	93	70 - 130	7	25		
1,4-Dichlorobenzene	93	94	70 - 130	1	25		
1,4-Dioxane	106	119	70 - 130	12	25		
2,2-Dichloropropane	107	105	70 - 130	2	25		
2,4,4-Trimethyl-1-pentene	107	105	70 - 130	2	25		
2,4,4-Trimethyl-2-pentene	102	99	70 - 130	3	25		
2-Chlorotoluene	94	94	70 - 130	0	25		
2-Hexanone	77	88	70 - 130	13	25		
4-Chlorotoluene	93	94	70 - 130	1	25		
Acetone	91	98	70 - 130	8	25		
Benzene	94	96	70 - 130	2	25		
Bromobenzene	90	90	70 - 130	1	25		
Chlorobromomethane	93	96	70 - 130	3	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4/8/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-48975

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-48975/1-A	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45014.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/15/2009 1533			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

LCSD Lab Sample ID:	LCSD 360-48975/2-A	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45015.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/15/2009 1557			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	89	92	70 - 130	3	25		
Bromoform	84	88	70 - 130	5	25		
Bromomethane	103	104	70 - 130	1	25		
n-Butylbenzene	98	96	70 - 130	2	25		
Carbon disulfide	95	94	70 - 130	1	25		
Carbon tetrachloride	94	93	70 - 130	1	25		
Chlorobenzene	97	99	70 - 130	2	25		
Chloroethane	96	97	70 - 130	1	25		
Chloroform	94	95	70 - 130	1	25		
Chloromethane	91	91	70 - 130	0	25		
cis-1,2-Dichloroethene	91	93	70 - 130	2	25		
cis-1,3-Dichloropropene	87	93	70 - 130	7	25		
Cyclohexane	99	95	70 - 130	5	25		
Chlorodibromomethane	84	91	70 - 130	7	25		
Dibromomethane	90	97	70 - 130	7	25		
Dichlorodifluoromethane	61	60	70 - 130	2	25	*	*
Ethyl ether	98	104	70 - 130	6	25		
Isopropyl ether	89	92	70 - 130	3	25		
Tert-butyl ethyl ether	90	94	70 - 130	5	25		
Ethylbenzene	101	102	70 - 130	1	25		
Hexachlorobutadiene	100	100	70 - 130	1	25		
Isopropylbenzene	99	98	70 - 130	2	25		
Methyl acetate	119	125	70 - 130	5	25		
2-Butanone (MEK)	85	91	70 - 130	7	25		
4-Methyl-2-pentanone (MIBK)	83	92	70 - 130	11	25		
Methyl tert-butyl ether	86	92	70 - 130	6	25		
Methylcyclohexane	103	99	70 - 130	4	25		
Methylene Chloride	99	102	70 - 130	3	25		
m-Xylene & p-Xylene	96	96	70 - 130	0	25		
Naphthalene	87	92	70 - 130	6	25		
N-Propylbenzene	97	96	70 - 130	2	25		
o-Xylene	95	95	70 - 130	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-48975

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-48975/1-A	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45014.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/15/2009 1533			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

LCSD Lab Sample ID:	LCSD 360-48975/2-A	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45015.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/15/2009 1557			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	103	102	70 - 130	2	25		
sec-Butylbenzene	99	98	70 - 130	2	25		
Styrene	91	95	70 - 130	3	25		
Tert-amyl methyl ether	92	97	70 - 130	6	25		
tert-Butylbenzene	101	99	70 - 130	2	25		
Tetrachloroethene	103	105	70 - 130	2	25		
Tetrahydrofuran	99	106	70 - 130	7	25		
Toluene	96	100	70 - 130	4	25		
trans-1,2-Dichloroethene	89	89	70 - 130	1	25		
trans-1,3-Dichloropropene	86	94	70 - 130	9	25		
Trichloroethene	98	100	70 - 130	2	25		
Trichlorofluoromethane	94	94	70 - 130	1	25		
Vinyl chloride	93	92	70 - 130	1	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	95	95	70 - 130
Dibromofluoromethane	99	99	70 - 130
Toluene-d8 (Surr)	101	102	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-48975

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	360-24563-5	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45016.D
Dilution:	1.0			Initial Weight/Volume:	4.82 g
Date Analyzed:	09/15/2009 1621			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

MSD Lab Sample ID:	360-24563-5	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45017.D
Dilution:	1.0			Initial Weight/Volume:	5.03 g
Date Analyzed:	09/15/2009 1646			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	99	98	70 - 130	6	30		
1,1,1-Trichloroethane	89	89	70 - 130	5	30		
1,1,2,2-Tetrachloroethane	89	89	70 - 130	5	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	89	89	70 - 130	4	30		
1,1,2-Trichloroethane	95	94	70 - 130	5	30		
1,1-Dichloroethane	97	96	70 - 130	6	30		
1,1-Dichloroethene	94	93	70 - 130	5	30		
1,1-Dichloropropene	90	89	70 - 130	5	30		
1,2,3-Trichlorobenzene	69	69	70 - 130	5	30	F	F
1,2,3-Trichloropropane	110	107	70 - 130	7	30		
1,2,4-Trichlorobenzene	72	72	70 - 130	3	30		
1,2,4-Trimethylbenzene	80	79	70 - 130	5	30		
1,2-Dibromo-3-Chloropropane	94	91	70 - 130	7	30		
Ethylene Dibromide	96	94	70 - 130	6	30		
1,2-Dichlorobenzene	83	83	70 - 130	5	30		
1,2-Dichloroethane	93	94	70 - 130	3	30		
Acetone	103	97	70 - 130	10	30		
1,2-Dichloropropane	106	104	70 - 130	6	30		
1,3,5-Trimethylbenzene	82	82	70 - 130	5	30		
1,3-Dichlorobenzene	82	80	70 - 130	7	30		
1,3-Dichloropropane	91	91	70 - 130	5	30		
1,4-Dichlorobenzene	83	83	70 - 130	4	30		
1,4-Dioxane	126	116	70 - 130	13	30		
2,2-Dichloropropane	103	101	70 - 130	6	30		
2,4,4-Trimethyl-1-pentene	77	79	70 - 130	2	30		
2,4,4-Trimethyl-2-pentene	75	77	70 - 130	2	30		
2-Chlorotoluene	82	81	70 - 130	5	30		
2-Hexanone	88	85	70 - 130	7	30		
4-Chlorotoluene	84	82	70 - 130	7	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-48975

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	360-24563-5	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45016.D
Dilution:	1.0			Initial Weight/Volume:	4.82 g
Date Analyzed:	09/15/2009 1621			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

MSD Lab Sample ID:	360-24563-5	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45017.D
Dilution:	1.0			Initial Weight/Volume:	5.03 g
Date Analyzed:	09/15/2009 1646			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	95	94	70 - 130	5	30		
Bromobenzene	84	83	70 - 130	6	30		
Chlorobromomethane	96	95	70 - 130	5	30		
Dichlorobromomethane	94	91	70 - 130	6	30		
Bromoform	90	88	70 - 130	7	30		
Bromomethane	104	101	70 - 130	7	30		
n-Butylbenzene	67	70	70 - 130	0	30	F	
Carbon disulfide	86	86	70 - 130	5	30		
Carbon tetrachloride	90	90	70 - 130	5	30		
Chlorobenzene	93	93	70 - 130	4	30		
Chloroethane	95	94	70 - 130	5	30		
Chloroform	95	94	70 - 130	5	30		
Chloromethane	91	91	70 - 130	5	30		
cis-1,2-Dichloroethene	92	91	70 - 130	6	30		
cis-1,3-Dichloropropene	91	90	70 - 130	5	30		
Cyclohexane	87	87	70 - 130	4	30		
Chlorodibromomethane	91	89	70 - 130	7	30		
Dibromomethane	96	94	70 - 130	6	30		
Dichlorodifluoromethane	62	58	70 - 130	11	30	F	F
Ethyl ether	105	104	70 - 130	6	30		
Isopropyl ether	93	91	70 - 130	6	30		
Tert-butyl ethyl ether	97	95	70 - 130	6	30		
Ethylbenzene	93	94	70 - 130	4	30		
Hexachlorobutadiene	43	45	70 - 130	0	30	F	F
Isopropylbenzene	85	85	70 - 130	4	30		
Methyl acetate	119	122	70 - 130	1	30		
2-Butanone (MEK)	97	94	70 - 130	7	30		
4-Methyl-2-pentanone (MIBK)	93	90	70 - 130	7	30		
Methyl tert-butyl ether	95	92	70 - 130	7	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-48975

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	360-24563-5	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45016.D
Dilution:	1.0			Initial Weight/Volume:	4.82 g
Date Analyzed:	09/15/2009 1621			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

MSD Lab Sample ID:	360-24563-5	Analysis Batch:	360-48976	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48975	Lab File ID:	V45017.D
Dilution:	1.0			Initial Weight/Volume:	5.03 g
Date Analyzed:	09/15/2009 1646			Final Weight/Volume:	5 g
Date Prepared:	09/15/2009 1417				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Methylcyclohexane	79	81	70 - 130	2	30		
Methylene Chloride	99	98	70 - 130	5	30		
m-Xylene & p-Xylene	88	87	70 - 130	5	30		
Naphthalene	79	75	70 - 130	9	30		
N-Propylbenzene	81	81	70 - 130	4	30		
o-Xylene	89	88	70 - 130	5	30		
4-Isopropyltoluene	76	77	70 - 130	3	30		
sec-Butylbenzene	73	74	70 - 130	2	30		
Styrene	89	88	70 - 130	6	30		
Tert-amyl methyl ether	100	97	70 - 130	7	30		
tert-Butylbenzene	79	80	70 - 130	3	30		
Tetrachloroethene	93	92	70 - 130	6	30		
Tetrahydrofuran	115	113	70 - 130	6	30		
Toluene	96	94	70 - 130	5	30		
trans-1,2-Dichloroethene	85	85	70 - 130	4	30		
trans-1,3-Dichloropropene	91	91	70 - 130	4	30		
Trichloroethene	95	94	70 - 130	5	30		
Trichlorofluoromethane	94	93	70 - 130	5	30		
Vinyl chloride	91	91	70 - 130	4	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	95	94	70 - 130
Dibromofluoromethane	101	101	70 - 130
Toluene-d8 (Surr)	101	102	70 - 130

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Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-48981

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-48981/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/16/2009 0135
Date Prepared: 09/15/2009 1500

Analysis Batch: 360-48982
Prep Batch: 360-48981
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45039.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		50	120
1,1,1,2-Tetrachloroethane	ND		50	120
1,1,2,2-Tetrachloroethane	ND		50	120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	620
1,1,2-Trichloroethane	ND		50	120
1,1-Dichloroethane	ND		50	120
1,1-Dichloroethene	ND		50	120
1,1-Dichloropropene	ND		50	120
1,2,3-Trichlorobenzene	ND		50	120
1,2,3-Trichloropropane	ND		74	120
1,2,4-Trichlorobenzene	ND		50	120
1,2,4-Trimethylbenzene	ND		50	120
1,2-Dibromo-3-Chloropropane	ND		90	1200
Ethylene Dibromide	ND		50	120
1,2-Dichlorobenzene	ND		50	120
1,2-Dichloroethane	ND		50	120
1,2-Dichloropropane	ND		50	120
1,3,5-Trimethylbenzene	ND		50	120
1,3-Dichlorobenzene	ND		50	120
1,3-Dichloropropane	ND		50	120
1,4-Dichlorobenzene	ND		50	120
1,4-Dioxane	ND		1600	12000
2,2-Dichloropropane	ND		50	120
2,4,4-Trimethyl-1-pentene	ND		50	250
2,4,4-Trimethyl-2-pentene	ND		50	250
2-Chlorotoluene	ND		50	120
2-Hexanone	ND		260	1200
4-Chlorotoluene	ND		50	120
Acetone	ND		900	12000
Benzene	ND		50	120
Bromobenzene	ND		50	120
Chlorobromomethane	ND		50	120
Dichlorobromomethane	ND		50	120
Bromoform	ND		50	120
Bromomethane	ND		50	250
n-Butylbenzene	ND		50	120
Carbon disulfide	ND		50	120
Carbon tetrachloride	ND		50	120
Chlorobenzene	ND		50	120
Chloroethane	ND		50	250
Chloroform	ND		50	120

Calculations are performed before rounding to avoid round-off errors in calculated results.

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TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-48981

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-48981/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/16/2009 0135
Date Prepared: 09/15/2009 1500

Analysis Batch: 360-48982
Prep Batch: 360-48981
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45039.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		50	250
cis-1,2-Dichloroethene	ND		50	120
cis-1,3-Dichloropropene	ND		50	120
Cyclohexane	ND		130	1200
Chlorodibromomethane	ND		50	120
Dibromomethane	ND		50	120
Dichlorodifluoromethane	ND		50	250
Ethyl ether	ND		50	120
Isopropyl ether	ND		50	120
Tert-butyl ethyl ether	ND		120	120
Ethylbenzene	ND		50	120
Hexachlorobutadiene	ND		50	120
Isopropylbenzene	ND		50	120
Methyl acetate	ND		810	2500
2-Butanone (MEK)	ND		340	1200
4-Methyl-2-pentanone (MIBK)	ND		260	1200
Methyl tert-butyl ether	ND		50	120
Methylcyclohexane	ND		50	120
Methylene Chloride	ND		240	500
m-Xylene & p-Xylene	ND		50	250
Naphthalene	ND		50	1200
N-Propylbenzene	ND		50	120
o-Xylene	ND		50	120
4-Isopropyltoluene	ND		50	120
sec-Butylbenzene	ND		50	120
Styrene	ND		50	120
Tert-amyl methyl ether	ND		50	120
tert-Butylbenzene	ND		50	120
Tetrachloroethene	ND		50	120
Tetrahydrofuran	ND		280	1200
Toluene	ND		50	120
trans-1,2-Dichloroethene	ND		50	120
trans-1,3-Dichloropropene	ND		50	120
Trichloroethene	ND		50	120
Trichlorofluoromethane	ND		50	250
Vinyl chloride	ND		50	120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	96	70 - 130
Dibromofluoromethane	97	70 - 130
Toluene-d8 (Surr)	104	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

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TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank TICs- Batch: 360-48981

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Calculations are performed before rounding to avoid round-off errors in calculated results.

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tc

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-48981

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-48981/1-A	Analysis Batch:	360-48982	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48981	Lab File ID:	V45034.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/15/2009 2335			Final Weight/Volume:	10 g
Date Prepared:	09/15/2009 1500				

LCSD Lab Sample ID:	LCSD 360-48981/2-A	Analysis Batch:	360-48982	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48981	Lab File ID:	V45035.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/16/2009 2359			Final Weight/Volume:	10 g
Date Prepared:	09/15/2009 1500				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	96	84	70 - 130	13	25		
1,1,1,2-Tetrachloroethane	109	97	70 - 130	12	25		
1,1,2,2-Tetrachloroethane	95	83	70 - 130	14	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	90	77	70 - 130	16	25		
1,1,2-Trichloroethane	102	89	70 - 130	14	25		
1,1-Dichloroethane	108	96	70 - 130	12	25		
1,1-Dichloroethene	101	86	70 - 130	16	25		
1,1-Dichloropropene	99	85	70 - 130	15	25		
1,2,3-Trichlorobenzene	112	98	70 - 130	14	25		
1,2,3-Trichloropropane	115	107	70 - 130	7	25		
1,2,4-Trichlorobenzene	110	97	70 - 130	12	25		
1,2,4-Trimethylbenzene	104	93	70 - 130	11	25		
1,2-Dibromo-3-Chloropropane	98	86	70 - 130	13	25		
Ethylene Dibromide	98	88	70 - 130	10	25		
1,2-Dichlorobenzene	104	91	70 - 130	13	25		
1,2-Dichloroethane	102	89	70 - 130	13	25		
1,2-Dichloropropane	114	101	70 - 130	12	25		
1,3,5-Trimethylbenzene	107	95	70 - 130	11	25		
1,3-Dichlorobenzene	104	94	70 - 130	10	25		
1,3-Dichloropropane	97	87	70 - 130	11	25		
1,4-Dichlorobenzene	104	91	70 - 130	13	25		
1,4-Dioxane	128	104	70 - 130	21	25		
2,2-Dichloropropane	99	87	70 - 130	14	25		
2,4,4-Trimethyl-1-pentene	102	86	70 - 130	17	25		
2,4,4-Trimethyl-2-pentene	95	81	70 - 130	15	25		
2-Chlorotoluene	103	92	70 - 130	11	25		
2-Hexanone	92	80	70 - 130	14	25		
4-Chlorotoluene	103	92	70 - 130	11	25		
Acetone	111	96	70 - 130	14	25		
Benzene	105	93	70 - 130	12	25		
Bromobenzene	99	88	70 - 130	11	25		
Chlorobromomethane	102	90	70 - 130	12	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

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TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-48981

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-48981/1-A	Analysis Batch:	360-48982	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48981	Lab File ID:	V45034.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/15/2009 2335			Final Weight/Volume:	10 g
Date Prepared:	09/15/2009 1500				

LCSD Lab Sample ID:	LCSD 360-48981/2-A	Analysis Batch:	360-48982	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48981	Lab File ID:	V45035.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/16/2009 2359			Final Weight/Volume:	10 g
Date Prepared:	09/15/2009 1500				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	100	90	70 - 130	10	25		
Bromoform	89	78	70 - 130	13	25		
Bromomethane	121	99	70 - 130	20	25		
n-Butylbenzene	105	90	70 - 130	15	25		
Carbon disulfide	94	83	70 - 130	13	25		
Carbon tetrachloride	93	85	70 - 130	9	25		
Chlorobenzene	105	94	70 - 130	11	25		
Chloroethane	93	72	70 - 130	26	25		*
Chloroform	108	93	70 - 130	14	25		
Chloromethane	104	84	70 - 130	21	25		
cis-1,2-Dichloroethene	104	92	70 - 130	12	25		
cis-1,3-Dichloropropene	96	85	70 - 130	12	25		
Cyclohexane	83	82	70 - 130	1	25		
Chlorodibromomethane	92	82	70 - 130	11	25		
Dibromomethane	102	91	70 - 130	11	25		
Dichlorodifluoromethane	58	46	70 - 130	24	25	*	*
Ethyl ether	106	94	70 - 130	12	25		
Isopropyl ether	102	90	70 - 130	12	25		
Tert-butyl ethyl ether	103	92	70 - 130	11	25		
Ethylbenzene	109	97	70 - 130	12	25		
Hexachlorobutadiene	102	89	70 - 130	13	25		
Isopropylbenzene	107	94	70 - 130	12	25		
Methyl acetate	157	155	70 - 130	1	25	*	*
2-Butanone (MEK)	104	89	70 - 130	15	25		
4-Methyl-2-pentanone (MIBK)	100	86	70 - 130	15	25		
Methyl tert-butyl ether	100	89	70 - 130	11	25		
Methylcyclohexane	87	84	70 - 130	3	25		
Methylene Chloride	112	99	70 - 130	13	25		
m-Xylene & p-Xylene	103	92	70 - 130	12	25		
Naphthalene	101	88	70 - 130	13	25		
N-Propylbenzene	103	92	70 - 130	11	25		
o-Xylene	104	93	70 - 130	12	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

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TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-48981

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-48981/1-A	Analysis Batch:	360-48982	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48981	Lab File ID:	V45034.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/15/2009 2335			Final Weight/Volume:	10 g
Date Prepared:	09/15/2009 1500				

LCSD Lab Sample ID:	LCSD 360-48981/2-A	Analysis Batch:	360-48982	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-48981	Lab File ID:	V45035.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/16/2009 2359			Final Weight/Volume:	10 g
Date Prepared:	09/15/2009 1500				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	109	97	70 - 130	12	25		
sec-Butylbenzene	105	93	70 - 130	12	25		
Styrene	103	91	70 - 130	12	25		
Tert-amyl methyl ether	106	94	70 - 130	12	25		
tert-Butylbenzene	108	95	70 - 130	14	25		
Tetrachloroethene	104	91	70 - 130	14	25		
Tetrahydrofuran	114	104	70 - 130	9	25		
Toluene	106	93	70 - 130	13	25		
trans-1,2-Dichloroethene	96	85	70 - 130	12	25		
trans-1,3-Dichloropropene	96	85	70 - 130	12	25		
Trichloroethene	108	95	70 - 130	13	25		
Trichlorofluoromethane	95	77	70 - 130	21	25		
Vinyl chloride	100	80	70 - 130	22	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	94	97	70 - 130
Dibromofluoromethane	98	98	70 - 130
Toluene-d8 (Surr)	100	101	70 - 130

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TC

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-49046

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49046/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/16/2009 1858
Date Prepared: 09/16/2009 1532

Analysis Batch: 360-49049
Prep Batch: 360-49046
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45054.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
4-Chlorotoluene	ND		1.0	2.5
Acetone	ND		18	250
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-49046

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49046/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/16/2009 1858
Date Prepared: 09/16/2009 1532

Analysis Batch: 360-49049
Prep Batch: 360-49046
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45054.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	105	70 - 130
Dibromofluoromethane	100	70 - 130
Toluene-d8 (Surr)	101	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4/8/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank TICs- Batch: 360-49046

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	10.36	1.22	T J

Calculations are performed before rounding to avoid round-off errors in calculated results.

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49046

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49046/1-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45049.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1701			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

LCSD Lab Sample ID:	LCSD 360-49046/2-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45050.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1725			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	83	97	70 - 130	15	25		
1,1,1,2-Tetrachloroethane	89	103	70 - 130	14	25		
1,1,2,2-Tetrachloroethane	82	88	70 - 130	7	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	79	89	70 - 130	12	25		
1,1,2-Trichloroethane	91	92	70 - 130	0	25		
1,1-Dichloroethane	90	102	70 - 130	13	25		
1,1-Dichloroethene	85	101	70 - 130	17	25		
1,1-Dichloropropene	88	91	70 - 130	3	25		
1,2,3-Trichlorobenzene	96	93	70 - 130	3	25		
1,2,3-Trichloropropane	93	107	70 - 130	13	25		
1,2,4-Trichlorobenzene	97	96	70 - 130	2	25		
1,2,4-Trimethylbenzene	84	97	70 - 130	14	25		
1,2-Dibromo-3-Chloropropane	82	88	70 - 130	7	25		
Ethylene Dibromide	92	91	70 - 130	1	25		
1,2-Dichlorobenzene	92	93	70 - 130	2	25		
1,2-Dichloroethane	89	92	70 - 130	4	25		
1,2-Dichloropropane	102	106	70 - 130	4	25		
1,3,5-Trimethylbenzene	88	100	70 - 130	12	25		
1,3-Dichlorobenzene	83	96	70 - 130	14	25		
1,3-Dichloropropane	92	89	70 - 130	4	25		
1,4-Dichlorobenzene	93	93	70 - 130	1	25		
1,4-Dioxane	102	119	70 - 130	16	25		
2,2-Dichloropropane	93	128	70 - 130	31	25		
2,4,4-Trimethyl-1-pentene	87	100	70 - 130	14	25		
2,4,4-Trimethyl-2-pentene	85	91	70 - 130	7	25		
2-Chlorotoluene	85	96	70 - 130	12	25		
2-Hexanone	82	83	70 - 130	1	25		
4-Chlorotoluene	86	95	70 - 130	10	25		
Acetone	83	106	70 - 130	24	25		
Benzene	92	96	70 - 130	4	25		
Bromobenzene	82	92	70 - 130	11	25		
Chlorobromomethane	84	94	70 - 130	11	25		

4/8/10 TC

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49046

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49046/1-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45049.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1701			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

LCSD Lab Sample ID:	LCSD 360-49046/2-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45050.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1725			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	92	90	70 - 130	3	25		
Bromoform	86	82	70 - 130	5	25		
Bromomethane	93	115	70 - 130	21	25		
n-Butylbenzene	98	98	70 - 130	1	25		
Carbon disulfide	83	99	70 - 130	17	25		
Carbon tetrachloride	83	94	70 - 130	12	25		
Chlorobenzene	95	96	70 - 130	0	25		
Chloroethane	84	104	70 - 130	21	25		
Chloroform	88	99	70 - 130	12	25		
Chloromethane	81	98	70 - 130	19	25		
cis-1,2-Dichloroethene	86	97	70 - 130	12	25		
cis-1,3-Dichloropropene	95	87	70 - 130	8	25		
Cyclohexane	79	92	70 - 130	15	25		
Chlorodibromomethane	88	86	70 - 130	2	25		
Dibromomethane	90	92	70 - 130	3	25		
Dichlorodifluoromethane	46	56	70 - 130	20	25	*	*
Ethyl ether	86	100	70 - 130	15	25		
Isopropyl ether	80	96	70 - 130	18	25		
Tert-butyl ethyl ether	79	99	70 - 130	23	25		
Ethylbenzene	99	102	70 - 130	4	25		
Hexachlorobutadiene	99	92	70 - 130	7	25		
Isopropylbenzene	91	100	70 - 130	9	25		
Methyl acetate	97	119	70 - 130	20	25		
2-Butanone (MEK)	83	89	70 - 130	7	25		
4-Methyl-2-pentanone (MIBK)	80	93	70 - 130	15	25		
Methyl tert-butyl ether	76	96	70 - 130	24	25		
Methylcyclohexane	81	93	70 - 130	13	25		
Methylene Chloride	90	109	70 - 130	18	25		
m-Xylene & p-Xylene	92	95	70 - 130	4	25		
Naphthalene	84	84	70 - 130	0	25		
N-Propylbenzene	89	98	70 - 130	9	25		
o-Xylene	88	97	70 - 130	10	25		

4/8/10 TC

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49046

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49046/1-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45049.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1701			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

LCSD Lab Sample ID:	LCSD 360-49046/2-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45050.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1725			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	91	103	70 - 130	12	25		
sec-Butylbenzene	88	99	70 - 130	11	25		
Styrene	91	94	70 - 130	4	25		
Tert-amyl methyl ether	79	99	70 - 130	22	25		
tert-Butylbenzene	90	100	70 - 130	11	25		
Tetrachloroethene	104	94	70 - 130	10	25		
Tetrahydrofuran	94	107	70 - 130	13	25		
Toluene	101	98	70 - 130	3	25		
trans-1,2-Dichloroethene	81	95	70 - 130	16	25		
trans-1,3-Dichloropropene	95	89	70 - 130	6	25		
Trichloroethene	98	97	70 - 130	1	25		
Trichlorofluoromethane	76	86	70 - 130	13	25		
Vinyl chloride	78	92	70 - 130	16	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	90	96	70 - 130
Dibromofluoromethane	93	102	70 - 130
Toluene-d8 (Surr)	106	102	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4/8/10 TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-49046

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	360-24563-14	Analysis Batch: 360-49049	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49046	Lab File ID: V45051.D
Dilution:	1.0		Initial Weight/Volume: 6.17 g
Date Analyzed:	09/16/2009 1748		Final Weight/Volume: 5 g
Date Prepared:	09/16/2009 1532		

MSD Lab Sample ID:	360-24563-14	Analysis Batch: 360-49049	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49046	Lab File ID: V45052.D
Dilution:	1.0		Initial Weight/Volume: 5.27 g
Date Analyzed:	09/16/2009 1812		Final Weight/Volume: 5 g
Date Prepared:	09/16/2009 1532		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	103	104	70 - 130	17	30		
1,1,1-Trichloroethane	96	97	70 - 130	17	30		
1,1,2,2-Tetrachloroethane	95	92	70 - 130	13	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	95	94	70 - 130	15	30		
1,1,2-Trichloroethane	93	93	70 - 130	16	30		
1,1-Dichloroethane	102	104	70 - 130	18	30		
1,1-Dichloroethene	100	101	70 - 130	17	30		
1,1-Dichloropropene	92	95	70 - 130	19	30		
1,2,3-Trichlorobenzene	95	94	70 - 130	14	30		
1,2,3-Trichloropropane	113	113	70 - 130	15	30		
1,2,4-Trichlorobenzene	95	93	70 - 130	13	30		
1,2,4-Trimethylbenzene	95	99	70 - 130	19	30		
1,2-Dibromo-3-Chloropropane	92	86	70 - 130	9	30		
Ethylene Dibromide	92	92	70 - 130	16	30		
1,2-Dichlorobenzene	97	95	70 - 130	14	30		
1,2-Dichloroethane	96	95	70 - 130	15	30		
Acetone	105	101	70 - 130	12	30		
1,2-Dichloropropane	108	110	70 - 130	18	30		
1,3,5-Trimethylbenzene	99	103	70 - 130	19	30		
1,3-Dichlorobenzene	94	96	70 - 130	18	30		
1,3-Dichloropropane	91	92	70 - 130	17	30		
1,4-Dichlorobenzene	96	94	70 - 130	14	30		
1,4-Dioxane	104	124	70 - 130	33	30		F
2,2-Dichloropropane	117	120	70 - 130	18	30		
2,4,4-Trimethyl-1-pentene	108	109	70 - 130	17	30		
2,4,4-Trimethyl-2-pentene	98	99	70 - 130	17	30		
2-Chlorotoluene	94	98	70 - 130	20	30		
2-Hexanone	86	86	70 - 130	16	30		
4-Chlorotoluene	94	98	70 - 130	20	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-49046

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	360-24563-14	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45051.D
Dilution:	1.0			Initial Weight/Volume:	6.17 g
Date Analyzed:	09/16/2009 1748			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

MSD Lab Sample ID:	360-24563-14	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45052.D
Dilution:	1.0			Initial Weight/Volume:	5.27 g
Date Analyzed:	09/16/2009 1812			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	96	98	70 - 130	18	30		
Bromobenzene	92	96	70 - 130	19	30		
Chlorobromomethane	96	93	70 - 130	13	30		
Dichlorobromomethane	95	94	70 - 130	15	30		
Bromoform	88	85	70 - 130	13	30		
Bromomethane	113	117	70 - 130	20	30		
n-Butylbenzene	97	99	70 - 130	18	30		
Carbon disulfide	92	93	70 - 130	17	30		
Carbon tetrachloride	97	98	70 - 130	17	30		
Chlorobenzene	97	100	70 - 130	19	30		
Chloroethane	103	107	70 - 130	20	30		
Chloroform	98	101	70 - 130	18	30		
Chloromethane	99	103	70 - 130	20	30		
cis-1,2-Dichloroethene	96	97	70 - 130	17	30		
cis-1,3-Dichloropropene	89	90	70 - 130	17	30		
Cyclohexane	97	100	70 - 130	19	30		
Chlorodibromomethane	88	88	70 - 130	15	30		
Dibromomethane	93	92	70 - 130	15	30		
Dichlorodifluoromethane	65	68	70 - 130	20	30	F	F
Ethyl ether	103	100	70 - 130	13	30		
Isopropyl ether	99	99	70 - 130	16	30		
Tert-butyl ethyl ether	100	98	70 - 130	14	30		
Ethylbenzene	101	105	70 - 130	20	30		
Hexachlorobutadiene	85	83	70 - 130	13	30		
Isopropylbenzene	101	105	70 - 130	20	30		
Methyl acetate	115	121	70 - 130	20	30		
2-Butanone (MEK)	94	92	70 - 130	14	30		
4-Methyl-2-pentanone (MIBK)	94	92	70 - 130	13	30		
Methyl tert-butyl ether	98	95	70 - 130	12	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-49046

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	360-24563-14	Analysis Batch: 360-49049	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49046	Lab File ID: V45051.D
Dilution:	1.0		Initial Weight/Volume: 6.17 g
Date Analyzed:	09/16/2009 1748		Final Weight/Volume: 5 g
Date Prepared:	09/16/2009 1532		

MSD Lab Sample ID:	360-24563-14	Analysis Batch: 360-49049	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49046	Lab File ID: V45052.D
Dilution:	1.0		Initial Weight/Volume: 5.27 g
Date Analyzed:	09/16/2009 1812		Final Weight/Volume: 5 g
Date Prepared:	09/16/2009 1532		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Methylcyclohexane	100	100	70 - 130	16	30		
Methylene Chloride	103	103	70 - 130	16	30		
m-Xylene & p-Xylene	95	100	70 - 130	21	30		
Naphthalene	89	87	70 - 130	13	30		
N-Propylbenzene	97	101	70 - 130	20	30		
o-Xylene	97	101	70 - 130	20	30		
4-Isopropyltoluene	101	105	70 - 130	19	30		
sec-Butylbenzene	99	102	70 - 130	19	30		
Styrene	94	98	70 - 130	20	30		
Tert-amyl methyl ether	103	99	70 - 130	13	30		
tert-Butylbenzene	101	105	70 - 130	19	30		
Tetrachloroethene	96	98	70 - 130	18	30		
Tetrahydrofuran	111	109	70 - 130	14	30		
Toluene	97	101	70 - 130	19	30		
trans-1,2-Dichloroethene	91	93	70 - 130	18	30		
trans-1,3-Dichloropropene	90	91	70 - 130	17	30		
Trichloroethene	98	100	70 - 130	18	30		
Trichlorofluoromethane	99	101	70 - 130	17	30		
Vinyl chloride	96	100	70 - 130	20	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	96	98	70 - 130
Dibromofluoromethane	99	98	70 - 130
Toluene-d8 (Surr)	100	102	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4/8/10 tc

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-49119

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 360-49119/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/17/2009 1749
Date Prepared: 09/17/2009 1749

Analysis Batch: 360-49119
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 7890/5975 GC/MS
Lab File ID: V06975.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND		0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND		0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	ND		0.66	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

4/8/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-49119

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 360-49119/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/17/2009 1749
Date Prepared: 09/17/2009 1749

Analysis Batch: 360-49119
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 7890/5975 GC/MS
Lab File ID: V06975.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND		0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	85	70 - 130
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	96	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4/8/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank TICs- Batch: 360-49119

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4/8/10
TC

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-49322

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49322/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/22/2009 1820
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45238.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
4-Chlorotoluene	ND		1.0	2.5
Acetone	ND		18	250
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4/8/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank - Batch: 360-49322

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49322/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/22/2009 1820
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45238.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	70 - 130
Dibromofluoromethane	102	70 - 130
Toluene-d8 (Surr)	100	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4/8/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Method Blank TICs- Batch: 360-49322

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4/8/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49322

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49322/1-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45235.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1710			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49322/2-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45236.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1733			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	92	100	70 - 130	8	25		
1,1,1,2-Tetrachloroethane	102	107	70 - 130	5	25		
1,1,2,2-Tetrachloroethane	95	95	70 - 130	1	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	89	90	70 - 130	1	25		
1,1,2-Trichloroethane	96	94	70 - 130	2	25		
1,1-Dichloroethane	102	107	70 - 130	5	25		
1,1-Dichloroethene	100	104	70 - 130	4	25		
1,1-Dichloropropene	95	99	70 - 130	4	25		
1,2,3-Trichlorobenzene	105	104	70 - 130	1	25		
1,2,3-Trichloropropane	113	112	70 - 130	1	25		
1,2,4-Trichlorobenzene	104	105	70 - 130	0	25		
1,2,4-Trimethylbenzene	97	105	70 - 130	8	25		
1,2-Dibromo-3-Chloropropane	93	88	70 - 130	5	25		
Ethylene Dibromide	96	93	70 - 130	3	25		
1,2-Dichlorobenzene	98	102	70 - 130	3	25		
1,2-Dichloroethane	98	97	70 - 130	1	25		
1,2-Dichloropropane	107	110	70 - 130	3	25		
1,3,5-Trimethylbenzene	100	109	70 - 130	9	25		
1,3-Dichlorobenzene	96	100	70 - 130	4	25		
1,3-Dichloropropane	93	90	70 - 130	3	25		
1,4-Dichlorobenzene	97	101	70 - 130	4	25		
1,4-Dioxane	109	100	70 - 130	9	25		
2,2-Dichloropropane	109	122	70 - 130	11	25		
2,4,4-Trimethyl-1-pentene	101	105	70 - 130	3	25		
2,4,4-Trimethyl-2-pentene	97	97	70 - 130	0	25		
2-Chlorotoluene	96	103	70 - 130	8	25		
2-Hexanone	89	82	70 - 130	7	25		
4-Chlorotoluene	96	102	70 - 130	6	25		
Acetone	108	88	70 - 130	21	25		
Benzene	98	103	70 - 130	4	25		
Bromobenzene	92	96	70 - 130	5	25		
Chlorobromomethane	97	98	70 - 130	1	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4/8/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49322

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49322/1-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45235.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1710			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49322/2-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45236.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1733			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	95	95	70 - 130	0	25		
Bromoform	88	86	70 - 130	3	25		
Bromomethane	100	114	70 - 130	13	25		
n-Butylbenzene	102	110	70 - 130	7	25		
Carbon disulfide	94	100	70 - 130	7	25		
Carbon tetrachloride	92	97	70 - 130	6	25		
Chlorobenzene	100	105	70 - 130	5	25		
Chloroethane	91	102	70 - 130	12	25		
Chloroform	102	105	70 - 130	4	25		
Chloromethane	90	101	70 - 130	11	25		
cis-1,2-Dichloroethene	96	102	70 - 130	6	25		
cis-1,3-Dichloropropene	93	92	70 - 130	1	25		
Cyclohexane	90	93	70 - 130	3	25		
Chlorodibromomethane	90	89	70 - 130	1	25		
Dibromomethane	97	97	70 - 130	0	25		
Dichlorodifluoromethane	58	60	70 - 130	4	25	*	*
Ethyl ether	104	102	70 - 130	2	25		
Isopropyl ether	98	100	70 - 130	2	25		
Tert-butyl ethyl ether	100	100	70 - 130	0	25		
Ethylbenzene	104	111	70 - 130	7	25		
Hexachlorobutadiene	95	97	70 - 130	3	25		
Isopropylbenzene	102	110	70 - 130	8	25		
Methyl acetate	135	134	70 - 130	1	25	*	*
2-Butanone (MEK)	100	90	70 - 130	10	25		
4-Methyl-2-pentanone (MIBK)	96	91	70 - 130	5	25		
Methyl tert-butyl ether	96	95	70 - 130	1	25		
Methylcyclohexane	94	95	70 - 130	1	25		
Methylene Chloride	106	110	70 - 130	4	25		
m-Xylene & p-Xylene	97	103	70 - 130	6	25		
Naphthalene	95	93	70 - 130	3	25		
N-Propylbenzene	98	106	70 - 130	8	25		
o-Xylene	99	105	70 - 130	7	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4/8/10

Client: Olin Corporation

Job Number: 360-24563-1
Sdg Number: OCRI-14

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49322

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49322/1-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45235.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1710			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49322/2-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45236.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1733			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	102	111	70 - 130	9	25		
sec-Butylbenzene	100	109	70 - 130	8	25		
Styrene	97	103	70 - 130	6	25		
Tert-amyl methyl ether	103	101	70 - 130	2	25		
tert-Butylbenzene	101	110	70 - 130	8	25		
Tetrachloroethene	99	101	70 - 130	3	25		
Tetrahydrofuran	113	107	70 - 130	6	25		
Toluene	101	105	70 - 130	4	25		
trans-1,2-Dichloroethene	92	98	70 - 130	6	25		
trans-1,3-Dichloropropene	92	89	70 - 130	3	25		
Trichloroethene	104	107	70 - 130	3	25		
Trichlorofluoromethane	84	89	70 - 130	5	25		
Vinyl chloride	88	97	70 - 130	9	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	97	70 - 130
Dibromofluoromethane	100	97	70 - 130
Toluene-d8 (Surr)	101	101	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4/8/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-49119/2 Date Analyzed: 09/17/2009 16:26

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06971.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		21779	6.15	424773	6.46	229993	9.52
UPPER LIMIT		43558	6.65	849546	6.96	459986	10.02
LOWER LIMIT		10890	5.65	212387	5.96	114997	9.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49119/3		22143	6.15	444926	6.47	236061	9.52
LCSD 360-49119/4		21710	6.15	435809	6.46	233792	9.52
MB 360-49119/6		19305	6.15	349733	6.46	180580	9.52
360-24563-23	OC-EBK-009	17543	6.15	307778	6.47	158889	9.52

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-49119/2 Date Analyzed: 09/17/2009 16:26

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V06971.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		109558	11.49				
UPPER LIMIT		219116	11.99				
LOWER LIMIT		54779	10.99				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49119/3		110626	11.49				
LCSD 360-49119/4		109508	11.49				
MB 360-49119/6		67790	11.49				
360-24563-23	OC-EBK-009	64367	11.49				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-48939/2 Date Analyzed: 09/15/2009 00:32

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44991.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		19517	5.67	454314	5.89	268907	8.33
UPPER LIMIT		39034	6.17	908628	6.39	537814	8.83
LOWER LIMIT		9759	5.17	227157	5.39	134454	7.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48935/1-A		22500	5.67	544482	5.90	330703	8.34
LCSD 360-48935/2-A		18747	5.67	456208	5.89	266342	8.33
MB 360-48935/3-A		21651	5.67	500904	5.90	297662	8.34
360-24563-2	OC-SB-427-12/14-XXX	18867	5.67	453507	5.90	268583	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-48939/2 Date Analyzed: 09/15/2009 00:32

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V44991.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		127636	10.14				
UPPER LIMIT		255272	10.64				
LOWER LIMIT		63818	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48935/1-A		135616	10.14				
LCSD 360-48935/2-A		123734	10.14				
MB 360-48935/3-A		129296	10.14				
360-24563-2	OC-SB-427-12/14-XXX	122048	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-48976/2 Date Analyzed: 09/15/2009 15:08

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45013.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		23244	5.67	539901	5.90	340363	8.34
UPPER LIMIT		46488	6.17	1079802	6.40	680726	8.84
LOWER LIMIT		11622	5.17	269951	5.40	170182	7.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48975/1-A		20697	5.68	478824	5.90	285907	8.34
LCSD 360-48975/2-A		20920	5.67	479697	5.90	293962	8.34
360-24563-5 MS	OC-SB-427-8.0/10-XXX MS	21843	5.67	491547	5.90	299517	8.33
360-24563-5 MSD	OC-SB-427-8.0/10-XXX MSD	22140	5.67	503279	5.90	303248	8.33
MB 360-48975/3-A		19147	5.67	432696	5.89	263169	8.33
360-24563-4	OC-SB-427-8.0/10-DUP	18215	5.66	410126	5.89	247939	8.33
360-24563-5	OC-SB-427-8.0/10-XXX	18845	5.66	427147	5.89	255403	8.33
360-24563-9	OC-SB-428-8.0/10-XXX	19186	5.66	411548	5.89	246991	8.33
360-24563-1	OC-SB-427-0.0/1.0-XXX	24417	5.66	572456	5.89	338244	8.33
360-24563-6	OC-SB-428-0.0/1.0-XXX	11520*	5.66	441665	5.89	264310	8.33
360-24563-10	OC-TBK-017	18863	5.66	430586	5.89	252023	8.33
360-24563-11	OC-SB-456-0.0/1.0-XXX	20057	5.66	449277	5.88	272921	8.32
360-24563-12	OC-SB-456-16/18-XXX	19286	5.66	455165	5.89	268740	8.33
360-24563-13	OC-SB-456-7.0/9.0-DUP	19056	5.65	414683	5.89	243600	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-48976/2 Date Analyzed: 09/15/2009 15:08

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45013.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		140492	10.14				
UPPER LIMIT		280984	10.64				
LOWER LIMIT		70246	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48975/1-A		134520	10.14				
LCSD 360-48975/2-A		138104	10.14				
360-24563-5 MS	OC-SB-427-8.0/10-XXX MS	138305	10.14				
360-24563-5 MSD	OC-SB-427-8.0/10-XXX MSD	136456	10.14				
MB 360-48975/3-A		131708	10.14				
360-24563-4	OC-SB-427-8.0/10-DUP	116197	10.14				
360-24563-5	OC-SB-427-8.0/10-XXX	114036	10.14				
360-24563-9	OC-SB-428-8.0/10-XXX	123035	10.14				
360-24563-1	OC-SB-427-0.0/1.0-XXX	135413	10.14				
360-24563-6	OC-SB-428-0.0/1.0-XXX	126156	10.14				
360-24563-10	OC-TBK-017	121833	10.14				
360-24563-11	OC-SB-456-0.0/1.0-XXX	129427	10.13				
360-24563-12	OC-SB-456-16/18-XXX	128339	10.13				
360-24563-13	OC-SB-456-7.0/9.0-DUP	121907	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-48982/2 Date Analyzed: 09/15/2009 23:11

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45033.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		19791	5.66	455637	5.88	272827	8.32
UPPER LIMIT		39582	6.16	911274	6.38	545654	8.82
LOWER LIMIT		9896	5.16	227819	5.38	136414	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48981/1-A		20504	5.66	472105	5.88	282864	8.32
MB 360-48981/3-A		21667	5.66	496307	5.88	304075	8.32
360-24563-2	OC-SB-427-12/14-XXX	18628	5.65	421261	5.88	254691	8.32
LCSD 360-48981/2-A		21788	5.66	481648	5.88	289095	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-48982/2 Date Analyzed: 09/15/2009 23:11

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45033.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		128995	10.13				
UPPER LIMIT		257990	10.63				
LOWER LIMIT		64498	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-48981/1-A		129951	10.13				
MB 360-48981/3-A		138615	10.13				
360-24563-2	OC-SB-427-12/14-XXX	122008	10.13				
LCSD 360-48981/2-A		138866	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10 TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-49049/2 Date Analyzed: 09/16/2009 16:37

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45048.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		21988	5.64	503882	5.88	313449	8.32
UPPER LIMIT		43976	6.14	1007764	6.38	626898	8.82
LOWER LIMIT		10994	5.14	251941	5.38	156725	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49046/1-A		22712	5.65	539079	5.88	336019	8.32
LCSD 360-49046/2-A		13454	5.65	290021	5.87	175653	8.32
360-24563-14 MS	OC-SB-456-7.0/9.0-XXX MS	22325	5.64	472919	5.87	287278	8.31
360-24563-14 MSD	OC-SB-456-7.0/9.0-XXX MSD	19091	5.64	445719	5.87	266898	8.31
MB 360-49046/3-A		16345	5.64	393077	5.87	236974	8.31
360-24563-14	OC-SB-456-7.0/9.0-XXX	21654	5.65	520621	5.87	308764	8.31
360-24563-15	OC-SB-457-0.0/1.0-XXX	20102	5.64	466956	5.87	280598	8.31
360-24563-16	OC-SB-457-8.0/10-XXX	19579	5.64	430920	5.87	258314	8.31

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-49049/2 Date Analyzed: 09/16/2009 16:37

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45048.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		141734	10.13				
UPPER LIMIT		283468	10.63				
LOWER LIMIT		70867	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49046/1-A		138167	10.13				
LCSD 360-49046/2-A		84484	10.12				
360-24563-14 MS	OC-SB-456-7.0/9.0-XXX MS	130849	10.12				
360-24563-14 MSD	OC-SB-456-7.0/9.0-XXX MSD	123614	10.12				
MB 360-49046/3-A		117976	10.12				
360-24563-14	OC-SB-456-7.0/9.0-XXX	127084	10.12				
360-24563-15	OC-SB-457-0.0/1.0-XXX	124058	10.12				
360-24563-16	OC-SB-457-8.0/10-XXX	126684	10.12				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-49326/3 Date Analyzed: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45234.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20654	5.65	525989	5.88	323542	8.32
UPPER LIMIT		41308	6.15	1051978	6.38	647084	8.82
LOWER LIMIT		10327	5.15	262995	5.38	161771	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49322/1-A		22932	5.66	509023	5.88	303650	8.32
LCSD 360-49322/2-A		21089	5.65	498711	5.88	292785	8.32
MB 360-49322/3-A		18137	5.65	423384	5.88	250329	8.31
360-24563-3	OC-SB-427-17/19-XXX	23356	5.65	558290	5.88	337220	8.32
360-24563-7	OC-SB-428-23/25-XXX	21670	5.66	498649	5.88	312982	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Sample No.: CCVIS 360-49326/3 Date Analyzed: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45234.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		130876	10.13				
UPPER LIMIT		261752	10.63				
LOWER LIMIT		65438	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49322/1-A		137113	10.13				
LCSD 360-49322/2-A		133281	10.13				
MB 360-49322/3-A		119009	10.12				
360-24563-3	OC-SB-427-17/19-XXX	135936	10.13				
360-24563-7	OC-SB-428-23/25-XXX	139347	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/8/10
TC

FORM VIII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-48939/2 Calibration Date: 09/15/2009 00:32

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44991.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3772		15.6	20.0	-21.8	30.0
Chloromethane	Ave	0.9034	0.9371	0.1000	22.4	20.0	3.7	30.0
Vinyl chloride	Ave	0.6300	0.5972		20.3	20.0	-5.2	20.0
Bromomethane	Ave	0.3127	0.3321		22.3	20.0	6.2	30.0
Chloroethane	Lin2		0.3527		21.9	20.0	9.7	30.0
Trichlorofluoromethane	Ave	0.5183	0.4241		16.4	20.0	-18.2	30.0
Ethyl ether	Ave	0.2603	0.2498		20.5	20.0	-4.0	30.0
1,1-Dichloroethene	Ave	0.3201	0.2948		19.2	20.0	-7.9	20.0
Carbon disulfide	Ave	1.395	1.332		19.1	20.0	-4.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1391		15.0	20.0	-25.1*	30.0
Acrolein	Ave	0.7836	0.7764		991	1000	-0.9	30.0
Methylene Chloride	Lin1		0.3934		22.7	20.0	13.3	30.0
Acetone	Lin2		0.0579		222	200	10.8	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6967		19.8	20.0	-1.3	30.0
Methyl acetate	Lin1		0.2123		292	200	45.9*	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6859		19.6	20.0	-1.9	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3416		178	200	-10.9	30.0
Isopropyl ether	Ave	1.997	2.072		20.8	20.0	3.7	30.0
1,1-Dichloroethane	Ave	0.7919	0.7992	0.1000	21.5	20.0	0.9	30.0
Acrylonitrile	Lin1		0.0699		21.6	20.0	7.9	30.0
Tert-butyl ethyl ether	Ave	1.194	1.237		20.7	20.0	3.6	30.0
Vinyl acetate	Ave	0.5745	0.3578		125	200	-37.7*	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.6283		20.4	20.0	2.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.4806		20.6	20.0	-10.5	30.0
Cyclohexane	Ave	0.8898	0.7136		16.1	20.0	-19.8	30.0
Chlorobromomethane	Ave	0.1386	0.1357		19.6	20.0	-2.1	30.0
Chloroform	Ave	0.6243	0.6171		21.1	20.0	-1.2	20.0
Carbon tetrachloride	Ave	0.3645	0.3335		18.2	20.0	-8.5	30.0
Tetrahydrofuran	Ave	0.0762	0.0745		213	200	-2.2	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4918		18.8	20.0	-4.9	30.0
2-Butanone (MEK)	Ave	0.0960	0.0901		199	200	-6.1	30.0
1,1-Dichloropropene	Ave	0.4990	0.4660		18.7	20.0	-6.6	30.0
Benzene	Ave	1.352	1.396		20.7	20.0	3.3	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7922		20.8	20.0	3.9	30.0
1,2-Dichloroethane	Ave	0.3253	0.3187		19.6	20.0	-2.0	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.2912		16.8	20.0	-23.5	30.0
Methylcyclohexane	Ave	0.6300	0.4998		15.9	20.0	-20.7	30.0
Trichloroethene	Ave	0.3155	0.3094		20.4	20.0	-1.9	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1448		15.5	20.0	-22.6	30.0
Dibromomethane	Ave	0.1188	0.1171		19.6	20.0	-1.4	30.0

4-9-10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-48939/2 Calibration Date: 09/15/2009 00:32

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44991.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3254		23.2	20.0	2.3	20.0
Dichlorobromomethane	Ave	0.3427	0.3422		19.8	20.0	-0.2	30.0
Methyl methacrylate	Ave	0.0864	0.0812		18.4	20.0	-6.0	30.0
1,4-Dioxane	Qua		0.0212		197	200	-1.6	30.0
2-Chloroethyl vinyl ether	Lin		0.0632		329	200	64.7*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3819		19.2	20.0	-3.9	30.0
Toluene	Ave	0.7062	0.7152		20.8	20.0	1.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.2107		206	200	2.8	30.0
Tetrachloroethene	Ave	0.1859	0.1816		19.5	20.0	-2.3	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2645		18.2	20.0	-9.2	30.0
1,1,2-Trichloroethane	Lin1		0.1215		19.4	20.0	-2.8	30.0
Chlorodibromomethane	Ave	0.1504	0.1407		18.7	20.0	-6.5	30.0
1,3-Dichloropropane	Ave	0.2828	0.2705		19.1	20.0	-4.4	30.0
Ethylene Dibromide	Ave	0.1260	0.1209		19.2	20.0	-4.0	30.0
2-Hexanone	Ave	0.1294	0.1202		189	200	-7.1	30.0
Chlorobenzene	Ave	1.096	1.138	0.3000	20.9	20.0	3.8	30.0
Ethylbenzene	Ave	2.279	2.371		22.3	20.0	4.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3620		21.9	20.0	4.2	30.0
m-Xylene & p-Xylene	Ave	1.752	1.827		41.7	40.0	4.3	30.0
o-Xylene	Ave	1.903	2.013		21.2	20.0	5.8	30.0
Styrene	Ave	1.294	1.355		21.0	20.0	4.7	30.0
Bromoform	Ave	0.3131	0.2858	0.1000	17.3	20.0	-8.7	20.0
Isopropylbenzene	Ave	2.255	2.405		21.4	20.0	6.6	30.0
Bromobenzene	Ave	1.024	1.025		20.1	20.0	0.1	30.0
N-Propylbenzene	Ave	2.901	3.013		20.8	20.0	3.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6624	0.3000	19.2	20.0	-3.3	30.0
2-Chlorotoluene	Ave	1.927	2.017		21.0	20.0	4.6	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.987		21.5	20.0	7.3	30.0
1,2,3-Trichloropropane	Lin2		0.0674		21.7	20.0	8.5	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1033		19.4	20.0	-2.9	30.0
4-Chlorotoluene	Ave	1.683	1.749		20.7	20.0	3.9	30.0
tert-Butylbenzene	Ave	1.471	1.592		21.6	20.0	8.2	30.0
1,2,4-Trimethylbenzene	Ave	1.874	2.001		21.3	20.0	6.8	30.0
sec-Butylbenzene	Ave	2.518	2.635		20.9	20.0	4.7	30.0
4-Isopropyltoluene	Ave	1.894	2.003		21.1	20.0	5.7	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.8784		20.9	20.0	4.4	30.0
1,4-Dichlorobenzene	Ave	1.788	1.792		20.1	20.0	0.2	30.0
n-Butylbenzene	Ave	4.614	4.603		20.0	20.0	-0.2	30.0
1,2-Dichlorobenzene	Ave	1.492	1.516		20.3	20.0	1.6	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0711		18.5	20.0	-7.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.4994		19.3	20.0	-3.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-48939/2 Calibration Date: 09/15/2009 00:32

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V44991.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9782		20.1	20.0	0.3	30.0
Naphthalene	Ave	1.288	1.229		19.1	20.0	-4.6	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7321		20.3	20.0	1.5	30.0
Dibromofluoromethane	Ave	0.2328	0.2258		19.4	20.0	-3.0	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8935		20.1	20.0	0.6	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5622		19.6	20.0	-1.9	30.0

4-9-10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-48976/2 Calibration Date: 09/15/2009 15:08

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45013.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.5023		20.8	20.0	4.1	30.0
Chloromethane	Ave	0.9034	0.8329	0.1000	19.8	20.0	-7.8	30.0
Vinyl chloride	Ave	0.6300	0.6026		20.5	20.0	-4.4	20.0
Bromomethane	Ave	0.3127	0.3014		20.2	20.0	-3.6	30.0
Chloroethane	Lin2		0.3235		20.0	20.0	0.0	30.0
Trichlorofluoromethane	Ave	0.5183	0.5266		20.3	20.0	1.6	30.0
Ethyl ether	Ave	0.2603	0.2376		19.5	20.0	-8.7	30.0
1,1-Dichloroethene	Ave	0.3201	0.3067		20.0	20.0	-4.2	20.0
Carbon disulfide	Ave	1.395	1.261		18.1	20.0	-9.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1768		19.0	20.0	-4.9	30.0
Acrolein	Ave	0.7836	0.8010		1020	1000	2.2	30.0
Methylene Chloride	Lin1		0.3428		19.6	20.0	-2.0	30.0
Acetone	Lin2		0.0569		218	200	9.0	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6310		17.9	20.0	-10.6	30.0
Methyl acetate	Lin1		0.1377		189	200	-5.4	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6075		17.4	20.0	-13.1	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3262		170	200	-14.9	30.0
Isopropyl ether	Ave	1.997	1.788		18.0	20.0	-10.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7117	0.1000	19.2	20.0	-10.1	30.0
Acrylonitrile	Lin1		0.0629		19.3	20.0	-3.3	30.0
Tert-butyl ethyl ether	Ave	1.194	1.061		17.8	20.0	-11.1	30.0
Vinyl acetate	Ave	0.5745	0.5937		207	200	3.4	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5700		18.5	20.0	-7.3	30.0
2,2-Dichloropropane	Ave	0.5371	0.4630		19.7	20.0	-13.8	30.0
Cyclohexane	Ave	0.8898	0.7690		17.4	20.0	-13.6	30.0
Chlorobromomethane	Ave	0.1386	0.1293		18.7	20.0	-6.7	30.0
Chloroform	Ave	0.6243	0.5516		18.9	20.0	-11.6	20.0
Carbon tetrachloride	Ave	0.3645	0.3595		19.7	20.0	-1.4	30.0
Tetrahydrofuran	Ave	0.0762	0.0722		207	200	-5.2	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4726		18.1	20.0	-8.6	30.0
2-Butanone (MEK)	Ave	0.0960	0.1040		230	200	8.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4925		19.7	20.0	-1.3	30.0
Benzene	Ave	1.352	1.353		20.0	20.0	0.1	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7063		18.5	20.0	-7.3	30.0
1,2-Dichloroethane	Ave	0.3253	0.3139		19.3	20.0	-3.5	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3479		20.4	20.0	-8.6	30.0
Methylcyclohexane	Ave	0.6300	0.5711		18.2	20.0	-9.4	30.0
Trichloroethene	Ave	0.3155	0.3209		21.2	20.0	1.7	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1829		19.5	20.0	-2.3	30.0
Dibromomethane	Ave	0.1188	0.1202		20.1	20.0	1.2	30.0

4/9/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-48976/2 Calibration Date: 09/15/2009 15:08

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45013.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3137		22.3	20.0	-1.4	20.0
Dichlorobromomethane	Ave	0.3427	0.3475		20.1	20.0	1.4	30.0
Methyl methacrylate	Ave	0.0864	0.0939		21.3	20.0	8.7	30.0
1,4-Dioxane	Qua		0.0226		211	200	5.3	30.0
2-Chloroethyl vinyl ether	Lin		0.0862		443	200	122.0*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.4246		21.4	20.0	6.8	30.0
Toluene	Ave	0.7062	0.7447		21.7	20.0	5.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.2217		217	200	8.2	30.0
Tetrachloroethene	Ave	0.1859	0.2126		22.8	20.0	14.4	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.3105		21.4	20.0	6.6	30.0
1,1,2-Trichloroethane	Lin1		0.1301		20.8	20.0	4.0	30.0
Chlorodibromomethane	Ave	0.1504	0.1539		20.5	20.0	2.3	30.0
1,3-Dichloropropane	Ave	0.2828	0.2967		21.0	20.0	4.9	30.0
Ethylene Dibromide	Ave	0.1260	0.1326		21.0	20.0	5.3	30.0
2-Hexanone	Ave	0.1294	0.1446		227	200	11.7	30.0
Chlorobenzene	Ave	1.096	1.101	0.3000	20.2	20.0	0.5	30.0
Ethylbenzene	Ave	2.279	2.211		20.8	20.0	-3.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3229		19.5	20.0	-7.1	30.0
m-Xylene & p-Xylene	Ave	1.752	1.708		39.0	40.0	-2.5	30.0
o-Xylene	Ave	1.903	1.768		18.6	20.0	-7.1	30.0
Styrene	Ave	1.294	1.240		19.2	20.0	-4.2	30.0
Bromoform	Ave	0.3131	0.3220	0.1000	19.4	20.0	2.8	20.0
Isopropylbenzene	Ave	2.255	2.162		19.2	20.0	-4.1	30.0
Bromobenzene	Ave	1.024	0.8898		17.5	20.0	-13.1	30.0
N-Propylbenzene	Ave	2.901	2.717		18.7	20.0	-6.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6547	0.3000	19.0	20.0	-4.4	30.0
2-Chlorotoluene	Ave	1.927	1.724		18.0	20.0	-10.6	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.704		18.4	20.0	-8.0	30.0
1,2,3-Trichloropropane	Lin2		0.0592		19.0	20.0	-4.9	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0920		17.3	20.0	-13.6	30.0
4-Chlorotoluene	Ave	1.683	1.517		18.0	20.0	-9.9	30.0
tert-Butylbenzene	Ave	1.471	1.410		19.2	20.0	-4.1	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.689		18.0	20.0	-9.9	30.0
sec-Butylbenzene	Ave	2.518	2.399		19.1	20.0	-4.7	30.0
4-Isopropyltoluene	Ave	1.894	1.786		18.8	20.0	-5.7	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7454		17.7	20.0	-11.4	30.0
1,4-Dichlorobenzene	Ave	1.788	1.753		19.7	20.0	-2.0	30.0
n-Butylbenzene	Ave	4.614	4.767		20.7	20.0	3.3	30.0
1,2-Dichlorobenzene	Ave	1.492	1.475		19.8	20.0	-1.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0742		19.3	20.0	-3.6	30.0
Hexachlorobutadiene	Ave	0.5170	0.5568		21.5	20.0	7.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-48982/2 Calibration Date: 09/15/2009 23:11

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45033.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4047		16.8	20.0	-16.2	30.0
Chloromethane	Ave	0.9034	0.8460	0.1000	20.1	20.0	-6.4	30.0
Vinyl chloride	Ave	0.6300	0.5598		18.9	20.0	-11.1	20.0
Bromomethane	Ave	0.3127	0.3002		20.1	20.0	-4.0	30.0
Chloroethane	Lin2		0.3212		19.8	20.0	-0.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4433		17.1	20.0	-14.5	30.0
Ethyl ether	Ave	0.2603	0.2359		19.4	20.0	-9.4	30.0
1,1-Dichloroethene	Ave	0.3201	0.2893		18.8	20.0	-9.6	20.0
Carbon disulfide	Ave	1.395	1.223		17.6	20.0	-12.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1501		16.2	20.0	-19.2	30.0
Acrolein	Ave	0.7836	0.7023		896	1000	-10.4	30.0
Methylene Chloride	Lin1		0.3585		20.5	20.0	2.7	30.0
Acetone	Lin2		0.0468		178	200	-10.9	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6389		18.1	20.0	-9.5	30.0
Methyl acetate	Lin1		0.2229		306	200	53.2*	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6290		18.0	20.0	-10.0	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3416		178	200	-10.9	30.0
Isopropyl ether	Ave	1.997	1.869		18.8	20.0	-6.4	30.0
1,1-Dichloroethane	Ave	0.7919	0.7352	0.1000	19.8	20.0	-7.2	30.0
Acrylonitrile	Lin1		0.0652		20.1	20.0	0.3	30.0
Tert-butyl ethyl ether	Ave	1.194	1.125		18.9	20.0	-5.7	30.0
Vinyl acetate	Ave	0.5745	0.3386		118	200	-41.1*	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5737		18.6	20.0	-6.7	30.0
2,2-Dichloropropane	Ave	0.5371	0.4268		18.0	20.0	-20.5	30.0
Cyclohexane	Ave	0.8898	0.7784		17.6	20.0	-12.5	30.0
Chlorobromomethane	Ave	0.1386	0.1301		18.8	20.0	-6.2	30.0
Chloroform	Ave	0.6243	0.5704		19.5	20.0	-8.6	20.0
Carbon tetrachloride	Ave	0.3645	0.3131		17.1	20.0	-14.1	30.0
Tetrahydrofuran	Ave	0.0762	0.0708		202	200	-7.1	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4605		17.6	20.0	-11.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0884		196	200	-7.9	30.0
1,1-Dichloropropene	Ave	0.4990	0.4442		17.8	20.0	-11.0	30.0
Benzene	Ave	1.352	1.295		19.2	20.0	-4.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7258		19.0	20.0	-4.8	30.0
1,2-Dichloroethane	Ave	0.3253	0.3028		18.6	20.0	-6.9	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3049		17.7	20.0	-19.9	30.0
Methylcyclohexane	Ave	0.6300	0.5634		18.0	20.0	-10.6	30.0
Trichloroethene	Ave	0.3155	0.2957		19.5	20.0	-6.3	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1583		16.9	20.0	-15.4	30.0
Dibromomethane	Ave	0.1188	0.1125		18.8	20.0	-5.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-48982/2 Calibration Date: 09/15/2009 23:11

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45033.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2976		21.1	20.0	-6.5	20.0
Dichlorobromomethane	Ave	0.3427	0.3147		18.2	20.0	-8.2	30.0
Methyl methacrylate	Ave	0.0864	0.0774		17.5	20.0	-10.4	30.0
1,4-Dioxane	Qua		0.0218		203	200	1.4	30.0
2-Chloroethyl vinyl ether	Lin		0.0646		337	200	68.3*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3618		18.2	20.0	-9.0	30.0
Toluene	Ave	0.7062	0.6707		19.5	20.0	-5.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1958		192	200	-4.4	30.0
Tetrachloroethene	Ave	0.1859	0.1772		19.0	20.0	-4.6	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2514		17.3	20.0	-13.7	30.0
1,1,2-Trichloroethane	Lin1		0.1167		18.7	20.0	-6.5	30.0
Chlorodibromomethane	Ave	0.1504	0.1315		17.5	20.0	-12.6	30.0
1,3-Dichloropropane	Ave	0.2828	0.2523		17.8	20.0	-10.8	30.0
Ethylene Dibromide	Ave	0.1260	0.1157		18.3	20.0	-8.1	30.0
2-Hexanone	Ave	0.1294	0.1122		176	200	-13.2	30.0
Chlorobenzene	Ave	1.096	1.053	0.3000	19.4	20.0	-3.9	30.0
Ethylbenzene	Ave	2.279	2.137		20.1	20.0	-6.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3307		20.0	20.0	-4.8	30.0
m-Xylene & p-Xylene	Ave	1.752	1.656		37.8	40.0	-5.5	30.0
o-Xylene	Ave	1.903	1.820		19.2	20.0	-4.4	30.0
Styrene	Ave	1.294	1.221		18.9	20.0	-5.6	30.0
Bromoform	Ave	0.3131	0.2669	0.1000	16.3	20.0	-14.8	20.0
Isopropylbenzene	Ave	2.255	2.168		19.3	20.0	-3.9	30.0
Bromobenzene	Ave	1.024	0.9189		18.0	20.0	-10.2	30.0
N-Propylbenzene	Ave	2.901	2.711		18.7	20.0	-6.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6028	0.3000	17.5	20.0	-12.0	30.0
2-Chlorotoluene	Ave	1.927	1.811		18.9	20.0	-6.0	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.808		19.6	20.0	-2.4	30.0
1,2,3-Trichloropropane	Lin2		0.0620		19.9	20.0	-0.3	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0919		17.3	20.0	-13.7	30.0
4-Chlorotoluene	Ave	1.683	1.574		18.6	20.0	-6.5	30.0
tert-Butylbenzene	Ave	1.471	1.446		19.6	20.0	-1.7	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.805		19.2	20.0	-3.7	30.0
sec-Butylbenzene	Ave	2.518	2.404		19.1	20.0	-4.5	30.0
4-Isopropyltoluene	Ave	1.894	1.833		19.3	20.0	-3.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.8032		19.1	20.0	-4.6	30.0
1,4-Dichlorobenzene	Ave	1.788	1.648		18.5	20.0	-7.8	30.0
n-Butylbenzene	Ave	4.614	4.268		18.5	20.0	-7.5	30.0
1,2-Dichlorobenzene	Ave	1.492	1.398		18.8	20.0	-6.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0686		17.8	20.0	-10.9	30.0
Hexachlorobutadiene	Ave	0.5170	0.4853		18.8	20.0	-6.1	30.0

4/a110 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-48982/2 Calibration Date: 09/15/2009 23:11

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45033.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9460		19.4	20.0	-3.0	30.0
Naphthalene	Ave	1.288	1.176		18.3	20.0	-8.7	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6953		19.3	20.0	-3.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2326		20.0	20.0	0.1	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.8926		20.1	20.0	0.5	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5504		19.2	20.0	-4.0	30.0

4/9/10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-49049/2 Calibration Date: 09/16/2009 16:37

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45048.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4892		20.3	20.0	1.4	30.0
Chloromethane	Ave	0.9034	0.9549	0.1000	22.9	20.0	5.7	30.0
Vinyl chloride	Ave	0.6300	0.6388		21.8	20.0	1.4	20.0
Bromomethane	Ave	0.3127	0.3486		23.4	20.0	11.5	30.0
Chloroethane	Lin2		0.3584		22.3	20.0	11.6	30.0
Trichlorofluoromethane	Ave	0.5183	0.5162		19.9	20.0	-0.4	30.0
Ethyl ether	Ave	0.2603	0.2404		19.8	20.0	-7.7	30.0
1,1-Dichloroethene	Ave	0.3201	0.3221		21.0	20.0	0.7	20.0
Carbon disulfide	Ave	1.395	1.366		19.6	20.0	-2.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1696		18.3	20.0	-8.7	30.0
Acrolein	Ave	0.7836	0.8106		1030	1000	3.4	30.0
Methylene Chloride	Lin1		0.3814		21.9	20.0	9.6	30.0
Acetone	Lin2		0.0655		252	200	25.8	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6919		19.6	20.0	-2.0	30.0
Methyl acetate	Lin1		0.1441		198	200	-1.0	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6607		18.9	20.0	-5.5	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3543		185	200	-7.6	30.0
Isopropyl ether	Ave	1.997	1.972		19.8	20.0	-1.3	30.0
1,1-Dichloroethane	Ave	0.7919	0.7851	0.1000	21.1	20.0	-0.9	30.0
Acrylonitrile	Lin1		0.0681		21.0	20.0	4.9	30.0
Tert-butyl ethyl ether	Ave	1.194	1.170		19.6	20.0	-2.0	30.0
Vinyl acetate	Ave	0.5745	0.6054		211	200	5.4	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.6075		19.7	20.0	-1.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.5316		23.0	20.0	-1.0	30.0
Chlorobromomethane	Ave	0.1386	0.1363		19.7	20.0	-1.7	30.0
Cyclohexane	Ave	0.8898	0.7485		16.9	20.0	-15.9	30.0
Chloroform	Ave	0.6243	0.5953		20.4	20.0	-4.6	20.0
Carbon tetrachloride	Ave	0.3645	0.3621		19.8	20.0	-0.7	30.0
Tetrahydrofuran	Ave	0.0762	0.0732		209	200	-4.0	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.5083		19.5	20.0	-1.7	30.0
2-Butanone (MEK)	Ave	0.0960	0.0984		218	200	2.5	30.0
1,1-Dichloropropene	Ave	0.4990	0.4895		19.6	20.0	-1.9	30.0
Benzene	Ave	1.352	1.385		20.5	20.0	2.5	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7694		20.2	20.0	1.0	30.0
1,2-Dichloroethane	Ave	0.3253	0.3232		19.9	20.0	-0.7	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3303		19.3	20.0	-13.2	30.0
Methylcyclohexane	Ave	0.6300	0.5441		17.3	20.0	-13.6	30.0
Trichloroethene	Ave	0.3155	0.3271		21.6	20.0	3.7	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1732		18.5	20.0	-7.5	30.0
Dibromomethane	Ave	0.1188	0.1217		20.4	20.0	2.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-49049/2 Calibration Date: 09/16/2009 16:37

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45048.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3193		22.7	20.0	0.3	20.0
Dichlorobromomethane	Ave	0.3427	0.3448		20.0	20.0	0.6	30.0
Methyl methacrylate	Ave	0.0864	0.0876		19.8	20.0	1.4	30.0
1,4-Dioxane	Qua		0.0212		197	200	-1.6	30.0
2-Chloroethyl vinyl ether	Lin		0.0720		373	200	86.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.4092		20.6	20.0	3.0	30.0
Toluene	Ave	0.7062	0.7432		21.7	20.0	5.2	20.0
Tetrachloroethene	Ave	0.1859	0.2045		22.0	20.0	10.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.2121		208	200	3.5	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2937		20.2	20.0	0.8	30.0
1,1,2-Trichloroethane	Lin1		0.1271		20.3	20.0	1.7	30.0
Chlorodibromomethane	Ave	0.1504	0.1506		20.0	20.0	0.1	30.0
1,3-Dichloropropane	Ave	0.2828	0.2840		20.1	20.0	0.4	30.0
Ethylene Dibromide	Ave	0.1260	0.1294		20.5	20.0	2.7	30.0
2-Hexanone	Ave	0.1294	0.1300		204	200	0.4	30.0
Chlorobenzene	Ave	1.096	1.144	0.3000	21.0	20.0	4.4	30.0
Ethylbenzene	Ave	2.279	2.310		21.7	20.0	1.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3522		21.3	20.0	1.4	30.0
m-Xylene & p-Xylene	Ave	1.752	1.781		40.7	40.0	1.6	30.0
o-Xylene	Ave	1.903	1.920		20.2	20.0	0.9	30.0
Styrene	Ave	1.294	1.302		20.2	20.0	0.6	30.0
Bromoform	Ave	0.3131	0.3054	0.1000	18.5	20.0	-2.5	20.0
Isopropylbenzene	Ave	2.255	2.358		21.0	20.0	4.5	30.0
Bromobenzene	Ave	1.024	0.9615		18.9	20.0	-6.1	30.0
N-Propylbenzene	Ave	2.901	2.950		20.3	20.0	1.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6457	0.3000	18.7	20.0	-5.7	30.0
2-Chlorotoluene	Ave	1.927	1.909		19.9	20.0	-1.0	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.910		20.7	20.0	3.2	30.0
1,2,3-Trichloropropane	Lin2		0.0646		20.8	20.0	4.1	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1013		19.1	20.0	-4.7	30.0
4-Chlorotoluene	Ave	1.683	1.658		19.6	20.0	-1.5	30.0
tert-Butylbenzene	Ave	1.471	1.559		21.2	20.0	6.0	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.906		20.3	20.0	1.7	30.0
sec-Butylbenzene	Ave	2.518	2.591		20.6	20.0	2.9	30.0
4-Isopropyltoluene	Ave	1.894	1.962		20.7	20.0	3.6	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.8274		19.7	20.0	-1.7	30.0
1,4-Dichlorobenzene	Ave	1.788	1.807		20.3	20.0	1.0	30.0
n-Butylbenzene	Ave	4.614	4.793		20.8	20.0	3.9	30.0
1,2-Dichlorobenzene	Ave	1.492	1.497		20.1	20.0	0.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0736		19.1	20.0	-4.4	30.0
Hexachlorobutadiene	Ave	0.5170	0.5382		20.8	20.0	4.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-49049/2 Calibration Date: 09/16/2009 16:37

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45048.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	1.029		21.1	20.0	5.5	30.0
Naphthalene	Ave	1.288	1.259		19.5	20.0	-2.3	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7679		21.3	20.0	6.4	30.0
Dibromofluoromethane	Ave	0.2328	0.2309		19.8	20.0	-0.8	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9074		20.4	20.0	2.2	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5407		18.9	20.0	-5.7	30.0

TC 4/9/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4254		17.6	20.0	-11.9	30.0
Chloromethane	Ave	0.9034	0.8234	0.1000	19.6	20.0	-8.9	30.0
Vinyl chloride	Ave	0.6300	0.5519		18.6	20.0	-12.4	20.0
Bromomethane	Ave	0.3127	0.3000		20.1	20.0	-4.1	30.0
Chloroethane	Lin2		0.3122		19.2	20.0	-3.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4501		17.4	20.0	-13.2	30.0
Ethyl ether	Ave	0.2603	0.1946		15.9	20.0	-25.2	30.0
1,1-Dichloroethene	Ave	0.3201	0.3050		19.9	20.0	-4.7	20.0
Carbon disulfide	Ave	1.395	1.226		17.6	20.0	-12.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1568		16.9	20.0	-15.6	30.0
Acrolein	Ave	0.7836	0.6751		861	1000	-13.9	30.0
Methylene Chloride	Lin1		0.3360		19.2	20.0	-4.1	30.0
Acetone	Lin2		0.0555		212	200	6.2	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6487		18.4	20.0	-8.1	30.0
Methyl acetate	Lin1		0.1443		198	200	-0.9	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5166		14.8	20.0	-26.1	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2947		154	200	-23.1	30.0
Isopropyl ether	Ave	1.997	1.687		17.0	20.0	-15.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7239	0.1000	19.5	20.0	-8.6	30.0
Acrylonitrile	Lin1		0.0539		16.5	20.0	-17.7	30.0
Tert-butyl ethyl ether	Ave	1.194	0.9518		15.9	20.0	-20.3	30.0
Vinyl acetate	Ave	0.5745	0.3965		138	200	-31.0*	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5663		18.4	20.0	-7.9	30.0
2,2-Dichloropropane	Ave	0.5371	0.5032		21.6	20.0	-6.3	30.0
Cyclohexane	Ave	0.8898	0.7411		16.8	20.0	-16.7	30.0
Chlorobromomethane	Ave	0.1386	0.1172		16.9	20.0	-15.5	30.0
Chloroform	Ave	0.6243	0.5506		18.9	20.0	-11.8	20.0
Carbon tetrachloride	Ave	0.3645	0.3510		19.2	20.0	-3.7	30.0
Tetrahydrofuran	Ave	0.0762	0.0576		165	200	-24.3	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4861		18.6	20.0	-6.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0781		172	200	-18.7	30.0
1,1-Dichloropropene	Ave	0.4990	0.4819		19.3	20.0	-3.4	30.0
Benzene	Ave	1.352	1.340		19.8	20.0	-0.8	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6073		15.9	20.0	-20.3	30.0
1,2-Dichloroethane	Ave	0.3253	0.2833		17.4	20.0	-12.9	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3148		18.3	20.0	-17.3	30.0
Methylcyclohexane	Ave	0.6300	0.5441		17.3	20.0	-13.6	30.0
Trichloroethene	Ave	0.3155	0.3225		21.3	20.0	2.2	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1675		17.9	20.0	-10.5	30.0
Dibromomethane	Ave	0.1188	0.1024		17.2	20.0	-13.7	30.0

TC 4/14/10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2950		21.0	20.0	-7.3	20.0
Dichlorobromomethane	Ave	0.3427	0.3093		17.9	20.0	-9.8	30.0
Methyl methacrylate	Ave	0.0864	0.0718		16.3	20.0	-16.9	30.0
1,4-Dioxane	Qua		0.0229		213	200	6.7	30.0
2-Chloroethyl vinyl ether	Lin		0.0586		307	200	53.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3755		18.9	20.0	-5.5	30.0
Toluene	Ave	0.7062	0.7400		21.6	20.0	4.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1609		158	200	-21.4	30.0
Tetrachloroethene	Ave	0.1859	0.2025		21.7	20.0	9.0	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2587		17.8	20.0	-11.2	30.0
1,1,2-Trichloroethane	Lin1		0.1109		17.8	20.0	-11.1	30.0
Chlorodibromomethane	Ave	0.1504	0.1274		16.9	20.0	-15.3	30.0
1,3-Dichloropropane	Ave	0.2828	0.2464		17.4	20.0	-12.9	30.0
Ethylene Dibromide	Ave	0.1260	0.1116		17.7	20.0	-11.4	30.0
2-Hexanone	Ave	0.1294	0.1055		166	200	-18.5	30.0
Chlorobenzene	Ave	1.096	1.096	0.3000	20.1	20.0	0.0	30.0
Ethylbenzene	Ave	2.279	2.297		21.6	20.0	0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3080		18.6	20.0	-11.4	30.0
m-Xylene & p-Xylene	Ave	1.752	1.757		40.2	40.0	0.3	30.0
o-Xylene	Ave	1.903	1.830		19.3	20.0	-3.8	30.0
Styrene	Ave	1.294	1.206		18.7	20.0	-6.8	30.0
Bromoform	Ave	0.3131	0.2757	0.1000	16.8	20.0	-11.9	20.0
Isopropylbenzene	Ave	2.255	2.296		20.4	20.0	1.8	30.0
Bromobenzene	Ave	1.024	0.8609		16.9	20.0	-15.9	30.0
N-Propylbenzene	Ave	2.901	2.844		19.6	20.0	-2.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5660	0.3000	16.4	20.0	-17.3	30.0
2-Chlorotoluene	Ave	1.927	1.788		18.6	20.0	-7.3	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.806		19.5	20.0	-2.4	30.0
1,2,3-Trichloropropane	Lin2		0.0512		16.4	20.0	-17.8	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0808		15.1	20.0	-24.4	30.0
4-Chlorotoluene	Ave	1.683	1.545		18.3	20.0	-8.2	30.0
tert-Butylbenzene	Ave	1.471	1.481		20.1	20.0	0.7	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.754		18.6	20.0	-6.4	30.0
sec-Butylbenzene	Ave	2.518	2.514		20.0	20.0	-0.2	30.0
4-Isopropyltoluene	Ave	1.894	1.852		19.5	20.0	-2.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7236		17.2	20.0	-14.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.733		19.5	20.0	-3.1	30.0
n-Butylbenzene	Ave	4.614	5.106		22.1	20.0	10.7	30.0
1,2-Dichlorobenzene	Ave	1.492	1.416		19.0	20.0	-5.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0608		15.8	20.0	-21.0	30.0
Hexachlorobutadiene	Ave	0.5170	0.5544		21.4	20.0	7.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24563-1

SDG No.: OCRI-14

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9317		19.1	20.0	-4.5	30.0
Naphthalene	Ave	1.288	1.051		16.3	20.0	-18.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6737		18.7	20.0	-6.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2133		18.3	20.0	-8.4	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9281		20.9	20.0	4.5	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5130		17.9	20.0	-10.5	30.0

TC
4/9/10

OCRI-15

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / II / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360-24582-1

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Data completeness				
☑	☐	☐	All data summaries, QC forms and raw data available from hard copy or electronic data package	Contact lab if missing data. Lab to respond with 24 hours.
☑	☐	☐	Data summaries match EDD	
Holding Times and Preservation				
☑	☐	☐	Hold times met (14 days with preservation)	
☑	☐	☐	Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune)				
☑	☐	☐	Tune available for each 12-hour period samples were analyzed	
☑	☐	☐	Appropriate number of significant figures reported (at least 2)	
☑	☐	☐	Mass/Charge list (m/z) criteria met	
Initial Calibration				I-Cal from 9-8-09
☑	☐	☐	%RSD less than or equal to 30%	
* ☐	☑	☐	RRF greater than or equal to 0.05	→ 1,4-Dioxane RRF < 0.05
Continuing Calibration				
* ☐	☑	☐	%D less than or equal to 25%	→ See Attached Form VII & V
☑	☐	☐	RRF greater than or equal to 0.05.	
Blank Contamination				Evaluate all blanks for contamination. Highest contaminant level used for action level.
☑	☐	☐	Method blank contamination	
☐	☑	☐	Trip blank contamination	
(TC) ☑	☑	☐	Equipment/Rinseate blank contamination	→ See attached

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes No N/A **TIER I / II / III (circle one)**

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples ☐ ☑ ☐ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☑ ☐ ☐ MS/MSD RPD criteria met (water and soil <30%) ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%)	→ See attached
Field Duplicates ☑ ☐ ☐ RPD criteria (water <30%, soils <50%) met	OC-SS-416-0.0/1.0 ; FD were NA
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: Liz Lee

Date: 4-11-10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SB-457-28/30-XXX**

Lab Sample ID: 360-24582-1
Client Matrix: Solid % Moisture: 22.0

Date Sampled: 09/14/2009 1130
Date Received: 09/14/2009 1750

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45058.D
Dilution:	1.0			Initial Weight/Volume:	7.74 g
Date Analyzed:	09/16/2009 2034			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.83	2.1
1,1,1-Trichloroethane		ND		0.83	2.1
1,1,2,2-Tetrachloroethane		ND		0.83	2.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.83	10
1,1,2-Trichloroethane		ND		0.83	2.1
1,1-Dichloroethane		ND		0.83	2.1
1,1-Dichloroethene		ND		0.83	2.1
1,1-Dichloropropene		ND		0.83	2.1
1,2,3-Trichlorobenzene		ND		0.83	2.1
1,2,3-Trichloropropane		ND		1.2	2.1
1,2,4-Trichlorobenzene		ND		0.83	2.1
1,2,4-Trimethylbenzene		ND		0.83	2.1
1,2-Dibromo-3-Chloropropane		ND		1.5	21
Ethylene Dibromide		ND		0.83	2.1
1,2-Dichlorobenzene		ND		0.83	2.1
1,2-Dichloroethane		ND		0.83	2.1
Acetone		ND	J	15	210
1,2-Dichloropropane		ND		0.83	2.1
1,3,5-Trimethylbenzene		ND		0.83	2.1
1,3-Dichlorobenzene		ND		0.83	2.1
1,3-Dichloropropane		ND		0.83	2.1
1,4-Dichlorobenzene		ND		0.83	2.1
1,4-Dioxane		ND	J	27	210
2,2-Dichloropropane		ND		0.83	2.1
2,4,4-Trimethyl-1-pentene		ND		0.83	4.1
2,4,4-Trimethyl-2-pentene		ND		0.83	4.1
2-Chlorotoluene		ND		0.83	2.1
2-Hexanone		ND		4.3	21
4-Chlorotoluene		ND		0.83	2.1
Benzene		ND		0.83	2.1
Bromobenzene		ND		0.83	2.1
Chlorobromomethane		ND		0.83	2.1
Dichlorobromomethane		ND		0.83	2.1
Bromoform		ND		0.83	2.1
Bromomethane		ND		0.83	4.1
n-Butylbenzene		ND		0.83	2.1
Carbon disulfide		ND		0.83	2.1
Carbon tetrachloride		ND		0.83	2.1
Chlorobenzene		ND		0.83	2.1
Chloroethane		ND		0.83	4.1
Chloroform		ND		0.83	2.1
Chloromethane		ND		0.83	4.1
cis-1,2-Dichloroethene		ND		0.83	2.1
cis-1,3-Dichloropropene		ND		0.83	2.1
Cyclohexane		ND		2.1	21
Chlorodibromomethane		ND		0.83	2.1

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SB-457-28/30-XXX**

Lab Sample ID: 360-24582-1
Client Matrix: Solid
% Moisture: 22.0

Date Sampled: 09/14/2009 1130
Date Received: 09/14/2009 1750

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45058.D
Dilution:	1.0			Initial Weight/Volume:	7.74 g
Date Analyzed:	09/16/2009 2034			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.83	2.1
Dichlorodifluoromethane		ND J		0.83	4.1
Ethyl ether		ND		0.83	2.1
Isopropyl ether		ND		0.83	2.1
Tert-butyl ethyl ether		ND		2.1	2.1
Ethylbenzene		ND		0.83	2.1
Hexachlorobutadiene		ND		0.83	2.1
Isopropylbenzene		ND		0.83	2.1
Methyl acetate		ND		13	41
2-Butanone (MEK)		ND		5.6	21
4-Methyl-2-pentanone (MIBK)		ND		4.3	21
Methyl tert-butyl ether		ND		0.83	2.1
Methylcyclohexane		ND		0.83	2.1
Methylene Chloride		ND		4.0	8.3
m-Xylene & p-Xylene		ND		0.83	4.1
Naphthalene		ND		0.83	21
N-Propylbenzene		ND		0.83	2.1
o-Xylene		ND		0.83	2.1
4-Isopropyltoluene		ND		0.83	2.1
sec-Butylbenzene		ND		0.83	2.1
Styrene		ND		0.83	2.1
Tert-amyl methyl ether		ND		0.83	2.1
tert-Butylbenzene		ND		0.83	2.1
Tetrachloroethene		ND		0.83	2.1
Tetrahydrofuran		ND		4.6	21
Toluene		ND		0.83	2.1
trans-1,2-Dichloroethene		ND		0.83	2.1
trans-1,3-Dichloropropene		ND		0.83	2.1
Trichloroethene		ND		0.83	2.1
Trichlorofluoromethane		ND		0.83	4.1
Vinyl chloride		ND		0.83	2.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	102		70 - 130

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SB-457-28/30-XXX**

Lab Sample ID: 360-24582-1
Client Matrix: Solid % Moisture: 22.0

Date Sampled: 09/14/2009 1130
Date Received: 09/14/2009 1750

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45058.D
Dilution:	1.0			Initial Weight/Volume:	7.74 g
Date Analyzed:	09/16/2009 2034			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
115-11-7	1-Propene, 2-methyl-	1.85	10	T J N
~~Unknown~~		~~10.36~~	~~3.1~~	~~T J~~

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-TBK-018**

Lab Sample ID: 360-24582-2
Client Matrix: Solid

Date Sampled: 09/14/2009 1415
Date Received: 09/14/2009 1750

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45059.D
Dilution:	1.0			Initial Weight/Volume:	5.0 g
Date Analyzed:	09/16/2009 2058			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-TBK-018**

Lab Sample ID: 360-24582-2
Client Matrix: Solid

Date Sampled: 09/14/2009 1415
Date Received: 09/14/2009 1750

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45059.D
Dilution:	1.0			Initial Weight/Volume:	5.0 g
Date Analyzed:	09/16/2009 2058			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND		1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-TBK-018**

Lab Sample ID: 360-24582-2
Client Matrix: Solid

Date Sampled: 09/14/2009 1415
Date Received: 09/14/2009 1750

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49049		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49046		Lab File ID:	V45059.D
Dilution:	1.0			Initial Weight/Volume:	5.0 g
Date Analyzed:	09/16/2009 2058			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.61	5.0	T J

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-EBK-010**

Lab Sample ID: 360-24582-4FB
Client Matrix: Water

Date Sampled: 09/14/2009 1300
Date Received: 09/14/2009 1750

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/17/2009 2038
Date Prepared: 09/17/2009 2038

Analysis Batch: 360-49119

Instrument ID: Agilent#2 GC/MS
Lab File ID: V06983.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND	*	0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND	*	7.7	50
2,2-Dichloropropane	ND	*	0.60	1.0
2,4,4-Trimethyl-1-pentene	ND		0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND		0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	1.0	J	0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-EBK-010**

Lab Sample ID: 360-24582-4FB
Client Matrix: Water

Date Sampled: 09/14/2009 1300
Date Received: 09/14/2009 1750

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49119	Instrument ID: Agilent#2 GC/MS
Preparation:	5030B		Lab File ID: V06983.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	09/17/2009 2038		Final Weight/Volume: 5 mL
Date Prepared:	09/17/2009 2038		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND	*	0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND	*	10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	87		70 - 130
Dibromofluoromethane	127		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-EBK-010**

Lab Sample ID: 360-24582-4FB
Client Matrix: Water

Date Sampled: 09/14/2009 1300
Date Received: 09/14/2009 1750

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49119	Instrument ID: Agilent#2 GC/MS
Preparation:	5030B		Lab File ID: V06983.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	09/17/2009 2038		Final Weight/Volume: 5 mL
Date Prepared:	09/17/2009 2038		

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
115-7-1	Propene	1.68	3.4	T J N
	Unknown	3.21	1.5	T J

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-400-0.0/1.0-XXX**

Lab Sample ID: 360-24582-5
Client Matrix: Solid % Moisture: 24.3

Date Sampled: 09/14/2009 1440
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45092.D
Dilution:	1.0			Initial Weight/Volume:	3.44 g
Date Analyzed:	09/17/2009 1526			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.9	4.8
1,1,1-Trichloroethane		ND		1.9	4.8
1,1,2,2-Tetrachloroethane		ND		1.9	4.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.9	24
1,1,2-Trichloroethane		ND		1.9	4.8
1,1-Dichloroethane		ND		1.9	4.8
1,1-Dichloroethene		ND		1.9	4.8
1,1-Dichloropropene		ND		1.9	4.8
1,2,3-Trichlorobenzene		ND		1.9	4.8
1,2,3-Trichloropropane		ND		2.8	4.8
1,2,4-Trichlorobenzene		ND		1.9	4.8
1,2,4-Trimethylbenzene		ND		1.9	4.8
1,2-Dibromo-3-Chloropropane		ND		3.5	48
Ethylene Dibromide		ND		1.9	4.8
1,2-Dichlorobenzene		ND		1.9	4.8
1,2-Dichloroethane		ND		1.9	4.8
Acetone		ND	J	34	480
1,2-Dichloropropane		ND		1.9	4.8
1,3,5-Trimethylbenzene		ND		1.9	4.8
1,3-Dichlorobenzene		ND		1.9	4.8
1,3-Dichloropropane		ND		1.9	4.8
1,4-Dichlorobenzene		ND		1.9	4.8
1,4-Dioxane		ND	J	63	480
2,2-Dichloropropane		ND		1.9	4.8
2,4,4-Trimethyl-1-pentene		ND		1.9	9.6
2,4,4-Trimethyl-2-pentene		ND		1.9	9.6
2-Chlorotoluene		ND		1.9	4.8
2-Hexanone		ND		9.9	48
4-Chlorotoluene		ND		1.9	4.8
Benzene		ND		1.9	4.8
Bromobenzene		ND		1.9	4.8
Chlorobromomethane		ND		1.9	4.8
Dichlorobromomethane		ND		1.9	4.8
Bromoform		ND		1.9	4.8
Bromomethane		ND		1.9	9.6
n-Butylbenzene		ND		1.9	4.8
Carbon disulfide		ND		1.9	4.8
Carbon tetrachloride		ND		1.9	4.8
Chlorobenzene		ND		1.9	4.8
Chloroethane		ND		1.9	9.6
Chloroform		ND		1.9	4.8
Chloromethane		ND		1.9	9.6
cis-1,2-Dichloroethene		ND		1.9	4.8
cis-1,3-Dichloropropene		ND		1.9	4.8
Cyclohexane		ND		5.0	48
Chlorodibromomethane		ND		1.9	4.8

4/13/10
TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-400-0.0/1.0-XXX**

Lab Sample ID: 360-24582-5
Client Matrix: Solid % Moisture: 24.3

Date Sampled: 09/14/2009 1440
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45092.D
Dilution:	1.0			Initial Weight/Volume:	3.44 g
Date Analyzed:	09/17/2009 1526			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.9	4.8
Dichlorodifluoromethane		ND	J	1.9	9.6
Ethyl ether		ND		1.9	4.8
Isopropyl ether		ND		1.9	4.8
Tert-butyl ethyl ether		ND		4.8	4.8
Ethylbenzene		ND		1.9	4.8
Hexachlorobutadiene		ND		1.9	4.8
Isopropylbenzene		ND		1.9	4.8
Methyl acetate		ND		31	96
2-Butanone (MEK)		ND		13	48
4-Methyl-2-pentanone (MIBK)		ND		9.9	48
Methyl tert-butyl ether		ND		1.9	4.8
Methylcyclohexane		ND		1.9	4.8
Methylene Chloride		ND		9.3	19
m-Xylene & p-Xylene		ND		1.9	9.6
Naphthalene		ND		1.9	48
N-Propylbenzene		ND		1.9	4.8
o-Xylene		ND		1.9	4.8
4-Isopropyltoluene		ND		1.9	4.8
sec-Butylbenzene		ND		1.9	4.8
Styrene		ND		1.9	4.8
Tert-amyl methyl ether		ND		1.9	4.8
tert-Butylbenzene		ND		1.9	4.8
Tetrachloroethene		ND		1.9	4.8
Tetrahydrofuran		ND		11	48
Toluene		ND		1.9	4.8
trans-1,2-Dichloroethene		ND		1.9	4.8
trans-1,3-Dichloropropene		ND		1.9	4.8
Trichloroethene		ND		1.9	4.8
Trichlorofluoromethane		ND		1.9	9.6
Vinyl chloride		ND		1.9	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	100		70 - 130

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-400-0.0/1.0-XXX**

Lab Sample ID: 360-24582-5
Client Matrix: Solid % Moisture: 24.3

Date Sampled: 09/14/2009 1440
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45092.D
Dilution:	1.0			Initial Weight/Volume:	3.44 g
Date Analyzed:	09/17/2009 1526			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.03	4.1	T J

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-401-0.1/1.0-XXX**

Lab Sample ID: 360-24582-6
Client Matrix: Solid % Moisture: 6.8

Date Sampled: 09/14/2009 1505
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45093.D
Dilution:	1.0			Initial Weight/Volume:	5.37 g
Date Analyzed:	09/17/2009 1609			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-401-0.1/1.0-XXX**

Lab Sample ID: 360-24582-6
Client Matrix: Solid % Moisture: 6.8

Date Sampled: 09/14/2009 1505
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45093.D
Dilution:	1.0			Initial Weight/Volume:	5.37 g
Date Analyzed:	09/17/2009 1609			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J	✓	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	99		70 - 130

4/13/10 TR

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-401-0.1/1.0-XXX**

Lab Sample ID: 360-24582-6
Client Matrix: Solid % Moisture: 6.8

Date Sampled: 09/14/2009 1505
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45093.D
Dilution:	1.0			Initial Weight/Volume:	5.37 g
Date Analyzed:	09/17/2009 1609			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
7785-70-8	1R-.alpha.-Pinene	8.88	14	T J N
	Unknown	10.04	9.8	T J

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-402-0.0/1.0-XXX**

Lab Sample ID: 360-24582-7
Client Matrix: Solid % Moisture: 25.0

Date Sampled: 09/14/2009 1530
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45094.D
Dilution:	1.0			Initial Weight/Volume:	3.23 g
Date Analyzed:	09/17/2009 1633			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		2.1	5.2
1,1,1-Trichloroethane		ND		2.1	5.2
1,1,2,2-Tetrachloroethane		ND		2.1	5.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		2.1	26
1,1,2-Trichloroethane		ND		2.1	5.2
1,1-Dichloroethane		ND		2.1	5.2
1,1-Dichloroethene		ND		2.1	5.2
1,1-Dichloropropene		ND		2.1	5.2
1,2,3-Trichlorobenzene		ND		2.1	5.2
1,2,3-Trichloropropane		ND		3.0	5.2
1,2,4-Trichlorobenzene		ND		2.1	5.2
1,2,4-Trimethylbenzene		ND		2.1	5.2
1,2-Dibromo-3-Chloropropane		ND		3.7	52
Ethylene Dibromide		ND		2.1	5.2
1,2-Dichlorobenzene		ND		2.1	5.2
1,2-Dichloroethane		ND		2.1	5.2
Acetone		ND	J	37	520
1,2-Dichloropropane		ND		2.1	5.2
1,3,5-Trimethylbenzene		ND		2.1	5.2
1,3-Dichlorobenzene		ND		2.1	5.2
1,3-Dichloropropane		ND		2.1	5.2
1,4-Dichlorobenzene		ND		2.1	5.2
1,4-Dioxane		ND	J	68	520
2,2-Dichloropropane		ND		2.1	5.2
2,4,4-Trimethyl-1-pentene		ND		2.1	10
2,4,4-Trimethyl-2-pentene		ND		2.1	10
2-Chlorotoluene		ND		2.1	5.2
2-Hexanone		ND		11	52
4-Chlorotoluene		ND		2.1	5.2
Benzene		ND		2.1	5.2
Bromobenzene		ND		2.1	5.2
Chlorobromomethane		ND		2.1	5.2
Dichlorobromomethane		ND		2.1	5.2
Bromoform		ND		2.1	5.2
Bromomethane		ND		2.1	10
n-Butylbenzene		ND		2.1	5.2
Carbon disulfide		ND		2.1	5.2
Carbon tetrachloride		ND		2.1	5.2
Chlorobenzene		ND		2.1	5.2
Chloroethane		ND		2.1	10
Chloroform		ND		2.1	5.2
Chloromethane		ND		2.1	10
cis-1,2-Dichloroethene		ND		2.1	5.2
cis-1,3-Dichloropropene		ND		2.1	5.2
Cyclohexane		ND		5.3	52
Chlorodibromomethane		ND		2.1	5.2

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-402-0.0/1.0-XXX**

Lab Sample ID: 360-24582-7
Client Matrix: Solid % Moisture: 25.0

Date Sampled: 09/14/2009 1530
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45094.D
Dilution:	1.0			Initial Weight/Volume:	3.23 g
Date Analyzed:	09/17/2009 1633			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		2.1	5.2
Dichlorodifluoromethane		ND J	✓	2.1	10
Ethyl ether		ND		2.1	5.2
Isopropyl ether		ND		2.1	5.2
Tert-butyl ethyl ether		ND		5.2	5.2
Ethylbenzene		ND		2.1	5.2
Hexachlorobutadiene		ND		2.1	5.2
Isopropylbenzene		ND		2.1	5.2
Methyl acetate		ND		34	100
2-Butanone (MEK)		ND		14	52
4-Methyl-2-pentanone (MIBK)		ND		11	52
Methyl tert-butyl ether		ND		2.1	5.2
Methylcyclohexane		ND		2.1	5.2
Methylene Chloride		ND		10	21
m-Xylene & p-Xylene		ND		2.1	10
Naphthalene		ND		2.1	52
N-Propylbenzene		ND		2.1	5.2
o-Xylene		ND		2.1	5.2
4-Isopropyltoluene		ND		2.1	5.2
sec-Butylbenzene		ND		2.1	5.2
Styrene		ND		2.1	5.2
Tert-amyl methyl ether		ND		2.1	5.2
tert-Butylbenzene		ND		2.1	5.2
Tetrachloroethene		ND		2.1	5.2
Tetrahydrofuran		ND		11	52
Toluene		ND		2.1	5.2
trans-1,2-Dichloroethene		ND		2.1	5.2
trans-1,3-Dichloropropene		ND		2.1	5.2
Trichloroethene		ND		2.1	5.2
Trichlorofluoromethane		ND		2.1	10
Vinyl chloride		ND		2.1	5.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	100		70 - 130

4/15/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-402-0.0/1.0-XXX**

Lab Sample ID: 360-24582-7
Client Matrix: Solid % Moisture: 25.0

Date Sampled: 09/14/2009 1530
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45094.D
Dilution:	1.0			Initial Weight/Volume:	3.23 g
Date Analyzed:	09/17/2009 1633			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	7.61	15	T J

4/13/10
TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-404-0.0/1.0-XXX**

Lab Sample ID: 360-24582-9
Client Matrix: Solid % Moisture: 8.2

Date Sampled: 09/14/2009 1610
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45095.D
Dilution:	1.0			Initial Weight/Volume:	5.08 g
Date Analyzed:	09/17/2009 1657			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-404-0.0/1.0-XXX**

Lab Sample ID: 360-24582-9
Client Matrix: Solid % Moisture: 8.2

Date Sampled: 09/14/2009 1610
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45095.D
Dilution:	1.0			Initial Weight/Volume:	5.08 g
Date Analyzed:	09/17/2009 1657			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J	✓	1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		17	54
2-Butanone (MEK)		ND		7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	100		70 - 130

4/13/10
TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-404-0.0/1.0-XXX**

Lab Sample ID: 360-24582-9
Client Matrix: Solid % Moisture: 8.2

Date Sampled: 09/14/2009 1610
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45095.D
Dilution:	1.0			Initial Weight/Volume:	5.08 g
Date Analyzed:	09/17/2009 1657			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.03	2.3	T J

4/13/10
TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-405-0.0/1.0-XXX**

Lab Sample ID: 360-24582-10
Client Matrix: Solid % Moisture: 6.6

Date Sampled: 09/14/2009 1630
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45096.D
Dilution:	1.0			Initial Weight/Volume:	5.37 g
Date Analyzed:	09/17/2009 1720			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-405-0.0/1.0-XXX**

Lab Sample ID: 360-24582-10
Client Matrix: Solid % Moisture: 6.6

Date Sampled: 09/14/2009 1630
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45096.D
Dilution:	1.0			Initial Weight/Volume:	5.37 g
Date Analyzed:	09/17/2009 1720			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	J	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	100		70 - 130

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-405-0.0/1.0-XXX**

Lab Sample ID: 360-24582-10
Client Matrix: Solid % Moisture: 6.6

Date Sampled: 09/14/2009 1630
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45096.D
Dilution:	1.0			Initial Weight/Volume:	5.37 g
Date Analyzed:	09/17/2009 1720			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.03	4.4	T J

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-406-0.0/1.0.-XXX**

Lab Sample ID: 360-24582-11
Client Matrix: Solid % Moisture: 25.2

Date Sampled: 09/15/2009 0835
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45097.D
Dilution:	1.0			Initial Weight/Volume:	4.48 g
Date Analyzed:	09/17/2009 1744			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.5	3.7
1,1,1-Trichloroethane		ND		1.5	3.7
1,1,2,2-Tetrachloroethane		ND		1.5	3.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.5	19
1,1,2-Trichloroethane		ND		1.5	3.7
1,1-Dichloroethane		ND		1.5	3.7
1,1-Dichloroethene		ND		1.5	3.7
1,1-Dichloropropene		ND		1.5	3.7
1,2,3-Trichlorobenzene		ND		1.5	3.7
1,2,3-Trichloropropane		ND		2.2	3.7
1,2,4-Trichlorobenzene		ND		1.5	3.7
1,2,4-Trimethylbenzene		ND		1.5	3.7
1,2-Dibromo-3-Chloropropane		ND		2.7	37
Ethylene Dibromide		ND		1.5	3.7
1,2-Dichlorobenzene		ND		1.5	3.7
1,2-Dichloroethane		ND		1.5	3.7
Acetone		ND	J	27	370
1,2-Dichloropropane		ND		1.5	3.7
1,3,5-Trimethylbenzene		ND		1.5	3.7
1,3-Dichlorobenzene		ND		1.5	3.7
1,3-Dichloropropane		ND		1.5	3.7
1,4-Dichlorobenzene		ND		1.5	3.7
1,4-Dioxane		ND	J	49	370
2,2-Dichloropropane		ND		1.5	3.7
2,4,4-Trimethyl-1-pentene		ND		1.5	7.5
2,4,4-Trimethyl-2-pentene		ND		1.5	7.5
2-Chlorotoluene		ND		1.5	3.7
2-Hexanone		ND		7.7	37
4-Chlorotoluene		ND		1.5	3.7
Benzene		ND		1.5	3.7
Bromobenzene		ND		1.5	3.7
Chlorobromomethane		ND		1.5	3.7
Dichlorobromomethane		ND		1.5	3.7
Bromoform		ND		1.5	3.7
Bromomethane		ND		1.5	7.5
n-Butylbenzene		ND		1.5	3.7
Carbon disulfide		ND		1.5	3.7
Carbon tetrachloride		ND		1.5	3.7
Chlorobenzene		ND		1.5	3.7
Chloroethane		ND		1.5	7.5
Chloroform		ND		1.5	3.7
Chloromethane		ND		1.5	7.5
cis-1,2-Dichloroethene		ND		1.5	3.7
cis-1,3-Dichloropropene		ND		1.5	3.7
Cyclohexane		ND		3.8	37
Chlorodibromomethane		ND		1.5	3.7

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-406-0.0/1.0.-XXX**

Lab Sample ID: 360-24582-11
Client Matrix: Solid
% Moisture: 25.2

Date Sampled: 09/15/2009 0835
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45097.D
Dilution:	1.0			Initial Weight/Volume:	4.48 g
Date Analyzed:	09/17/2009 1744			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.5	3.7
Dichlorodifluoromethane		ND J		1.5	7.5
Ethyl ether		ND		1.5	3.7
Isopropyl ether		ND		1.5	3.7
Tert-butyl ethyl ether		ND		3.7	3.7
Ethylbenzene		ND		1.5	3.7
Hexachlorobutadiene		ND		1.5	3.7
Isopropylbenzene		ND		1.5	3.7
Methyl acetate		ND		24	75
2-Butanone (MEK)		ND		10	37
4-Methyl-2-pentanone (MIBK)		ND		7.7	37
Methyl tert-butyl ether		ND		1.5	3.7
Methylcyclohexane		ND		1.5	3.7
Methylene Chloride		ND		7.2	15
m-Xylene & p-Xylene		ND		1.5	7.5
Naphthalene		ND		1.5	37
N-Propylbenzene		ND		1.5	3.7
o-Xylene		ND		1.5	3.7
4-Isopropyltoluene		ND		1.5	3.7
sec-Butylbenzene		ND		1.5	3.7
Styrene		ND		1.5	3.7
Tert-amyl methyl ether		ND		1.5	3.7
tert-Butylbenzene		ND		1.5	3.7
Tetrachloroethene		ND		1.5	3.7
Tetrahydrofuran		ND		8.2	37
Toluene		ND		1.5	3.7
trans-1,2-Dichloroethene		ND		1.5	3.7
trans-1,3-Dichloropropene		ND		1.5	3.7
Trichloroethene		ND		1.5	3.7
Trichlorofluoromethane		ND		1.5	7.5
Vinyl chloride		ND		1.5	3.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	98		70 - 130

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-406-0.0/1.0.-XXX**

Lab Sample ID: 360-24582-11
Client Matrix: Solid

% Moisture: 25.2

Date Sampled: 09/15/2009 0835
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45097.D
Dilution:	1.0			Initial Weight/Volume:	4.48 g
Date Analyzed:	09/17/2009 1744			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.03	4.2	T J

4/13/10
T2 10/13/2009

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-407-0.0/1.0-XXX**

Lab Sample ID: 360-24582-12
Client Matrix: Solid % Moisture: 10.9

Date Sampled: 09/15/2009 0905
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/17/2009 1807
Date Prepared: 09/17/2009 1218

Analysis Batch: 360-49101
Prep Batch: 360-49099

Instrument ID: HP #1 GC/MS
Lab File ID: V45098.D
Initial Weight/Volume: 3.79 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.5	3.7
1,1,1-Trichloroethane		ND		1.5	3.7
1,1,2,2-Tetrachloroethane		ND		1.5	3.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.5	19
1,1,2-Trichloroethane		ND		1.5	3.7
1,1-Dichloroethane		ND		1.5	3.7
1,1-Dichloroethene		ND		1.5	3.7
1,1-Dichloropropene		ND		1.5	3.7
1,2,3-Trichlorobenzene		ND		1.5	3.7
1,2,3-Trichloropropane		ND		2.2	3.7
1,2,4-Trichlorobenzene		ND		1.5	3.7
1,2,4-Trimethylbenzene		ND		1.5	3.7
1,2-Dibromo-3-Chloropropane		ND		2.7	37
Ethylene Dibromide		ND		1.5	3.7
1,2-Dichlorobenzene		ND		1.5	3.7
1,2-Dichloroethane		ND		1.5	3.7
Acetone		ND	J	27	370
1,2-Dichloropropane		ND		1.5	3.7
1,3,5-Trimethylbenzene		ND		1.5	3.7
1,3-Dichlorobenzene		ND		1.5	3.7
1,3-Dichloropropane		ND		1.5	3.7
1,4-Dichlorobenzene		ND		1.5	3.7
1,4-Dioxane		ND	J	49	370
2,2-Dichloropropane		ND		1.5	3.7
2,4,4-Trimethyl-1-pentene		ND		1.5	7.4
2,4,4-Trimethyl-2-pentene		ND		1.5	7.4
2-Chlorotoluene		ND		1.5	3.7
2-Hexanone		ND		7.6	37
4-Chlorotoluene		ND		1.5	3.7
Benzene		ND		1.5	3.7
Bromobenzene		ND		1.5	3.7
Chlorobromomethane		ND		1.5	3.7
Dichlorobromomethane		ND		1.5	3.7
Bromoform		ND		1.5	3.7
Bromomethane		ND		1.5	7.4
n-Butylbenzene		ND		1.5	3.7
Carbon disulfide		ND		1.5	3.7
Carbon tetrachloride		ND		1.5	3.7
Chlorobenzene		ND		1.5	3.7
Chloroethane		ND		1.5	7.4
Chloroform		ND		1.5	3.7
Chloromethane		ND		1.5	7.4
cis-1,2-Dichloroethene		ND		1.5	3.7
cis-1,3-Dichloropropene		ND		1.5	3.7
Cyclohexane		ND		3.8	37
Chlorodibromomethane		ND		1.5	3.7

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-407-0.0/1.0-XXX**

Lab Sample ID: 360-24582-12
Client Matrix: Solid % Moisture: 10.9

Date Sampled: 09/15/2009 0905
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45098.D
Dilution:	1.0			Initial Weight/Volume:	3.79 g
Date Analyzed:	09/17/2009 1807			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.5	3.7
Dichlorodifluoromethane		ND J		1.5	7.4
Ethyl ether		ND		1.5	3.7
Isopropyl ether		ND		1.5	3.7
Tert-butyl ethyl ether		ND		3.7	3.7
Ethylbenzene		ND		1.5	3.7
Hexachlorobutadiene		ND		1.5	3.7
Isopropylbenzene		ND		1.5	3.7
Methyl acetate		ND		24	74
2-Butanone (MEK)		ND		10	37
4-Methyl-2-pentanone (MIBK)		ND		7.6	37
Methyl tert-butyl ether		ND		1.5	3.7
Methylcyclohexane		ND		1.5	3.7
Methylene Chloride		ND		7.2	15
m-Xylene & p-Xylene		ND		1.5	7.4
Naphthalene		ND		1.5	37
N-Propylbenzene		ND		1.5	3.7
o-Xylene		ND		1.5	3.7
4-Isopropyltoluene		ND		1.5	3.7
sec-Butylbenzene		ND		1.5	3.7
Styrene		ND		1.5	3.7
Tert-amyl methyl ether		ND		1.5	3.7
tert-Butylbenzene		ND		1.5	3.7
Tetrachloroethene		ND		1.5	3.7
Tetrahydrofuran		ND		8.1	37
Toluene		ND		1.5	3.7
trans-1,2-Dichloroethene		ND		1.5	3.7
trans-1,3-Dichloropropene		ND		1.5	3.7
Trichloroethene		ND		1.5	3.7
Trichlorofluoromethane		ND		1.5	7.4
Vinyl chloride		ND		1.5	3.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-407-0.0/1.0-XXX**

Lab Sample ID: 360-24582-12
Client Matrix: Solid % Moisture: 10.9

Date Sampled: 09/15/2009 0905
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45098.D
Dilution:	1.0			Initial Weight/Volume:	3.79 g
Date Analyzed:	09/17/2009 1807			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.03	3.4	T J

TG 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-408-0.0/1.0-XXX**

Lab Sample ID: 360-24582-13
Client Matrix: Solid
% Moisture: 15.8

Date Sampled: 09/15/2009 0930
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45099.D
Dilution:	1.0			Initial Weight/Volume:	6.18 g
Date Analyzed:	09/17/2009 1830			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.96	2.4
1,1,1-Trichloroethane		ND		0.96	2.4
1,1,2,2-Tetrachloroethane		ND		0.96	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.96	12
1,1,2-Trichloroethane		ND		0.96	2.4
1,1-Dichloroethane		ND		0.96	2.4
1,1-Dichloroethene		ND		0.96	2.4
1,1-Dichloropropene		ND		0.96	2.4
1,2,3-Trichlorobenzene		ND		0.96	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.96	2.4
1,2,4-Trimethylbenzene		ND		0.96	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.96	2.4
1,2-Dichlorobenzene		ND		0.96	2.4
1,2-Dichloroethane		ND		0.96	2.4
Acetone		ND	J	17	240
1,2-Dichloropropane		ND		0.96	2.4
1,3,5-Trimethylbenzene		ND		0.96	2.4
1,3-Dichlorobenzene		ND		0.96	2.4
1,3-Dichloropropane		ND		0.96	2.4
1,4-Dichlorobenzene		ND		0.96	2.4
1,4-Dioxane		ND	J	32	240
2,2-Dichloropropane		ND		0.96	2.4
2,4,4-Trimethyl-1-pentene		ND		0.96	4.8
2,4,4-Trimethyl-2-pentene		ND		0.96	4.8
2-Chlorotoluene		ND		0.96	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.96	2.4
Benzene		ND		0.96	2.4
Bromobenzene		ND		0.96	2.4
Chlorobromomethane		ND		0.96	2.4
Dichlorobromomethane		ND		0.96	2.4
Bromoform		ND		0.96	2.4
Bromomethane		ND		0.96	4.8
n-Butylbenzene		ND		0.96	2.4
Carbon disulfide		ND		0.96	2.4
Carbon tetrachloride		ND		0.96	2.4
Chlorobenzene		ND		0.96	2.4
Chloroethane		ND		0.96	4.8
Chloroform		ND		0.96	2.4
Chloromethane		ND		0.96	4.8
cis-1,2-Dichloroethene		ND		0.96	2.4
cis-1,3-Dichloropropene		ND		0.96	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.96	2.4

4/13/10
TR

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-408-0.0/1.0-XXX**

Lab Sample ID: 360-24582-13
Client Matrix: Solid
% Moisture: 15.8

Date Sampled: 09/15/2009 0930
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45099.D
Dilution:	1.0			Initial Weight/Volume:	6.18 g
Date Analyzed:	09/17/2009 1830			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.96	2.4
Dichlorodifluoromethane		ND		0.96	4.8
Ethyl ether		ND		0.96	2.4
Isopropyl ether		ND		0.96	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.96	2.4
Hexachlorobutadiene		ND		0.96	2.4
Isopropylbenzene		ND		0.96	2.4
Methyl acetate		ND		16	48
2-Butanone (MEK)		ND		6.5	24
4-Methyl-2-pentanone (MIBK)		ND		5.0	24
Methyl tert-butyl ether		ND		0.96	2.4
Methylcyclohexane		ND		0.96	2.4
Methylene Chloride		ND		4.7	9.6
m-Xylene & p-Xylene		ND		0.96	4.8
Naphthalene		ND		0.96	24
N-Propylbenzene		ND		0.96	2.4
o-Xylene		ND		0.96	2.4
4-Isopropyltoluene		ND		0.96	2.4
sec-Butylbenzene		ND		0.96	2.4
Styrene		ND		0.96	2.4
Tert-amyl methyl ether		ND		0.96	2.4
tert-Butylbenzene		ND		0.96	2.4
Tetrachloroethene		ND		0.96	2.4
Tetrahydrofuran		ND		5.3	24
Toluene		ND		0.96	2.4
trans-1,2-Dichloroethene		ND		0.96	2.4
trans-1,3-Dichloropropene		ND		0.96	2.4
Trichloroethene		ND		0.96	2.4
Trichlorofluoromethane		ND		0.96	4.8
Vinyl chloride		ND		0.96	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	100		70 - 130

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-408-0.0/1.0-XXX**

Lab Sample ID: 360-24582-13
Client Matrix: Solid % Moisture: 15.8

Date Sampled: 09/15/2009 0930
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45099.D
Dilution:	1.0			Initial Weight/Volume:	6.18 g
Date Analyzed:	09/17/2009 1830			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	13.32	6.1	T J

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-409-0.0/1.0-XXX**

Lab Sample ID: 360-24582-14
Client Matrix: Solid % Moisture: 3.7

Date Sampled: 09/15/2009 1000
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45100.D
Dilution:	1.0			Initial Weight/Volume:	5.25 g
Date Analyzed:	09/17/2009 1856			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	4.9
2,4,4-Trimethyl-2-pentene		ND		0.99	4.9
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	4.9
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	4.9
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	4.9
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		0.99	2.5

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Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-409-0.0/1.0-XXX**

Lab Sample ID: 360-24582-14
Client Matrix: Solid % Moisture: 3.7

Date Sampled: 09/15/2009 1000
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101	Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099	Lab File ID:	V45100.D
Dilution:	1.0		Initial Weight/Volume:	5.25 g
Date Analyzed:	09/17/2009 1856		Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND	J	0.99	4.9
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	4.9
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		ND		5.4	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	4.9
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	104		70 - 130

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-409-0.0/1.0-XXX**

Lab Sample ID: 360-24582-14
Client Matrix: Solid % Moisture: 3.7

Date Sampled: 09/15/2009 1000
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45100.D
Dilution:	1.0			Initial Weight/Volume:	5.25 g
Date Analyzed:	09/17/2009 1856			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.03	2.2	T J

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-411-0.0/1.0-XXX**

Lab Sample ID: 360-24582-16
Client Matrix: Solid % Moisture: 58.9

Date Sampled: 09/15/2009 1055
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45101.D
Dilution:	1.0			Initial Weight/Volume:	3.06 g
Date Analyzed:	09/17/2009 1920			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		4.0	9.9
1,1,1-Trichloroethane		ND		4.0	9.9
1,1,2,2-Tetrachloroethane		ND		4.0	9.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.0	50
1,1,2-Trichloroethane		ND		4.0	9.9
1,1-Dichloroethane		ND		4.0	9.9
1,1-Dichloroethene		ND		4.0	9.9
1,1-Dichloropropene		ND		4.0	9.9
1,2,3-Trichlorobenzene		ND		4.0	9.9
1,2,3-Trichloropropane		ND		5.9	9.9
1,2,4-Trichlorobenzene		ND		4.0	9.9
1,2,4-Trimethylbenzene		ND		4.0	9.9
1,2-Dibromo-3-Chloropropane		ND		7.1	99
Ethylene Dibromide		ND		4.0	9.9
1,2-Dichlorobenzene		ND		4.0	9.9
1,2-Dichloroethane		ND		4.0	9.9
Acetone		ND	J	71	990
1,2-Dichloropropane		ND		4.0	9.9
1,3,5-Trimethylbenzene		ND		4.0	9.9
1,3-Dichlorobenzene		ND		4.0	9.9
1,3-Dichloropropane		ND		4.0	9.9
1,4-Dichlorobenzene		ND		4.0	9.9
1,4-Dioxane		ND	J	130	990
2,2-Dichloropropane		ND		4.0	9.9
2,4,4-Trimethyl-1-pentene		ND		4.0	20
2,4,4-Trimethyl-2-pentene		ND		4.0	20
2-Chlorotoluene		ND		4.0	9.9
2-Hexanone		ND		20	99
4-Chlorotoluene		ND		4.0	9.9
Benzene		ND		4.0	9.9
Bromobenzene		ND		4.0	9.9
Chlorobromomethane		ND		4.0	9.9
Dichlorobromomethane		ND		4.0	9.9
Bromoform		ND		4.0	9.9
Bromomethane		ND		4.0	20
n-Butylbenzene		ND		4.0	9.9
Carbon disulfide		ND		4.0	9.9
Carbon tetrachloride		ND		4.0	9.9
Chlorobenzene		ND		4.0	9.9
Chloroethane		ND		4.0	20
Chloroform		ND		4.0	9.9
Chloromethane		ND		4.0	20
cis-1,2-Dichloroethene		ND		4.0	9.9
cis-1,3-Dichloropropene		ND		4.0	9.9
Cyclohexane		ND		10	99
Chlorodibromomethane		ND		4.0	9.9

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Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-411-0.0/1.0-XXX**

Lab Sample ID: 360-24582-16
Client Matrix: Solid % Moisture: 58.9

Date Sampled: 09/15/2009 1055
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45101.D
Dilution:	1.0			Initial Weight/Volume:	3.06 g
Date Analyzed:	09/17/2009 1920			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		4.0	9.9
Dichlorodifluoromethane		ND J	✓	4.0	20
Ethyl ether		ND		4.0	9.9
Isopropyl ether		ND		4.0	9.9
Tert-butyl ethyl ether		ND		9.9	9.9
Ethylbenzene		ND		4.0	9.9
Hexachlorobutadiene		ND		4.0	9.9
Isopropylbenzene		ND		4.0	9.9
Methyl acetate		ND		65	200
2-Butanone (MEK)		ND		27	99
4-Methyl-2-pentanone (MIBK)		ND		21	99
Methyl tert-butyl ether		ND		4.0	9.9
Methylcyclohexane		ND		4.0	9.9
Methylene Chloride		ND		19	40
m-Xylene & p-Xylene		ND		4.0	20
Naphthalene		ND		4.0	99
N-Propylbenzene		ND		4.0	9.9
o-Xylene		ND		4.0	9.9
4-Isopropyltoluene		ND		4.0	9.9
sec-Butylbenzene		ND		4.0	9.9
Styrene		ND		4.0	9.9
Tert-amyl methyl ether		ND		4.0	9.9
tert-Butylbenzene		ND		4.0	9.9
Tetrachloroethene		ND		4.0	9.9
Tetrahydrofuran		ND		22	99
Toluene		ND		4.0	9.9
trans-1,2-Dichloroethene		ND		4.0	9.9
trans-1,3-Dichloropropene		ND		4.0	9.9
Trichloroethene		ND		4.0	9.9
Trichlorofluoromethane		ND		4.0	20
Vinyl chloride		ND		4.0	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	101		70 - 130

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-411-0.0/1.0-XXX**

Lab Sample ID: 360-24582-16
Client Matrix: Solid % Moisture: 58.9

Date Sampled: 09/15/2009 1055
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45101.D
Dilution:	1.0			Initial Weight/Volume:	3.06 g
Date Analyzed:	09/17/2009 1920			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-412-0.0/1.0-XXX**

Lab Sample ID: 360-24582-17
Client Matrix: Solid % Moisture: 8.2

Date Sampled: 09/15/2009 1120
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45102.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	09/17/2009 1945			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND		1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND		1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.4
2,4,4-Trimethyl-2-pentene		ND		1.1	5.4
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.4
n-Butylbenzene		ND		1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.4
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.4
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.8	27
Chlorodibromomethane		ND		1.1	2.7

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-412-0.0/1.0-XXX**

Lab Sample ID: 360-24582-17
Client Matrix: Solid % Moisture: 8.2

Date Sampled: 09/15/2009 1120
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45102.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	09/17/2009 1945			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND	J	1.1	5.4
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		17	54
2-Butanone (MEK)		ND		7.3	27
4-Methyl-2-pentanone (MIBK)		ND		5.6	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.2	11
m-Xylene & p-Xylene		ND		1.1	5.4
Naphthalene		ND		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.9	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.4
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-412-0.0/1.0-XXX**

Lab Sample ID: 360-24582-17
Client Matrix: Solid % Moisture: 8.2

Date Sampled: 09/15/2009 1120
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45102.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	09/17/2009 1945			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.04	4.8	T J

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Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-414-0.0/1.0-XXX**

Lab Sample ID: 360-24582-19
Client Matrix: Solid % Moisture: 6.9

Date Sampled: 09/15/2009 1155
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45103.D
Dilution:	1.0			Initial Weight/Volume:	5.13 g
Date Analyzed:	09/17/2009 2009			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	35	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-414-0.0/1.0-XXX**

Lab Sample ID: 360-24582-19
Client Matrix: Solid % Moisture: 6.9

Date Sampled: 09/15/2009 1155
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45103.D
Dilution:	1.0			Initial Weight/Volume:	5.13 g
Date Analyzed:	09/17/2009 2009			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND J	✓	1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	52
2-Butanone (MEK)		ND		7.1	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.1	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.8	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TC
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Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-414-0.0/1.0-XXX**

Lab Sample ID: 360-24582-19
Client Matrix: Solid % Moisture: 6.9

Date Sampled: 09/15/2009 1155
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45103.D
Dilution:	1.0			Initial Weight/Volume:	5.13 g
Date Analyzed:	09/17/2009 2009			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.03	7.7	T J

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-415-0.0/1.0-XXX**

Lab Sample ID: 360-24582-20
Client Matrix: Solid % Moisture: 57.4

Date Sampled: 09/15/2009 1215
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45104.D
Dilution:	1.0			Initial Weight/Volume:	3.73 g
Date Analyzed:	09/17/2009 2033			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		3.1	7.9
1,1,1-Trichloroethane		ND		3.1	7.9
1,1,2,2-Tetrachloroethane		ND		3.1	7.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		3.1	39
1,1,2-Trichloroethane		ND		3.1	7.9
1,1-Dichloroethane		ND		3.1	7.9
1,1-Dichloroethene		ND		3.1	7.9
1,1-Dichloropropene		ND		3.1	7.9
1,2,3-Trichlorobenzene		ND		3.1	7.9
1,2,3-Trichloropropane		ND		4.6	7.9
1,2,4-Trichlorobenzene		ND		3.1	7.9
1,2,4-Trimethylbenzene		ND		3.1	7.9
1,2-Dibromo-3-Chloropropane		ND		5.7	79
Ethylene Dibromide		ND		3.1	7.9
1,2-Dichlorobenzene		ND		3.1	7.9
1,2-Dichloroethane		ND		3.1	7.9
Acetone		ND	J	56	790
1,2-Dichloropropane		ND		3.1	7.9
1,3,5-Trimethylbenzene		ND		3.1	7.9
1,3-Dichlorobenzene		ND		3.1	7.9
1,3-Dichloropropane		ND		3.1	7.9
1,4-Dichlorobenzene		ND		3.1	7.9
1,4-Dioxane		ND	J	100	790
2,2-Dichloropropane		ND		3.1	7.9
2,4,4-Trimethyl-1-pentene		ND		3.1	16
2,4,4-Trimethyl-2-pentene		ND		3.1	16
2-Chlorotoluene		ND		3.1	7.9
2-Hexanone		ND		16	79
4-Chlorotoluene		ND		3.1	7.9
Benzene		ND		3.1	7.9
Bromobenzene		ND		3.1	7.9
Chlorobromomethane		ND		3.1	7.9
Dichlorobromomethane		ND		3.1	7.9
Bromoform		ND		3.1	7.9
Bromomethane		ND		3.1	16
n-Butylbenzene		ND		3.1	7.9
Carbon disulfide		ND		3.1	7.9
Carbon tetrachloride		ND		3.1	7.9
Chlorobenzene		ND		3.1	7.9
Chloroethane		ND		3.1	16
Chloroform		ND		3.1	7.9
Chloromethane		ND		3.1	16
cis-1,2-Dichloroethene		ND		3.1	7.9
cis-1,3-Dichloropropene		ND		3.1	7.9
Cyclohexane		ND		8.1	79
Chlorodibromomethane		ND		3.1	7.9

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-415-0.0/1.0-XXX**

Lab Sample ID: 360-24582-20
Client Matrix: Solid % Moisture: 57.4

Date Sampled: 09/15/2009 1215
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45104.D
Dilution:	1.0			Initial Weight/Volume:	3.73 g
Date Analyzed:	09/17/2009 2033			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		3.1	7.9
Dichlorodifluoromethane		ND	J	3.1	16
Ethyl ether		ND		3.1	7.9
Isopropyl ether		ND		3.1	7.9
Tert-butyl ethyl ether		ND		7.9	7.9
Ethylbenzene		ND		3.1	7.9
Hexachlorobutadiene		ND		3.1	7.9
Isopropylbenzene		ND		3.1	7.9
Methyl acetate		ND		51	160
2-Butanone (MEK)		ND		21	79
4-Methyl-2-pentanone (MIBK)		ND		16	79
Methyl tert-butyl ether		ND		3.1	7.9
Methylcyclohexane		ND		3.1	7.9
Methylene Chloride		ND		15	31
m-Xylene & p-Xylene		ND		3.1	16
Naphthalene		ND		3.1	79
N-Propylbenzene		ND		3.1	7.9
o-Xylene		ND		3.1	7.9
4-Isopropyltoluene		ND		3.1	7.9
sec-Butylbenzene		ND		3.1	7.9
Styrene		ND		3.1	7.9
Tert-amyl methyl ether		ND		3.1	7.9
tert-Butylbenzene		ND		3.1	7.9
Tetrachloroethene		ND		3.1	7.9
Tetrahydrofuran		ND		17	79
Toluene		ND		3.1	7.9
trans-1,2-Dichloroethene		ND		3.1	7.9
trans-1,3-Dichloropropene		ND		3.1	7.9
Trichloroethene		ND		3.1	7.9
Trichlorofluoromethane		ND		3.1	16
Vinyl chloride		ND		3.1	7.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	99		70 - 130

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Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-415-0.0/1.0-XXX**

Lab Sample ID: 360-24582-20
Client Matrix: Solid % Moisture: 57.4

Date Sampled: 09/15/2009 1215
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45104.D
Dilution:	1.0			Initial Weight/Volume:	3.73 g
Date Analyzed:	09/17/2009 2033			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.04	17	T J

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-416-0.0/1.0-DUP**

Lab Sample ID: 360-24582-21
Client Matrix: Solid
% Moisture: 8.5

Date Sampled: 09/15/2009 1240
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45105.D
Dilution:	1.0			Initial Weight/Volume:	5.15 g
Date Analyzed:	09/17/2009 2057			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.7
1,1,1-Trichloroethane		ND		1.1	2.7
1,1,2,2-Tetrachloroethane		ND		1.1	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.7
1,1-Dichloroethane		ND		1.1	2.7
1,1-Dichloroethene		ND		1.1	2.7
1,1-Dichloropropene		ND		1.1	2.7
1,2,3-Trichlorobenzene		ND	J	1.1	2.7
1,2,3-Trichloropropane		ND		1.6	2.7
1,2,4-Trichlorobenzene		ND	J	1.1	2.7
1,2,4-Trimethylbenzene		ND		1.1	2.7
1,2-Dibromo-3-Chloropropane		ND		1.9	27
Ethylene Dibromide		ND		1.1	2.7
1,2-Dichlorobenzene		ND		1.1	2.7
1,2-Dichloroethane		ND		1.1	2.7
Acetone		ND	J	19	270
1,2-Dichloropropane		ND		1.1	2.7
1,3,5-Trimethylbenzene		ND		1.1	2.7
1,3-Dichlorobenzene		ND		1.1	2.7
1,3-Dichloropropane		ND		1.1	2.7
1,4-Dichlorobenzene		ND		1.1	2.7
1,4-Dioxane		ND	J	35	270
2,2-Dichloropropane		ND		1.1	2.7
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.7
2-Hexanone		ND		5.5	27
4-Chlorotoluene		ND		1.1	2.7
Benzene		ND		1.1	2.7
Bromobenzene		ND		1.1	2.7
Chlorobromomethane		ND		1.1	2.7
Dichlorobromomethane		ND		1.1	2.7
Bromoform		ND		1.1	2.7
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND	J	1.1	2.7
Carbon disulfide		ND		1.1	2.7
Carbon tetrachloride		ND		1.1	2.7
Chlorobenzene		ND		1.1	2.7
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.7
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.7
cis-1,3-Dichloropropene		ND		1.1	2.7
Cyclohexane		ND		2.7	27
Chlorodibromomethane		ND		1.1	2.7

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-416-0.0/1.0-DUP**

Lab Sample ID: 360-24582-21
Client Matrix: Solid % Moisture: 8.5

Date Sampled: 09/15/2009 1240
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45105.D
Dilution:	1.0			Initial Weight/Volume:	5.15 g
Date Analyzed:	09/17/2009 2057			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.7
Dichlorodifluoromethane		ND J		1.1	5.3
Ethyl ether		ND		1.1	2.7
Isopropyl ether		ND		1.1	2.7
Tert-butyl ethyl ether		ND		2.7	2.7
Ethylbenzene		ND		1.1	2.7
Hexachlorobutadiene		ND J		1.1	2.7
Isopropylbenzene		ND		1.1	2.7
Methyl acetate		ND		17	53
2-Butanone (MEK)		ND		7.2	27
4-Methyl-2-pentanone (MIBK)		ND		5.5	27
Methyl tert-butyl ether		ND		1.1	2.7
Methylcyclohexane		ND		1.1	2.7
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND J		1.1	27
N-Propylbenzene		ND		1.1	2.7
o-Xylene		ND		1.1	2.7
4-Isopropyltoluene		ND		1.1	2.7
sec-Butylbenzene		ND		1.1	2.7
Styrene		ND		1.1	2.7
Tert-amyl methyl ether		ND		1.1	2.7
tert-Butylbenzene		ND		1.1	2.7
Tetrachloroethene		ND		1.1	2.7
Tetrahydrofuran		ND		5.8	27
Toluene		ND		1.1	2.7
trans-1,2-Dichloroethene		ND		1.1	2.7
trans-1,3-Dichloropropene		ND		1.1	2.7
Trichloroethene		ND		1.1	2.7
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-416-0.0/1.0-DUP**

Lab Sample ID: 360-24582-21
Client Matrix: Solid % Moisture: 8.5

Date Sampled: 09/15/2009 1240
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49101		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49099		Lab File ID:	V45105.D
Dilution:	1.0			Initial Weight/Volume:	5.15 g
Date Analyzed:	09/17/2009 2057			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.66	1.8	T J

TC 4/13/10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-416-0.0/1.0-XXX**

Lab Sample ID: 360-24582-22
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 09/15/2009 1240
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45145.D
Dilution:	1.0			Initial Weight/Volume:	5.20 g
Date Analyzed:	09/18/2009 1911			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.6
1,1,1-Trichloroethane		ND		1.1	2.6
1,1,2,2-Tetrachloroethane		ND		1.1	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	13
1,1,2-Trichloroethane		ND		1.1	2.6
1,1-Dichloroethane		ND		1.1	2.6
1,1-Dichloroethene		ND		1.1	2.6
1,1-Dichloropropene		ND		1.1	2.6
1,2,3-Trichlorobenzene		ND	J	1.1	2.6
1,2,3-Trichloropropane		ND		1.6	2.6
1,2,4-Trichlorobenzene		ND	J	1.1	2.6
1,2,4-Trimethylbenzene		ND		1.1	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.1	2.6
1,2-Dichlorobenzene		ND		1.1	2.6
1,2-Dichloroethane		ND		1.1	2.6
Acetone		ND	J	19	260
1,2-Dichloropropane		ND		1.1	2.6
1,3,5-Trimethylbenzene		ND		1.1	2.6
1,3-Dichlorobenzene		ND		1.1	2.6
1,3-Dichloropropane		ND		1.1	2.6
1,4-Dichlorobenzene		ND		1.1	2.6
1,4-Dioxane		ND	J	35	260
2,2-Dichloropropane		ND		1.1	2.6
2,4,4-Trimethyl-1-pentene		ND		1.1	5.3
2,4,4-Trimethyl-2-pentene		ND		1.1	5.3
2-Chlorotoluene		ND		1.1	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.1	2.6
Benzene		ND		1.1	2.6
Bromobenzene		ND		1.1	2.6
Chlorobromomethane		ND		1.1	2.6
Dichlorobromomethane		ND		1.1	2.6
Bromoform		ND		1.1	2.6
Bromomethane		ND		1.1	5.3
n-Butylbenzene		ND	J	1.1	2.6
Carbon disulfide		ND		1.1	2.6
Carbon tetrachloride		ND		1.1	2.6
Chlorobenzene		ND		1.1	2.6
Chloroethane		ND		1.1	5.3
Chloroform		ND		1.1	2.6
Chloromethane		ND		1.1	5.3
cis-1,2-Dichloroethene		ND		1.1	2.6
cis-1,3-Dichloropropene		ND		1.1	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.1	2.6

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-416-0.0/1.0-XXX**

Lab Sample ID: 360-24582-22
Client Matrix: Solid % Moisture: 8.8

Date Sampled: 09/15/2009 1240
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45145.D
Dilution:	1.0			Initial Weight/Volume:	5.20 g
Date Analyzed:	09/18/2009 1911			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.6
Dichlorodifluoromethane		ND	J	1.1	5.3
Ethyl ether		ND		1.1	2.6
Isopropyl ether		ND		1.1	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.1	2.6
Hexachlorobutadiene		ND	J	1.1	2.6
Isopropylbenzene		ND		1.1	2.6
Methyl acetate		ND		17	53
2-Butanone (MEK)		ND		7.1	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.1	2.6
Methylcyclohexane		ND		1.1	2.6
Methylene Chloride		ND		5.1	11
m-Xylene & p-Xylene		ND		1.1	5.3
Naphthalene		ND	J	1.1	26
N-Propylbenzene		ND		1.1	2.6
o-Xylene		ND		1.1	2.6
4-Isopropyltoluene		ND		1.1	2.6
sec-Butylbenzene		ND		1.1	2.6
Styrene		ND		1.1	2.6
Tert-amyl methyl ether		ND		1.1	2.6
tert-Butylbenzene		ND		1.1	2.6
Tetrachloroethene		ND		1.1	2.6
Tetrahydrofuran		ND		5.8	26
Toluene		ND		1.1	2.6
trans-1,2-Dichloroethene		ND		1.1	2.6
trans-1,3-Dichloropropene		ND		1.1	2.6
Trichloroethene		ND		1.1	2.6
Trichlorofluoromethane		ND		1.1	5.3
Vinyl chloride		ND		1.1	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	104		70 - 130

4/13/10 FC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-SS-416-0.0/1.0-XXX**

Lab Sample ID: 360-24582-22
Client Matrix: Solid % Moisture: 8.8

Date Sampled: 09/15/2009 1240
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45145.D
Dilution:	1.0			Initial Weight/Volume:	5.20 g
Date Analyzed:	09/18/2009 1911			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.05	4.5	T J

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-TBK-019**

Lab Sample ID: 360-24582-23TB
Client Matrix: Solid

Date Sampled: 09/15/2009 1200
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45146.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/18/2009 1935			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-TBK-019**

Lab Sample ID: 360-24582-23TB
Client Matrix: Solid

Date Sampled: 09/15/2009 1200
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45146.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/18/2009 1935			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND	*	16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	101		70 - 130

4/13/10 TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Client Sample ID: **OC-TBK-019**

Lab Sample ID: 360-24582-23TB
Client Matrix: Solid

Date Sampled: 09/15/2009 1200
Date Received: 09/15/2009 1640

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45146.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/18/2009 1935			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	1.4	T J

4/13/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab File ID: V06680.D BFB Injection Date: 09/03/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:33

Analysis Batch No.: 48601

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.7	
75	30.0 - 60.0 % of mass 95	55.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	67.6	
175	5.0 - 9.0 % of mass 174	4.9	(7.3)1
176	95.0 - 101.0 % of mass 174	65.1	(96.3)1
177	5.0 - 9.0 % of mass 176	4.2	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD03 360-48601/4	V06683.D	09/03/2009	17:36
	STD05 360-48601/5	V06684.D	09/03/2009	17:57
	STD1 360-48601/6	V06685.D	09/03/2009	18:18
	STD5 360-48601/7	V06686.D	09/03/2009	18:38
	STD10 360-48601/8	V06687.D	09/03/2009	18:59
	STD40 360-48601/9	V06688.D	09/03/2009	19:20
	STD80 360-48601/10	V06689.D	09/03/2009	19:41
	STD160 360-48601/11	V06690.D	09/03/2009	20:02

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab File ID: V06970.D BFB Injection Date: 09/17/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:05

Analysis Batch No.: 49119

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.6	
75	30.0 - 60.0 % of mass 95	51.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.9	(1.2)1
174	50.0 - 120.00 % of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	5.8	(7.2)1
176	95.0 - 101.0 % of mass 174	76.4	(95.4)1
177	5.0 - 9.0 % of mass 176	5.0	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49119/2	V06971.D	09/17/2009	16:26
	LCS 360-49119/3	V06972.D	09/17/2009	16:47
	LCSD 360-49119/4	V06973.D	09/17/2009	17:07
	MB 360-49119/6	V06975.D	09/17/2009	17:49
OC-EBK-010	360-24582-4	V06983.D	09/17/2009	20:38

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

1,4-Dioxane UJ Avg RRF > 0.05

Acetone
dichlorodifluoromethane } UJ ICV >30%

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab File ID: V45047.D BFB Injection Date: 09/16/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:13

Analysis Batch No.: 49049

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.7	
75	30.0 - 60.0 % of mass 95	50.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	69.2	
175	5.0 - 9.0 % of mass 174	5.7	(8.2)1
176	95.0 - 101.0 % of mass 174	67.4	(97.4)1
177	5.0 - 9.0 % of mass 176	4.3	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49049/2	V45048.D	09/16/2009	16:37
	LCS 360-49046/1-A	V45049.D	09/16/2009	17:01
	LCSD 360-49046/2-A	V45050.D	09/16/2009	17:25
	MB 360-49046/3-A	V45054.D	09/16/2009	18:58
OC-SB-457-28/30-XXX	360-24582-1	V45058.D	09/16/2009	20:34
OC-TBK-018	360-24582-2	V45059.D	09/16/2009	20:58

Acetone 25.8 %D

Unknown @ 10.36 min 1.22 ug/kg

2,2-Dichloropropane RPD 31% no Qual

Dichlorodifluoromethane LCS 46% LCSD 56%

4-11-10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab File ID: V45086.D BFB Injection Date: 09/17/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 13:02

Analysis Batch No.: 49101

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.6	
75	30.0 - 60.0 % of mass 95	51.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.2	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	64.3	(95.7)1
177	5.0 - 9.0 % of mass 176	4.4	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49101/2	V45087.D	09/17/2009	13:26
	LCS 360-49099/1-A	V45088.D	09/17/2009	13:51
	LCSD 360-49099/2-A	V45089.D	09/17/2009	14:15
	MB 360-49099/3-A	V45091.D	09/17/2009	15:02
OC-SS-400-0.0/1.0-XXX	360-24582-5	V45092.D	09/17/2009	15:26
OC-SS-401-0.1/1.0-XXX	360-24582-6	V45093.D	09/17/2009	16:09
OC-SS-402-0.0/1.0-XXX	360-24582-7	V45094.D	09/17/2009	16:33
OC-SS-404-0.0/1.0-XXX	360-24582-9	V45095.D	09/17/2009	16:57
OC-SS-405-0.0/1.0-XXX	360-24582-10	V45096.D	09/17/2009	17:20
OC-SS-406-0.0/1.0.-XXX	360-24582-11	V45097.D	09/17/2009	17:44
OC-SS-407-0.0/1.0-XXX	360-24582-12	V45098.D	09/17/2009	18:07
OC-SS-408-0.0/1.0-XXX	360-24582-13	V45099.D	09/17/2009	18:30
OC-SS-409-0.0/1.0-XXX	360-24582-14	V45100.D	09/17/2009	18:56
OC-SS-411-0.0/1.0-XXX	360-24582-16	V45101.D	09/17/2009	19:20
OC-SS-412-0.0/1.0-XXX	360-24582-17	V45102.D	09/17/2009	19:45
OC-SS-414-0.0/1.0-XXX	360-24582-19	V45103.D	09/17/2009	20:09
OC-SS-415-0.0/1.0-XXX	360-24582-20	V45104.D	09/17/2009	20:33
OC-SS-416-0.0/1.0-DUP	360-24582-21	V45105.D	09/17/2009	20:57

Unknown @ 2.84 min
NO Quals

Acetone 27.2

Dichlorodifluoromethane LCS 51 LCSD 65

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab File ID: V45136.D BFB Injection Date: 09/18/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:34

Analysis Batch No.: 49180

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.3	
75	30.0 - 60.0 % of mass 95	51.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.5	
175	5.0 - 9.0 % of mass 174	5.2	(8.1)1
176	95.0 - 101.0 % of mass 174	61.8	(97.4)1
177	5.0 - 9.0 % of mass 176	4.2	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49180/2	V45137.D	09/18/2009	15:58
	LCS 360-49178/1-A	V45138.D	09/18/2009	16:23
	LCSD 360-49178/2-A	V45139.D	09/18/2009	16:47
OC-SS-416-0.0/1.0-XXX MS	360-24582-22 MS	V45140.D	09/18/2009	17:11
OC-SS-416-0.0/1.0-XXX MSD	360-24582-22 MSD	V45141.D	09/18/2009	17:35
	MB 360-49178/3-A	V45143.D	09/18/2009	18:22
OC-SS-416-0.0/1.0-XXX	360-24582-22	V45145.D	09/18/2009	19:11
OC-TBK-019	360-24582-23	V45146.D	09/18/2009	19:35

w/in control

LCS LCSD

Dichlorodifluoromethane 60 60

Methyl Acetate 135 139

clean

MS MSD

123 Trichlorobenzene 63 55

124 Trichlorobenzene 63 54

n-butylbenzene 65

Dichlorodifluoromethane 62 62

Hexachlorobutadiene 52 44

Methyl Acetate 143 160

Naphthalene 68 64

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
360-24582-1	OC-SB-457-28/30-XXX	97	98	102
360-24582-2	OC-TBK-018	97	99	102
360-24582-5	OC-SS-400-0.0/1.0-XXX	100	104	100
360-24582-6	OC-SS-401-0.1/1.0-XXX	94	99	99
360-24582-7	OC-SS-402-0.0/1.0-XXX	95	103	100
360-24582-9	OC-SS-404-0.0/1.0-XXX	101	104	100
360-24582-10	OC-SS-405-0.0/1.0-XXX	102	103	100
360-24582-11	OC-SS-406-0.0/1.0.-XXX	102	104	98
360-24582-12	OC-SS-407-0.0/1.0-XXX	103	101	101
360-24582-13	OC-SS-408-0.0/1.0-XXX	102	101	100
360-24582-14	OC-SS-409-0.0/1.0-XXX	92	99	104
360-24582-16	OC-SS-411-0.0/1.0-XXX	100	105	101
360-24582-17	OC-SS-412-0.0/1.0-XXX	95	99	103
360-24582-19	OC-SS-414-0.0/1.0-XXX	101	103	102
360-24582-20	OC-SS-415-0.0/1.0-XXX	92	103	99
360-24582-21	OC-SS-416-0.0/1.0-DUP	97	101	102
360-24582-22	OC-SS-416-0.0/1.0-XXX	91	97	104
360-24582-23	OC-TBK-019	102	103	101
MB 360-49046/3-A		105	100	101
MB 360-49099/3-A		103	101	99

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
MB 360-49178/3-A		101	99	101
LCS 360-49046/1-A		90	93	106
LCS 360-49099/1-A		90	94	106
LCS 360-49178/1-A		96	98	101
LCSD 360-49046/2-A		96	102	102
LCSD 360-49099/2-A		97	99	101
LCSD 360-49178/2-A		96	99	100
360-24582-22 MS	OC-SS-416-0.0/1.0-XX MS	92	100	102
360-24582-22 MSD	OC-SS-416-0.0/1.0-XX MSD	94	99	99

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
360-24582-4	OC-EBK-010	87	127	93
MB 360-49119/6		85	112	96
LCS 360-49119/3		98	100	103
LCSD 360-49119/4		98	101	104

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

4-11-10
Tc

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Method Blank - Batch: 360-49046

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49046/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/16/2009 1858
Date Prepared: 09/16/2009 1532

Analysis Batch: 360-49049
Prep Batch: 360-49046
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45054.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
4-Chlorotoluene	ND		1.0	2.5
Acetone	ND		18	250
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Method Blank - Batch: 360-49046

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49046/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/16/2009 1858
Date Prepared: 09/16/2009 1532

Analysis Batch: 360-49049
Prep Batch: 360-49046
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45054.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	105	70 - 130
Dibromofluoromethane	100	70 - 130
Toluene-d8 (Surr)	101	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Method Blank TICs- Batch: 360-49046

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	10.36	1.22	T J

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49046

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49046/1-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45049.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1701			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

LCSD Lab Sample ID:	LCSD 360-49046/2-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45050.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1725			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	83	97	70 - 130	15	25		
1,1,1,2-Tetrachloroethane	89	103	70 - 130	14	25		
1,1,2,2-Tetrachloroethane	82	88	70 - 130	7	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	79	89	70 - 130	12	25		
1,1,2-Trichloroethane	91	92	70 - 130	0	25		
1,1-Dichloroethane	90	102	70 - 130	13	25		
1,1-Dichloroethene	85	101	70 - 130	17	25		
1,1-Dichloropropene	88	91	70 - 130	3	25		
1,2,3-Trichlorobenzene	96	93	70 - 130	3	25		
1,2,3-Trichloropropane	93	107	70 - 130	13	25		
1,2,4-Trichlorobenzene	97	96	70 - 130	2	25		
1,2,4-Trimethylbenzene	84	97	70 - 130	14	25		
1,2-Dibromo-3-Chloropropane	82	88	70 - 130	7	25		
Ethylene Dibromide	92	91	70 - 130	1	25		
1,2-Dichlorobenzene	92	93	70 - 130	2	25		
1,2-Dichloroethane	89	92	70 - 130	4	25		
1,2-Dichloropropane	102	106	70 - 130	4	25		
1,3,5-Trimethylbenzene	88	100	70 - 130	12	25		
1,3-Dichlorobenzene	83	96	70 - 130	14	25		
1,3-Dichloropropane	92	89	70 - 130	4	25		
1,4-Dichlorobenzene	93	93	70 - 130	1	25		
1,4-Dioxane	102	119	70 - 130	16	25		
2,2-Dichloropropane	93	128	70 - 130	31	25		*
2,4,4-Trimethyl-1-pentene	87	100	70 - 130	14	25		
2,4,4-Trimethyl-2-pentene	85	91	70 - 130	7	25		
2-Chlorotoluene	85	96	70 - 130	12	25		
2-Hexanone	82	83	70 - 130	1	25		
4-Chlorotoluene	86	95	70 - 130	10	25		
Acetone	83	106	70 - 130	24	25		
Benzene	92	96	70 - 130	4	25		
Bromobenzene	82	92	70 - 130	11	25		
Chlorobromomethane	84	94	70 - 130	11	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49046

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49046/1-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45049.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1701			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

LCSD Lab Sample ID:	LCSD 360-49046/2-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45050.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1725			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	92	90	70 - 130	3	25		
Bromoform	86	82	70 - 130	5	25		
Bromomethane	93	115	70 - 130	21	25		
n-Butylbenzene	98	98	70 - 130	1	25		
Carbon disulfide	83	99	70 - 130	17	25		
Carbon tetrachloride	83	94	70 - 130	12	25		
Chlorobenzene	95	96	70 - 130	0	25		
Chloroethane	84	104	70 - 130	21	25		
Chloroform	88	99	70 - 130	12	25		
Chloromethane	81	98	70 - 130	19	25		
cis-1,2-Dichloroethene	86	97	70 - 130	12	25		
cis-1,3-Dichloropropene	95	87	70 - 130	8	25		
Cyclohexane	79	92	70 - 130	15	25		
Chlorodibromomethane	88	86	70 - 130	2	25		
Dibromomethane	90	92	70 - 130	3	25		
Dichlorodifluoromethane	46	56	70 - 130	20	25	*	*
Ethyl ether	86	100	70 - 130	15	25		
Isopropyl ether	80	96	70 - 130	18	25		
Tert-butyl ethyl ether	79	99	70 - 130	23	25		
Ethylbenzene	99	102	70 - 130	4	25		
Hexachlorobutadiene	99	92	70 - 130	7	25		
Isopropylbenzene	91	100	70 - 130	9	25		
Methyl acetate	97	119	70 - 130	20	25		
2-Butanone (MEK)	83	89	70 - 130	7	25		
4-Methyl-2-pentanone (MIBK)	80	93	70 - 130	15	25		
Methyl tert-butyl ether	76	96	70 - 130	24	25		
Methylcyclohexane	81	93	70 - 130	13	25		
Methylene Chloride	90	109	70 - 130	18	25		
m-Xylene & p-Xylene	92	95	70 - 130	4	25		
Naphthalene	84	84	70 - 130	0	25		
N-Propylbenzene	89	98	70 - 130	9	25		
o-Xylene	88	97	70 - 130	10	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49046

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49046/1-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45049.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1701			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

LCSD Lab Sample ID:	LCSD 360-49046/2-A	Analysis Batch:	360-49049	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49046	Lab File ID:	V45050.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/16/2009 1725			Final Weight/Volume:	5 g
Date Prepared:	09/16/2009 1532				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	91	103	70 - 130	12	25		
sec-Butylbenzene	88	99	70 - 130	11	25		
Styrene	91	94	70 - 130	4	25		
Tert-amyl methyl ether	79	99	70 - 130	22	25		
tert-Butylbenzene	90	100	70 - 130	11	25		
Tetrachloroethene	104	94	70 - 130	10	25		
Tetrahydrofuran	94	107	70 - 130	13	25		
Toluene	101	98	70 - 130	3	25		
trans-1,2-Dichloroethene	81	95	70 - 130	16	25		
trans-1,3-Dichloropropene	95	89	70 - 130	6	25		
Trichloroethene	98	97	70 - 130	1	25		
Trichlorofluoromethane	76	86	70 - 130	13	25		
Vinyl chloride	78	92	70 - 130	16	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	90	96	70 - 130
Dibromofluoromethane	93	102	70 - 130
Toluene-d8 (Surr)	106	102	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Method Blank - Batch: 360-49099

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49099/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/17/2009 1502
Date Prepared: 09/17/2009 1218

Analysis Batch: 360-49101
Prep Batch: 360-49099
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45091.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
4-Chlorotoluene	ND		1.0	2.5
Acetone	ND		18	250
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Method Blank - Batch: 360-49099

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49099/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/17/2009 1502
Date Prepared: 09/17/2009 1218

Analysis Batch: 360-49101
Prep Batch: 360-49099
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45091.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	103	70 - 130
Dibromofluoromethane	101	70 - 130
Toluene-d8 (Surr)	99	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Method Blank TICs- Batch: 360-49099

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	2.84	2.87	T J

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49099

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49099/1-A	Analysis Batch:	360-49101	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49099	Lab File ID:	V45088.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/17/2009 1351			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

LCSD Lab Sample ID:	LCSD 360-49099/2-A	Analysis Batch:	360-49101	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49099	Lab File ID:	V45089.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/17/2009 1415			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	84	96	70 - 130	13	25		
1,1,1,2-Tetrachloroethane	88	104	70 - 130	16	25		
1,1,2,2-Tetrachloroethane	82	87	70 - 130	6	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	85	99	70 - 130	15	25		
1,1,2-Trichloroethane	93	92	70 - 130	2	25		
1,1-Dichloroethane	88	99	70 - 130	11	25		
1,1-Dichloroethene	88	100	70 - 130	13	25		
1,1-Dichloropropene	92	96	70 - 130	5	25		
1,2,3-Trichlorobenzene	95	99	70 - 130	5	25		
1,2,3-Trichloropropane	93	112	70 - 130	19	25		
1,2,4-Trichlorobenzene	96	100	70 - 130	4	25		
1,2,4-Trimethylbenzene	83	99	70 - 130	18	25		
1,2-Dibromo-3-Chloropropane	85	87	70 - 130	3	25		
Ethylene Dibromide	93	91	70 - 130	2	25		
1,2-Dichlorobenzene	89	94	70 - 130	6	25		
1,2-Dichloroethane	89	92	70 - 130	3	25		
1,2-Dichloropropane	101	105	70 - 130	3	25		
1,3,5-Trimethylbenzene	87	102	70 - 130	16	25		
1,3-Dichlorobenzene	82	99	70 - 130	19	25		
1,3-Dichloropropane	94	89	70 - 130	5	25		
1,4-Dichlorobenzene	91	94	70 - 130	4	25		
1,4-Dioxane	103	119	70 - 130	15	25		
2,2-Dichloropropane	91	110	70 - 130	19	25		
2,4,4-Trimethyl-1-pentene	94	111	70 - 130	16	25		
2,4,4-Trimethyl-2-pentene	92	105	70 - 130	12	25		
2-Chlorotoluene	83	96	70 - 130	14	25		
2-Hexanone	83	85	70 - 130	2	25		
4-Chlorotoluene	84	98	70 - 130	15	25		
Acetone	80	84	70 - 130	5	25		
Benzene	91	96	70 - 130	6	25		
Bromobenzene	80	92	70 - 130	14	25		
Chlorobromomethane	85	93	70 - 130	9	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49099

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49099/1-A	Analysis Batch:	360-49101	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49099	Lab File ID:	V45088.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/17/2009 1351			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

LCSD Lab Sample ID:	LCSD 360-49099/2-A	Analysis Batch:	360-49101	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49099	Lab File ID:	V45089.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/17/2009 1415			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	91	90	70 - 130	1	25		
Bromoform	89	84	70 - 130	5	25		
Bromomethane	91	109	70 - 130	18	25		
n-Butylbenzene	96	101	70 - 130	4	25		
Carbon disulfide	82	95	70 - 130	15	25		
Carbon tetrachloride	88	99	70 - 130	12	25		
Chlorobenzene	95	99	70 - 130	4	25		
Chloroethane	82	100	70 - 130	20	25		
Chloroform	87	98	70 - 130	11	25		
Chloromethane	79	95	70 - 130	19	25		
cis-1,2-Dichloroethene	85	95	70 - 130	12	25		
cis-1,3-Dichloropropene	95	89	70 - 130	6	25		
Cyclohexane	88	96	70 - 130	8	25		
Chlorodibromomethane	88	87	70 - 130	1	25		
Dibromomethane	90	93	70 - 130	3	25		
Dichlorodifluoromethane	51	65	70 - 130	24	25	*	*
Ethyl ether	88	96	70 - 130	9	25		
Isopropyl ether	79	91	70 - 130	14	25		
Tert-butyl ethyl ether	79	93	70 - 130	16	25		
Ethylbenzene	98	105	70 - 130	7	25		
Hexachlorobutadiene	100	101	70 - 130	0	25		
Isopropylbenzene	91	104	70 - 130	13	25		
Methyl acetate	107	114	70 - 130	7	25		
2-Butanone (MEK)	83	93	70 - 130	11	25		
4-Methyl-2-pentanone (MIBK)	80	92	70 - 130	14	25		
Methyl tert-butyl ether	76	91	70 - 130	18	25		
Methylcyclohexane	93	99	70 - 130	6	25		
Methylene Chloride	85	97	70 - 130	14	25		
m-Xylene & p-Xylene	91	99	70 - 130	8	25		
Naphthalene	84	88	70 - 130	5	25		
N-Propylbenzene	88	101	70 - 130	15	25		
o-Xylene	86	98	70 - 130	13	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-16 JC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49099

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49099/1-A	Analysis Batch:	360-49101	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49099	Lab File ID:	V45088.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/17/2009 1351			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

LCSD Lab Sample ID:	LCSD 360-49099/2-A	Analysis Batch:	360-49101	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49099	Lab File ID:	V45089.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/17/2009 1415			Final Weight/Volume:	5 g
Date Prepared:	09/17/2009 1218				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	90	107	70 - 130	18	25		
sec-Butylbenzene	88	105	70 - 130	18	25		
Styrene	88	95	70 - 130	8	25		
Tert-amyl methyl ether	81	95	70 - 130	16	25		
tert-Butylbenzene	89	106	70 - 130	17	25		
Tetrachloroethene	107	104	70 - 130	3	25		
Tetrahydrofuran	96	101	70 - 130	5	25		
Toluene	100	99	70 - 130	1	25		
trans-1,2-Dichloroethene	79	90	70 - 130	13	25		
trans-1,3-Dichloropropene	97	89	70 - 130	9	25		
Trichloroethene	98	102	70 - 130	4	25		
Trichlorofluoromethane	84	99	70 - 130	16	25		
Vinyl chloride	81	97	70 - 130	18	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	90	97	70 - 130
Dibromofluoromethane	94	99	70 - 130
Toluene-d8 (Surr)	106	101	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Method Blank - Batch: 360-49178

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49178/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/18/2009 1822
Date Prepared: 09/18/2009 1500

Analysis Batch: 360-49180
Prep Batch: 360-49178
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45143.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
4-Chlorotoluene	ND		1.0	2.5
Acetone	ND		18	250
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4-14-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Method Blank - Batch: 360-49178

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49178/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/18/2009 1822
Date Prepared: 09/18/2009 1500

Analysis Batch: 360-49180
Prep Batch: 360-49178
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45143.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	70 - 130
Dibromofluoromethane	99	70 - 130
Toluene-d8 (Surr)	101	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4/16/09

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Method Blank TICs- Batch: 360-49178

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49178

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49178/1-A	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45138.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/18/2009 1623			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49178/2-A	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45139.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/18/2009 1647			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	96	93	70 - 130	4	25		
Bromoform	86	82	70 - 130	5	25		
Bromomethane	97	102	70 - 130	5	25		
n-Butylbenzene	98	100	70 - 130	2	25		
Carbon disulfide	90	92	70 - 130	2	25		
Carbon tetrachloride	92	94	70 - 130	2	25		
Chlorobenzene	100	97	70 - 130	2	25		
Chloroethane	91	94	70 - 130	3	25		
Chloroform	101	99	70 - 130	2	25		
Chloromethane	86	90	70 - 130	5	25		
cis-1,2-Dichloroethene	96	94	70 - 130	2	25		
cis-1,3-Dichloropropene	94	90	70 - 130	5	25		
Cyclohexane	91	94	70 - 130	3	25		
Chlorodibromomethane	89	87	70 - 130	3	25		
Dibromomethane	97	93	70 - 130	3	25		
Dichlorodifluoromethane	60	60	70 - 130	0	25	*	*
Ethyl ether	105	104	70 - 130	1	25		
Isopropyl ether	93	93	70 - 130	0	25		
Tert-butyl ethyl ether	96	95	70 - 130	1	25		
Ethylbenzene	102	102	70 - 130	0	25		
Hexachlorobutadiene	99	101	70 - 130	2	25		
Isopropylbenzene	99	100	70 - 130	1	25		
Methyl acetate	135	139	70 - 130	3	25	*	*
2-Butanone (MEK)	93	89	70 - 130	4	25		
4-Methyl-2-pentanone (MIBK)	91	88	70 - 130	4	25		
Methyl tert-butyl ether	93	92	70 - 130	0	25		
Methylcyclohexane	95	98	70 - 130	3	25		
Methylene Chloride	103	103	70 - 130	0	25		
m-Xylene & p-Xylene	97	95	70 - 130	1	25		
Naphthalene	93	97	70 - 130	4	25		
N-Propylbenzene	97	98	70 - 130	0	25		
o-Xylene	96	97	70 - 130	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49178

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49178/1-A	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45138.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/18/2009 1623			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49178/2-A	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45139.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/18/2009 1647			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	102	105	70 - 130	3	25		
sec-Butylbenzene	99	101	70 - 130	2	25		
Styrene	95	96	70 - 130	0	25		
Tert-amyl methyl ether	98	97	70 - 130	1	25		
tert-Butylbenzene	101	102	70 - 130	1	25		
Tetrachloroethene	103	100	70 - 130	3	25		
Tetrahydrofuran	110	106	70 - 130	4	25		
Toluene	100	98	70 - 130	2	25		
trans-1,2-Dichloroethene	88	90	70 - 130	2	25		
trans-1,3-Dichloropropene	94	90	70 - 130	5	25		
Trichloroethene	102	100	70 - 130	3	25		
Trichlorofluoromethane	90	93	70 - 130	3	25		
Vinyl chloride	88	92	70 - 130	4	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	96	96	70 - 130
Dibromofluoromethane	98	99	70 - 130
Toluene-d8 (Surr)	101	100	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-49178

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	360-24582-22	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45140.D
Dilution:	1.0			Initial Weight/Volume:	5.21 g
Date Analyzed:	09/18/2009 1711			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

MSD Lab Sample ID:	360-24582-22	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45141.D
Dilution:	1.0			Initial Weight/Volume:	5.01 g
Date Analyzed:	09/18/2009 1735			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	95	95	70 - 130	4	30		
1,1,1-Trichloroethane	92	91	70 - 130	3	30		
1,1,2,2-Tetrachloroethane	88	87	70 - 130	4	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	90	90	70 - 130	4	30		
1,1,2-Trichloroethane	94	89	70 - 130	2	30		
1,1-Dichloroethane	98	98	70 - 130	5	30		
1,1-Dichloroethene	97	98	70 - 130	5	30		
1,1-Dichloropropene	92	90	70 - 130	2	30		
1,2,3-Trichlorobenzene	63	55	70 - 130	10	30	F	F
1,2,3-Trichloropropane	100	100	70 - 130	4	30		
1,2,4-Trichlorobenzene	63	54	70 - 130	11	30	F	F
1,2,4-Trimethylbenzene	79	79	70 - 130	4	30		
1,2-Dibromo-3-Chloropropane	86	83	70 - 130	0	30		
Ethylene Dibromide	93	88	70 - 130	1	30		
1,2-Dichlorobenzene	79	74	70 - 130	3	30		
1,2-Dichloroethane	95	93	70 - 130	2	30		
Acetone	99	87	70 - 130	9	30		
1,2-Dichloropropane	104	102	70 - 130	2	30		
1,3,5-Trimethylbenzene	83	83	70 - 130	4	30		
1,3-Dichlorobenzene	72	70	70 - 130	1	30		
1,3-Dichloropropane	91	86	70 - 130	2	30		
1,4-Dichlorobenzene	77	72	70 - 130	3	30		
1,4-Dioxane	114	109	70 - 130	0	30		
2,2-Dichloropropane	103	108	70 - 130	8	30		
2,4,4-Trimethyl-1-pentene	88	86	70 - 130	2	30		
2,4,4-Trimethyl-2-pentene	86	83	70 - 130	0	30		
2-Chlorotoluene	79	78	70 - 130	2	30		
2-Hexanone	84	79	70 - 130	2	30		
4-Chlorotoluene	77	75	70 - 130	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-49178

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	360-24582-22	Analysis Batch: 360-49180	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49178	Lab File ID: V45140.D
Dilution:	1.0		Initial Weight/Volume: 5.21 g
Date Analyzed:	09/18/2009 1711		Final Weight/Volume: 5 g
Date Prepared:	09/18/2009 1500		

MSD Lab Sample ID:	360-24582-22	Analysis Batch: 360-49180	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49178	Lab File ID: V45141.D
Dilution:	1.0		Initial Weight/Volume: 5.01 g
Date Analyzed:	09/18/2009 1735		Final Weight/Volume: 5 g
Date Prepared:	09/18/2009 1500		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	94	93	70 - 130	3	30		
Bromobenzene	78	77	70 - 130	3	30		
Chlorobromomethane	91	92	70 - 130	4	30		
Dichlorobromomethane	92	88	70 - 130	1	30		
Bromoform	85	82	70 - 130	0	30		
Bromomethane	101	105	70 - 130	8	30		
n-Butylbenzene	72	65	70 - 130	5	30		F
Carbon disulfide	86	85	70 - 130	4	30		
Carbon tetrachloride	91	91	70 - 130	3	30		
Chlorobenzene	90	87	70 - 130	1	30		
Chloroethane	94	96	70 - 130	6	30		
Chloroform	97	95	70 - 130	2	30		
Chloromethane	89	91	70 - 130	6	30		
cis-1,2-Dichloroethene	91	92	70 - 130	4	30		
cis-1,3-Dichloropropene	90	86	70 - 130	1	30		
Cyclohexane	87	87	70 - 130	4	30		
Chlorodibromomethane	85	80	70 - 130	2	30		
Dibromomethane	92	90	70 - 130	2	30		
Dichlorodifluoromethane	62	62	70 - 130	5	30	F	F
Ethyl ether	103	100	70 - 130	1	30		
Isopropyl ether	92	94	70 - 130	6	30		
Tert-butyl ethyl ether	94	96	70 - 130	6	30		
Ethylbenzene	94	92	70 - 130	2	30		
Hexachlorobutadiene	52	44	70 - 130	14	30	F	F
Isopropylbenzene	87	87	70 - 130	4	30		
Methyl acetate	143	160	70 - 130	15	30	F	F
2-Butanone (MEK)	92	97	70 - 130	9	30		
4-Methyl-2-pentanone (MIBK)	86	87	70 - 130	5	30		
Methyl tert-butyl ether	91	92	70 - 130	6	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24582-1
Sdg Number: OCRI-15

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-49178

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	360-24582-22	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45140.D
Dilution:	1.0			Initial Weight/Volume:	5.21 g
Date Analyzed:	09/18/2009 1711			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

MSD Lab Sample ID:	360-24582-22	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45141.D
Dilution:	1.0			Initial Weight/Volume:	5.01 g
Date Analyzed:	09/18/2009 1735			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Methylcyclohexane	84	81	70 - 130	1	30		
Methylene Chloride	98	100	70 - 130	6	30		
m-Xylene & p-Xylene	87	85	70 - 130	2	30		
Naphthalene	68	64	70 - 130	2	30	F	F
N-Propylbenzene	80	79	70 - 130	3	30		
o-Xylene	87	88	70 - 130	5	30		
4-Isopropyltoluene	79	78	70 - 130	2	30		
sec-Butylbenzene	78	77	70 - 130	3	30		
Styrene	84	82	70 - 130	2	30		
Tert-amyl methyl ether	95	98	70 - 130	7	30		
tert-Butylbenzene	86	87	70 - 130	5	30		
Tetrachloroethene	93	87	70 - 130	2	30		
Tetrahydrofuran	106	107	70 - 130	4	30		
Toluene	96	92	70 - 130	1	30		
trans-1,2-Dichloroethene	86	86	70 - 130	4	30		
trans-1,3-Dichloropropene	90	83	70 - 130	4	30		
Trichloroethene	96	94	70 - 130	2	30		
Trichlorofluoromethane	94	96	70 - 130	5	30		
Vinyl chloride	90	91	70 - 130	6	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	92	94	70 - 130
Dibromofluoromethane	100	99	70 - 130
Toluene-d8 (Surr)	102	99	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab Sample ID: CCVIS 360-49049/2 Calibration Date: 09/16/2009 16:37

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45048.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4892		20.3	20.0	1.4	30.0
Chloromethane	Ave	0.9034	0.9549	0.1000	22.9	20.0	5.7	30.0
Vinyl chloride	Ave	0.6300	0.6388		21.8	20.0	1.4	20.0
Bromomethane	Ave	0.3127	0.3486		23.4	20.0	11.5	30.0
Chloroethane	Lin2		0.3584		22.3	20.0	11.6	30.0
Trichlorofluoromethane	Ave	0.5183	0.5162		19.9	20.0	-0.4	30.0
Ethyl ether	Ave	0.2603	0.2404		19.8	20.0	-7.7	30.0
1,1-Dichloroethene	Ave	0.3201	0.3221		21.0	20.0	0.7	20.0
Carbon disulfide	Ave	1.395	1.366		19.6	20.0	-2.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1696		18.3	20.0	-8.7	30.0
Acrolein	Ave	0.7836	0.8106		1030	1000	3.4	30.0
Methylene Chloride	Lin1		0.3814		21.9	20.0	9.6	30.0
Acetone	Lin2		0.0655		252	200	25.8	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6919		19.6	20.0	-2.0	30.0
Methyl acetate	Lin1		0.1441		198	200	-1.0	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6607		18.9	20.0	-5.5	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3543		185	200	-7.6	30.0
Isopropyl ether	Ave	1.997	1.972		19.8	20.0	-1.3	30.0
1,1-Dichloroethane	Ave	0.7919	0.7851	0.1000	21.1	20.0	-0.9	30.0
Acrylonitrile	Lin1		0.0681		21.0	20.0	4.9	30.0
Tert-butyl ethyl ether	Ave	1.194	1.170		19.6	20.0	-2.0	30.0
Vinyl acetate	Ave	0.5745	0.6054		211	200	5.4	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.6075		19.7	20.0	-1.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.5316		23.0	20.0	-1.0	30.0
Chlorobromomethane	Ave	0.1386	0.1363		19.7	20.0	-1.7	30.0
Cyclohexane	Ave	0.8898	0.7485		16.9	20.0	-15.9	30.0
Chloroform	Ave	0.6243	0.5953		20.4	20.0	-4.6	20.0
Carbon tetrachloride	Ave	0.3645	0.3621		19.8	20.0	-0.7	30.0
Tetrahydrofuran	Ave	0.0762	0.0732		209	200	-4.0	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.5083		19.5	20.0	-1.7	30.0
2-Butanone (MEK)	Ave	0.0960	0.0984		218	200	2.5	30.0
1,1-Dichloropropene	Ave	0.4990	0.4895		19.6	20.0	-1.9	30.0
Benzene	Ave	1.352	1.385		20.5	20.0	2.5	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7694		20.2	20.0	1.0	30.0
1,2-Dichloroethane	Ave	0.3253	0.3232		19.9	20.0	-0.7	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3303		19.3	20.0	-13.2	30.0
Methylcyclohexane	Ave	0.6300	0.5441		17.3	20.0	-13.6	30.0
Trichloroethene	Ave	0.3155	0.3271		21.6	20.0	3.7	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1732		18.5	20.0	-7.5	30.0
Dibromomethane	Ave	0.1188	0.1217		20.4	20.0	2.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab Sample ID: CCVIS 360-49049/2 Calibration Date: 09/16/2009 16:37

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45048.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3193		22.7	20.0	0.3	20.0
Dichlorobromomethane	Ave	0.3427	0.3448		20.0	20.0	0.6	30.0
Methyl methacrylate	Ave	0.0864	0.0876		19.8	20.0	1.4	30.0
1,4-Dioxane	Qua		0.0212		197	200	-1.6	30.0
2-Chloroethyl vinyl ether	Lin		0.0720		373	200	86.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.4092		20.6	20.0	3.0	30.0
Toluene	Ave	0.7062	0.7432		21.7	20.0	5.2	20.0
Tetrachloroethene	Ave	0.1859	0.2045		22.0	20.0	10.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.2121		208	200	3.5	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2937		20.2	20.0	0.8	30.0
1,1,2-Trichloroethane	Lin1		0.1271		20.3	20.0	1.7	30.0
Chlorodibromomethane	Ave	0.1504	0.1506		20.0	20.0	0.1	30.0
1,3-Dichloropropane	Ave	0.2828	0.2840		20.1	20.0	0.4	30.0
Ethylene Dibromide	Ave	0.1260	0.1294		20.5	20.0	2.7	30.0
2-Hexanone	Ave	0.1294	0.1300		204	200	0.4	30.0
Chlorobenzene	Ave	1.096	1.144	0.3000	21.0	20.0	4.4	30.0
Ethylbenzene	Ave	2.279	2.310		21.7	20.0	1.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3522		21.3	20.0	1.4	30.0
m-Xylene & p-Xylene	Ave	1.752	1.781		40.7	40.0	1.6	30.0
o-Xylene	Ave	1.903	1.920		20.2	20.0	0.9	30.0
Styrene	Ave	1.294	1.302		20.2	20.0	0.6	30.0
Bromoform	Ave	0.3131	0.3054	0.1000	18.5	20.0	-2.5	20.0
Isopropylbenzene	Ave	2.255	2.358		21.0	20.0	4.5	30.0
Bromobenzene	Ave	1.024	0.9615		18.9	20.0	-6.1	30.0
N-Propylbenzene	Ave	2.901	2.950		20.3	20.0	1.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6457	0.3000	18.7	20.0	-5.7	30.0
2-Chlorotoluene	Ave	1.927	1.909		19.9	20.0	-1.0	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.910		20.7	20.0	3.2	30.0
1,2,3-Trichloropropane	Lin2		0.0646		20.8	20.0	4.1	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1013		19.1	20.0	-4.7	30.0
4-Chlorotoluene	Ave	1.683	1.658		19.6	20.0	-1.5	30.0
tert-Butylbenzene	Ave	1.471	1.559		21.2	20.0	6.0	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.906		20.3	20.0	1.7	30.0
sec-Butylbenzene	Ave	2.518	2.591		20.6	20.0	2.9	30.0
4-Isopropyltoluene	Ave	1.894	1.962		20.7	20.0	3.6	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.8274		19.7	20.0	-1.7	30.0
1,4-Dichlorobenzene	Ave	1.788	1.807		20.3	20.0	1.0	30.0
n-Butylbenzene	Ave	4.614	4.793		20.8	20.0	3.9	30.0
1,2-Dichlorobenzene	Ave	1.492	1.497		20.1	20.0	0.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0736		19.1	20.0	-4.4	30.0
Hexachlorobutadiene	Ave	0.5170	0.5382		20.8	20.0	4.1	30.0

4-11-10 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab Sample ID: CCVIS 360-49049/2 Calibration Date: 09/16/2009 16:37

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45048.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	1.029		21.1	20.0	5.5	30.0
Naphthalene	Ave	1.288	1.259		19.5	20.0	-2.3	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7679		21.3	20.0	6.4	30.0
Dibromofluoromethane	Ave	0.2328	0.2309		19.8	20.0	-0.8	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9074		20.4	20.0	2.2	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5407		18.9	20.0	-5.7	30.0

TC 4-11-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab Sample ID: CCVIS 360-49101/2 Calibration Date: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45087.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.5319		22.0	20.0	10.2	30.0
Chloromethane	Ave	0.9034	0.9171	0.1000	21.9	20.0	1.5	30.0
Vinyl chloride	Ave	0.6300	0.6456		22.0	20.0	2.5	20.0
Bromomethane	Ave	0.3127	0.3214		21.6	20.0	2.8	30.0
Chloroethane	Lin2		0.3487		21.7	20.0	8.4	30.0
Trichlorofluoromethane	Ave	0.5183	0.5402		20.8	20.0	4.2	30.0
Ethyl ether	Ave	0.2603	0.2267		18.6	20.0	-12.9	30.0
1,1-Dichloroethene	Ave	0.3201	0.3338		21.8	20.0	4.3	20.0
Carbon disulfide	Ave	1.395	1.391		20.0	20.0	-0.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1900		20.5	20.0	2.3	30.0
Acrolein	Ave	0.7836	0.7499		957	1000	-4.3	30.0
Methylene Chloride	Lin1		0.3527		20.2	20.0	1.0	30.0
Acetone	Lin2		0.0662		254	200	27.2	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6911		19.6	20.0	-2.1	30.0
Methyl acetate	Lin1		0.1403		193	200	-3.6	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6047		17.3	20.0	-13.5	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3363		175	200	-12.3	30.0
Isopropyl ether	Ave	1.997	1.901		19.1	20.0	-4.8	30.0
1,1-Dichloroethane	Ave	0.7919	0.7669	0.1000	20.7	20.0	-3.2	30.0
Acrylonitrile	Lin1		0.0615		18.9	20.0	-5.6	30.0
Tert-butyl ethyl ether	Ave	1.194	1.103		18.5	20.0	-7.6	30.0
Vinyl acetate	Ave	0.5745	0.4466		155	200	-22.3	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5846		19.0	20.0	-4.9	30.0
2,2-Dichloropropane	Ave	0.5371	0.5519		23.9	20.0	2.7	30.0
Cyclohexane	Ave	0.8898	0.9365		21.2	20.0	5.2	30.0
Chlorobromomethane	Ave	0.1386	0.1255		18.1	20.0	-9.5	30.0
Chloroform	Ave	0.6243	0.5837		20.0	20.0	-6.5	20.0
Carbon tetrachloride	Ave	0.3645	0.3874		21.2	20.0	6.3	30.0
Tetrahydrofuran	Ave	0.0762	0.0654		187	200	-14.1	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.5273		20.2	20.0	2.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0898		198	200	-6.5	30.0
1,1-Dichloropropene	Ave	0.4990	0.5110		20.5	20.0	2.4	30.0
Benzene	Ave	1.352	1.356		20.1	20.0	0.3	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7033		18.5	20.0	-7.7	30.0
1,2-Dichloroethane	Ave	0.3253	0.3006		18.5	20.0	-7.6	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3915		23.2	20.0	2.9	30.0
Methylcyclohexane	Ave	0.6300	0.6818		21.7	20.0	8.2	30.0
Trichloroethene	Ave	0.3155	0.3167		20.9	20.0	0.4	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1975		21.1	20.0	5.5	30.0
Dibromomethane	Ave	0.1188	0.1081		18.1	20.0	-9.0	30.0

4-11-10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab Sample ID: CCVIS 360-49101/2 Calibration Date: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45087.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3027		21.5	20.0	-4.9	20.0
Dichlorobromomethane	Ave	0.3427	0.3142		18.2	20.0	-8.3	30.0
Methyl methacrylate	Ave	0.0864	0.0756		17.1	20.0	-12.5	30.0
1,4-Dioxane	Qua		0.0235		219	200	9.6	30.0
2-Chloroethyl vinyl ether	Lin		0.0616		322	200	60.9*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3659		18.4	20.0	-8.0	30.0
Toluene	Ave	0.7062	0.7019		20.5	20.0	-0.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1907		187	200	-6.9	30.0
Tetrachloroethene	Ave	0.1859	0.1992		21.4	20.0	7.2	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2548		17.5	20.0	-12.5	30.0
1,1,2-Trichloroethane	Lin1		0.1137		18.2	20.0	-8.9	30.0
Chlorodibromomethane	Ave	0.1504	0.1309		17.4	20.0	-13.0	30.0
1,3-Dichloropropane	Ave	0.2828	0.2494		17.6	20.0	-11.8	30.0
Ethylene Dibromide	Ave	0.1260	0.1125		17.8	20.0	-10.7	30.0
2-Hexanone	Ave	0.1294	0.1188		187	200	-8.2	30.0
Chlorobenzene	Ave	1.096	1.071	0.3000	19.7	20.0	-2.3	30.0
Ethylbenzene	Ave	2.279	2.284		21.4	20.0	0.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3326		20.1	20.0	-4.3	30.0
m-Xylene & p-Xylene	Ave	1.752	1.752		40.0	40.0	0.0	30.0
o-Xylene	Ave	1.903	1.885		19.9	20.0	-0.9	30.0
Styrene	Ave	1.294	1.238		19.2	20.0	-4.3	30.0
Bromoform	Ave	0.3131	0.2721	0.1000	16.6	20.0	-13.1	20.0
Isopropylbenzene	Ave	2.255	2.367		21.0	20.0	4.9	30.0
Bromobenzene	Ave	1.024	0.9360		18.4	20.0	-8.6	30.0
N-Propylbenzene	Ave	2.901	2.963		20.4	20.0	2.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5955	0.3000	17.3	20.0	-13.0	30.0
2-Chlorotoluene	Ave	1.927	1.871		19.5	20.0	-2.9	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.899		20.5	20.0	2.6	30.0
1,2,3-Trichloropropane	Lin2		0.0578		18.6	20.0	-7.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0932		17.5	20.0	-12.5	30.0
4-Chlorotoluene	Ave	1.683	1.617		19.1	20.0	-3.9	30.0
tert-Butylbenzene	Ave	1.471	1.567		21.3	20.0	6.5	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.868		19.9	20.0	-0.3	30.0
sec-Butylbenzene	Ave	2.518	2.676		21.3	20.0	6.3	30.0
4-Isopropyltoluene	Ave	1.894	1.993		21.0	20.0	5.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7987		19.0	20.0	-5.1	30.0
1,4-Dichlorobenzene	Ave	1.788	1.723		19.3	20.0	-3.7	30.0
n-Butylbenzene	Ave	4.614	5.002		21.7	20.0	8.4	30.0
1,2-Dichlorobenzene	Ave	1.492	1.440		19.3	20.0	-3.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0629		16.3	20.0	-18.3	30.0
Hexachlorobutadiene	Ave	0.5170	0.5416		21.0	20.0	4.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab Sample ID: CCVIS 360-49101/2 Calibration Date: 09/17/2009 13:26

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45087.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9366		19.2	20.0	-4.0	30.0
Naphthalene	Ave	1.288	1.114		17.3	20.0	-13.5	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6887		19.1	20.0	-4.5	30.0
Dibromofluoromethane	Ave	0.2328	0.2245		19.3	20.0	-3.6	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9073		20.4	20.0	2.2	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5435		19.0	20.0	-5.2	30.0

4-11-10
10/13/2009 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab Sample ID: CCVIS 360-49180/2 Calibration Date: 09/18/2009 15:58

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45137.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4695		19.5	20.0	-2.7	30.0
Chloromethane	Ave	0.9034	0.8026	0.1000	19.1	20.0	-11.2	30.0
Vinyl chloride	Ave	0.6300	0.5634		19.1	20.0	-10.6	20.0
Bromomethane	Ave	0.3127	0.2857		19.2	20.0	-8.7	30.0
Chloroethane	Lin2		0.3059		18.8	20.0	-5.9	30.0
Trichlorofluoromethane	Ave	0.5183	0.4835		18.7	20.0	-6.7	30.0
Ethyl ether	Ave	0.2603	0.2198		18.0	20.0	-15.6	30.0
1,1-Dichloroethene	Ave	0.3201	0.2958		19.3	20.0	-7.6	20.0
Carbon disulfide	Ave	1.395	1.202		17.3	20.0	-13.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1700		18.3	20.0	-8.5	30.0
Acrolein	Ave	0.7836	0.7030		897	1000	-10.3	30.0
Methylene Chloride	Lin1		0.3288		18.8	20.0	-6.2	30.0
Acetone	Lin2		0.0496		189	200	-5.4	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6224		17.7	20.0	-11.8	30.0
Methyl acetate	Lin1		0.1653		227	200	13.6	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5715		16.3	20.0	-18.3	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3256		170	200	-15.1	30.0
Isopropyl ether	Ave	1.997	1.747		17.6	20.0	-12.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7048	0.1000	19.0	20.0	-11.0	30.0
Acrylonitrile	Lin1		0.0593		18.2	20.0	-9.2	30.0
Tert-butyl ethyl ether	Ave	1.194	1.022		17.1	20.0	-14.4	30.0
Vinyl acetate	Ave	0.5745	0.4703		164	200	-18.1	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5531		18.0	20.0	-10.0	30.0
2,2-Dichloropropane	Ave	0.5371	0.4452		18.9	20.0	-17.1	30.0
Cyclohexane	Ave	0.8898	0.7860		17.8	20.0	-11.7	30.0
Chlorobromomethane	Ave	0.1386	0.1249		18.0	20.0	-9.9	30.0
Chloroform	Ave	0.6243	0.5595		19.2	20.0	-10.4	20.0
Carbon tetrachloride	Ave	0.3645	0.3366		18.4	20.0	-7.7	30.0
Tetrahydrofuran	Ave	0.0762	0.0691		198	200	-9.2	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4668		17.9	20.0	-9.7	30.0
2-Butanone (MEK)	Ave	0.0960	0.0931		206	200	-3.0	30.0
1,1-Dichloropropene	Ave	0.4990	0.4839		19.4	20.0	-3.0	30.0
Benzene	Ave	1.352	1.337		19.8	20.0	-1.1	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6675		17.5	20.0	-12.4	30.0
1,2-Dichloroethane	Ave	0.3253	0.3074		18.9	20.0	-5.5	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3339		19.5	20.0	-12.3	30.0
Methylcyclohexane	Ave	0.6300	0.5833		18.6	20.0	-7.4	30.0
Trichloroethene	Ave	0.3155	0.3222		21.2	20.0	2.1	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1760		18.8	20.0	-6.0	30.0
Dibromomethane	Ave	0.1188	0.1166		19.5	20.0	-1.9	30.0

4-11-16 TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab Sample ID: CCVIS 360-49180/2 Calibration Date: 09/18/2009 15:58

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45137.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3092		22.0	20.0	-2.8	20.0
Dichlorobromomethane	Ave	0.3427	0.3350		19.4	20.0	-2.3	30.0
Methyl methacrylate	Ave	0.0864	0.0909		20.6	20.0	5.2	30.0
1,4-Dioxane	Qua		0.0248		232	200	16.1	30.0
2-Chloroethyl vinyl ether	Lin		0.0813		419	200	109.0*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.4170		21.0	20.0	4.9	30.0
Toluene	Ave	0.7062	0.7493		21.8	20.0	6.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1943		190	200	-5.2	30.0
Tetrachloroethene	Ave	0.1859	0.2109		22.6	20.0	13.5	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2997		20.6	20.0	2.9	30.0
1,1,2-Trichloroethane	Lin1		0.1280		20.5	20.0	2.4	30.0
Chlorodibromomethane	Ave	0.1504	0.1477		19.6	20.0	-1.8	30.0
1,3-Dichloropropane	Ave	0.2828	0.2857		20.2	20.0	1.0	30.0
Ethylene Dibromide	Ave	0.1260	0.1279		20.3	20.0	1.5	30.0
2-Hexanone	Ave	0.1294	0.1294		203	200	0.0	30.0
Chlorobenzene	Ave	1.096	1.101	0.3000	20.2	20.0	0.5	30.0
Ethylbenzene	Ave	2.279	2.229		20.9	20.0	-2.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3139		18.9	20.0	-9.7	30.0
m-Xylene & p-Xylene	Ave	1.752	1.691		38.6	40.0	-3.5	30.0
o-Xylene	Ave	1.903	1.755		18.5	20.0	-7.8	30.0
Styrene	Ave	1.294	1.225		19.0	20.0	-5.3	30.0
Bromoform	Ave	0.3131	0.3149	0.1000	19.0	20.0	0.6	20.0
Isopropylbenzene	Ave	2.255	2.148		19.1	20.0	-4.8	30.0
Bromobenzene	Ave	1.024	0.8633		16.9	20.0	-15.7	30.0
N-Propylbenzene	Ave	2.901	2.690		18.5	20.0	-7.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6226	0.3000	18.1	20.0	-9.1	30.0
2-Chlorotoluene	Ave	1.927	1.711		17.8	20.0	-11.2	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.697		18.4	20.0	-8.3	30.0
1,2,3-Trichloropropane	Lin2		0.0555		17.8	20.0	-10.9	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0867		16.3	20.0	-18.7	30.0
4-Chlorotoluene	Ave	1.683	1.513		17.9	20.0	-10.1	30.0
tert-Butylbenzene	Ave	1.471	1.380		18.7	20.0	-6.2	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.678		17.8	20.0	-10.5	30.0
sec-Butylbenzene	Ave	2.518	2.356		18.7	20.0	-6.4	30.0
4-Isopropyltoluene	Ave	1.894	1.757		18.5	20.0	-7.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7263		17.3	20.0	-13.7	30.0
1,4-Dichlorobenzene	Ave	1.788	1.733		19.4	20.0	-3.1	30.0
n-Butylbenzene	Ave	4.614	4.766		20.7	20.0	3.3	30.0
1,2-Dichlorobenzene	Ave	1.492	1.452		19.5	20.0	-2.7	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0707		18.4	20.0	-8.2	30.0
Hexachlorobutadiene	Ave	0.5170	0.5544		21.4	20.0	7.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24582-1

SDG No.: OCRI-15

Lab Sample ID: CCVIS 360-49180/2 Calibration Date: 09/18/2009 15:58

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45137.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9870		20.2	20.0	1.2	30.0
Naphthalene	Ave	1.288	1.180		18.3	20.0	-8.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7256		20.1	20.0	0.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2167		18.6	20.0	-6.9	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9495		21.4	20.0	6.9	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5131		17.9	20.0	-10.5	30.0

OCRI-16

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360-24634-1

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Data completeness				
☑	☐	☐	All data summaries, QC forms and raw data available from hard copy or electronic data package	Contact lab if missing data. Lab to respond with 24 hours.
☑	☐	☐	Data summaries match EDD	
Holding Times and Preservation				
☑	☐	☐	Hold times met (14 days with preservation)	
☑	☐	☐	Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune)				
☑	☐	☐	Tune available for each 12-hour period samples were analyzed	
☑	☐	☐	Appropriate number of significant figures reported (at least 2)	
☑	☐	☐	Mass/Charge list (m/z) criteria met	
Initial Calibration				
☑	☐	☐	%RSD less than or equal to 30%	I-cal from 9/08/09
* ☑	☐	☐	RRF greater than or equal to 0.05	
Continuing Calibration				
☑	☐	☐	%D less than or equal to 25% →	All w/in control
☑	☐	☐	RRF greater than or equal to 0.05.	
Blank Contamination				Evaluate all blanks for contamination. Highest contaminant level used for action level.
☐	☑	☐	Method blank contamination clean	
☐	☐	☐	Trip blank contamination	
☑	☐	☐	Equipment/Rinseate blank contamination	Not affecting Soil Results

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes No N/A — TIER I / (II) / III (circle one)

Surrogate Recoveries ☑ ☐ ☐ Surrogates percent recovery criteria met (water and soil: 70%-130%)	
Matrix Spikes and Laboratory Control Samples ☐ ☐ ☑ MS/MSD percent recovery criteria met (water and soil: 70%-130%) ☐ ☐ ☑ MS/MSD RPD criteria met (water and soil <30%) ☐ ☑ ☐ LCS percent recovery criteria (water and soil: 70%-130%) → See Attached	
Field Duplicates ☐ ☐ ☑ RPD criteria (water <30%, soils <50%) met Not Submitted in this SDG	
Internal Standard ☑ ☐ ☐ Area counts within -50 to +100 percent of calib. std. ☑ ☐ ☐ Retention Time within 30 seconds of calib. std.	
Target Compounds ☑ ☐ ☐ Reviewed narrative for anomalies	
Tentatively Identified Compounds (TICs) ☑ ☐ ☐ TCL compounds reported as TICs	

Validator's Signature: Inge Lucia

Date: 4-11-10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-417-0.0/1.0-XXX**

Lab Sample ID: 360-24634-1
Client Matrix: Solid % Moisture: 4.1

Date Sampled: 09/15/2009 1420
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45147.D
Dilution:	1.0			Initial Weight/Volume:	5.44 g
Date Analyzed:	09/18/2009 2000			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.96	2.4
1,1,1-Trichloroethane		ND		0.96	2.4
1,1,2,2-Tetrachloroethane		ND		0.96	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.96	12
1,1,2-Trichloroethane		ND		0.96	2.4
1,1-Dichloroethane		ND		0.96	2.4
1,1-Dichloroethene		ND		0.96	2.4
1,1-Dichloropropene		ND		0.96	2.4
1,2,3-Trichlorobenzene		ND		0.96	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.96	2.4
1,2,4-Trimethylbenzene		ND		0.96	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.96	2.4
1,2-Dichlorobenzene		ND		0.96	2.4
1,2-Dichloroethane		ND		0.96	2.4
Acetone		ND	J	17	240
1,2-Dichloropropane		ND		0.96	2.4
1,3,5-Trimethylbenzene		ND		0.96	2.4
1,3-Dichlorobenzene		ND		0.96	2.4
1,3-Dichloropropane		ND		0.96	2.4
1,4-Dichlorobenzene		ND		0.96	2.4
1,4-Dioxane		ND	J	32	240
2,2-Dichloropropane		ND		0.96	2.4
2,4,4-Trimethyl-1-pentene		2.0	J	0.96	4.8
2,4,4-Trimethyl-2-pentene		ND		0.96	4.8
2-Chlorotoluene		ND		0.96	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.96	2.4
Benzene		ND		0.96	2.4
Bromobenzene		ND		0.96	2.4
Chlorobromomethane		ND		0.96	2.4
Dichlorobromomethane		ND		0.96	2.4
Bromoform		ND		0.96	2.4
Bromomethane		ND		0.96	4.8
n-Butylbenzene		ND		0.96	2.4
Carbon disulfide		ND		0.96	2.4
Carbon tetrachloride		ND		0.96	2.4
Chlorobenzene		ND		0.96	2.4
Chloroethane		ND		0.96	4.8
Chloroform		ND		0.96	2.4
Chloromethane		ND		0.96	4.8
cis-1,2-Dichloroethene		ND		0.96	2.4
cis-1,3-Dichloropropene		ND		0.96	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.96	2.4

4-11-10 TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-417-0.0/1.0-XXX**

Lab Sample ID: 360-24634-1
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 09/15/2009 1420
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45147.D
Dilution:	1.0			Initial Weight/Volume:	5.44 g
Date Analyzed:	09/18/2009 2000			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.96	2.4
Dichlorodifluoromethane		ND J		0.96	4.8
Ethyl ether		ND		0.96	2.4
Isopropyl ether		ND		0.96	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.96	2.4
Hexachlorobutadiene		ND		0.96	2.4
Isopropylbenzene		ND		0.96	2.4
Methyl acetate		ND		16	48
2-Butanone (MEK)		ND		6.5	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.96	2.4
Methylcyclohexane		ND		0.96	2.4
Methylene Chloride		ND		4.6	9.6
m-Xylene & p-Xylene		ND		0.96	4.8
Naphthalene		ND		0.96	24
N-Propylbenzene		ND		0.96	2.4
o-Xylene		ND		0.96	2.4
4-Isopropyltoluene		ND		0.96	2.4
sec-Butylbenzene		ND		0.96	2.4
Styrene		ND		0.96	2.4
Tert-amyl methyl ether		ND		0.96	2.4
tert-Butylbenzene		ND		0.96	2.4
Tetrachloroethene		ND		0.96	2.4
Tetrahydrofuran		ND		5.3	24
Toluene		ND		0.96	2.4
trans-1,2-Dichloroethene		ND		0.96	2.4
trans-1,3-Dichloropropene		ND		0.96	2.4
Trichloroethene		ND		0.96	2.4
Trichlorofluoromethane		ND		0.96	4.8
Vinyl chloride		ND		0.96	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	103		70 - 130

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-417-0.0/1.0-XXX**

Lab Sample ID: 360-24634-1
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 09/15/2009 1420
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45147.D
Dilution:	1.0			Initial Weight/Volume:	5.44 g
Date Analyzed:	09/18/2009 2000			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
115-11-7	1-Propene, 2-methyl-	1.86	22	T J N
	Unknown	13.35	4.7	T J

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-418-0.0/1.0-XXX**

Lab Sample ID: 360-24634-2
Client Matrix: Solid % Moisture: 9.5

Date Sampled: 09/15/2009 1440
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45148.D
Dilution:	1.0			Initial Weight/Volume:	5.01 g
Date Analyzed:	09/18/2009 2024			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.8
1,1,1-Trichloroethane		ND		1.1	2.8
1,1,2,2-Tetrachloroethane		ND		1.1	2.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.8
1,1-Dichloroethane		ND		1.1	2.8
1,1-Dichloroethene		ND		1.1	2.8
1,1-Dichloropropene		ND		1.1	2.8
1,2,3-Trichlorobenzene		ND		1.1	2.8
1,2,3-Trichloropropane		ND		1.6	2.8
1,2,4-Trichlorobenzene		ND		1.1	2.8
1,2,4-Trimethylbenzene		ND		1.1	2.8
1,2-Dibromo-3-Chloropropane		ND		2.0	28
Ethylene Dibromide		ND		1.1	2.8
1,2-Dichlorobenzene		ND		1.1	2.8
1,2-Dichloroethane		ND		1.1	2.8
Acetone		ND	J	20	280
1,2-Dichloropropane		ND		1.1	2.8
1,3,5-Trimethylbenzene		ND		1.1	2.8
1,3-Dichlorobenzene		ND		1.1	2.8
1,3-Dichloropropane		ND		1.1	2.8
1,4-Dichlorobenzene		ND		1.1	2.8
1,4-Dioxane		ND	J	36	280
2,2-Dichloropropane		ND		1.1	2.8
2,4,4-Trimethyl-1-pentene		ND		1.1	5.5
2,4,4-Trimethyl-2-pentene		ND		1.1	5.5
2-Chlorotoluene		ND		1.1	2.8
2-Hexanone		ND		5.7	28
4-Chlorotoluene		ND		1.1	2.8
Benzene		ND		1.1	2.8
Bromobenzene		ND		1.1	2.8
Chlorobromomethane		ND		1.1	2.8
Dichlorobromomethane		ND		1.1	2.8
Bromoform		ND		1.1	2.8
Bromomethane		ND		1.1	5.5
n-Butylbenzene		ND		1.1	2.8
Carbon disulfide		ND		1.1	2.8
Carbon tetrachloride		ND		1.1	2.8
Chlorobenzene		ND		1.1	2.8
Chloroethane		ND		1.1	5.5
Chloroform		ND		1.1	2.8
Chloromethane		ND		1.1	5.5
cis-1,2-Dichloroethene		ND		1.1	2.8
cis-1,3-Dichloropropene		ND		1.1	2.8
Cyclohexane		ND		2.8	28
Chlorodibromomethane		ND		1.1	2.8

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-418-0.0/1.0-XXX**

Lab Sample ID: 360-24634-2
Client Matrix: Solid
% Moisture: 9.5

Date Sampled: 09/15/2009 1440
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45148.D
Dilution:	1.0			Initial Weight/Volume:	5.01 g
Date Analyzed:	09/18/2009 2024			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.8
Dichlorodifluoromethane		ND J		1.1	5.5
Ethyl ether		ND		1.1	2.8
Isopropyl ether		ND		1.1	2.8
Tert-butyl ethyl ether		ND		2.8	2.8
Ethylbenzene		ND		1.1	2.8
Hexachlorobutadiene		ND		1.1	2.8
Isopropylbenzene		ND		1.1	2.8
Methyl acetate		ND		18	55
2-Butanone (MEK)		ND		7.4	28
4-Methyl-2-pentanone (MIBK)		ND		5.7	28
Methyl tert-butyl ether		ND		1.1	2.8
Methylcyclohexane		ND		1.1	2.8
Methylene Chloride		ND		5.3	11
m-Xylene & p-Xylene		ND		1.1	5.5
Naphthalene		ND		1.1	28
N-Propylbenzene		ND		1.1	2.8
o-Xylene		ND		1.1	2.8
4-Isopropyltoluene		ND		1.1	2.8
sec-Butylbenzene		ND		1.1	2.8
Styrene		ND		1.1	2.8
Tert-amyl methyl ether		ND		1.1	2.8
tert-Butylbenzene		ND		1.1	2.8
Tetrachloroethene		ND		1.1	2.8
Tetrahydrofuran		ND		6.1	28
Toluene		ND		1.1	2.8
trans-1,2-Dichloroethene		ND		1.1	2.8
trans-1,3-Dichloropropene		ND		1.1	2.8
Trichloroethene		ND		1.1	2.8
Trichlorofluoromethane		ND		1.1	5.5
Vinyl chloride		ND		1.1	2.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-418-0.0/1.0-XXX**

Lab Sample ID: 360-24634-2
Client Matrix: Solid % Moisture: 9.5

Date Sampled: 09/15/2009 1440
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45148.D
Dilution:	1.0			Initial Weight/Volume:	5.01 g
Date Analyzed:	09/18/2009 2024			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
7785-70-8	1R-.alpha.-Pinene	8.89	19	T J N
	Unknown	9.14	7.4	T J
127-91-3	.beta.-Pinene	9.44	16	T J N

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-419-0.0/1.0-XXX**

Lab Sample ID: 360-24634-3
Client Matrix: Solid
% Moisture: 9.9

Date Sampled: 09/15/2009 1505
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45149.D
Dilution:	1.0			Initial Weight/Volume:	5.39 g
Date Analyzed:	09/18/2009 2048			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		ND	J	18	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

TC
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Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-419-0.0/1.0-XXX**

Lab Sample ID: 360-24634-3
Client Matrix: Solid % Moisture: 9.9

Date Sampled: 09/15/2009 1505
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45149.D
Dilution:	1.0			Initial Weight/Volume:	5.39 g
Date Analyzed:	09/18/2009 2048			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND	J	1.0	5.1
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	51
2-Butanone (MEK)		ND		6.9	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	100		70 - 130

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-419-0.0/1.0-XXX**

Lab Sample ID: 360-24634-3
Client Matrix: Solid % Moisture: 9.9

Date Sampled: 09/15/2009 1505
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45149.D
Dilution:	1.0			Initial Weight/Volume:	5.39 g
Date Analyzed:	09/18/2009 2048			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.09	2.8	T J

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-420-0.0/1.0-XXX**

Lab Sample ID: 360-24634-4
Client Matrix: Solid % Moisture: 11.6

Date Sampled: 09/15/2009 1525
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45150.D
Dilution:	1.0			Initial Weight/Volume:	6.20 g
Date Analyzed:	09/18/2009 2112			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.91	2.3
1,1,1-Trichloroethane		ND		0.91	2.3
1,1,2,2-Tetrachloroethane		ND		0.91	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.91	11
1,1,2-Trichloroethane		ND		0.91	2.3
1,1-Dichloroethane		ND		0.91	2.3
1,1-Dichloroethene		ND		0.91	2.3
1,1-Dichloropropene		ND		0.91	2.3
1,2,3-Trichlorobenzene		ND		0.91	2.3
1,2,3-Trichloropropane		ND		1.3	2.3
1,2,4-Trichlorobenzene		ND		0.91	2.3
1,2,4-Trimethylbenzene		ND		0.91	2.3
1,2-Dibromo-3-Chloropropane		ND		1.6	23
Ethylene Dibromide		ND		0.91	2.3
1,2-Dichlorobenzene		ND		0.91	2.3
1,2-Dichloroethane		ND		0.91	2.3
Acetone		ND	J	16	230
1,2-Dichloropropane		ND		0.91	2.3
1,3,5-Trimethylbenzene		ND		0.91	2.3
1,3-Dichlorobenzene		ND		0.91	2.3
1,3-Dichloropropane		ND		0.91	2.3
1,4-Dichlorobenzene		ND		0.91	2.3
1,4-Dioxane		ND	J	30	230
2,2-Dichloropropane		ND		0.91	2.3
2,4,4-Trimethyl-1-pentene		ND		0.91	4.6
2,4,4-Trimethyl-2-pentene		ND		0.91	4.6
2-Chlorotoluene		ND		0.91	2.3
2-Hexanone		ND		4.7	23
4-Chlorotoluene		ND		0.91	2.3
Benzene		ND		0.91	2.3
Bromobenzene		ND		0.91	2.3
Chlorobromomethane		ND		0.91	2.3
Dichlorobromomethane		ND		0.91	2.3
Bromoform		ND		0.91	2.3
Bromomethane		ND		0.91	4.6
n-Butylbenzene		ND		0.91	2.3
Carbon disulfide		ND		0.91	2.3
Carbon tetrachloride		ND		0.91	2.3
Chlorobenzene		ND		0.91	2.3
Chloroethane		ND		0.91	4.6
Chloroform		ND		0.91	2.3
Chloromethane		ND		0.91	4.6
cis-1,2-Dichloroethene		ND		0.91	2.3
cis-1,3-Dichloropropene		ND		0.91	2.3
Cyclohexane		ND		2.4	23
Chlorodibromomethane		ND		0.91	2.3

TC
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Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-420-0.0/1.0-XXX**

Lab Sample ID: 360-24634-4
Client Matrix: Solid % Moisture: 11.6

Date Sampled: 09/15/2009 1525
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45150.D
Dilution:	1.0			Initial Weight/Volume:	6.20 g
Date Analyzed:	09/18/2009 2112			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.91	2.3
Dichlorodifluoromethane		ND J		0.91	4.6
Ethyl ether		ND		0.91	2.3
Isopropyl ether		ND		0.91	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.91	2.3
Hexachlorobutadiene		ND		0.91	2.3
Isopropylbenzene		ND		0.91	2.3
Methyl acetate		ND		15	46
2-Butanone (MEK)		ND		6.2	23
4-Methyl-2-pentanone (MIBK)		ND		4.7	23
Methyl tert-butyl ether		ND		0.91	2.3
Methylcyclohexane		ND		0.91	2.3
Methylene Chloride		ND		4.4	9.1
m-Xylene & p-Xylene		ND		0.91	4.6
Naphthalene		ND		0.91	23
N-Propylbenzene		ND		0.91	2.3
o-Xylene		ND		0.91	2.3
4-Isopropyltoluene		ND		0.91	2.3
sec-Butylbenzene		ND		0.91	2.3
Styrene		ND		0.91	2.3
Tert-amyl methyl ether		ND		0.91	2.3
tert-Butylbenzene		ND		0.91	2.3
Tetrachloroethene		ND		0.91	2.3
Tetrahydrofuran		ND		5.0	23
Toluene		ND		0.91	2.3
trans-1,2-Dichloroethene		ND		0.91	2.3
trans-1,3-Dichloropropene		ND		0.91	2.3
Trichloroethene		ND		0.91	2.3
Trichlorofluoromethane		ND		0.91	4.6
Vinyl chloride		ND		0.91	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TC
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Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-420-0.0/1.0-XXX**

Lab Sample ID: 360-24634-4
Client Matrix: Solid
% Moisture: 11.6

Date Sampled: 09/15/2009 1525
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45150.D
Dilution:	1.0			Initial Weight/Volume:	6.20 g
Date Analyzed:	09/18/2009 2112			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	8.47	0.90	T J

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-421-0.0/1.0-XXX**

Lab Sample ID: 360-24634-5
Client Matrix: Solid % Moisture: 21.5

Date Sampled: 09/15/2009 1555
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45151.D
Dilution:	1.0			Initial Weight/Volume:	5.32 g
Date Analyzed:	09/18/2009 2136			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.2	3.0
1,1,1-Trichloroethane		ND		1.2	3.0
1,1,2,2-Tetrachloroethane		ND		1.2	3.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	15
1,1,2-Trichloroethane		ND		1.2	3.0
1,1-Dichloroethane		ND		1.2	3.0
1,1-Dichloroethene		ND		1.2	3.0
1,1-Dichloropropene		ND		1.2	3.0
1,2,3-Trichlorobenzene		ND		1.2	3.0
1,2,3-Trichloropropane		ND		1.8	3.0
1,2,4-Trichlorobenzene		ND		1.2	3.0
1,2,4-Trimethylbenzene		ND		1.2	3.0
1,2-Dibromo-3-Chloropropane		ND		2.2	30
Ethylene Dibromide		ND		1.2	3.0
1,2-Dichlorobenzene		ND		1.2	3.0
1,2-Dichloroethane		ND		1.2	3.0
Acetone		ND	J	21	300
1,2-Dichloropropane		ND		1.2	3.0
1,3,5-Trimethylbenzene		ND		1.2	3.0
1,3-Dichlorobenzene		ND		1.2	3.0
1,3-Dichloropropane		ND		1.2	3.0
1,4-Dichlorobenzene		ND		1.2	3.0
1,4-Dioxane		ND	J	40	300
2,2-Dichloropropane		ND		1.2	3.0
2,4,4-Trimethyl-1-pentene		ND		1.2	6.0
2,4,4-Trimethyl-2-pentene		ND		1.2	6.0
2-Chlorotoluene		ND		1.2	3.0
2-Hexanone		ND		6.2	30
4-Chlorotoluene		ND		1.2	3.0
Benzene		ND		1.2	3.0
Bromobenzene		ND		1.2	3.0
Chlorobromomethane		ND		1.2	3.0
Dichlorobromomethane		ND		1.2	3.0
Bromoform		ND		1.2	3.0
Bromomethane		ND		1.2	6.0
n-Butylbenzene		ND		1.2	3.0
Carbon disulfide		ND		1.2	3.0
Carbon tetrachloride		ND		1.2	3.0
Chlorobenzene		ND		1.2	3.0
Chloroethane		ND		1.2	6.0
Chloroform		ND		1.2	3.0
Chloromethane		ND		1.2	6.0
cis-1,2-Dichloroethene		ND		1.2	3.0
cis-1,3-Dichloropropene		ND		1.2	3.0
Cyclohexane		ND		3.1	30
Chlorodibromomethane		ND		1.2	3.0

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-421-0.0/1.0-XXX**

Lab Sample ID: 360-24634-5
Client Matrix: Solid
% Moisture: 21.5

Date Sampled: 09/15/2009 1555
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45151.D
Dilution:	1.0			Initial Weight/Volume:	5.32 g
Date Analyzed:	09/18/2009 2136			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.2	3.0
Dichlorodifluoromethane		ND	V	1.2	6.0
Ethyl ether		ND		1.2	3.0
Isopropyl ether		ND		1.2	3.0
Tert-butyl ethyl ether		ND		3.0	3.0
Ethylbenzene		ND		1.2	3.0
Hexachlorobutadiene		ND		1.2	3.0
Isopropylbenzene		ND		1.2	3.0
Methyl acetate		ND		19	60
2-Butanone (MEK)		ND		8.1	30
4-Methyl-2-pentanone (MIBK)		ND		6.2	30
Methyl tert-butyl ether		ND		1.2	3.0
Methylcyclohexane		ND		1.2	3.0
Methylene Chloride		ND		5.8	12
m-Xylene & p-Xylene		ND		1.2	6.0
Naphthalene		ND		1.2	30
N-Propylbenzene		ND		1.2	3.0
o-Xylene		ND		1.2	3.0
4-Isopropyltoluene		ND		1.2	3.0
sec-Butylbenzene		ND		1.2	3.0
Styrene		ND		1.2	3.0
Tert-amyl methyl ether		ND		1.2	3.0
tert-Butylbenzene		ND		1.2	3.0
Tetrachloroethene		ND		1.2	3.0
Tetrahydrofuran		ND		6.6	30
Toluene		ND		1.2	3.0
trans-1,2-Dichloroethene		ND		1.2	3.0
trans-1,3-Dichloropropene		ND		1.2	3.0
Trichloroethene		ND		1.2	3.0
Trichlorofluoromethane		ND		1.2	6.0
Vinyl chloride		ND		1.2	3.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-421-0.0/1.0-XXX**

Lab Sample ID: 360-24634-5
Client Matrix: Solid
% Moisture: 21.5

Date Sampled: 09/15/2009 1555
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45151.D
Dilution:	1.0			Initial Weight/Volume:	5.32 g
Date Analyzed:	09/18/2009 2136			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-422-0.0/1.0-XXX**

Lab Sample ID: 360-24634-6
Client Matrix: Solid % Moisture: 15.9

Date Sampled: 09/15/2009 1630
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45152.D
Dilution:	1.0			Initial Weight/Volume:	5.13 g
Date Analyzed:	09/18/2009 2200			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.2	2.9
1,1,1-Trichloroethane		ND		1.2	2.9
1,1,2,2-Tetrachloroethane		ND		1.2	2.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	14
1,1,2-Trichloroethane		ND		1.2	2.9
1,1-Dichloroethane		ND		1.2	2.9
1,1-Dichloroethene		ND		1.2	2.9
1,1-Dichloropropene		ND		1.2	2.9
1,2,3-Trichlorobenzene		ND		1.2	2.9
1,2,3-Trichloropropane		ND		1.7	2.9
1,2,4-Trichlorobenzene		ND		1.2	2.9
1,2,4-Trimethylbenzene		ND		1.2	2.9
1,2-Dibromo-3-Chloropropane		ND		2.1	29
Ethylene Dibromide		ND		1.2	2.9
1,2-Dichlorobenzene		ND		1.2	2.9
1,2-Dichloroethane		ND		1.2	2.9
Acetone		ND	J	21	290
1,2-Dichloropropane		ND		1.2	2.9
1,3,5-Trimethylbenzene		ND		1.2	2.9
1,3-Dichlorobenzene		ND		1.2	2.9
1,3-Dichloropropane		ND		1.2	2.9
1,4-Dichlorobenzene		ND		1.2	2.9
1,4-Dioxane		ND	J	38	290
2,2-Dichloropropane		ND		1.2	2.9
2,4,4-Trimethyl-1-pentene		ND		1.2	5.8
2,4,4-Trimethyl-2-pentene		ND		1.2	5.8
2-Chlorotoluene		ND		1.2	2.9
2-Hexanone		ND		6.0	29
4-Chlorotoluene		ND		1.2	2.9
Benzene		ND		1.2	2.9
Bromobenzene		ND		1.2	2.9
Chlorobromomethane		ND		1.2	2.9
Dichlorobromomethane		ND		1.2	2.9
Bromoform		ND		1.2	2.9
Bromomethane		ND		1.2	5.8
n-Butylbenzene		ND		1.2	2.9
Carbon disulfide		ND		1.2	2.9
Carbon tetrachloride		ND		1.2	2.9
Chlorobenzene		ND		1.2	2.9
Chloroethane		ND		1.2	5.8
Chloroform		ND		1.2	2.9
Chloromethane		ND		1.2	5.8
cis-1,2-Dichloroethene		ND		1.2	2.9
cis-1,3-Dichloropropene		ND		1.2	2.9
Cyclohexane		ND		3.0	29
Chlorodibromomethane		ND		1.2	2.9

4-11-10
Tc

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-422-0.0/1.0-XXX**

Lab Sample ID: 360-24634-6
Client Matrix: Solid % Moisture: 15.9

Date Sampled: 09/15/2009 1630
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45152.D
Dilution:	1.0			Initial Weight/Volume:	5.13 g
Date Analyzed:	09/18/2009 2200			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.2	2.9
Dichlorodifluoromethane		ND J		1.2	5.8
Ethyl ether		ND		1.2	2.9
Isopropyl ether		ND		1.2	2.9
Tert-butyl ethyl ether		ND		2.9	2.9
Ethylbenzene		ND		1.2	2.9
Hexachlorobutadiene		ND		1.2	2.9
Isopropylbenzene		ND		1.2	2.9
Methyl acetate		ND		19	58
2-Butanone (MEK)		ND		7.8	29
4-Methyl-2-pentanone (MIBK)		ND		6.0	29
Methyl tert-butyl ether		ND		1.2	2.9
Methylcyclohexane		ND		1.2	2.9
Methylene Chloride		ND		5.6	12
m-Xylene & p-Xylene		ND		1.2	5.8
Naphthalene		ND		1.2	29
N-Propylbenzene		ND		1.2	2.9
o-Xylene		ND		1.2	2.9
4-Isopropyltoluene		ND		1.2	2.9
sec-Butylbenzene		ND		1.2	2.9
Styrene		ND		1.2	2.9
Tert-amyl methyl ether		ND		1.2	2.9
tert-Butylbenzene		ND		1.2	2.9
Tetrachloroethene		ND		1.2	2.9
Tetrahydrofuran		ND		6.4	29
Toluene		ND		1.2	2.9
trans-1,2-Dichloroethene		ND		1.2	2.9
trans-1,3-Dichloropropene		ND		1.2	2.9
Trichloroethene		ND		1.2	2.9
Trichlorofluoromethane		ND		1.2	5.8
Vinyl chloride		ND		1.2	2.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	103		70 - 130

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-422-0.0/1.0-XXX**

Lab Sample ID: 360-24634-6
Client Matrix: Solid
% Moisture: 15.9

Date Sampled: 09/15/2009 1630
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45152.D
Dilution:	1.0			Initial Weight/Volume:	5.13 g
Date Analyzed:	09/18/2009 2200			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	2.0	T J

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-423-0.0/1.0-XXX**

Lab Sample ID: 360-24634-7
Client Matrix: Solid
% Moisture: 16.0

Date Sampled: 09/15/2009 1655
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45153.D
Dilution:	1.0			Initial Weight/Volume:	6.23 g
Date Analyzed:	09/18/2009 2224			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.96	2.4
1,1,1-Trichloroethane		ND		0.96	2.4
1,1,2,2-Tetrachloroethane		ND		0.96	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.96	12
1,1,2-Trichloroethane		ND		0.96	2.4
1,1-Dichloroethane		ND		0.96	2.4
1,1-Dichloroethene		ND		0.96	2.4
1,1-Dichloropropene		ND		0.96	2.4
1,2,3-Trichlorobenzene		ND		0.96	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.96	2.4
1,2,4-Trimethylbenzene		ND		0.96	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.96	2.4
1,2-Dichlorobenzene		ND		0.96	2.4
1,2-Dichloroethane		ND		0.96	2.4
Acetone		ND	J	17	240
1,2-Dichloropropane		ND		0.96	2.4
1,3,5-Trimethylbenzene		ND		0.96	2.4
1,3-Dichlorobenzene		ND		0.96	2.4
1,3-Dichloropropane		ND		0.96	2.4
1,4-Dichlorobenzene		ND		0.96	2.4
1,4-Dioxane		ND	J	32	240
2,2-Dichloropropane		ND		0.96	2.4
2,4,4-Trimethyl-1-pentene		ND		0.96	4.8
2,4,4-Trimethyl-2-pentene		ND		0.96	4.8
2-Chlorotoluene		ND		0.96	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.96	2.4
Benzene		ND		0.96	2.4
Bromobenzene		ND		0.96	2.4
Chlorobromomethane		ND		0.96	2.4
Dichlorobromomethane		ND		0.96	2.4
Bromoform		ND		0.96	2.4
Bromomethane		ND		0.96	4.8
n-Butylbenzene		ND		0.96	2.4
Carbon disulfide		ND		0.96	2.4
Carbon tetrachloride		ND		0.96	2.4
Chlorobenzene		ND		0.96	2.4
Chloroethane		ND		0.96	4.8
Chloroform		ND		0.96	2.4
Chloromethane		ND		0.96	4.8
cis-1,2-Dichloroethene		ND		0.96	2.4
cis-1,3-Dichloropropene		ND		0.96	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.96	2.4

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: OC-SS-423-0.0/1.0-XXX

Lab Sample ID: 360-24634-7
Client Matrix: Solid % Moisture: 16.0

Date Sampled: 09/15/2009 1655
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45153.D
Dilution:	1.0			Initial Weight/Volume:	6.23 g
Date Analyzed:	09/18/2009 2224			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.96	2.4
Dichlorodifluoromethane		ND	J	0.96	4.8
Ethyl ether		ND		0.96	2.4
Isopropyl ether		ND		0.96	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.96	2.4
Hexachlorobutadiene		ND		0.96	2.4
Isopropylbenzene		ND		0.96	2.4
Methyl acetate		ND		16	48
2-Butanone (MEK)		ND		6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.96	2.4
Methylcyclohexane		ND		0.96	2.4
Methylene Chloride		ND		4.6	9.6
m-Xylene & p-Xylene		ND		0.96	4.8
Naphthalene		ND		0.96	24
N-Propylbenzene		ND		0.96	2.4
o-Xylene		ND		0.96	2.4
4-Isopropyltoluene		ND		0.96	2.4
sec-Butylbenzene		ND		0.96	2.4
Styrene		ND		0.96	2.4
Tert-amyl methyl ether		ND		0.96	2.4
tert-Butylbenzene		ND		0.96	2.4
Tetrachloroethene		ND		0.96	2.4
Tetrahydrofuran		ND		5.3	24
Toluene		ND		0.96	2.4
trans-1,2-Dichloroethene		ND		0.96	2.4
trans-1,3-Dichloropropene		ND		0.96	2.4
Trichloroethene		ND		0.96	2.4
Trichlorofluoromethane		ND		0.96	4.8
Vinyl chloride		ND		0.96	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TC
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Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-423-0.0/1.0-XXX**

Lab Sample ID: 360-24634-7
Client Matrix: Solid % Moisture: 16.0

Date Sampled: 09/15/2009 1655
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45153.D
Dilution:	1.0			Initial Weight/Volume:	6.23 g
Date Analyzed:	09/18/2009 2224			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-424-0.0/1.0-XXX**

Lab Sample ID: 360-24634-8
Client Matrix: Solid
% Moisture: 12.9

Date Sampled: 09/15/2009 1720
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45154.D
Dilution:	1.0			Initial Weight/Volume:	5.80 g
Date Analyzed:	09/18/2009 2248			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	4.9
2,4,4-Trimethyl-2-pentene		ND		0.99	4.9
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	4.9
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	4.9
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	4.9
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		0.99	2.5

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-424-0.0/1.0-XXX**

Lab Sample ID: 360-24634-8
Client Matrix: Solid
% Moisture: 12.9

Date Sampled: 09/15/2009 1720
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45154.D
Dilution:	1.0			Initial Weight/Volume:	5.80 g
Date Analyzed:	09/18/2009 2248			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND J		0.99	4.9
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	4.9
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		ND		5.4	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	4.9
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-424-0.0/1.0-XXX**

Lab Sample ID: 360-24634-8
Client Matrix: Solid
% Moisture: 12.9

Date Sampled: 09/15/2009 1720
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45154.D
Dilution:	1.0			Initial Weight/Volume:	5.80 g
Date Analyzed:	09/18/2009 2248			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	1.5	T J

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-425-0.0/1.0-XXX**

Lab Sample ID: 360-24634-9
Client Matrix: Solid % Moisture: 17.2

Date Sampled: 09/15/2009 1740
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45155.D
Dilution:	1.0			Initial Weight/Volume:	6.34 g
Date Analyzed:	09/18/2009 2313			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.95	2.4
1,1,1-Trichloroethane		ND		0.95	2.4
1,1,2,2-Tetrachloroethane		ND		0.95	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.95	12
1,1,2-Trichloroethane		ND		0.95	2.4
1,1-Dichloroethane		ND		0.95	2.4
1,1-Dichloroethene		ND		0.95	2.4
1,1-Dichloropropene		ND		0.95	2.4
1,2,3-Trichlorobenzene		ND		0.95	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.95	2.4
1,2,4-Trimethylbenzene		ND		0.95	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.95	2.4
1,2-Dichlorobenzene		ND		0.95	2.4
1,2-Dichloroethane		ND		0.95	2.4
Acetone		ND	J	17	240
1,2-Dichloropropane		ND		0.95	2.4
1,3,5-Trimethylbenzene		ND		0.95	2.4
1,3-Dichlorobenzene		ND		0.95	2.4
1,3-Dichloropropane		ND		0.95	2.4
1,4-Dichlorobenzene		ND		0.95	2.4
1,4-Dioxane		ND	J	31	240
2,2-Dichloropropane		ND		0.95	2.4
2,4,4-Trimethyl-1-pentene		ND		0.95	4.8
2,4,4-Trimethyl-2-pentene		ND		0.95	4.8
2-Chlorotoluene		ND		0.95	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.95	2.4
Benzene		ND		0.95	2.4
Bromobenzene		ND		0.95	2.4
Chlorobromomethane		ND		0.95	2.4
Dichlorobromomethane		ND		0.95	2.4
Bromoform		ND		0.95	2.4
Bromomethane		ND		0.95	4.8
n-Butylbenzene		ND		0.95	2.4
Carbon disulfide		ND		0.95	2.4
Carbon tetrachloride		ND		0.95	2.4
Chlorobenzene		ND		0.95	2.4
Chloroethane		ND		0.95	4.8
Chloroform		ND		0.95	2.4
Chloromethane		ND		0.95	4.8
cis-1,2-Dichloroethene		ND		0.95	2.4
cis-1,3-Dichloropropene		ND		0.95	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.95	2.4

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-425-0.0/1.0-XXX**

Lab Sample ID: 360-24634-9
Client Matrix: Solid
% Moisture: 17.2

Date Sampled: 09/15/2009 1740
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45155.D
Dilution:	1.0			Initial Weight/Volume:	6.34 g
Date Analyzed:	09/18/2009 2313			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.95	2.4
Dichlorodifluoromethane		ND	J	0.95	4.8
Ethyl ether		ND		0.95	2.4
Isopropyl ether		ND		0.95	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.95	2.4
Hexachlorobutadiene		ND		0.95	2.4
Isopropylbenzene		ND		0.95	2.4
Methyl acetate		ND		15	48
2-Butanone (MEK)		ND		6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.95	2.4
Methylcyclohexane		ND		0.95	2.4
Methylene Chloride		ND		4.6	9.5
m-Xylene & p-Xylene		ND		0.95	4.8
Naphthalene		ND		0.95	24
N-Propylbenzene		ND		0.95	2.4
o-Xylene		ND		0.95	2.4
4-Isopropyltoluene		ND		0.95	2.4
sec-Butylbenzene		ND		0.95	2.4
Styrene		ND		0.95	2.4
Tert-amyl methyl ether		ND		0.95	2.4
tert-Butylbenzene		ND		0.95	2.4
Tetrachloroethene		ND		0.95	2.4
Tetrahydrofuran		ND		5.2	24
Toluene		ND		0.95	2.4
trans-1,2-Dichloroethene		ND		0.95	2.4
trans-1,3-Dichloropropene		ND		0.95	2.4
Trichloroethene		ND		0.95	2.4
Trichlorofluoromethane		ND		0.95	4.8
Vinyl chloride		ND		0.95	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-425-0.0/1.0-XXX**

Lab Sample ID: 360-24634-9
Client Matrix: Solid
% Moisture: 17.2

Date Sampled: 09/15/2009 1740
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45155.D
Dilution:	1.0			Initial Weight/Volume:	6.34 g
Date Analyzed:	09/18/2009 2313			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	1.3	T J

TC
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Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-426-0.0/1.0-XXX**

Lab Sample ID: 360-24634-10
Client Matrix: Solid
% Moisture: 8.5

Date Sampled: 09/16/2009 0915
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45156.D
Dilution:	1.0			Initial Weight/Volume:	5.74 g
Date Analyzed:	09/18/2009 2337			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.95	2.4
1,1,1-Trichloroethane		ND		0.95	2.4
1,1,2,2-Tetrachloroethane		ND		0.95	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.95	12
1,1,2-Trichloroethane		ND		0.95	2.4
1,1-Dichloroethane		ND		0.95	2.4
1,1-Dichloroethene		ND		0.95	2.4
1,1-Dichloropropene		ND		0.95	2.4
1,2,3-Trichlorobenzene		ND		0.95	2.4
1,2,3-Trichloropropane		ND		1.4	2.4
1,2,4-Trichlorobenzene		ND		0.95	2.4
1,2,4-Trimethylbenzene		ND		0.95	2.4
1,2-Dibromo-3-Chloropropane		ND		1.7	24
Ethylene Dibromide		ND		0.95	2.4
1,2-Dichlorobenzene		ND		0.95	2.4
1,2-Dichloroethane		ND		0.95	2.4
Acetone		ND	J	17	240
1,2-Dichloropropane		ND		0.95	2.4
1,3,5-Trimethylbenzene		ND		0.95	2.4
1,3-Dichlorobenzene		ND		0.95	2.4
1,3-Dichloropropane		ND		0.95	2.4
1,4-Dichlorobenzene		ND		0.95	2.4
1,4-Dioxane		ND	J	31	240
2,2-Dichloropropane		ND		0.95	2.4
2,4,4-Trimethyl-1-pentene		ND		0.95	4.8
2,4,4-Trimethyl-2-pentene		ND		0.95	4.8
2-Chlorotoluene		ND		0.95	2.4
2-Hexanone		ND		4.9	24
4-Chlorotoluene		ND		0.95	2.4
Benzene		ND		0.95	2.4
Bromobenzene		ND		0.95	2.4
Chlorobromomethane		ND		0.95	2.4
Dichlorobromomethane		ND		0.95	2.4
Bromoform		ND		0.95	2.4
Bromomethane		ND		0.95	4.8
n-Butylbenzene		ND		0.95	2.4
Carbon disulfide		ND		0.95	2.4
Carbon tetrachloride		ND		0.95	2.4
Chlorobenzene		ND		0.95	2.4
Chloroethane		ND		0.95	4.8
Chloroform		ND		0.95	2.4
Chloromethane		ND		0.95	4.8
cis-1,2-Dichloroethene		ND		0.95	2.4
cis-1,3-Dichloropropene		ND		0.95	2.4
Cyclohexane		ND		2.5	24
Chlorodibromomethane		ND		0.95	2.4

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-426-0.0/1.0-XXX**

Lab Sample ID: 360-24634-10
Client Matrix: Solid
% Moisture: 8.5

Date Sampled: 09/16/2009 0915
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45156.D
Dilution:	1.0			Initial Weight/Volume:	5.74 g
Date Analyzed:	09/18/2009 2337			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.95	2.4
Dichlorodifluoromethane		ND J		0.95	4.8
Ethyl ether		ND		0.95	2.4
Isopropyl ether		ND		0.95	2.4
Tert-butyl ethyl ether		ND		2.4	2.4
Ethylbenzene		ND		0.95	2.4
Hexachlorobutadiene		ND		0.95	2.4
Isopropylbenzene		ND		0.95	2.4
Methyl acetate		ND		15	48
2-Butanone (MEK)		ND		6.4	24
4-Methyl-2-pentanone (MIBK)		ND		4.9	24
Methyl tert-butyl ether		ND		0.95	2.4
Methylcyclohexane		ND		0.95	2.4
Methylene Chloride		ND		4.6	9.5
m-Xylene & p-Xylene		ND		0.95	4.8
Naphthalene		ND		0.95	24
N-Propylbenzene		ND		0.95	2.4
o-Xylene		ND		0.95	2.4
4-Isopropyltoluene		ND		0.95	2.4
sec-Butylbenzene		ND		0.95	2.4
Styrene		ND		0.95	2.4
Tert-amyl methyl ether		ND		0.95	2.4
tert-Butylbenzene		ND		0.95	2.4
Tetrachloroethene		ND		0.95	2.4
Tetrahydrofuran		ND		5.2	24
Toluene		ND		0.95	2.4
trans-1,2-Dichloroethene		ND		0.95	2.4
trans-1,3-Dichloropropene		ND		0.95	2.4
Trichloroethene		ND		0.95	2.4
Trichlorofluoromethane		ND		0.95	4.8
Vinyl chloride		ND		0.95	2.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-426-0.0/1.0-XXX**

Lab Sample ID: 360-24634-10
Client Matrix: Solid % Moisture: 8.5

Date Sampled: 09/16/2009 0915
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45156.D
Dilution:	1.0			Initial Weight/Volume:	5.74 g
Date Analyzed:	09/18/2009 2337			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.63	7.1	T J

TC
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Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-427-0.0/1.0-XXX**

Lab Sample ID: 360-24634-11
Client Matrix: Solid
% Moisture: 17.6

Date Sampled: 09/16/2009 0940
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45157.D
Dilution:	1.0			Initial Weight/Volume:	4.42 g
Date Analyzed:	09/19/2009 0002			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.4	3.4
1,1,1-Trichloroethane		ND		1.4	3.4
1,1,2,2-Tetrachloroethane		ND		1.4	3.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.4	17
1,1,2-Trichloroethane		ND		1.4	3.4
1,1-Dichloroethane		ND		1.4	3.4
1,1-Dichloroethene		ND		1.4	3.4
1,1-Dichloropropene		ND		1.4	3.4
1,2,3-Trichlorobenzene		ND		1.4	3.4
1,2,3-Trichloropropane		ND		2.0	3.4
1,2,4-Trichlorobenzene		ND		1.4	3.4
1,2,4-Trimethylbenzene		ND		1.4	3.4
1,2-Dibromo-3-Chloropropane		ND		2.5	34
Ethylene Dibromide		ND		1.4	3.4
1,2-Dichlorobenzene		ND		1.4	3.4
1,2-Dichloroethane		ND		1.4	3.4
Acetone		ND	J	25	340
1,2-Dichloropropane		ND		1.4	3.4
1,3,5-Trimethylbenzene		ND		1.4	3.4
1,3-Dichlorobenzene		ND		1.4	3.4
1,3-Dichloropropane		ND		1.4	3.4
1,4-Dichlorobenzene		ND		1.4	3.4
1,4-Dioxane		ND	J	45	340
2,2-Dichloropropane		ND		1.4	3.4
2,4,4-Trimethyl-1-pentene		ND		1.4	6.9
2,4,4-Trimethyl-2-pentene		ND		1.4	6.9
2-Chlorotoluene		ND		1.4	3.4
2-Hexanone		ND		7.1	34
4-Chlorotoluene		ND		1.4	3.4
Benzene		ND		1.4	3.4
Bromobenzene		ND		1.4	3.4
Chlorobromomethane		ND		1.4	3.4
Dichlorobromomethane		ND		1.4	3.4
Bromoform		ND		1.4	3.4
Bromomethane		ND		1.4	6.9
n-Butylbenzene		ND		1.4	3.4
Carbon disulfide		ND		1.4	3.4
Carbon tetrachloride		ND		1.4	3.4
Chlorobenzene		ND		1.4	3.4
Chloroethane		ND		1.4	6.9
Chloroform		ND		1.4	3.4
Chloromethane		ND		1.4	6.9
cis-1,2-Dichloroethene		ND		1.4	3.4
cis-1,3-Dichloropropene		ND		1.4	3.4
Cyclohexane		ND		3.5	34
Chlorodibromomethane		ND		1.4	3.4

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-427-0.0/1.0-XXX**

Lab Sample ID: 360-24634-11
Client Matrix: Solid
% Moisture: 17.6

Date Sampled: 09/16/2009 0940
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45157.D
Dilution:	1.0			Initial Weight/Volume:	4.42 g
Date Analyzed:	09/19/2009 0002			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.4	3.4
Dichlorodifluoromethane		ND	J	1.4	6.9
Ethyl ether		ND		1.4	3.4
Isopropyl ether		ND		1.4	3.4
Tert-butyl ethyl ether		ND		3.4	3.4
Ethylbenzene		ND		1.4	3.4
Hexachlorobutadiene		ND		1.4	3.4
Isopropylbenzene		ND		1.4	3.4
Methyl acetate		ND		22	69
2-Butanone (MEK)		ND		9.3	34
4-Methyl-2-pentanone (MIBK)		ND		7.1	34
Methyl tert-butyl ether		ND		1.4	3.4
Methylcyclohexane		ND		1.4	3.4
Methylene Chloride		ND		6.6	14
m-Xylene & p-Xylene		ND		1.4	6.9
Naphthalene		ND		1.4	34
N-Propylbenzene		ND		1.4	3.4
o-Xylene		ND		1.4	3.4
4-Isopropyltoluene		ND		1.4	3.4
sec-Butylbenzene		ND		1.4	3.4
Styrene		ND		1.4	3.4
Tert-amyl methyl ether		ND		1.4	3.4
tert-Butylbenzene		ND		1.4	3.4
Tetrachloroethene		ND		1.4	3.4
Tetrahydrofuran		ND		7.6	34
Toluene		ND		1.4	3.4
trans-1,2-Dichloroethene		ND		1.4	3.4
trans-1,3-Dichloropropene		ND		1.4	3.4
Trichloroethene		ND		1.4	3.4
Trichlorofluoromethane		ND		1.4	6.9
Vinyl chloride		ND		1.4	3.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-427-0.0/1.0-XXX**

Lab Sample ID: 360-24634-11
Client Matrix: Solid
% Moisture: 17.6

Date Sampled: 09/16/2009 0940
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45157.D
Dilution:	1.0			Initial Weight/Volume:	4.42 g
Date Analyzed:	09/19/2009 0002			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.67	3.8	T J

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-428-0.0/1.0-XXX**

Lab Sample ID: 360-24634-12
Client Matrix: Solid
% Moisture: 15.8

Date Sampled: 09/16/2009 1005
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45158.D
Dilution:	1.0			Initial Weight/Volume:	6.01 g
Date Analyzed:	09/19/2009 0026			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.99	2.5
1,1,1-Trichloroethane		ND		0.99	2.5
1,1,2,2-Tetrachloroethane		ND		0.99	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	12
1,1,2-Trichloroethane		ND		0.99	2.5
1,1-Dichloroethane		ND		0.99	2.5
1,1-Dichloroethene		ND		0.99	2.5
1,1-Dichloropropene		ND		0.99	2.5
1,2,3-Trichlorobenzene		ND		0.99	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		0.99	2.5
1,2,4-Trimethylbenzene		ND		0.99	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		0.99	2.5
1,2-Dichlorobenzene		ND		0.99	2.5
1,2-Dichloroethane		ND		0.99	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		0.99	2.5
1,3,5-Trimethylbenzene		ND		0.99	2.5
1,3-Dichlorobenzene		ND		0.99	2.5
1,3-Dichloropropane		ND		0.99	2.5
1,4-Dichlorobenzene		ND		0.99	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		0.99	2.5
2,4,4-Trimethyl-1-pentene		ND		0.99	4.9
2,4,4-Trimethyl-2-pentene		ND		0.99	4.9
2-Chlorotoluene		ND		0.99	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		0.99	2.5
Benzene		ND		0.99	2.5
Bromobenzene		ND		0.99	2.5
Chlorobromomethane		ND		0.99	2.5
Dichlorobromomethane		ND		0.99	2.5
Bromoform		ND		0.99	2.5
Bromomethane		ND		0.99	4.9
n-Butylbenzene		ND		0.99	2.5
Carbon disulfide		ND		0.99	2.5
Carbon tetrachloride		ND		0.99	2.5
Chlorobenzene		ND		0.99	2.5
Chloroethane		ND		0.99	4.9
Chloroform		ND		0.99	2.5
Chloromethane		ND		0.99	4.9
cis-1,2-Dichloroethene		ND		0.99	2.5
cis-1,3-Dichloropropene		ND		0.99	2.5
Cyclohexane		ND		2.5	25
Chlorodibromomethane		ND		0.99	2.5

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-428-0.0/1.0-XXX**

Lab Sample ID: 360-24634-12
Client Matrix: Solid % Moisture: 15.8

Date Sampled: 09/16/2009 1005
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45158.D
Dilution:	1.0			Initial Weight/Volume:	6.01 g
Date Analyzed:	09/19/2009 0026			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.99	2.5
Dichlorodifluoromethane		ND J		0.99	4.9
Ethyl ether		ND		0.99	2.5
Isopropyl ether		ND		0.99	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		0.99	2.5
Hexachlorobutadiene		ND		0.99	2.5
Isopropylbenzene		ND		0.99	2.5
Methyl acetate		ND		16	49
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND		0.99	2.5
Methylcyclohexane		ND		0.99	2.5
Methylene Chloride		ND		4.8	9.9
m-Xylene & p-Xylene		ND		0.99	4.9
Naphthalene		ND		0.99	25
N-Propylbenzene		ND		0.99	2.5
o-Xylene		ND		0.99	2.5
4-Isopropyltoluene		ND		0.99	2.5
sec-Butylbenzene		ND		0.99	2.5
Styrene		ND		0.99	2.5
Tert-amyl methyl ether		ND		0.99	2.5
tert-Butylbenzene		ND		0.99	2.5
Tetrachloroethene		ND		0.99	2.5
Tetrahydrofuran		ND		5.4	25
Toluene		ND		0.99	2.5
trans-1,2-Dichloroethene		ND		0.99	2.5
trans-1,3-Dichloropropene		ND		0.99	2.5
Trichloroethene		ND		0.99	2.5
Trichlorofluoromethane		ND		0.99	4.9
Vinyl chloride		ND		0.99	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	101		70 - 130

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-428-0.0/1.0-XXX**

Lab Sample ID: 360-24634-12
Client Matrix: Solid % Moisture: 15.8

Date Sampled: 09/16/2009 1005
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49180		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49178		Lab File ID:	V45158.D
Dilution:	1.0			Initial Weight/Volume:	6.01 g
Date Analyzed:	09/19/2009 0026			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-429-0.0/1.0-XXX**

Lab Sample ID: 360-24634-13
Client Matrix: Solid % Moisture: 17.5

Date Sampled: 09/16/2009 1025
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45194.D
Dilution:	1.0			Initial Weight/Volume:	4.64 g
Date Analyzed:	09/21/2009 2026			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.3	3.3
1,1,1-Trichloroethane		ND		1.3	3.3
1,1,2,2-Tetrachloroethane		ND		1.3	3.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	16
1,1,2-Trichloroethane		ND		1.3	3.3
1,1-Dichloroethane		ND		1.3	3.3
1,1-Dichloroethene		ND		1.3	3.3
1,1-Dichloropropene		ND		1.3	3.3
1,2,3-Trichlorobenzene		ND		1.3	3.3
1,2,3-Trichloropropane		ND		1.9	3.3
1,2,4-Trichlorobenzene		ND		1.3	3.3
1,2,4-Trimethylbenzene		ND		1.3	3.3
1,2-Dibromo-3-Chloropropane		ND		2.3	33
Ethylene Dibromide		ND		1.3	3.3
1,2-Dichlorobenzene		ND		1.3	3.3
1,2-Dichloroethane		ND		1.3	3.3
Acetone		ND	J	23	330
1,2-Dichloropropane		ND		1.3	3.3
1,3,5-Trimethylbenzene		ND		1.3	3.3
1,3-Dichlorobenzene		ND		1.3	3.3
1,3-Dichloropropane		ND		1.3	3.3
1,4-Dichlorobenzene		ND		1.3	3.3
1,4-Dioxane		ND	J	43	330
2,2-Dichloropropane		ND		1.3	3.3
2,4,4-Trimethyl-1-pentene		ND		1.3	6.5
2,4,4-Trimethyl-2-pentene		ND		1.3	6.5
2-Chlorotoluene		ND		1.3	3.3
2-Hexanone		ND		6.7	33
4-Chlorotoluene		ND		1.3	3.3
Benzene		ND		1.3	3.3
Bromobenzene		ND		1.3	3.3
Chlorobromomethane		ND		1.3	3.3
Dichlorobromomethane		ND		1.3	3.3
Bromoform		ND		1.3	3.3
Bromomethane		ND		1.3	6.5
n-Butylbenzene		ND		1.3	3.3
Carbon disulfide		ND		1.3	3.3
Carbon tetrachloride		ND		1.3	3.3
Chlorobenzene		ND		1.3	3.3
Chloroethane		ND		1.3	6.5
Chloroform		ND		1.3	3.3
Chloromethane		ND		1.3	6.5
cis-1,2-Dichloroethene		ND		1.3	3.3
cis-1,3-Dichloropropene		ND		1.3	3.3
Cyclohexane		ND		3.4	33
Chlorodibromomethane		ND		1.3	3.3

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-429-0.0/1.0-XXX**

Lab Sample ID: 360-24634-13
Client Matrix: Solid
% Moisture: 17.5

Date Sampled: 09/16/2009 1025
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45194.D
Dilution:	1.0			Initial Weight/Volume:	4.64 g
Date Analyzed:	09/21/2009 2026			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.3	3.3
Dichlorodifluoromethane		ND	J	1.3	6.5
Ethyl ether		ND		1.3	3.3
Isopropyl ether		ND		1.3	3.3
Tert-butyl ethyl ether		ND		3.3	3.3
Ethylbenzene		ND		1.3	3.3
Hexachlorobutadiene		ND		1.3	3.3
Isopropylbenzene		ND		1.3	3.3
Methyl acetate		ND		21	65
2-Butanone (MEK)		ND		8.8	33
4-Methyl-2-pentanone (MIBK)		ND		6.7	33
Methyl tert-butyl ether		ND		1.3	3.3
Methylcyclohexane		ND		1.3	3.3
Methylene Chloride		ND		6.3	13
m-Xylene & p-Xylene		ND		1.3	6.5
Naphthalene		ND		1.3	33
N-Propylbenzene		ND		1.3	3.3
o-Xylene		ND		1.3	3.3
4-Isopropyltoluene		ND		1.3	3.3
sec-Butylbenzene		ND		1.3	3.3
Styrene		ND		1.3	3.3
Tert-amyl methyl ether		ND		1.3	3.3
tert-Butylbenzene		ND		1.3	3.3
Tetrachloroethene		ND		1.3	3.3
Tetrahydrofuran		ND		7.2	33
Toluene		ND		1.3	3.3
trans-1,2-Dichloroethene		ND		1.3	3.3
trans-1,3-Dichloropropene		ND		1.3	3.3
Trichloroethene		ND		1.3	3.3
Trichlorofluoromethane		ND		1.3	6.5
Vinyl chloride		ND		1.3	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	104		70 - 130

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-429-0.0/1.0-XXX**

Lab Sample ID: 360-24634-13
Client Matrix: Solid
% Moisture: 17.5

Date Sampled: 09/16/2009 1025
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45194.D
Dilution:	1.0			Initial Weight/Volume:	4.64 g
Date Analyzed:	09/21/2009 2026			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
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Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-430-0.0/1.0-XXX**

Lab Sample ID: 360-24634-14
Client Matrix: Solid
% Moisture: 24.2

Date Sampled: 09/16/2009 1050
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45195.D
Dilution:	1.0			Initial Weight/Volume:	5.52 g
Date Analyzed:	09/21/2009 2050			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.2	3.0
1,1,1-Trichloroethane		ND		1.2	3.0
1,1,2,2-Tetrachloroethane		ND		1.2	3.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	15
1,1,2-Trichloroethane		ND		1.2	3.0
1,1-Dichloroethane		ND		1.2	3.0
1,1-Dichloroethene		ND		1.2	3.0
1,1-Dichloropropene		ND		1.2	3.0
1,2,3-Trichlorobenzene		ND		1.2	3.0
1,2,3-Trichloropropane		ND		1.8	3.0
1,2,4-Trichlorobenzene		ND		1.2	3.0
1,2,4-Trimethylbenzene		ND		1.2	3.0
1,2-Dibromo-3-Chloropropane		ND		2.1	30
Ethylene Dibromide		ND		1.2	3.0
1,2-Dichlorobenzene		ND		1.2	3.0
1,2-Dichloroethane		ND		1.2	3.0
Acetone		ND	J	21	300
1,2-Dichloropropane		ND		1.2	3.0
1,3,5-Trimethylbenzene		ND		1.2	3.0
1,3-Dichlorobenzene		ND		1.2	3.0
1,3-Dichloropropane		ND		1.2	3.0
1,4-Dichlorobenzene		ND		1.2	3.0
1,4-Dioxane		ND	J	39	300
2,2-Dichloropropane		ND		1.2	3.0
2,4,4-Trimethyl-1-pentene		ND		1.2	6.0
2,4,4-Trimethyl-2-pentene		ND		1.2	6.0
2-Chlorotoluene		ND		1.2	3.0
2-Hexanone		ND		6.1	30
4-Chlorotoluene		ND		1.2	3.0
Benzene		ND		1.2	3.0
Bromobenzene		ND		1.2	3.0
Chlorobromomethane		ND		1.2	3.0
Dichlorobromomethane		ND		1.2	3.0
Bromoform		ND		1.2	3.0
Bromomethane		ND		1.2	6.0
n-Butylbenzene		ND		1.2	3.0
Carbon disulfide		ND		1.2	3.0
Carbon tetrachloride		ND		1.2	3.0
Chlorobenzene		ND		1.2	3.0
Chloroethane		ND		1.2	6.0
Chloroform		ND		1.2	3.0
Chloromethane		ND		1.2	6.0
cis-1,2-Dichloroethene		ND		1.2	3.0
cis-1,3-Dichloropropene		ND		1.2	3.0
Cyclohexane		ND		3.1	30
Chlorodibromomethane		ND		1.2	3.0

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-430-0.0/1.0-XXX**

Lab Sample ID: 360-24634-14
Client Matrix: Solid
% Moisture: 24.2

Date Sampled: 09/16/2009 1050
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45195.D
Dilution:	1.0			Initial Weight/Volume:	5.52 g
Date Analyzed:	09/21/2009 2050			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.2	3.0
Dichlorodifluoromethane		ND	J	1.2	6.0
Ethyl ether		ND		1.2	3.0
Isopropyl ether		ND		1.2	3.0
Tert-butyl ethyl ether		ND		3.0	3.0
Ethylbenzene		ND		1.2	3.0
Hexachlorobutadiene		ND		1.2	3.0
Isopropylbenzene		ND		1.2	3.0
Methyl acetate		ND		19	60
2-Butanone (MEK)		ND		8.1	30
4-Methyl-2-pentanone (MIBK)		ND		6.2	30
Methyl tert-butyl ether		ND		1.2	3.0
Methylcyclohexane		ND		1.2	3.0
Methylene Chloride		ND		5.8	12
m-Xylene & p-Xylene		ND		1.2	6.0
Naphthalene		ND		1.2	30
N-Propylbenzene		ND		1.2	3.0
o-Xylene		ND		1.2	3.0
4-Isopropyltoluene		ND		1.2	3.0
sec-Butylbenzene		ND		1.2	3.0
Styrene		ND		1.2	3.0
Tert-amyl methyl ether		ND		1.2	3.0
tert-Butylbenzene		ND		1.2	3.0
Tetrachloroethene		ND		1.2	3.0
Tetrahydrofuran		ND		6.6	30
Toluene		ND		1.2	3.0
trans-1,2-Dichloroethene		ND		1.2	3.0
trans-1,3-Dichloropropene		ND		1.2	3.0
Trichloroethene		ND		1.2	3.0
Trichlorofluoromethane		ND		1.2	6.0
Vinyl chloride		ND		1.2	3.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	102		70 - 130

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-430-0.0/1.0-XXX**

Lab Sample ID: 360-24634-14
Client Matrix: Solid
% Moisture: 24.2

Date Sampled: 09/16/2009 1050
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45195.D
Dilution:	1.0			Initial Weight/Volume:	5.52 g
Date Analyzed:	09/21/2009 2050			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.65	1.9	T J

TC
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Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-431-0.0/1.0-XXX**

Lab Sample ID: 360-24634-15
Client Matrix: Solid % Moisture: 12.8

Date Sampled: 09/16/2009 1135
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45196.D
Dilution:	1.0			Initial Weight/Volume:	6.31 g
Date Analyzed:	09/21/2009 2114			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.91	2.3
1,1,1-Trichloroethane		ND		0.91	2.3
1,1,2,2-Tetrachloroethane		ND		0.91	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.91	11
1,1,2-Trichloroethane		ND		0.91	2.3
1,1-Dichloroethane		ND		0.91	2.3
1,1-Dichloroethene		ND		0.91	2.3
1,1-Dichloropropene		ND		0.91	2.3
1,2,3-Trichlorobenzene		ND		0.91	2.3
1,2,3-Trichloropropane		ND		1.3	2.3
1,2,4-Trichlorobenzene		ND		0.91	2.3
1,2,4-Trimethylbenzene		ND		0.91	2.3
1,2-Dibromo-3-Chloropropane		ND		1.6	23
Ethylene Dibromide		ND		0.91	2.3
1,2-Dichlorobenzene		ND		0.91	2.3
1,2-Dichloroethane		ND		0.91	2.3
Acetone		ND	J	16	230
1,2-Dichloropropane		ND		0.91	2.3
1,3,5-Trimethylbenzene		ND		0.91	2.3
1,3-Dichlorobenzene		ND		0.91	2.3
1,3-Dichloropropane		ND		0.91	2.3
1,4-Dichlorobenzene		ND		0.91	2.3
1,4-Dioxane		ND	J	30	230
2,2-Dichloropropane		ND		0.91	2.3
2,4,4-Trimethyl-1-pentene		ND		0.91	4.5
2,4,4-Trimethyl-2-pentene		ND		0.91	4.5
2-Chlorotoluene		ND		0.91	2.3
2-Hexanone		ND		4.7	23
4-Chlorotoluene		ND		0.91	2.3
Benzene		ND		0.91	2.3
Bromobenzene		ND		0.91	2.3
Chlorobromomethane		ND		0.91	2.3
Dichlorobromomethane		ND		0.91	2.3
Bromoform		ND		0.91	2.3
Bromomethane		ND		0.91	4.5
n-Butylbenzene		ND		0.91	2.3
Carbon disulfide		ND		0.91	2.3
Carbon tetrachloride		ND		0.91	2.3
Chlorobenzene		ND		0.91	2.3
Chloroethane		ND		0.91	4.5
Chloroform		ND		0.91	2.3
Chloromethane		ND		0.91	4.5
cis-1,2-Dichloroethene		ND		0.91	2.3
cis-1,3-Dichloropropene		ND		0.91	2.3
Cyclohexane		ND		2.3	23
Chlorodibromomethane		ND		0.91	2.3

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TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-431-0.0/1.0-XXX**

Lab Sample ID: 360-24634-15
Client Matrix: Solid
% Moisture: 12.8

Date Sampled: 09/16/2009 1135
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45196.D
Dilution:	1.0			Initial Weight/Volume:	6.31 g
Date Analyzed:	09/21/2009 2114			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.91	2.3
Dichlorodifluoromethane		ND J		0.91	4.5
Ethyl ether		ND		0.91	2.3
Isopropyl ether		ND		0.91	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.91	2.3
Hexachlorobutadiene		ND		0.91	2.3
Isopropylbenzene		ND		0.91	2.3
Methyl acetate		ND		15	45
2-Butanone (MEK)		ND		6.1	23
4-Methyl-2-pentanone (MIBK)		ND		4.7	23
Methyl tert-butyl ether		ND		0.91	2.3
Methylcyclohexane		ND		0.91	2.3
Methylene Chloride		ND		4.4	9.1
m-Xylene & p-Xylene		ND		0.91	4.5
Naphthalene		ND		0.91	23
N-Propylbenzene		ND		0.91	2.3
o-Xylene		ND		0.91	2.3
4-Isopropyltoluene		ND		0.91	2.3
sec-Butylbenzene		ND		0.91	2.3
Styrene		ND		0.91	2.3
Tert-amyl methyl ether		ND		0.91	2.3
tert-Butylbenzene		ND		0.91	2.3
Tetrachloroethene		ND		0.91	2.3
Tetrahydrofuran		ND		5.0	23
Toluene		ND		0.91	2.3
trans-1,2-Dichloroethene		ND		0.91	2.3
trans-1,3-Dichloropropene		ND		0.91	2.3
Trichloroethene		ND		0.91	2.3
Trichlorofluoromethane		ND		0.91	4.5
Vinyl chloride		ND		0.91	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-431-0.0/1.0-XXX**

Lab Sample ID: 360-24634-15
Client Matrix: Solid
% Moisture: 12.8

Date Sampled: 09/16/2009 1135
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45196.D
Dilution:	1.0			Initial Weight/Volume:	6.31 g
Date Analyzed:	09/21/2009 2114			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-432-0.0/1.0-XXX**

Lab Sample ID: 360-24634-16
Client Matrix: Solid % Moisture: 15.5

Date Sampled: 09/16/2009 1155
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45197.D
Dilution:	1.0			Initial Weight/Volume:	4.70 g
Date Analyzed:	09/21/2009 2138			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.3	3.1
1,1,1-Trichloroethane		ND		1.3	3.1
1,1,2,2-Tetrachloroethane		ND		1.3	3.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	16
1,1,2-Trichloroethane		ND		1.3	3.1
1,1-Dichloroethane		ND		1.3	3.1
1,1-Dichloroethene		ND		1.3	3.1
1,1-Dichloropropene		ND		1.3	3.1
1,2,3-Trichlorobenzene		ND		1.3	3.1
1,2,3-Trichloropropane		ND		1.9	3.1
1,2,4-Trichlorobenzene		ND		1.3	3.1
1,2,4-Trimethylbenzene		ND		1.3	3.1
1,2-Dibromo-3-Chloropropane		ND		2.3	31
Ethylene Dibromide		ND		1.3	3.1
1,2-Dichlorobenzene		ND		1.3	3.1
1,2-Dichloroethane		ND		1.3	3.1
Acetone		ND	J	23	310
1,2-Dichloropropane		ND		1.3	3.1
1,3,5-Trimethylbenzene		ND		1.3	3.1
1,3-Dichlorobenzene		ND		1.3	3.1
1,3-Dichloropropane		ND		1.3	3.1
1,4-Dichlorobenzene		ND		1.3	3.1
1,4-Dioxane		ND	J	42	310
2,2-Dichloropropane		ND		1.3	3.1
2,4,4-Trimethyl-1-pentene		ND		1.3	6.3
2,4,4-Trimethyl-2-pentene		ND		1.3	6.3
2-Chlorotoluene		ND		1.3	3.1
2-Hexanone		ND		6.5	31
4-Chlorotoluene		ND		1.3	3.1
Benzene		ND		1.3	3.1
Bromobenzene		ND		1.3	3.1
Chlorobromomethane		ND		1.3	3.1
Dichlorobromomethane		ND		1.3	3.1
Bromoform		ND		1.3	3.1
Bromomethane		ND		1.3	6.3
n-Butylbenzene		ND		1.3	3.1
Carbon disulfide		ND		1.3	3.1
Carbon tetrachloride		ND		1.3	3.1
Chlorobenzene		ND		1.3	3.1
Chloroethane		ND		1.3	6.3
Chloroform		ND		1.3	3.1
Chloromethane		ND		1.3	6.3
cis-1,2-Dichloroethene		ND		1.3	3.1
cis-1,3-Dichloropropene		ND		1.3	3.1
Cyclohexane		ND		3.2	31
Chlorodibromomethane		ND		1.3	3.1

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-432-0.0/1.0-XXX**

Lab Sample ID: 360-24634-16
Client Matrix: Solid
% Moisture: 15.5

Date Sampled: 09/16/2009 1155
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45197.D
Dilution:	1.0			Initial Weight/Volume:	4.70 g
Date Analyzed:	09/21/2009 2138			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.3	3.1
Dichlorodifluoromethane		ND J		1.3	6.3
Ethyl ether		ND		1.3	3.1
Isopropyl ether		ND		1.3	3.1
Tert-butyl ethyl ether		ND		3.1	3.1
Ethylbenzene		ND		1.3	3.1
Hexachlorobutadiene		ND		1.3	3.1
Isopropylbenzene		ND		1.3	3.1
Methyl acetate		ND		20	63
2-Butanone (MEK)		ND		8.5	31
4-Methyl-2-pentanone (MIBK)		ND		6.5	31
Methyl tert-butyl ether		ND		1.3	3.1
Methylcyclohexane		ND		1.3	3.1
Methylene Chloride		ND		6.1	13
m-Xylene & p-Xylene		ND		1.3	6.3
Naphthalene		ND		1.3	31
N-Propylbenzene		ND		1.3	3.1
o-Xylene		ND		1.3	3.1
4-Isopropyltoluene		ND		1.3	3.1
sec-Butylbenzene		ND		1.3	3.1
Styrene		ND		1.3	3.1
Tert-amyl methyl ether		ND		1.3	3.1
tert-Butylbenzene		ND		1.3	3.1
Tetrachloroethene		ND		1.3	3.1
Tetrahydrofuran		ND		6.9	31
Toluene		ND		1.3	3.1
trans-1,2-Dichloroethene		ND		1.3	3.1
trans-1,3-Dichloropropene		ND		1.3	3.1
Trichloroethene		ND		1.3	3.1
Trichlorofluoromethane		ND		1.3	6.3
Vinyl chloride		ND		1.3	3.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	103		70 - 130

TC
4-10-11

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-SS-432-0.0/1.0-XXX**

Lab Sample ID: 360-24634-16
Client Matrix: Solid
% Moisture: 15.5

Date Sampled: 09/16/2009 1155
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45197.D
Dilution:	1.0			Initial Weight/Volume:	4.70 g
Date Analyzed:	09/21/2009 2138			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-TBK-020**

Lab Sample ID: 360-24634-17
Client Matrix: Solid

Date Sampled: 09/16/2009 1320
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45198.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/21/2009 2203			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

4-11-16
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-TBK-020**

Lab Sample ID: 360-24634-17
Client Matrix: Solid

Date Sampled: 09/16/2009 1320
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45198.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/21/2009 2203			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND		1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	103		70 - 130

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-TBK-020**

Lab Sample ID: 360-24634-17
Client Matrix: Solid

Date Sampled: 09/16/2009 1320
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45198.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/21/2009 2203			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-EBK-011**

Lab Sample ID: 360-24634-18
Client Matrix: Water

Date Sampled: 09/16/2009 0835
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2009 1830
Date Prepared: 09/21/2009 1830

Analysis Batch: 360-49272

Instrument ID: Agilent#2 GC/MS
Lab File ID: V07038.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND		0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND		0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	ND		0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-EBK-011**

Lab Sample ID: 360-24634-18
Client Matrix: Water

Date Sampled: 09/16/2009 0835
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2009 1830
Date Prepared: 09/21/2009 1830

Analysis Batch: 360-49272

Instrument ID: Agilent#2 GC/MS
Lab File ID: V07038.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND		0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		70 - 130
Dibromofluoromethane	114		70 - 130
Toluene-d8 (Surr)	93		70 - 130

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Client Sample ID: **OC-EBK-011**

Lab Sample ID: 360-24634-18
Client Matrix: Water

Date Sampled: 09/16/2009 0835
Date Received: 09/16/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49272		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V07038.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	09/21/2009 1830			Final Weight/Volume:	5 mL
Date Prepared:	09/21/2009 1830				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	1.67	3.0	T J
	Unknown	2.03	1.6	T J

4-11-18
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24634-1

SDG No.: OCRI-16

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

VJ Qual all 1,4-Dioxane from RRF <0.05

VJ Acetone
Dichlorodifluoromethane > ICV %D >30%

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24634-1

SDG No.: OCRI-16

Lab File ID: V45136.D BFB Injection Date: 09/18/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:34

Analysis Batch No.: 49180

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.3	
75	30.0 - 60.0 % of mass 95	51.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.5	
175	5.0 - 9.0 % of mass 174	5.2	(8.1)1
176	95.0 - 101.0 % of mass 174	61.8	(97.4)1
177	5.0 - 9.0 % of mass 176	4.2	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49180/2	V45137.D	09/18/2009	15:58
	LCS 360-49178/1-A	V45138.D	09/18/2009	16:23
	LCSD 360-49178/2-A	V45139.D	09/18/2009	16:47
	MB 360-49178/3-A	V45143.D	09/18/2009	18:22
OC-SS-417-0.0/1.0-XXX	360-24634-1	V45147.D	09/18/2009	20:00
OC-SS-418-0.0/1.0-XXX	360-24634-2	V45148.D	09/18/2009	20:24
OC-SS-419-0.0/1.0-XXX	360-24634-3	V45149.D	09/18/2009	20:48
OC-SS-420-0.0/1.0-XXX	360-24634-4	V45150.D	09/18/2009	21:12
OC-SS-421-0.0/1.0-XXX	360-24634-5	V45151.D	09/18/2009	21:36
OC-SS-422-0.0/1.0-XXX	360-24634-6	V45152.D	09/18/2009	22:00
OC-SS-423-0.0/1.0-XXX	360-24634-7	V45153.D	09/18/2009	22:24
OC-SS-424-0.0/1.0-XXX	360-24634-8	V45154.D	09/18/2009	22:48
OC-SS-425-0.0/1.0-XXX	360-24634-9	V45155.D	09/18/2009	23:13
OC-SS-426-0.0/1.0-XXX	360-24634-10	V45156.D	09/18/2009	23:37
OC-SS-427-0.0/1.0-XXX	360-24634-11	V45157.D	09/19/2009	00:02
OC-SS-428-0.0/1.0-XXX	360-24634-12	V45158.D	09/19/2009	00:26

w/in Control

Clean

LCS LCSD
Dichlordifluoromethane 60 60
Methyl Acetate 135 139 NO Quals no hits

4-11-10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24634-1

SDG No.: OCRI-16

Lab File ID: V45185.D BFB Injection Date: 09/21/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:51

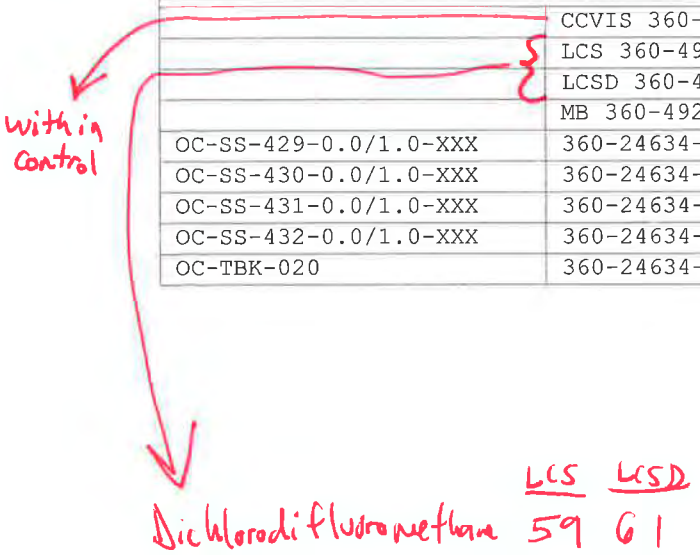
Analysis Batch No.: 49268

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.6	
75	30.0 - 60.0 % of mass 95	50.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.2	
175	5.0 - 9.0 % of mass 174	5.4	(8.2)1
176	95.0 - 101.0 % of mass 174	64.2	(97.0)1
177	5.0 - 9.0 % of mass 176	4.3	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49268/3	V45186.D	09/21/2009	17:15
	LCS 360-49267/1-A	V45187.D	09/21/2009	17:39
	LCSD 360-49267/2-A	V45188.D	09/21/2009	18:03
	MB 360-49267/3-A	V45190.D	09/21/2009	18:50
OC-SS-429-0.0/1.0-XXX	360-24634-13	V45194.D	09/21/2009	20:26
OC-SS-430-0.0/1.0-XXX	360-24634-14	V45195.D	09/21/2009	20:50
OC-SS-431-0.0/1.0-XXX	360-24634-15	V45196.D	09/21/2009	21:14
OC-SS-432-0.0/1.0-XXX	360-24634-16	V45197.D	09/21/2009	21:38
OC-TBK-020	360-24634-17	V45198.D	09/21/2009	22:03



FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24634-1

SDG No.: OCRI-16

Lab File ID: V06995.D BFB Injection Date: 09/18/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 17:04

Analysis Batch No.: 49192

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.9	
75	30.0 - 60.0 % of mass 95	51.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	1.1	(1.4)1
174	50.0 - 120.00 % of mass 95	78.6	
175	5.0 - 9.0 % of mass 174	5.8	(7.3)1
176	95.0 - 101.0 % of mass 174	75.7	(96.4)1
177	5.0 - 9.0 % of mass 176	5.2	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-49192/2	V06996.D	09/18/2009	17:26
	STD03 360-49192/4	V06998.D	09/18/2009	18:08
	STD05 360-49192/5	V06999.D	09/18/2009	18:29
	STD1 360-49192/6	V07000.D	09/18/2009	18:50
	STD5 360-49192/7	V07001.D	09/18/2009	19:11
	STD10 360-49192/8	V07002.D	09/18/2009	19:32
	STD40 360-49192/9	V07003.D	09/18/2009	19:53
	STD80 360-49192/10	V07004.D	09/18/2009	20:14
	STD160 360-49192/11	V07005.D	09/18/2009	20:34

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24634-1

SDG No.: OCRI-16

Lab File ID: V07032.D BFB Injection Date: 09/21/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 16:24

Analysis Batch No.: 49272

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	53.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.7	(1.0)1
174	50.0 - 120.00 % of mass 95	70.2	
175	5.0 - 9.0 % of mass 174	5.2	(7.4)1
176	95.0 - 101.0 % of mass 174	68.1	(96.9)1
177	5.0 - 9.0 % of mass 176	4.1	(6.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 360-49272/2	V07033.D	09/21/2009	16:45
	LCS 360-49272/3	V07034.D	09/21/2009	17:06
	LCSD 360-49272/4	V07035.D	09/21/2009	17:27
	MB 360-49272/6	V07037.D	09/21/2009	18:09
OC-EBK-011	360-24634-18	V07038.D	09/21/2009	18:30

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
360-24634-1	OC-SS-417-0.0/1.0-XX	96	103	103
360-24634-2	OC-SS-418-0.0/1.0-XX	100	104	102
360-24634-3	OC-SS-419-0.0/1.0-XX	100	104	100
360-24634-4	OC-SS-420-0.0/1.0-XX	100	101	99
360-24634-5	OC-SS-421-0.0/1.0-XX	98	100	103
360-24634-6	OC-SS-422-0.0/1.0-XX	99	96	103
360-24634-7	OC-SS-423-0.0/1.0-XX	101	102	100
360-24634-8	OC-SS-424-0.0/1.0-XX	99	102	100
360-24634-9	OC-SS-425-0.0/1.0-XX	97	102	103
360-24634-10	OC-SS-426-0.0/1.0-XX	100	102	100
360-24634-11	OC-SS-427-0.0/1.0-XX	98	102	100
360-24634-12	OC-SS-428-0.0/1.0-XX	98	102	101
360-24634-13	OC-SS-429-0.0/1.0-XX	94	98	104
360-24634-14	OC-SS-430-0.0/1.0-XX	98	103	102
360-24634-15	OC-SS-431-0.0/1.0-XX	94	100	105
360-24634-16	OC-SS-432-0.0/1.0-XX	96	100	103
360-24634-17	OC-TBK-020	96	102	103
MB 360-49178/3-A		101	99	101
MB 360-49267/3-A		104	103	101
LCS 360-49178/1-A		96	98	101

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
LCS 360-49267/1-A		97	99	101
LCSD 360-49178/2-A		96	99	100
LCSD 360-49267/2-A		94	99	100

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
360-24634-18	OC-EBK-011	93	114	93
MB 360-49272/6		92	111	94
LCS 360-49272/3		108	98	101
LCSD 360-49272/4		109	94	99

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Method Blank - Batch: 360-49178

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49178/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/18/2009 1822
Date Prepared: 09/18/2009 1500

Analysis Batch: 360-49180
Prep Batch: 360-49178
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45143.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
4-Chlorotoluene	ND		1.0	2.5
Acetone	ND		18	250
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-16
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Method Blank - Batch: 360-49178

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49178/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/18/2009 1822
Date Prepared: 09/18/2009 1500

Analysis Batch: 360-49180
Prep Batch: 360-49178
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45143.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	70 - 130
Dibromofluoromethane	99	70 - 130
Toluene-d8 (Surr)	101	70 - 130

4-11-10
TC

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Method Blank TICs- Batch: 360-49178

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4-11-10

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49178

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49178/1-A	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45138.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/18/2009 1623			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49178/2-A	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45139.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/18/2009 1647			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	91	93	70 - 130	2	25		
1,1,1,2-Tetrachloroethane	102	100	70 - 130	2	25		
1,1,2,2-Tetrachloroethane	89	87	70 - 130	2	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	90	93	70 - 130	3	25		
1,1,2-Trichloroethane	96	93	70 - 130	4	25		
1,1-Dichloroethane	98	99	70 - 130	1	25		
1,1-Dichloroethene	97	99	70 - 130	1	25		
1,1-Dichloropropene	95	95	70 - 130	0	25		
1,2,3-Trichlorobenzene	103	109	70 - 130	6	25		
1,2,3-Trichloropropane	111	108	70 - 130	3	25		
1,2,4-Trichlorobenzene	102	107	70 - 130	4	25		
1,2,4-Trimethylbenzene	96	97	70 - 130	1	25		
1,2-Dibromo-3-Chloropropane	95	92	70 - 130	3	25		
Ethylene Dibromide	97	92	70 - 130	5	25		
1,2-Dichlorobenzene	95	96	70 - 130	0	25		
1,2-Dichloroethane	96	94	70 - 130	2	25		
1,2-Dichloropropane	106	105	70 - 130	1	25		
1,3,5-Trimethylbenzene	98	100	70 - 130	2	25		
1,3-Dichlorobenzene	96	98	70 - 130	2	25		
1,3-Dichloropropane	94	90	70 - 130	4	25		
1,4-Dichlorobenzene	95	95	70 - 130	0	25		
1,4-Dioxane	117	111	70 - 130	5	25		
2,2-Dichloropropane	100	104	70 - 130	4	25		
2,4,4-Trimethyl-1-pentene	103	107	70 - 130	4	25		
2,4,4-Trimethyl-2-pentene	100	99	70 - 130	0	25		
2-Chlorotoluene	94	95	70 - 130	1	25		
2-Hexanone	88	82	70 - 130	6	25		
4-Chlorotoluene	96	96	70 - 130	0	25		
Acetone	99	97	70 - 130	2	25		
Benzene	97	96	70 - 130	1	25		
Bromobenzene	92	91	70 - 130	1	25		
Chlorobromomethane	93	93	70 - 130	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49178

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49178/1-A	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45138.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/18/2009 1623			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49178/2-A	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45139.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/18/2009 1647			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	96	93	70 - 130	4	25		
Bromoform	86	82	70 - 130	5	25		
Bromomethane	97	102	70 - 130	5	25		
n-Butylbenzene	98	100	70 - 130	2	25		
Carbon disulfide	90	92	70 - 130	2	25		
Carbon tetrachloride	92	94	70 - 130	2	25		
Chlorobenzene	100	97	70 - 130	2	25		
Chloroethane	91	94	70 - 130	3	25		
Chloroform	101	99	70 - 130	2	25		
Chloromethane	86	90	70 - 130	5	25		
cis-1,2-Dichloroethene	96	94	70 - 130	2	25		
cis-1,3-Dichloropropene	94	90	70 - 130	5	25		
Cyclohexane	91	94	70 - 130	3	25		
Chlorodibromomethane	89	87	70 - 130	3	25		
Dibromomethane	97	93	70 - 130	3	25		
Dichlorodifluoromethane	60	60	70 - 130	0	25	*	*
Ethyl ether	105	104	70 - 130	1	25		
Isopropyl ether	93	93	70 - 130	0	25		
Tert-butyl ethyl ether	96	95	70 - 130	1	25		
Ethylbenzene	102	102	70 - 130	0	25		
Hexachlorobutadiene	99	101	70 - 130	2	25		
Isopropylbenzene	99	100	70 - 130	1	25		
Methyl acetate	135	139	70 - 130	3	25	*	*
2-Butanone (MEK)	93	89	70 - 130	4	25		
4-Methyl-2-pentanone (MIBK)	91	88	70 - 130	4	25		
Methyl tert-butyl ether	93	92	70 - 130	0	25		
Methylcyclohexane	95	98	70 - 130	3	25		
Methylene Chloride	103	103	70 - 130	0	25		
m-Xylene & p-Xylene	97	95	70 - 130	1	25		
Naphthalene	93	97	70 - 130	4	25		
N-Propylbenzene	97	98	70 - 130	0	25		
o-Xylene	96	97	70 - 130	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-16 TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49178

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49178/1-A	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45138.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/18/2009 1623			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49178/2-A	Analysis Batch:	360-49180	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49178	Lab File ID:	V45139.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/18/2009 1647			Final Weight/Volume:	5 g
Date Prepared:	09/18/2009 1500				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	102	105	70 - 130	3	25		
sec-Butylbenzene	99	101	70 - 130	2	25		
Styrene	95	96	70 - 130	0	25		
Tert-amyl methyl ether	98	97	70 - 130	1	25		
tert-Butylbenzene	101	102	70 - 130	1	25		
Tetrachloroethene	103	100	70 - 130	3	25		
Tetrahydrofuran	110	106	70 - 130	4	25		
Toluene	100	98	70 - 130	2	25		
trans-1,2-Dichloroethene	88	90	70 - 130	2	25		
trans-1,3-Dichloropropene	94	90	70 - 130	5	25		
Trichloroethene	102	100	70 - 130	3	25		
Trichlorofluoromethane	90	93	70 - 130	3	25		
Vinyl chloride	88	92	70 - 130	4	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	96	96	70 - 130
Dibromofluoromethane	98	99	70 - 130
Toluene-d8 (Surr)	101	100	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10 TR

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Method Blank - Batch: 360-49267

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49267/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/21/2009 1850
Date Prepared: 09/21/2009 0815

Analysis Batch: 360-49268
Prep Batch: 360-49267
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45190.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
4-Chlorotoluene	ND		1.0	2.5
Acetone	ND		18	250
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-11
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Method Blank - Batch: 360-49267

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49267/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/21/2009 1850
Date Prepared: 09/21/2009 0815

Analysis Batch: 360-49268
Prep Batch: 360-49267
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45190.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	104	70 - 130
Dibromofluoromethane	103	70 - 130
Toluene-d8 (Surr)	101	70 - 130

4-11-10 TC

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Method Blank TICs- Batch: 360-49267

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

4-11-10
TC

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49267

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49267/1-A	Analysis Batch:	360-49268	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49267	Lab File ID:	V45187.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/21/2009 1739			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

LCSD Lab Sample ID:	LCSD 360-49267/2-A	Analysis Batch:	360-49268	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49267	Lab File ID:	V45188.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/21/2009 1803			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	93	95	70 - 130	2	25		
1,1,1,2-Tetrachloroethane	101	101	70 - 130	1	25		
1,1,2,2-Tetrachloroethane	89	94	70 - 130	6	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	87	89	70 - 130	2	25		
1,1,2-Trichloroethane	91	95	70 - 130	4	25		
1,1-Dichloroethane	101	103	70 - 130	1	25		
1,1-Dichloroethene	99	99	70 - 130	0	25		
1,1-Dichloropropene	96	96	70 - 130	1	25		
1,2,3-Trichlorobenzene	105	107	70 - 130	2	25		
1,2,3-Trichloropropane	106	112	70 - 130	5	25		
1,2,4-Trichlorobenzene	103	106	70 - 130	3	25		
1,2,4-Trimethylbenzene	97	98	70 - 130	1	25		
1,2-Dibromo-3-Chloropropane	89	95	70 - 130	6	25		
Ethylene Dibromide	92	94	70 - 130	3	25		
1,2-Dichlorobenzene	96	99	70 - 130	3	25		
1,2-Dichloroethane	93	97	70 - 130	4	25		
1,2-Dichloropropane	105	107	70 - 130	2	25		
1,3,5-Trimethylbenzene	101	102	70 - 130	0	25		
1,3-Dichlorobenzene	96	95	70 - 130	0	25		
1,3-Dichloropropane	89	91	70 - 130	2	25		
1,4-Dichlorobenzene	96	99	70 - 130	2	25		
1,4-Dioxane	98	114	70 - 130	15	25		
2,2-Dichloropropane	114	117	70 - 130	3	25		
2,4,4-Trimethyl-1-pentene	98	102	70 - 130	4	25		
2,4,4-Trimethyl-2-pentene	92	94	70 - 130	2	25		
2-Chlorotoluene	97	96	70 - 130	1	25		
2-Hexanone	77	86	70 - 130	11	25		
4-Chlorotoluene	96	97	70 - 130	0	25		
Acetone	91	106	70 - 130	16	25		
Benzene	97	97	70 - 130	1	25		
Bromobenzene	92	92	70 - 130	0	25		
Chlorobromomethane	91	96	70 - 130	4	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49267

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49267/1-A	Analysis Batch:	360-49268	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49267	Lab File ID:	V45187.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/21/2009 1739			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

LCSD Lab Sample ID:	LCSD 360-49267/2-A	Analysis Batch:	360-49268	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49267	Lab File ID:	V45188.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/21/2009 1803			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	91	93	70 - 130	1	25		
Bromoform	86	88	70 - 130	3	25		
Bromomethane	112	113	70 - 130	1	25		
n-Butylbenzene	105	105	70 - 130	0	25		
Carbon disulfide	96	97	70 - 130	1	25		
Carbon tetrachloride	94	94	70 - 130	0	25		
Chlorobenzene	100	99	70 - 130	1	25		
Chloroethane	102	102	70 - 130	0	25		
Chloroform	99	101	70 - 130	1	25		
Chloromethane	99	100	70 - 130	1	25		
cis-1,2-Dichloroethene	95	97	70 - 130	2	25		
cis-1,3-Dichloropropene	90	92	70 - 130	2	25		
Cyclohexane	90	89	70 - 130	0	25		
Chlorodibromomethane	88	89	70 - 130	2	25		
Dibromomethane	92	95	70 - 130	3	25		
Dichlorodifluoromethane	59	61	70 - 130	3	25	*	*
Ethyl ether	94	100	70 - 130	6	25		
Isopropyl ether	91	96	70 - 130	5	25		
Tert-butyl ethyl ether	91	97	70 - 130	6	25		
Ethylbenzene	105	104	70 - 130	1	25		
Hexachlorobutadiene	99	97	70 - 130	2	25		
Isopropylbenzene	103	102	70 - 130	1	25		
Methyl acetate	112	116	70 - 130	3	25		
2-Butanone (MEK)	82	92	70 - 130	11	25		
4-Methyl-2-pentanone (MIBK)	81	93	70 - 130	13	25		
Methyl tert-butyl ether	88	94	70 - 130	7	25		
Methylcyclohexane	92	91	70 - 130	0	25		
Methylene Chloride	103	105	70 - 130	3	25		
m-Xylene & p-Xylene	98	97	70 - 130	1	25		
Naphthalene	94	99	70 - 130	5	25		
N-Propylbenzene	100	99	70 - 130	1	25		
o-Xylene	98	98	70 - 130	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24634-1
Sdg Number: OCRI-16

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49267

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49267/1-A	Analysis Batch:	360-49268	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49267	Lab File ID:	V45187.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/21/2009 1739			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

LCSD Lab Sample ID:	LCSD 360-49267/2-A	Analysis Batch:	360-49268	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49267	Lab File ID:	V45188.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/21/2009 1803			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	104	104	70 - 130	0	25		
sec-Butylbenzene	102	101	70 - 130	2	25		
Styrene	94	95	70 - 130	1	25		
Tert-amyl methyl ether	91	99	70 - 130	9	25		
tert-Butylbenzene	104	102	70 - 130	2	25		
Tetrachloroethene	99	98	70 - 130	1	25		
Tetrahydrofuran	101	109	70 - 130	7	25		
Toluene	100	101	70 - 130	1	25		
trans-1,2-Dichloroethene	92	93	70 - 130	1	25		
trans-1,3-Dichloropropene	89	92	70 - 130	3	25		
Trichloroethene	102	104	70 - 130	2	25		
Trichlorofluoromethane	91	90	70 - 130	1	25		
Vinyl chloride	97	95	70 - 130	2	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	94	70 - 130
Dibromofluoromethane	99	99	70 - 130
Toluene-d8 (Surr)	101	100	70 - 130

4-11-10
FC

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24634-1

SDG No.: OCRI-16

Lab Sample ID: CCVIS 360-49180/2 Calibration Date: 09/18/2009 15:58

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45137.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4695		19.5	20.0	-2.7	30.0
Chloromethane	Ave	0.9034	0.8026	0.1000	19.1	20.0	-11.2	30.0
Vinyl chloride	Ave	0.6300	0.5634		19.1	20.0	-10.6	20.0
Bromomethane	Ave	0.3127	0.2857		19.2	20.0	-8.7	30.0
Chloroethane	Lin2		0.3059		18.8	20.0	-5.9	30.0
Trichlorofluoromethane	Ave	0.5183	0.4835		18.7	20.0	-6.7	30.0
Ethyl ether	Ave	0.2603	0.2198		18.0	20.0	-15.6	30.0
1,1-Dichloroethene	Ave	0.3201	0.2958		19.3	20.0	-7.6	20.0
Carbon disulfide	Ave	1.395	1.202		17.3	20.0	-13.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1700		18.3	20.0	-8.5	30.0
Acrolein	Ave	0.7836	0.7030		897	1000	-10.3	30.0
Methylene Chloride	Lin1		0.3288		18.8	20.0	-6.2	30.0
Acetone	Lin2		0.0496		189	200	-5.4	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6224		17.7	20.0	-11.8	30.0
Methyl acetate	Lin1		0.1653		227	200	13.6	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5715		16.3	20.0	-18.3	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3256		170	200	-15.1	30.0
Isopropyl ether	Ave	1.997	1.747		17.6	20.0	-12.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7048	0.1000	19.0	20.0	-11.0	30.0
Acrylonitrile	Lin1		0.0593		18.2	20.0	-9.2	30.0
Tert-butyl ethyl ether	Ave	1.194	1.022		17.1	20.0	-14.4	30.0
Vinyl acetate	Ave	0.5745	0.4703		164	200	-18.1	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5531		18.0	20.0	-10.0	30.0
2,2-Dichloropropane	Ave	0.5371	0.4452		18.9	20.0	-17.1	30.0
Cyclohexane	Ave	0.8898	0.7860		17.8	20.0	-11.7	30.0
Chlorobromomethane	Ave	0.1386	0.1249		18.0	20.0	-9.9	30.0
Chloroform	Ave	0.6243	0.5595		19.2	20.0	-10.4	20.0
Carbon tetrachloride	Ave	0.3645	0.3366		18.4	20.0	-7.7	30.0
Tetrahydrofuran	Ave	0.0762	0.0691		198	200	-9.2	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4668		17.9	20.0	-9.7	30.0
2-Butanone (MEK)	Ave	0.0960	0.0931		206	200	-3.0	30.0
1,1-Dichloropropene	Ave	0.4990	0.4839		19.4	20.0	-3.0	30.0
Benzene	Ave	1.352	1.337		19.8	20.0	-1.1	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6675		17.5	20.0	-12.4	30.0
1,2-Dichloroethane	Ave	0.3253	0.3074		18.9	20.0	-5.5	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3339		19.5	20.0	-12.3	30.0
Methylcyclohexane	Ave	0.6300	0.5833		18.6	20.0	-7.4	30.0
Trichloroethene	Ave	0.3155	0.3222		21.2	20.0	2.1	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1760		18.8	20.0	-6.0	30.0
Dibromomethane	Ave	0.1188	0.1166		19.5	20.0	-1.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24634-1

SDG No.: OCRI-16

Lab Sample ID: CCVIS 360-49180/2 Calibration Date: 09/18/2009 15:58

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45137.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.3092		22.0	20.0	-2.8	20.0
Dichlorobromomethane	Ave	0.3427	0.3350		19.4	20.0	-2.3	30.0
Methyl methacrylate	Ave	0.0864	0.0909		20.6	20.0	5.2	30.0
1,4-Dioxane	Qua		0.0248		232	200	16.1	30.0
2-Chloroethyl vinyl ether	Lin		0.0813		419	200	109.0*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.4170		21.0	20.0	4.9	30.0
Toluene	Ave	0.7062	0.7493		21.8	20.0	6.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1943		190	200	-5.2	30.0
Tetrachloroethene	Ave	0.1859	0.2109		22.6	20.0	13.5	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2997		20.6	20.0	2.9	30.0
1,1,2-Trichloroethane	Lin1		0.1280		20.5	20.0	2.4	30.0
Chlorodibromomethane	Ave	0.1504	0.1477		19.6	20.0	-1.8	30.0
1,3-Dichloropropane	Ave	0.2828	0.2857		20.2	20.0	1.0	30.0
Ethylene Dibromide	Ave	0.1260	0.1279		20.3	20.0	1.5	30.0
2-Hexanone	Ave	0.1294	0.1294		203	200	0.0	30.0
Chlorobenzene	Ave	1.096	1.101	0.3000	20.2	20.0	0.5	30.0
Ethylbenzene	Ave	2.279	2.229		20.9	20.0	-2.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3139		18.9	20.0	-9.7	30.0
m-Xylene & p-Xylene	Ave	1.752	1.691		38.6	40.0	-3.5	30.0
o-Xylene	Ave	1.903	1.755		18.5	20.0	-7.8	30.0
Styrene	Ave	1.294	1.225		19.0	20.0	-5.3	30.0
Bromoform	Ave	0.3131	0.3149	0.1000	19.0	20.0	0.6	20.0
Isopropylbenzene	Ave	2.255	2.148		19.1	20.0	-4.8	30.0
Bromobenzene	Ave	1.024	0.8633		16.9	20.0	-15.7	30.0
N-Propylbenzene	Ave	2.901	2.690		18.5	20.0	-7.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6226	0.3000	18.1	20.0	-9.1	30.0
2-Chlorotoluene	Ave	1.927	1.711		17.8	20.0	-11.2	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.697		18.4	20.0	-8.3	30.0
1,2,3-Trichloropropane	Lin2		0.0555		17.8	20.0	-10.9	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0867		16.3	20.0	-18.7	30.0
4-Chlorotoluene	Ave	1.683	1.513		17.9	20.0	-10.1	30.0
tert-Butylbenzene	Ave	1.471	1.380		18.7	20.0	-6.2	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.678		17.8	20.0	-10.5	30.0
sec-Butylbenzene	Ave	2.518	2.356		18.7	20.0	-6.4	30.0
4-Isopropyltoluene	Ave	1.894	1.757		18.5	20.0	-7.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7263		17.3	20.0	-13.7	30.0
1,4-Dichlorobenzene	Ave	1.788	1.733		19.4	20.0	-3.1	30.0
n-Butylbenzene	Ave	4.614	4.766		20.7	20.0	3.3	30.0
1,2-Dichlorobenzene	Ave	1.492	1.452		19.5	20.0	-2.7	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0707		18.4	20.0	-8.2	30.0
Hexachlorobutadiene	Ave	0.5170	0.5544		21.4	20.0	7.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24634-1

SDG No.: OCRI-16

Lab Sample ID: CCVIS 360-49180/2 Calibration Date: 09/18/2009 15:58

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45137.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9870		20.2	20.0	1.2	30.0
Naphthalene	Ave	1.288	1.180		18.3	20.0	-8.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.7256		20.1	20.0	0.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2167		18.6	20.0	-6.9	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9495		21.4	20.0	6.9	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5131		17.9	20.0	-10.5	30.0

4-11-10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24634-1

SDG No.: OCRI-16

Lab Sample ID: CCVIS 360-49268/3 Calibration Date: 09/21/2009 17:15

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45186.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4836		20.0	20.0	0.2	30.0
Chloromethane	Ave	0.9034	0.8380	0.1000	19.9	20.0	-7.2	30.0
Vinyl chloride	Ave	0.6300	0.5808		19.7	20.0	-7.8	20.0
Bromomethane	Ave	0.3127	0.3017		20.2	20.0	-3.5	30.0
Chloroethane	Lin2		0.3251		20.1	20.0	0.5	30.0
Trichlorofluoromethane	Ave	0.5183	0.4987		19.2	20.0	-3.8	30.0
Ethyl ether	Ave	0.2603	0.1995		16.3	20.0	-23.4	30.0
1,1-Dichloroethene	Ave	0.3201	0.2990		19.5	20.0	-6.6	20.0
Carbon disulfide	Ave	1.395	1.199		17.2	20.0	-14.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1660		17.9	20.0	-10.7	30.0
Acrolein	Ave	0.7836	0.7026		897	1000	-10.3	30.0
Methylene Chloride	Lin1		0.3308		18.9	20.0	-5.6	30.0
Acetone	Lin2		0.0506		193	200	-3.4	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6220		17.6	20.0	-11.9	30.0
Methyl acetate	Lin1		0.1269		174	200	-12.8	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5481		15.7	20.0	-21.6	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3123		163	200	-18.5	30.0
Isopropyl ether	Ave	1.997	1.684		16.9	20.0	-15.7	30.0
1,1-Dichloroethane	Ave	0.7919	0.6935	0.1000	18.7	20.0	-12.4	30.0
Acrylonitrile	Lin1		0.0559		17.1	20.0	-14.6	30.0
Tert-butyl ethyl ether	Ave	1.194	0.9829		16.5	20.0	-17.7	30.0
Vinyl acetate	Ave	0.5745	0.5114		178	200	-11.0	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5461		17.8	20.0	-11.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.4829		20.7	20.0	-10.1	30.0
Cyclohexane	Ave	0.8898	0.8085		18.3	20.0	-9.1	30.0
Chlorobromomethane	Ave	0.1386	0.1176		17.0	20.0	-15.2	30.0
Chloroform	Ave	0.6243	0.5445		18.6	20.0	-12.8	20.0
Carbon tetrachloride	Ave	0.3645	0.3363		18.4	20.0	-7.7	30.0
Tetrahydrofuran	Ave	0.0762	0.0625		179	200	-17.9	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4708		18.0	20.0	-9.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0766		169	200	-20.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4672		18.7	20.0	-6.4	30.0
Benzene	Ave	1.352	1.260		18.6	20.0	-6.8	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6313		16.6	20.0	-17.2	30.0
1,2-Dichloroethane	Ave	0.3253	0.2834		17.4	20.0	-12.9	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3315		19.4	20.0	-12.9	30.0
Methylcyclohexane	Ave	0.6300	0.5997		19.1	20.0	-4.8	30.0
Trichloroethene	Ave	0.3155	0.3014		19.9	20.0	-4.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1768		18.9	20.0	-5.6	30.0
Dibromomethane	Ave	0.1188	0.1038		17.4	20.0	-12.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24634-1

SDG No.: OCRI-16

Lab Sample ID: CCVIS 360-49268/3 Calibration Date: 09/21/2009 17:15

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45186.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2821		20.0	20.0	-11.3	20.0
Dichlorobromomethane	Ave	0.3427	0.3058		17.7	20.0	-10.8	30.0
Methyl methacrylate	Ave	0.0864	0.0738		16.7	20.0	-14.6	30.0
1,4-Dioxane	Qua		0.0221		205	200	2.7	30.0
2-Chloroethyl vinyl ether	Lin		0.0495		262	200	31.0*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3625		18.2	20.0	-8.8	30.0
Toluene	Ave	0.7062	0.6844		19.9	20.0	-3.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1735		170	200	-15.3	30.0
Tetrachloroethene	Ave	0.1859	0.1909		20.5	20.0	2.7	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2567		17.7	20.0	-11.9	30.0
1,1,2-Trichloroethane	Lin1		0.1091		17.5	20.0	-12.5	30.0
Chlorodibromomethane	Ave	0.1504	0.1313		17.5	20.0	-12.7	30.0
1,3-Dichloropropane	Ave	0.2828	0.2466		17.4	20.0	-12.8	30.0
Ethylene Dibromide	Ave	0.1260	0.1132		17.9	20.0	-10.1	30.0
2-Hexanone	Ave	0.1294	0.1045		164	200	-19.2	30.0
Chlorobenzene	Ave	1.096	1.033	0.3000	19.0	20.0	-5.7	30.0
Ethylbenzene	Ave	2.279	2.152		20.2	20.0	-5.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3069		18.5	20.0	-11.7	30.0
m-Xylene & p-Xylene	Ave	1.752	1.642		37.5	40.0	-6.3	30.0
o-Xylene	Ave	1.903	1.735		18.3	20.0	-8.8	30.0
Styrene	Ave	1.294	1.143		17.7	20.0	-11.6	30.0
Bromoform	Ave	0.3131	0.2787	0.1000	16.9	20.0	-11.0	20.0
Isopropylbenzene	Ave	2.255	2.180		19.4	20.0	-3.3	30.0
Bromobenzene	Ave	1.024	0.8425		16.5	20.0	-17.7	30.0
N-Propylbenzene	Ave	2.901	2.718		18.7	20.0	-6.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5661	0.3000	16.4	20.0	-17.3	30.0
2-Chlorotoluene	Ave	1.927	1.716		17.9	20.0	-11.0	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.728		18.7	20.0	-6.7	30.0
1,2,3-Trichloropropane	Lin2		0.0518		16.6	20.0	-16.8	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0847		15.9	20.0	-20.6	30.0
4-Chlorotoluene	Ave	1.683	1.486		17.6	20.0	-11.7	30.0
tert-Butylbenzene	Ave	1.471	1.412		19.2	20.0	-4.0	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.704		18.1	20.0	-9.1	30.0
sec-Butylbenzene	Ave	2.518	2.419		19.2	20.0	-3.9	30.0
4-Isopropyltoluene	Ave	1.894	1.794		18.9	20.0	-5.3	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7236		17.2	20.0	-14.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.612		18.1	20.0	-9.8	30.0
n-Butylbenzene	Ave	4.614	4.670		20.2	20.0	1.2	30.0
1,2-Dichlorobenzene	Ave	1.492	1.352		18.1	20.0	-9.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0630		16.4	20.0	-18.2	30.0
Hexachlorobutadiene	Ave	0.5170	0.5209		20.2	20.0	0.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24634-1

SDG No.: OCRI-16

Lab Sample ID: CCVIS 360-49268/3 Calibration Date: 09/21/2009 17:15

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45186.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9060		18.6	20.0	-7.1	30.0
Naphthalene	Ave	1.288	1.085		16.9	20.0	-15.7	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6836		19.0	20.0	-5.2	30.0
Dibromofluoromethane	Ave	0.2328	0.2251		19.3	20.0	-3.3	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9149		20.6	20.0	3.0	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5250		18.3	20.0	-8.4	30.0

OCRI-17

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360-24665-1

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES	NO	NA		
Data completeness				
☑	☐	☐	All data summaries, QC forms and raw data available from hard copy or electronic data package	Contact lab if missing data. Lab to respond with 24 hours.
☑	☐	☐	Data summaries match EDD	
Holding Times and Preservation				
☑	☐	☐	Hold times met (14 days with preservation)	
☑	☐	☐	Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune)				
☑	☐	☐	Tune available for each 12-hour period samples were analyzed	
☑	☐	☐	Appropriate number of significant figures reported (at least 2)	
☑	☐	☐	Mass/Charge list (m/z) criteria met	
Initial Calibration				
☑	☐	☐	%RSD less than or equal to 30%	I-Cal 9-08-09 See Form VI attached
* ☐	☑	☐	RRF greater than or equal to 0.05	
Continuing Calibration				
* ☐	☑	☐	%D less than or equal to 25%	
☑	☐	☐	RRF greater than or equal to 0.05.	
Blank Contamination				Evaluate all blanks for contamination. Highest contaminant level used for action level.
☑	☐	☐	Method blank contamination	
☐	☑	☐	Trip blank contamination	
☐	☑	☐	Equipment/Rinseate blank contamination	→ See attached Form VI : QC form

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes	No	N/A	TIER I / II / III (circle one)	
			Surrogate Recoveries	
☑	☐	☐	Surrogates percent recovery criteria met (water and soil: 70%-130%)	
			Matrix Spikes and Laboratory Control Samples	
☐	☐	☑	MS/MSD percent recovery criteria met (water and soil: 70%-130%)	Not Submitted
☐	☐	☑	MS/MSD RPD criteria met (water and soil <30%)	
☐	☑	☐	LCS percent recovery criteria (water and soil: 70%-130%)	See attached Form V & QC Form
			Field Duplicates	
☑	☐	☐	RPD criteria (water <30%, soils <50%) met	
			Internal Standard	
☑	☐	☐	Area counts within -50 to +100 percent of calib. std.	
☑	☐	☐	Retention Time within 30 seconds of calib. std.	
			Target Compounds	
☑	☐	☐	Reviewed narrative for anomalies	
			Tentatively Identified Compounds (TICs)	
☑	☐	☐	TCL compounds reported as TICs	

Validator's Signature: Inge Brunner

Date: 4-11-10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: OC-SS-434-0.0/1.0-XXX

Lab Sample ID: 360-24665-1
Client Matrix: Solid
% Moisture: 17.2

Date Sampled: 09/16/2009 1615
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45199.D
Dilution:	1.0			Initial Weight/Volume:	4.95 g
Date Analyzed:	09/21/2009 2226			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.2	3.1
1,1,1-Trichloroethane		ND		1.2	3.1
1,1,2,2-Tetrachloroethane		ND		1.2	3.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	15
1,1,2-Trichloroethane		ND		1.2	3.1
1,1-Dichloroethane		ND		1.2	3.1
1,1-Dichloroethene		ND		1.2	3.1
1,1-Dichloropropene		ND		1.2	3.1
1,2,3-Trichlorobenzene		ND		1.2	3.1
1,2,3-Trichloropropane		ND		1.8	3.1
1,2,4-Trichlorobenzene		ND		1.2	3.1
1,2,4-Trimethylbenzene		ND		1.2	3.1
1,2-Dibromo-3-Chloropropane		ND		2.2	31
Ethylene Dibromide		ND		1.2	3.1
1,2-Dichlorobenzene		ND		1.2	3.1
1,2-Dichloroethane		ND		1.2	3.1
Acetone		ND	J	22	310
1,2-Dichloropropane		ND		1.2	3.1
1,3,5-Trimethylbenzene		ND		1.2	3.1
1,3-Dichlorobenzene		ND		1.2	3.1
1,3-Dichloropropane		ND		1.2	3.1
1,4-Dichlorobenzene		ND		1.2	3.1
1,4-Dioxane		ND	J	40	310
2,2-Dichloropropane		ND		1.2	3.1
2,4,4-Trimethyl-1-pentene		ND		1.2	6.1
2,4,4-Trimethyl-2-pentene		ND		1.2	6.1
2-Chlorotoluene		ND		1.2	3.1
2-Hexanone		ND		6.3	31
4-Chlorotoluene		ND		1.2	3.1
Benzene		ND		1.2	3.1
Bromobenzene		ND		1.2	3.1
Chlorobromomethane		ND		1.2	3.1
Dichlorobromomethane		ND		1.2	3.1
Bromoform		ND		1.2	3.1
Bromomethane		ND		1.2	6.1
n-Butylbenzene		ND		1.2	3.1
Carbon disulfide		ND		1.2	3.1
Carbon tetrachloride		ND		1.2	3.1
Chlorobenzene		ND		1.2	3.1
Chloroethane		ND		1.2	6.1
Chloroform		ND		1.2	3.1
Chloromethane		ND		1.2	6.1
cis-1,2-Dichloroethene		ND		1.2	3.1
cis-1,3-Dichloropropene		ND		1.2	3.1
Cyclohexane		ND		3.1	31
Chlorodibromomethane		ND		1.2	3.1

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-434-0.0/1.0-XXX**

Lab Sample ID: 360-24665-1
Client Matrix: Solid % Moisture: 17.2

Date Sampled: 09/16/2009 1615
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45199.D
Dilution:	1.0			Initial Weight/Volume:	4.95 g
Date Analyzed:	09/21/2009 2226			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.2	3.1
Dichlorodifluoromethane		ND J		1.2	6.1
Ethyl ether		ND		1.2	3.1
Isopropyl ether		ND		1.2	3.1
Tert-butyl ethyl ether		ND		3.1	3.1
Ethylbenzene		ND		1.2	3.1
Hexachlorobutadiene		ND		1.2	3.1
Isopropylbenzene		ND		1.2	3.1
Methyl acetate		ND		20	61
2-Butanone (MEK)		ND		8.2	31
4-Methyl-2-pentanone (MIBK)		ND		6.3	31
Methyl tert-butyl ether		ND		1.2	3.1
Methylcyclohexane		ND		1.2	3.1
Methylene Chloride		ND		5.9	12
m-Xylene & p-Xylene		ND		1.2	6.1
Naphthalene		ND		1.2	31
N-Propylbenzene		ND		1.2	3.1
o-Xylene		ND		1.2	3.1
4-Isopropyltoluene		ND		1.2	3.1
sec-Butylbenzene		ND		1.2	3.1
Styrene		ND		1.2	3.1
Tert-amyl methyl ether		ND		1.2	3.1
tert-Butylbenzene		ND		1.2	3.1
Tetrachloroethene		ND		1.2	3.1
Tetrahydrofuran		ND		6.7	31
Toluene		ND		1.2	3.1
trans-1,2-Dichloroethene		ND		1.2	3.1
trans-1,3-Dichloropropene		ND		1.2	3.1
Trichloroethene		ND		1.2	3.1
Trichlorofluoromethane		ND		1.2	6.1
Vinyl chloride		ND		1.2	3.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	105		70 - 130

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-434-0.0/1.0-XXX**

Lab Sample ID: 360-24665-1
Client Matrix: Solid % Moisture: 17.2

Date Sampled: 09/16/2009 1615
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45199.D
Dilution:	1.0			Initial Weight/Volume:	4.95 g
Date Analyzed:	09/21/2009 2226			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-435-0.0/1.0-XXX**

Lab Sample ID: 360-24665-2
Client Matrix: Solid
% Moisture: 17.6

Date Sampled: 09/16/2009 1540
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49181		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49179		Lab File ID:	V45175.D
Dilution:	1.0			Initial Weight/Volume:	7.81 g
Date Analyzed:	09/19/2009 0714			Final Weight/Volume:	10 g
Date Prepared:	09/18/2009 1503				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		78	190
1,1,1-Trichloroethane		ND		78	190
1,1,2,2-Tetrachloroethane		ND		78	190
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	J	78	970
1,1,2-Trichloroethane		ND		78	190
1,1-Dichloroethane		ND		78	190
1,1-Dichloroethene		ND		78	190
1,1-Dichloropropene		ND		78	190
1,2,3-Trichlorobenzene		ND		78	190
1,2,3-Trichloropropane		ND		110	190
1,2,4-Trichlorobenzene		ND		78	190
1,2,4-Trimethylbenzene		ND		78	190
1,2-Dibromo-3-Chloropropane		ND		140	1900
Ethylene Dibromide		ND		78	190
1,2-Dichlorobenzene		ND		78	190
1,2-Dichloroethane		ND		78	190
Acetone		ND	J	1400	19000
1,2-Dichloropropane		ND		78	190
1,3,5-Trimethylbenzene		ND		78	190
1,3-Dichlorobenzene		ND		78	190
1,3-Dichloropropane		ND		78	190
1,4-Dichlorobenzene		ND		78	190
1,4-Dioxane		ND	J+	2600	19000
2,2-Dichloropropane		ND	J-	78	190
2,4,4-Trimethyl-1-pentene		ND		78	390
2,4,4-Trimethyl-2-pentene		ND		78	390
2-Chlorotoluene		ND		78	190
2-Hexanone		ND		400	1900
4-Chlorotoluene		ND		78	190
Benzene		ND		78	190
Bromobenzene		ND		78	190
Chlorobromomethane		ND		78	190
Dichlorobromomethane		ND		78	190
Bromoform		ND		78	190
Bromomethane		ND		78	390
n-Butylbenzene		ND		78	190
Carbon disulfide		ND		78	190
Carbon tetrachloride		ND		78	190
Chlorobenzene		ND		78	190
Chloroethane		ND		78	390
Chloroform		ND		78	190
Chloromethane		ND		78	390
cis-1,2-Dichloroethene		ND		78	190
cis-1,3-Dichloropropene		ND		78	190
Cyclohexane		ND		200	1900
Chlorodibromomethane		ND		78	190

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-435-0.0/1.0-XXX**

Lab Sample ID: 360-24665-2
Client Matrix: Solid % Moisture: 17.6

Date Sampled: 09/16/2009 1540
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49181		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49179		Lab File ID:	V45175.D
Dilution:	1.0			Initial Weight/Volume:	7.81 g
Date Analyzed:	09/19/2009 0714			Final Weight/Volume:	10 g
Date Prepared:	09/18/2009 1503				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		78	190
Dichlorodifluoromethane		ND J		78	390
Ethyl ether		ND		78	190
Isopropyl ether		ND		78	190
Tert-butyl ethyl ether		ND		190	190
Ethylbenzene		ND		78	190
Hexachlorobutadiene		ND		78	190
Isopropylbenzene		ND		78	190
Methyl acetate		ND J		1300	3900
2-Butanone (MEK)		ND		520	1900
4-Methyl-2-pentanone (MIBK)		ND		400	1900
Methyl tert-butyl ether		ND		78	190
Methylcyclohexane		ND		78	190
Methylene Chloride		ND		380	780
m-Xylene & p-Xylene		ND		78	390
Naphthalene		ND		78	1900
N-Propylbenzene		ND		78	190
o-Xylene		ND		78	190
4-Isopropyltoluene		ND		78	190
sec-Butylbenzene		ND		78	190
Styrene		ND		78	190
Tert-amyl methyl ether		ND		78	190
tert-Butylbenzene		ND		78	190
Tetrachloroethene		ND		78	190
Tetrahydrofuran		ND		430	1900
Toluene		ND		78	190
trans-1,2-Dichloroethene		ND		78	190
trans-1,3-Dichloropropene		ND		78	190
Trichloroethene		ND		78	190
Trichlorofluoromethane		ND		78	390
Vinyl chloride		ND		78	190

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	95		70 - 130
Toluene-d8 (Surr)	103		70 - 130

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-435-0.0/1.0-XXX**

Lab Sample ID: 360-24665-2
Client Matrix: Solid % Moisture: 17.6

Date Sampled: 09/16/2009 1540
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49181		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49179		Lab File ID:	V45175.D
Dilution:	1.0			Initial Weight/Volume:	7.81 g
Date Analyzed:	09/19/2009 0714			Final Weight/Volume:	10 g
Date Prepared:	09/18/2009 1503				

Tentatively Identified Compounds **Number TIC's Found:** 4

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
7785-70-8	1R-.alpha.-Pinene	8.87	6000	T J N
	Unknown	9.13	360	T J
18172-67-3	Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-me	9.43	4900	T J N
7785-70-8	1R-.alpha.-Pinene	9.65	1100	T J N

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Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-436-0.0/1.0-XXX**

Lab Sample ID: 360-24665-3
Client Matrix: Solid
% Moisture: 25.1

Date Sampled: 09/16/2009 1430
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45200.D
Dilution:	1.0			Initial Weight/Volume:	5.30 g
Date Analyzed:	09/21/2009 2250			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.3	3.2
1,1,1-Trichloroethane		ND		1.3	3.2
1,1,2,2-Tetrachloroethane		ND		1.3	3.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	16
1,1,2-Trichloroethane		ND		1.3	3.2
1,1-Dichloroethane		ND		1.3	3.2
1,1-Dichloroethene		ND		1.3	3.2
1,1-Dichloropropene		ND		1.3	3.2
1,2,3-Trichlorobenzene		ND		1.3	3.2
1,2,3-Trichloropropane		ND		1.9	3.2
1,2,4-Trichlorobenzene		ND		1.3	3.2
1,2,4-Trimethylbenzene		ND		1.3	3.2
1,2-Dibromo-3-Chloropropane		ND		2.3	32
Ethylene Dibromide		ND		1.3	3.2
1,2-Dichlorobenzene		ND		1.3	3.2
1,2-Dichloroethane		ND		1.3	3.2
Acetone		ND	J	23	320
1,2-Dichloropropane		ND		1.3	3.2
1,3,5-Trimethylbenzene		ND		1.3	3.2
1,3-Dichlorobenzene		ND		1.3	3.2
1,3-Dichloropropane		ND		1.3	3.2
1,4-Dichlorobenzene		ND		1.3	3.2
1,4-Dioxane		ND	J	42	320
2,2-Dichloropropane		ND		1.3	3.2
2,4,4-Trimethyl-1-pentene		ND		1.3	6.3
2,4,4-Trimethyl-2-pentene		ND		1.3	6.3
2-Chlorotoluene		ND		1.3	3.2
2-Hexanone		ND		6.5	32
4-Chlorotoluene		ND		1.3	3.2
Benzene		ND		1.3	3.2
Bromobenzene		ND		1.3	3.2
Chlorobromomethane		ND		1.3	3.2
Dichlorobromomethane		ND		1.3	3.2
Bromoform		ND		1.3	3.2
Bromomethane		ND		1.3	6.3
n-Butylbenzene		ND		1.3	3.2
Carbon disulfide		ND		1.3	3.2
Carbon tetrachloride		ND		1.3	3.2
Chlorobenzene		ND		1.3	3.2
Chloroethane		ND		1.3	6.3
Chloroform		ND		1.3	3.2
Chloromethane		ND		1.3	6.3
cis-1,2-Dichloroethene		ND		1.3	3.2
cis-1,3-Dichloropropene		ND		1.3	3.2
Cyclohexane		ND		3.3	32
Chlorodibromomethane		ND		1.3	3.2

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TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-436-0.0/1.0-XXX**

Lab Sample ID: 360-24665-3
Client Matrix: Solid
% Moisture: 25.1

Date Sampled: 09/16/2009 1430
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45200.D
Dilution:	1.0			Initial Weight/Volume:	5.30 g
Date Analyzed:	09/21/2009 2250			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.3	3.2
Dichlorodifluoromethane		ND J		1.3	6.3
Ethyl ether		ND		1.3	3.2
Isopropyl ether		ND		1.3	3.2
Tert-butyl ethyl ether		ND		3.2	3.2
Ethylbenzene		ND		1.3	3.2
Hexachlorobutadiene		ND		1.3	3.2
Isopropylbenzene		ND		1.3	3.2
Methyl acetate		ND		20	63
2-Butanone (MEK)		ND		8.5	32
4-Methyl-2-pentanone (MIBK)		ND		6.5	32
Methyl tert-butyl ether		ND		1.3	3.2
Methylcyclohexane		ND		1.3	3.2
Methylene Chloride		ND		6.1	13
m-Xylene & p-Xylene		ND		1.3	6.3
Naphthalene		ND		1.3	32
N-Propylbenzene		ND		1.3	3.2
o-Xylene		ND		1.3	3.2
4-Isopropyltoluene		ND		1.3	3.2
sec-Butylbenzene		ND		1.3	3.2
Styrene		ND		1.3	3.2
Tert-amyl methyl ether		ND		1.3	3.2
tert-Butylbenzene		ND		1.3	3.2
Tetrachloroethene		ND		1.3	3.2
Tetrahydrofuran		ND		6.9	32
Toluene		ND		1.3	3.2
trans-1,2-Dichloroethene		ND		1.3	3.2
trans-1,3-Dichloropropene		ND		1.3	3.2
Trichloroethene		ND		1.3	3.2
Trichlorofluoromethane		ND		1.3	6.3
Vinyl chloride		ND		1.3	3.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-436-0.0/1.0-XXX**

Lab Sample ID: 360-24665-3
Client Matrix: Solid
% Moisture: 25.1

Date Sampled: 09/16/2009 1430
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45200.D
Dilution:	1.0			Initial Weight/Volume:	5.30 g
Date Analyzed:	09/21/2009 2250			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

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TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-437-0.0/1.0-XXX**

Lab Sample ID: 360-24665-4
Client Matrix: Solid
% Moisture: 26.9

Date Sampled: 09/16/2009 1410
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45201.D
Dilution:	1.0			Initial Weight/Volume:	5.04 g
Date Analyzed:	09/21/2009 2315			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.4	3.4
1,1,1-Trichloroethane		ND		1.4	3.4
1,1,2,2-Tetrachloroethane		ND		1.4	3.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.4	17
1,1,2-Trichloroethane		ND		1.4	3.4
1,1-Dichloroethane		ND		1.4	3.4
1,1-Dichloroethene		ND		1.4	3.4
1,1-Dichloropropene		ND		1.4	3.4
1,2,3-Trichlorobenzene		ND		1.4	3.4
1,2,3-Trichloropropane		ND		2.0	3.4
1,2,4-Trichlorobenzene		ND		1.4	3.4
1,2,4-Trimethylbenzene		ND		1.4	3.4
1,2-Dibromo-3-Chloropropane		ND		2.4	34
Ethylene Dibromide		ND		1.4	3.4
1,2-Dichlorobenzene		ND		1.4	3.4
1,2-Dichloroethane		ND		1.4	3.4
Acetone		ND	J	24	340
1,2-Dichloropropane		ND		1.4	3.4
1,3,5-Trimethylbenzene		ND		1.4	3.4
1,3-Dichlorobenzene		ND		1.4	3.4
1,3-Dichloropropane		ND		1.4	3.4
1,4-Dichlorobenzene		ND		1.4	3.4
1,4-Dioxane		ND	J	45	340
2,2-Dichloropropane		ND		1.4	3.4
2,4,4-Trimethyl-1-pentene		ND		1.4	6.8
2,4,4-Trimethyl-2-pentene		ND		1.4	6.8
2-Chlorotoluene		ND		1.4	3.4
2-Hexanone		ND		7.0	34
4-Chlorotoluene		ND		1.4	3.4
Benzene		ND		1.4	3.4
Bromobenzene		ND		1.4	3.4
Chlorobromomethane		ND		1.4	3.4
Dichlorobromomethane		ND		1.4	3.4
Bromoform		ND		1.4	3.4
Bromomethane		ND		1.4	6.8
n-Butylbenzene		ND		1.4	3.4
Carbon disulfide		ND		1.4	3.4
Carbon tetrachloride		ND		1.4	3.4
Chlorobenzene		ND		1.4	3.4
Chloroethane		ND		1.4	6.8
Chloroform		ND		1.4	3.4
Chloromethane		ND		1.4	6.8
cis-1,2-Dichloroethene		ND		1.4	3.4
cis-1,3-Dichloropropene		ND		1.4	3.4
Cyclohexane		ND		3.5	34
Chlorodibromomethane		ND		1.4	3.4

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-437-0.0/1.0-XXX**

Lab Sample ID: 360-24665-4
Client Matrix: Solid % Moisture: 26.9

Date Sampled: 09/16/2009 1410
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45201.D
Dilution:	1.0			Initial Weight/Volume:	5.04 g
Date Analyzed:	09/21/2009 2315			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.4	3.4
Dichlorodifluoromethane		ND J		1.4	6.8
Ethyl ether		ND		1.4	3.4
Isopropyl ether		ND		1.4	3.4
Tert-butyl ethyl ether		ND		3.4	3.4
Ethylbenzene		ND		1.4	3.4
Hexachlorobutadiene		ND		1.4	3.4
Isopropylbenzene		ND		1.4	3.4
Methyl acetate		ND		22	68
2-Butanone (MEK)		ND		9.1	34
4-Methyl-2-pentanone (MIBK)		ND		7.0	34
Methyl tert-butyl ether		ND		1.4	3.4
Methylcyclohexane		ND		1.4	3.4
Methylene Chloride		ND		6.6	14
m-Xylene & p-Xylene		ND		1.4	6.8
Naphthalene		ND		1.4	34
N-Propylbenzene		ND		1.4	3.4
o-Xylene		ND		1.4	3.4
4-Isopropyltoluene		ND		1.4	3.4
sec-Butylbenzene		ND		1.4	3.4
Styrene		ND		1.4	3.4
Tert-amyl methyl ether		ND		1.4	3.4
tert-Butylbenzene		ND		1.4	3.4
Tetrachloroethene		ND		1.4	3.4
Tetrahydrofuran		ND		7.5	34
Toluene		ND		1.4	3.4
trans-1,2-Dichloroethene		ND		1.4	3.4
trans-1,3-Dichloropropene		ND		1.4	3.4
Trichloroethene		ND		1.4	3.4
Trichlorofluoromethane		ND		1.4	6.8
Vinyl chloride		ND		1.4	3.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	105		70 - 130

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-437-0.0/1.0-XXX**

Lab Sample ID: 360-24665-4
Client Matrix: Solid
% Moisture: 26.9

Date Sampled: 09/16/2009 1410
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45201.D
Dilution:	1.0			Initial Weight/Volume:	5.04 g
Date Analyzed:	09/21/2009 2315			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-440-0.0/1.0-XXX**

Lab Sample ID: 360-24665-5
Client Matrix: Solid % Moisture: 45.0

Date Sampled: 09/16/2009 1345
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45202.D
Dilution:	1.0			Initial Weight/Volume:	5.37 g
Date Analyzed:	09/21/2009 2340			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.7	4.2
1,1,1-Trichloroethane		ND		1.7	4.2
1,1,2,2-Tetrachloroethane		ND		1.7	4.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.7	21
1,1,2-Trichloroethane		ND		1.7	4.2
1,1-Dichloroethane		ND		1.7	4.2
1,1-Dichloroethene		ND		1.7	4.2
1,1-Dichloropropene		ND		1.7	4.2
1,2,3-Trichlorobenzene		ND		1.7	4.2
1,2,3-Trichloropropane		ND		2.5	4.2
1,2,4-Trichlorobenzene		ND		1.7	4.2
1,2,4-Trimethylbenzene		ND		1.7	4.2
1,2-Dibromo-3-Chloropropane		ND		3.0	42
Ethylene Dibromide		ND		1.7	4.2
1,2-Dichlorobenzene		ND		1.7	4.2
1,2-Dichloroethane		ND		1.7	4.2
Acetone		ND	J	30	420
1,2-Dichloropropane		ND		1.7	4.2
1,3,5-Trimethylbenzene		ND		1.7	4.2
1,3-Dichlorobenzene		ND		1.7	4.2
1,3-Dichloropropane		ND		1.7	4.2
1,4-Dichlorobenzene		ND		1.7	4.2
1,4-Dioxane		ND	J	56	420
2,2-Dichloropropane		ND		1.7	4.2
2,4,4-Trimethyl-1-pentene		ND		1.7	8.5
2,4,4-Trimethyl-2-pentene		ND		1.7	8.5
2-Chlorotoluene		ND		1.7	4.2
2-Hexanone		ND		8.7	42
4-Chlorotoluene		ND		1.7	4.2
Benzene		ND		1.7	4.2
Bromobenzene		ND		1.7	4.2
Chlorobromomethane		ND		1.7	4.2
Dichlorobromomethane		ND		1.7	4.2
Bromoform		ND		1.7	4.2
Bromomethane		ND		1.7	8.5
n-Butylbenzene		ND		1.7	4.2
Carbon disulfide		ND		1.7	4.2
Carbon tetrachloride		ND		1.7	4.2
Chlorobenzene		ND		1.7	4.2
Chloroethane		ND		1.7	8.5
Chloroform		ND		1.7	4.2
Chloromethane		ND		1.7	8.5
cis-1,2-Dichloroethene		ND		1.7	4.2
cis-1,3-Dichloropropene		ND		1.7	4.2
Cyclohexane		ND		4.4	42
Chlorodibromomethane		ND		1.7	4.2

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-440-0.0/1.0-XXX**

Lab Sample ID: 360-24665-5
Client Matrix: Solid % Moisture: 45.0

Date Sampled: 09/16/2009 1345
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45202.D
Dilution:	1.0			Initial Weight/Volume:	5.37 g
Date Analyzed:	09/21/2009 2340			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.7	4.2
Dichlorodifluoromethane		ND		1.7	8.5
Ethyl ether		ND		1.7	4.2
Isopropyl ether		ND		1.7	4.2
Tert-butyl ethyl ether		ND		4.2	4.2
Ethylbenzene		ND		1.7	4.2
Hexachlorobutadiene		ND		1.7	4.2
Isopropylbenzene		ND		1.7	4.2
Methyl acetate		ND		28	85
2-Butanone (MEK)		ND		11	42
4-Methyl-2-pentanone (MIBK)		ND		8.7	42
Methyl tert-butyl ether		ND		1.7	4.2
Methylcyclohexane		ND		1.7	4.2
Methylene Chloride		ND		8.2	17
m-Xylene & p-Xylene		ND		1.7	8.5
Naphthalene		ND		1.7	42
N-Propylbenzene		ND		1.7	4.2
o-Xylene		ND		1.7	4.2
4-Isopropyltoluene		ND		1.7	4.2
sec-Butylbenzene		ND		1.7	4.2
Styrene		ND		1.7	4.2
Tert-amyl methyl ether		ND		1.7	4.2
tert-Butylbenzene		ND		1.7	4.2
Tetrachloroethene		ND		1.7	4.2
Tetrahydrofuran		ND		9.3	42
Toluene		ND		1.7	4.2
trans-1,2-Dichloroethene		ND		1.7	4.2
trans-1,3-Dichloropropene		ND		1.7	4.2
Trichloroethene		ND		1.7	4.2
Trichlorofluoromethane		ND		1.7	8.5
Vinyl chloride		ND		1.7	4.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	104		70 - 130

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-440-0.0/1.0-XXX**

Lab Sample ID: 360-24665-5
Client Matrix: Solid
% Moisture: 45.0

Date Sampled: 09/16/2009 1345
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45202.D
Dilution:	1.0			Initial Weight/Volume:	5.37 g
Date Analyzed:	09/21/2009 2340			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-442-0.0/1.0-XXX**

Lab Sample ID: 360-24665-6
Client Matrix: Solid % Moisture: 47.0

Date Sampled: 09/16/2009 1325
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45203.D
Dilution:	1.0			Initial Weight/Volume:	3.94 g
Date Analyzed:	09/22/2009 0004			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		2.4	6.0
1,1,1-Trichloroethane		ND		2.4	6.0
1,1,2,2-Tetrachloroethane		ND		2.4	6.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		2.4	30
1,1,2-Trichloroethane		ND		2.4	6.0
1,1-Dichloroethane		ND		2.4	6.0
1,1-Dichloroethene		ND		2.4	6.0
1,1-Dichloropropene		ND		2.4	6.0
1,2,3-Trichlorobenzene		ND		2.4	6.0
1,2,3-Trichloropropane		ND		3.5	6.0
1,2,4-Trichlorobenzene		ND		2.4	6.0
1,2,4-Trimethylbenzene		ND		2.4	6.0
1,2-Dibromo-3-Chloropropane		ND		4.3	60
Ethylene Dibromide		ND		2.4	6.0
1,2-Dichlorobenzene		ND		2.4	6.0
1,2-Dichloroethane		ND		2.4	6.0
Acetone		ND	J	43	600
1,2-Dichloropropane		ND		2.4	6.0
1,3,5-Trimethylbenzene		ND		2.4	6.0
1,3-Dichlorobenzene		ND		2.4	6.0
1,3-Dichloropropane		ND		2.4	6.0
1,4-Dichlorobenzene		ND		2.4	6.0
1,4-Dioxane		ND	J	79	600
2,2-Dichloropropane		ND		2.4	6.0
2,4,4-Trimethyl-1-pentene		ND		2.4	12
2,4,4-Trimethyl-2-pentene		ND		2.4	12
2-Chlorotoluene		ND		2.4	6.0
2-Hexanone		ND		12	60
4-Chlorotoluene		ND		2.4	6.0
Benzene		ND		2.4	6.0
Bromobenzene		ND		2.4	6.0
Chlorobromomethane		ND		2.4	6.0
Dichlorobromomethane		ND		2.4	6.0
Bromoform		ND		2.4	6.0
Bromomethane		ND		2.4	12
n-Butylbenzene		ND		2.4	6.0
Carbon disulfide		ND		2.4	6.0
Carbon tetrachloride		ND		2.4	6.0
Chlorobenzene		ND		2.4	6.0
Chloroethane		ND		2.4	12
Chloroform		ND		2.4	6.0
Chloromethane		ND		2.4	12
cis-1,2-Dichloroethene		ND		2.4	6.0
cis-1,3-Dichloropropene		ND		2.4	6.0
Cyclohexane		ND		6.2	60
Chlorodibromomethane		ND		2.4	6.0

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-442-0.0/1.0-XXX**

Lab Sample ID: 360-24665-6
Client Matrix: Solid
% Moisture: 47.0

Date Sampled: 09/16/2009 1325
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45203.D
Dilution:	1.0			Initial Weight/Volume:	3.94 g
Date Analyzed:	09/22/2009 0004			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		2.4	6.0
Dichlorodifluoromethane		ND J		2.4	12
Ethyl ether		ND		2.4	6.0
Isopropyl ether		ND		2.4	6.0
Tert-butyl ethyl ether		ND		6.0	6.0
Ethylbenzene		ND		2.4	6.0
Hexachlorobutadiene		ND		2.4	6.0
Isopropylbenzene		ND		2.4	6.0
Methyl acetate		ND		39	120
2-Butanone (MEK)		ND		16	60
4-Methyl-2-pentanone (MIBK)		ND		12	60
Methyl tert-butyl ether		ND		2.4	6.0
Methylcyclohexane		ND		2.4	6.0
Methylene Chloride		ND		12	24
m-Xylene & p-Xylene		ND		2.4	12
Naphthalene		ND		2.4	60
N-Propylbenzene		ND		2.4	6.0
o-Xylene		ND		2.4	6.0
4-Isopropyltoluene		ND		2.4	6.0
sec-Butylbenzene		ND		2.4	6.0
Styrene		ND		2.4	6.0
Tert-amyl methyl ether		ND		2.4	6.0
tert-Butylbenzene		ND		2.4	6.0
Tetrachloroethene		ND		2.4	6.0
Tetrahydrofuran		ND		13	60
Toluene		ND		2.4	6.0
trans-1,2-Dichloroethene		ND		2.4	6.0
trans-1,3-Dichloropropene		ND		2.4	6.0
Trichloroethene		ND		2.4	6.0
Trichlorofluoromethane		ND		2.4	12
Vinyl chloride		ND		2.4	6.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	101		70 - 130

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-442-0.0/1.0-XXX**

Lab Sample ID: 360-24665-6
Client Matrix: Solid
% Moisture: 47.0

Date Sampled: 09/16/2009 1325
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45203.D
Dilution:	1.0			Initial Weight/Volume:	3.94 g
Date Analyzed:	09/22/2009 0004			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TS
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-449-0.0/1.0-XXX**

Lab Sample ID: 360-24665-7
Client Matrix: Solid
% Moisture: 30.2

Date Sampled: 09/16/2009 1640
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45204.D
Dilution:	1.0			Initial Weight/Volume:	5.05 g
Date Analyzed:	09/22/2009 0028			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.4	3.5
1,1,1-Trichloroethane		ND		1.4	3.5
1,1,2,2-Tetrachloroethane		ND		1.4	3.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.4	18
1,1,2-Trichloroethane		ND		1.4	3.5
1,1-Dichloroethane		ND		1.4	3.5
1,1-Dichloroethene		ND		1.4	3.5
1,1-Dichloropropene		ND		1.4	3.5
1,2,3-Trichlorobenzene		ND		1.4	3.5
1,2,3-Trichloropropane		ND		2.1	3.5
1,2,4-Trichlorobenzene		ND		1.4	3.5
1,2,4-Trimethylbenzene		ND		1.4	3.5
1,2-Dibromo-3-Chloropropane		ND		2.5	35
Ethylene Dibromide		ND		1.4	3.5
1,2-Dichlorobenzene		ND		1.4	3.5
1,2-Dichloroethane		ND		1.4	3.5
Acetone		ND	J	25	350
1,2-Dichloropropane		ND		1.4	3.5
1,3,5-Trimethylbenzene		ND		1.4	3.5
1,3-Dichlorobenzene		ND		1.4	3.5
1,3-Dichloropropane		ND		1.4	3.5
1,4-Dichlorobenzene		ND		1.4	3.5
1,4-Dioxane		ND	J	47	350
2,2-Dichloropropane		ND		1.4	3.5
2,4,4-Trimethyl-1-pentene		ND		1.4	7.1
2,4,4-Trimethyl-2-pentene		ND		1.4	7.1
2-Chlorotoluene		ND		1.4	3.5
2-Hexanone		ND		7.3	35
4-Chlorotoluene		ND		1.4	3.5
Benzene		ND		1.4	3.5
Bromobenzene		ND		1.4	3.5
Chlorobromomethane		ND		1.4	3.5
Dichlorobromomethane		ND		1.4	3.5
Bromoform		ND		1.4	3.5
Bromomethane		ND		1.4	7.1
n-Butylbenzene		ND		1.4	3.5
Carbon disulfide		ND		1.4	3.5
Carbon tetrachloride		ND		1.4	3.5
Chlorobenzene		ND		1.4	3.5
Chloroethane		ND		1.4	7.1
Chloroform		ND		1.4	3.5
Chloromethane		ND		1.4	7.1
cis-1,2-Dichloroethene		ND		1.4	3.5
cis-1,3-Dichloropropene		ND		1.4	3.5
Cyclohexane		ND		3.7	35
Chlorodibromomethane		ND		1.4	3.5

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-449-0.0/1.0-XXX**

Lab Sample ID: 360-24665-7
Client Matrix: Solid
% Moisture: 30.2

Date Sampled: 09/16/2009 1640
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45204.D
Dilution:	1.0			Initial Weight/Volume:	5.05 g
Date Analyzed:	09/22/2009 0028			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.4	3.5
Dichlorodifluoromethane		ND J		1.4	7.1
Ethyl ether		ND		1.4	3.5
Isopropyl ether		ND		1.4	3.5
Tert-butyl ethyl ether		ND		3.5	3.5
Ethylbenzene		ND		1.4	3.5
Hexachlorobutadiene		ND		1.4	3.5
Isopropylbenzene		ND		1.4	3.5
Methyl acetate		ND		23	71
2-Butanone (MEK)		ND		9.6	35
4-Methyl-2-pentanone (MIBK)		ND		7.3	35
Methyl tert-butyl ether		ND		1.4	3.5
Methylcyclohexane		ND		1.4	3.5
Methylene Chloride		ND		6.9	14
m-Xylene & p-Xylene		ND		1.4	7.1
Naphthalene		ND		1.4	35
N-Propylbenzene		ND		1.4	3.5
o-Xylene		ND		1.4	3.5
4-Isopropyltoluene		ND		1.4	3.5
sec-Butylbenzene		ND		1.4	3.5
Styrene		ND		1.4	3.5
Tert-amyl methyl ether		ND		1.4	3.5
tert-Butylbenzene		ND		1.4	3.5
Tetrachloroethene		ND		1.4	3.5
Tetrahydrofuran		ND		7.8	35
Toluene		ND		1.4	3.5
trans-1,2-Dichloroethene		ND		1.4	3.5
trans-1,3-Dichloropropene		ND		1.4	3.5
Trichloroethene		ND		1.4	3.5
Trichlorofluoromethane		ND		1.4	7.1
Vinyl chloride		ND		1.4	3.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-449-0.0/1.0-XXX**

Lab Sample ID: 360-24665-7
Client Matrix: Solid % Moisture: 30.2

Date Sampled: 09/16/2009 1640
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45204.D
Dilution:	1.0			Initial Weight/Volume:	5.05 g
Date Analyzed:	09/22/2009 0028			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-450-0.0/1.0-XXX**

Lab Sample ID: 360-24665-8
Client Matrix: Solid
% Moisture: 34.7

Date Sampled: 09/16/2009 1555
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45205.D
Dilution:	1.0			Initial Weight/Volume:	5.15 g
Date Analyzed:	09/22/2009 0052			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.5	3.7
1,1,1-Trichloroethane		ND		1.5	3.7
1,1,2,2-Tetrachloroethane		ND		1.5	3.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.5	19
1,1,2-Trichloroethane		ND		1.5	3.7
1,1-Dichloroethane		ND		1.5	3.7
1,1-Dichloroethene		ND		1.5	3.7
1,1-Dichloropropene		ND		1.5	3.7
1,2,3-Trichlorobenzene		ND		1.5	3.7
1,2,3-Trichloropropane		ND		2.2	3.7
1,2,4-Trichlorobenzene		ND		1.5	3.7
1,2,4-Trimethylbenzene		ND		1.5	3.7
1,2-Dibromo-3-Chloropropane		ND		2.7	37
Ethylene Dibromide		ND		1.5	3.7
1,2-Dichlorobenzene		ND		1.5	3.7
1,2-Dichloroethane		ND		1.5	3.7
Acetone		34	J	27	370
1,2-Dichloropropane		ND		1.5	3.7
1,3,5-Trimethylbenzene		ND		1.5	3.7
1,3-Dichlorobenzene		ND		1.5	3.7
1,3-Dichloropropane		ND		1.5	3.7
1,4-Dichlorobenzene		ND		1.5	3.7
1,4-Dioxane		ND	J	49	370
2,2-Dichloropropane		ND		1.5	3.7
2,4,4-Trimethyl-1-pentene		ND		1.5	7.4
2,4,4-Trimethyl-2-pentene		ND		1.5	7.4
2-Chlorotoluene		ND		1.5	3.7
2-Hexanone		ND		7.6	37
4-Chlorotoluene		ND		1.5	3.7
Benzene		ND		1.5	3.7
Bromobenzene		ND		1.5	3.7
Chlorobromomethane		ND		1.5	3.7
Dichlorobromomethane		ND		1.5	3.7
Bromoform		ND		1.5	3.7
Bromomethane		ND		1.5	7.4
n-Butylbenzene		ND		1.5	3.7
Carbon disulfide		ND		1.5	3.7
Carbon tetrachloride		ND		1.5	3.7
Chlorobenzene		ND		1.5	3.7
Chloroethane		ND		1.5	7.4
Chloroform		ND		1.5	3.7
Chloromethane		ND		1.5	7.4
cis-1,2-Dichloroethene		ND		1.5	3.7
cis-1,3-Dichloropropene		ND		1.5	3.7
Cyclohexane		ND		3.8	37
Chlorodibromomethane		ND		1.5	3.7

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TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-450-0.0/1.0-XXX**

Lab Sample ID: 360-24665-8
Client Matrix: Solid
% Moisture: 34.7

Date Sampled: 09/16/2009 1555
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45205.D
Dilution:	1.0			Initial Weight/Volume:	5.15 g
Date Analyzed:	09/22/2009 0052			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.5	3.7
Dichlorodifluoromethane		ND J		1.5	7.4
Ethyl ether		ND		1.5	3.7
Isopropyl ether		ND		1.5	3.7
Tert-butyl ethyl ether		ND		3.7	3.7
Ethylbenzene		ND		1.5	3.7
Hexachlorobutadiene		ND		1.5	3.7
Isopropylbenzene		ND		1.5	3.7
Methyl acetate		ND		24	74
2-Butanone (MEK)		ND		10	37
4-Methyl-2-pentanone (MIBK)		ND		7.7	37
Methyl tert-butyl ether		ND		1.5	3.7
Methylcyclohexane		ND		1.5	3.7
Methylene Chloride		ND		7.2	15
m-Xylene & p-Xylene		ND		1.5	7.4
Naphthalene		ND		1.5	37
N-Propylbenzene		ND		1.5	3.7
o-Xylene		ND		1.5	3.7
4-Isopropyltoluene		ND		1.5	3.7
sec-Butylbenzene		ND		1.5	3.7
Styrene		ND		1.5	3.7
Tert-amyl methyl ether		ND		1.5	3.7
tert-Butylbenzene		ND		1.5	3.7
Tetrachloroethene		ND		1.5	3.7
Tetrahydrofuran		ND		8.2	37
Toluene		ND		1.5	3.7
trans-1,2-Dichloroethene		ND		1.5	3.7
trans-1,3-Dichloropropene		ND		1.5	3.7
Trichloroethene		ND		1.5	3.7
Trichlorofluoromethane		ND		1.5	7.4
Vinyl chloride		ND		1.5	3.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-450-0.0/1.0-XXX**

Lab Sample ID: 360-24665-8
Client Matrix: Solid
% Moisture: 34.7

Date Sampled: 09/16/2009 1555
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45205.D
Dilution:	1.0			Initial Weight/Volume:	5.15 g
Date Analyzed:	09/22/2009 0052			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

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TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-451-0.0/1.0-XXX**

Lab Sample ID: 360-24665-9
Client Matrix: Solid
% Moisture: 23.1

Date Sampled: 09/16/2009 1520
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45206.D
Dilution:	1.0			Initial Weight/Volume:	5.26 g
Date Analyzed:	09/22/2009 0116			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.2	3.1
1,1,1-Trichloroethane		ND		1.2	3.1
1,1,2,2-Tetrachloroethane		ND		1.2	3.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	15
1,1,2-Trichloroethane		ND		1.2	3.1
1,1-Dichloroethane		ND		1.2	3.1
1,1-Dichloroethene		ND		1.2	3.1
1,1-Dichloropropene		ND		1.2	3.1
1,2,3-Trichlorobenzene		ND		1.2	3.1
1,2,3-Trichloropropane		ND		1.8	3.1
1,2,4-Trichlorobenzene		ND		1.2	3.1
1,2,4-Trimethylbenzene		ND		1.2	3.1
1,2-Dibromo-3-Chloropropane		ND		2.2	31
Ethylene Dibromide		ND		1.2	3.1
1,2-Dichlorobenzene		ND		1.2	3.1
1,2-Dichloroethane		ND		1.2	3.1
Acetone		ND	J	22	310
1,2-Dichloropropane		ND		1.2	3.1
1,3,5-Trimethylbenzene		ND		1.2	3.1
1,3-Dichlorobenzene		ND		1.2	3.1
1,3-Dichloropropane		ND		1.2	3.1
1,4-Dichlorobenzene		ND		1.2	3.1
1,4-Dioxane		ND	J	41	310
2,2-Dichloropropane		ND		1.2	3.1
2,4,4-Trimethyl-1-pentene		ND		1.2	6.2
2,4,4-Trimethyl-2-pentene		ND		1.2	6.2
2-Chlorotoluene		ND		1.2	3.1
2-Hexanone		ND		6.4	31
4-Chlorotoluene		ND		1.2	3.1
Benzene		ND		1.2	3.1
Bromobenzene		ND		1.2	3.1
Chlorobromomethane		ND		1.2	3.1
Dichlorobromomethane		ND		1.2	3.1
Bromoform		ND		1.2	3.1
Bromomethane		ND		1.2	6.2
n-Butylbenzene		ND		1.2	3.1
Carbon disulfide		ND		1.2	3.1
Carbon tetrachloride		ND		1.2	3.1
Chlorobenzene		ND		1.2	3.1
Chloroethane		ND		1.2	6.2
Chloroform		ND		1.2	3.1
Chloromethane		ND		1.2	6.2
cis-1,2-Dichloroethene		ND		1.2	3.1
cis-1,3-Dichloropropene		ND		1.2	3.1
Cyclohexane		ND		3.2	31
Chlorodibromomethane		ND		1.2	3.1

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Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-451-0.0/1.0-XXX**

Lab Sample ID: 360-24665-9
Client Matrix: Solid
% Moisture: 23.1

Date Sampled: 09/16/2009 1520
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45206.D
Dilution:	1.0			Initial Weight/Volume:	5.26 g
Date Analyzed:	09/22/2009 0116			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.2	3.1
Dichlorodifluoromethane		ND		1.2	6.2
Ethyl ether		ND		1.2	3.1
Isopropyl ether		ND		1.2	3.1
Tert-butyl ethyl ether		ND		3.1	3.1
Ethylbenzene		ND		1.2	3.1
Hexachlorobutadiene		ND		1.2	3.1
Isopropylbenzene		ND		1.2	3.1
Methyl acetate		ND		20	62
2-Butanone (MEK)		ND		8.3	31
4-Methyl-2-pentanone (MIBK)		ND		6.4	31
Methyl tert-butyl ether		ND		1.2	3.1
Methylcyclohexane		ND		1.2	3.1
Methylene Chloride		ND		6.0	12
m-Xylene & p-Xylene		ND		1.2	6.2
Naphthalene		ND		1.2	31
N-Propylbenzene		ND		1.2	3.1
o-Xylene		ND		1.2	3.1
4-Isopropyltoluene		ND		1.2	3.1
sec-Butylbenzene		ND		1.2	3.1
Styrene		ND		1.2	3.1
Tert-amyl methyl ether		ND		1.2	3.1
tert-Butylbenzene		ND		1.2	3.1
Tetrachloroethene		ND		1.2	3.1
Tetrahydrofuran		ND		6.8	31
Toluene		ND		1.2	3.1
trans-1,2-Dichloroethene		ND		1.2	3.1
trans-1,3-Dichloropropene		ND		1.2	3.1
Trichloroethene		ND		1.2	3.1
Trichlorofluoromethane		ND		1.2	6.2
Vinyl chloride		ND		1.2	3.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	99		70 - 130

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TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-451-0.0/1.0-XXX**

Lab Sample ID: 360-24665-9
Client Matrix: Solid
% Moisture: 23.1

Date Sampled: 09/16/2009 1520
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45206.D
Dilution:	1.0			Initial Weight/Volume:	5.26 g
Date Analyzed:	09/22/2009 0116			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
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Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-454-0.0/1.0-XXX**

Lab Sample ID: 360-24665-10
Client Matrix: Solid % Moisture: 13.5

Date Sampled: 09/17/2009 0755
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45207.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	09/22/2009 0140			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.1	2.9
1,1,1-Trichloroethane		ND		1.1	2.9
1,1,2,2-Tetrachloroethane		ND		1.1	2.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	14
1,1,2-Trichloroethane		ND		1.1	2.9
1,1-Dichloroethane		ND		1.1	2.9
1,1-Dichloroethene		ND		1.1	2.9
1,1-Dichloropropene		ND		1.1	2.9
1,2,3-Trichlorobenzene		ND		1.1	2.9
1,2,3-Trichloropropane		ND		1.7	2.9
1,2,4-Trichlorobenzene		ND		1.1	2.9
1,2,4-Trimethylbenzene		ND		1.1	2.9
1,2-Dibromo-3-Chloropropane		ND		2.1	29
Ethylene Dibromide		ND		1.1	2.9
1,2-Dichlorobenzene		ND		1.1	2.9
1,2-Dichloroethane		ND		1.1	2.9
Acetone		ND	J	20	290
1,2-Dichloropropane		ND		1.1	2.9
1,3,5-Trimethylbenzene		ND		1.1	2.9
1,3-Dichlorobenzene		ND		1.1	2.9
1,3-Dichloropropane		ND		1.1	2.9
1,4-Dichlorobenzene		ND		1.1	2.9
1,4-Dioxane		ND	J	38	290
2,2-Dichloropropane		ND		1.1	2.9
2,4,4-Trimethyl-1-pentene		ND		1.1	5.7
2,4,4-Trimethyl-2-pentene		ND		1.1	5.7
2-Chlorotoluene		ND		1.1	2.9
2-Hexanone		ND		5.9	29
4-Chlorotoluene		ND		1.1	2.9
Benzene		ND		1.1	2.9
Bromobenzene		ND		1.1	2.9
Chlorobromomethane		ND		1.1	2.9
Dichlorobromomethane		ND		1.1	2.9
Bromoform		ND		1.1	2.9
Bromomethane		ND		1.1	5.7
n-Butylbenzene		ND		1.1	2.9
Carbon disulfide		ND		1.1	2.9
Carbon tetrachloride		ND		1.1	2.9
Chlorobenzene		ND		1.1	2.9
Chloroethane		ND		1.1	5.7
Chloroform		ND		1.1	2.9
Chloromethane		ND		1.1	5.7
cis-1,2-Dichloroethene		ND		1.1	2.9
cis-1,3-Dichloropropene		ND		1.1	2.9
Cyclohexane		ND		2.9	29
Chlorodibromomethane		ND		1.1	2.9

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Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-454-0.0/1.0-XXX**

Lab Sample ID: 360-24665-10
Client Matrix: Solid
% Moisture: 13.5

Date Sampled: 09/17/2009 0755
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45207.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	09/22/2009 0140			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.1	2.9
Dichlorodifluoromethane		ND J		1.1	5.7
Ethyl ether		ND		1.1	2.9
Isopropyl ether		ND		1.1	2.9
Tert-butyl ethyl ether		ND		2.9	2.9
Ethylbenzene		ND		1.1	2.9
Hexachlorobutadiene		ND		1.1	2.9
Isopropylbenzene		ND		1.1	2.9
Methyl acetate		ND		19	57
2-Butanone (MEK)		ND		7.7	29
4-Methyl-2-pentanone (MIBK)		ND		5.9	29
Methyl tert-butyl ether		ND		1.1	2.9
Methylcyclohexane		ND		1.1	2.9
Methylene Chloride		ND		5.5	11
m-Xylene & p-Xylene		ND		1.1	5.7
Naphthalene		ND		1.1	29
N-Propylbenzene		ND		1.1	2.9
o-Xylene		ND		1.1	2.9
4-Isopropyltoluene		ND		1.1	2.9
sec-Butylbenzene		ND		1.1	2.9
Styrene		ND		1.1	2.9
Tert-amyl methyl ether		ND		1.1	2.9
tert-Butylbenzene		ND		1.1	2.9
Tetrachloroethene		ND		1.1	2.9
Tetrahydrofuran		ND		6.3	29
Toluene		ND		1.1	2.9
trans-1,2-Dichloroethene		ND		1.1	2.9
trans-1,3-Dichloropropene		ND		1.1	2.9
Trichloroethene		ND		1.1	2.9
Trichlorofluoromethane		ND		1.1	5.7
Vinyl chloride		ND		1.1	2.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		70 - 130
Dibromofluoromethane	95		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-454-0.0/1.0-XXX**

Lab Sample ID: 360-24665-10
Client Matrix: Solid
% Moisture: 13.5

Date Sampled: 09/17/2009 0755
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45207.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Date Analyzed:	09/22/2009 0140			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-455-0.0/1.0-XXX**

Lab Sample ID: 360-24665-11
Client Matrix: Solid
% Moisture: 15.1

Date Sampled: 09/16/2009 1750
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45243.D
Dilution:	1.0			Initial Weight/Volume:	4.86 g
Date Analyzed:	09/22/2009 2021			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.2	3.0
1,1,1-Trichloroethane		ND		1.2	3.0
1,1,2,2-Tetrachloroethane		ND		1.2	3.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	15
1,1,2-Trichloroethane		ND		1.2	3.0
1,1-Dichloroethane		ND		1.2	3.0
1,1-Dichloroethene		ND		1.2	3.0
1,1-Dichloropropene		ND		1.2	3.0
1,2,3-Trichlorobenzene		ND		1.2	3.0
1,2,3-Trichloropropane		ND		1.8	3.0
1,2,4-Trichlorobenzene		ND		1.2	3.0
1,2,4-Trimethylbenzene		ND		1.2	3.0
1,2-Dibromo-3-Chloropropane		ND		2.2	30
Ethylene Dibromide		ND		1.2	3.0
1,2-Dichlorobenzene		ND		1.2	3.0
1,2-Dichloroethane		ND		1.2	3.0
Acetone		35	J	22	300
1,2-Dichloropropane		ND		1.2	3.0
1,3,5-Trimethylbenzene		ND		1.2	3.0
1,3-Dichlorobenzene		ND		1.2	3.0
1,3-Dichloropropane		ND		1.2	3.0
1,4-Dichlorobenzene		ND		1.2	3.0
1,4-Dioxane		ND		40	300
2,2-Dichloropropane		ND		1.2	3.0
2,4,4-Trimethyl-1-pentene		ND		1.2	6.1
2,4,4-Trimethyl-2-pentene		ND		1.2	6.1
2-Chlorotoluene		ND		1.2	3.0
2-Hexanone		ND		6.2	30
4-Chlorotoluene		ND		1.2	3.0
Benzene		ND		1.2	3.0
Bromobenzene		ND		1.2	3.0
Chlorobromomethane		ND		1.2	3.0
Dichlorobromomethane		ND		1.2	3.0
Bromoform		ND		1.2	3.0
Bromomethane		ND		1.2	6.1
n-Butylbenzene		ND		1.2	3.0
Carbon disulfide		ND		1.2	3.0
Carbon tetrachloride		ND		1.2	3.0
Chlorobenzene		ND		1.2	3.0
Chloroethane		ND		1.2	6.1
Chloroform		ND		1.2	3.0
Chloromethane		ND		1.2	6.1
cis-1,2-Dichloroethene		ND		1.2	3.0
cis-1,3-Dichloropropene		ND		1.2	3.0
Cyclohexane		ND		3.1	30
Chlorodibromomethane		ND		1.2	3.0

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-455-0.0/1.0-XXX**

Lab Sample ID: 360-24665-11
Client Matrix: Solid
% Moisture: 15.1

Date Sampled: 09/16/2009 1750
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45243.D
Dilution:	1.0			Initial Weight/Volume:	4.86 g
Date Analyzed:	09/22/2009 2021			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.2	3.0
Dichlorodifluoromethane		ND	J	1.2	6.1
Ethyl ether		ND	J	1.2	3.0
Isopropyl ether		ND		1.2	3.0
Tert-butyl ethyl ether		ND		3.0	3.0
Ethylbenzene		ND		1.2	3.0
Hexachlorobutadiene		ND		1.2	3.0
Isopropylbenzene		ND		1.2	3.0
Methyl acetate		ND		20	61
2-Butanone (MEK)		ND		8.2	30
4-Methyl-2-pentanone (MIBK)		ND		6.3	30
Methyl tert-butyl ether		ND	J	1.2	3.0
Methylcyclohexane		ND		1.2	3.0
Methylene Chloride		ND		5.9	12
m-Xylene & p-Xylene		ND		1.2	6.1
Naphthalene		ND		1.2	30
N-Propylbenzene		ND		1.2	3.0
o-Xylene		ND		1.2	3.0
4-Isopropyltoluene		ND		1.2	3.0
sec-Butylbenzene		ND		1.2	3.0
Styrene		ND		1.2	3.0
Tert-amyl methyl ether		ND		1.2	3.0
tert-Butylbenzene		ND		1.2	3.0
Tetrachloroethene		ND		1.2	3.0
Tetrahydrofuran		ND		6.7	30
Toluene		ND		1.2	3.0
trans-1,2-Dichloroethene		ND		1.2	3.0
trans-1,3-Dichloropropene		ND		1.2	3.0
Trichloroethene		ND		1.2	3.0
Trichlorofluoromethane		ND		1.2	6.1
Vinyl chloride		ND		1.2	3.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	105		70 - 130

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Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-455-0.0/1.0-XXX**

Lab Sample ID: 360-24665-11
Client Matrix: Solid
% Moisture: 15.1

Date Sampled: 09/16/2009 1750
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45243.D
Dilution:	1.0			Initial Weight/Volume:	4.86 g
Date Analyzed:	09/22/2009 2021			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.62	10	T J

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TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-460-0.0/1.0-XXX**

Lab Sample ID: 360-24665-12
Client Matrix: Solid
% Moisture: 15.6

Date Sampled: 09/16/2009 1730
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45277.D
Dilution:	1.0			Initial Weight/Volume:	4.60 g
Date Analyzed:	09/23/2009 1845			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.3	3.2
1,1,1-Trichloroethane		ND		1.3	3.2
1,1,2,2-Tetrachloroethane		ND		1.3	3.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	16
1,1,2-Trichloroethane		ND		1.3	3.2
1,1-Dichloroethane		ND		1.3	3.2
1,1-Dichloroethene		ND		1.3	3.2
1,1-Dichloropropene		ND		1.3	3.2
1,2,3-Trichlorobenzene		ND		1.3	3.2
1,2,3-Trichloropropane		ND		1.9	3.2
1,2,4-Trichlorobenzene		ND		1.3	3.2
1,2,4-Trimethylbenzene		ND		1.3	3.2
1,2-Dibromo-3-Chloropropane		ND		2.3	32
Ethylene Dibromide		ND		1.3	3.2
1,2-Dichlorobenzene		ND		1.3	3.2
1,2-Dichloroethane		ND		1.3	3.2
Acetone		34	J	23	320
1,2-Dichloropropane		ND		1.3	3.2
1,3,5-Trimethylbenzene		ND		1.3	3.2
1,3-Dichlorobenzene		ND		1.3	3.2
1,3-Dichloropropane		ND		1.3	3.2
1,4-Dichlorobenzene		ND		1.3	3.2
1,4-Dioxane		ND J		42	320
2,2-Dichloropropane		ND		1.3	3.2
2,4,4-Trimethyl-1-pentene		ND		1.3	6.4
2,4,4-Trimethyl-2-pentene		ND		1.3	6.4
2-Chlorotoluene		ND		1.3	3.2
2-Hexanone		ND		6.6	32
4-Chlorotoluene		ND		1.3	3.2
Benzene		ND		1.3	3.2
Bromobenzene		ND		1.3	3.2
Chlorobromomethane		ND		1.3	3.2
Dichlorobromomethane		ND		1.3	3.2
Bromoform		ND		1.3	3.2
Bromomethane		ND		1.3	6.4
n-Butylbenzene		ND		1.3	3.2
Carbon disulfide		ND		1.3	3.2
Carbon tetrachloride		ND		1.3	3.2
Chlorobenzene		ND		1.3	3.2
Chloroethane		ND		1.3	6.4
Chloroform		ND		1.3	3.2
Chloromethane		ND		1.3	6.4
cis-1,2-Dichloroethene		ND		1.3	3.2
cis-1,3-Dichloropropene		ND		1.3	3.2
Cyclohexane		ND		3.3	32
Chlorodibromomethane		ND		1.3	3.2

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Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-460-0.0/1.0-XXX**

Lab Sample ID: 360-24665-12
Client Matrix: Solid % Moisture: 15.6

Date Sampled: 09/16/2009 1730
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45277.D
Dilution:	1.0			Initial Weight/Volume:	4.60 g
Date Analyzed:	09/23/2009 1845			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.3	3.2
Dichlorodifluoromethane		ND J		1.3	6.4
Ethyl ether		ND		1.3	3.2
Isopropyl ether		ND		1.3	3.2
Tert-butyl ethyl ether		ND		3.2	3.2
Ethylbenzene		ND		1.3	3.2
Hexachlorobutadiene		ND		1.3	3.2
Isopropylbenzene		ND		1.3	3.2
Methyl acetate		ND		21	64
2-Butanone (MEK)		ND		8.7	32
4-Methyl-2-pentanone (MIBK)		ND		6.6	32
Methyl tert-butyl ether		ND		1.3	3.2
Methylcyclohexane		ND		1.3	3.2
Methylene Chloride		ND		6.2	13
m-Xylene & p-Xylene		ND		1.3	6.4
Naphthalene		ND		1.3	32
N-Propylbenzene		ND		1.3	3.2
o-Xylene		ND		1.3	3.2
4-Isopropyltoluene		ND		1.3	3.2
sec-Butylbenzene		ND		1.3	3.2
Styrene		ND		1.3	3.2
Tert-amyl methyl ether		ND		1.3	3.2
tert-Butylbenzene		ND		1.3	3.2
Tetrachloroethene		ND		1.3	3.2
Tetrahydrofuran		ND		7.1	32
Toluene		ND		1.3	3.2
trans-1,2-Dichloroethene		ND		1.3	3.2
trans-1,3-Dichloropropene		ND		1.3	3.2
Trichloroethene		ND		1.3	3.2
Trichlorofluoromethane		ND		1.3	6.4
Vinyl chloride		ND		1.3	3.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	103		70 - 130

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4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SS-460-0.0/1.0-XXX**

Lab Sample ID: 360-24665-12
Client Matrix: Solid % Moisture: 15.6

Date Sampled: 09/16/2009 1730
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45277.D
Dilution:	1.0			Initial Weight/Volume:	4.60 g
Date Analyzed:	09/23/2009 1845			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

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Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-406-0.0/1.0-XXX**

Lab Sample ID: 360-24665-13
Client Matrix: Solid
% Moisture: 56.8

Date Sampled: 09/17/2009 1125
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45278.D
Dilution:	1.0			Initial Weight/Volume:	4.92 g
Date Analyzed:	09/23/2009 1909			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		2.4	5.9
1,1,1-Trichloroethane		ND		2.4	5.9
1,1,2,2-Tetrachloroethane		ND		2.4	5.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		2.4	29
1,1,2-Trichloroethane		ND		2.4	5.9
1,1-Dichloroethane		ND		2.4	5.9
1,1-Dichloroethene		ND		2.4	5.9
1,1-Dichloropropene		ND		2.4	5.9
1,2,3-Trichlorobenzene		ND		2.4	5.9
1,2,3-Trichloropropane		ND		3.5	5.9
1,2,4-Trichlorobenzene		ND		2.4	5.9
1,2,4-Trimethylbenzene		ND		2.4	5.9
1,2-Dibromo-3-Chloropropane		ND		4.2	59
Ethylene Dibromide		ND		2.4	5.9
1,2-Dichlorobenzene		ND		2.4	5.9
1,2-Dichloroethane		ND		2.4	5.9
Acetone		68	J	42	590
1,2-Dichloropropane		ND		2.4	5.9
1,3,5-Trimethylbenzene		ND		2.4	5.9
1,3-Dichlorobenzene		ND		2.4	5.9
1,3-Dichloropropane		ND		2.4	5.9
1,4-Dichlorobenzene		ND		2.4	5.9
1,4-Dioxane		ND	J	78	590
2,2-Dichloropropane		ND		2.4	5.9
2,4,4-Trimethyl-1-pentene		ND		2.4	12
2,4,4-Trimethyl-2-pentene		ND		2.4	12
2-Chlorotoluene		ND		2.4	5.9
2-Hexanone		ND		12	59
4-Chlorotoluene		ND		2.4	5.9
Benzene		ND		2.4	5.9
Bromobenzene		ND		2.4	5.9
Chlorobromomethane		ND		2.4	5.9
Dichlorobromomethane		ND		2.4	5.9
Bromoform		ND		2.4	5.9
Bromomethane		ND		2.4	12
n-Butylbenzene		ND		2.4	5.9
Carbon disulfide		ND		2.4	5.9
Carbon tetrachloride		ND		2.4	5.9
Chlorobenzene		ND		2.4	5.9
Chloroethane		ND		2.4	12
Chloroform		ND		2.4	5.9
Chloromethane		ND		2.4	12
cis-1,2-Dichloroethene		ND		2.4	5.9
cis-1,3-Dichloropropene		ND		2.4	5.9
Cyclohexane		ND		6.1	59
Chlorodibromomethane		ND		2.4	5.9

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Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-406-0.0/1.0-XXX**

Lab Sample ID: 360-24665-13
Client Matrix: Solid
% Moisture: 56.8

Date Sampled: 09/17/2009 1125
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45278.D
Dilution:	1.0			Initial Weight/Volume:	4.92 g
Date Analyzed:	09/23/2009 1909			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		2.4	5.9
Dichlorodifluoromethane		ND J		2.4	12
Ethyl ether		ND		2.4	5.9
Isopropyl ether		ND		2.4	5.9
Tert-butyl ethyl ether		ND		5.9	5.9
Ethylbenzene		ND		2.4	5.9
Hexachlorobutadiene		ND		2.4	5.9
Isopropylbenzene		ND		2.4	5.9
Methyl acetate		ND		38	120
2-Butanone (MEK)		ND		16	59
4-Methyl-2-pentanone (MIBK)		ND		12	59
Methyl tert-butyl ether		ND		2.4	5.9
Methylcyclohexane		ND		2.4	5.9
Methylene Chloride		ND		11	24
m-Xylene & p-Xylene		ND		2.4	12
Naphthalene		ND		2.4	59
N-Propylbenzene		ND		2.4	5.9
o-Xylene		ND		2.4	5.9
4-Isopropyltoluene		ND		2.4	5.9
sec-Butylbenzene		ND		2.4	5.9
Styrene		ND		2.4	5.9
Tert-amyl methyl ether		ND		2.4	5.9
tert-Butylbenzene		ND		2.4	5.9
Tetrachloroethene		ND		2.4	5.9
Tetrahydrofuran		ND		13	59
Toluene		ND		2.4	5.9
trans-1,2-Dichloroethene		ND		2.4	5.9
trans-1,3-Dichloropropene		ND		2.4	5.9
Trichloroethene		ND		2.4	5.9
Trichlorofluoromethane		ND		2.4	12
Vinyl chloride		ND		2.4	5.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	102		70 - 130

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4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-406-0.0/1.0-XXX**

Lab Sample ID: 360-24665-13
Client Matrix: Solid % Moisture: 56.8

Date Sampled: 09/17/2009 1125
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45278.D
Dilution:	1.0			Initial Weight/Volume:	4.92 g
Date Analyzed:	09/23/2009 1909			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-406-8.0/10-XXX**

Lab Sample ID: 360-24665-15
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 09/17/2009 1145
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45191.D
Dilution:	1.0			Initial Weight/Volume:	6.52 g
Date Analyzed:	09/21/2009 1914			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.90	2.3
1,1,1-Trichloroethane		ND		0.90	2.3
1,1,2,2-Tetrachloroethane		ND		0.90	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.90	11
1,1,2-Trichloroethane		ND		0.90	2.3
1,1-Dichloroethane		ND		0.90	2.3
1,1-Dichloroethene		ND		0.90	2.3
1,1-Dichloropropene		ND		0.90	2.3
1,2,3-Trichlorobenzene		ND		0.90	2.3
1,2,3-Trichloropropane		ND		1.3	2.3
1,2,4-Trichlorobenzene		ND		0.90	2.3
1,2,4-Trimethylbenzene		ND		0.90	2.3
1,2-Dibromo-3-Chloropropane		ND		1.6	23
Ethylene Dibromide		ND		0.90	2.3
1,2-Dichlorobenzene		ND		0.90	2.3
1,2-Dichloroethane		ND		0.90	2.3
Acetone		ND	J	16	230
1,2-Dichloropropane		ND		0.90	2.3
1,3,5-Trimethylbenzene		ND		0.90	2.3
1,3-Dichlorobenzene		ND		0.90	2.3
1,3-Dichloropropane		ND		0.90	2.3
1,4-Dichlorobenzene		ND		0.90	2.3
1,4-Dioxane		ND	J	30	230
2,2-Dichloropropane		ND		0.90	2.3
2,4,4-Trimethyl-1-pentene		ND		0.90	4.5
2,4,4-Trimethyl-2-pentene		ND		0.90	4.5
2-Chlorotoluene		ND		0.90	2.3
2-Hexanone		ND		4.6	23
4-Chlorotoluene		ND		0.90	2.3
Benzene		ND		0.90	2.3
Bromobenzene		ND		0.90	2.3
Chlorobromomethane		ND		0.90	2.3
Dichlorobromomethane		ND		0.90	2.3
Bromoform		ND		0.90	2.3
Bromomethane		ND		0.90	4.5
n-Butylbenzene		ND		0.90	2.3
Carbon disulfide		ND		0.90	2.3
Carbon tetrachloride		ND		0.90	2.3
Chlorobenzene		ND		0.90	2.3
Chloroethane		ND		0.90	4.5
Chloroform		ND		0.90	2.3
Chloromethane		ND		0.90	4.5
cis-1,2-Dichloroethene		ND		0.90	2.3
cis-1,3-Dichloropropene		ND		0.90	2.3
Cyclohexane		ND		2.3	23
Chlorodibromomethane		ND		0.90	2.3

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Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-406-8.0/10-XXX**

Lab Sample ID: 360-24665-15
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 09/17/2009 1145
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45191.D
Dilution:	1.0			Initial Weight/Volume:	6.52 g
Date Analyzed:	09/21/2009 1914			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.90	2.3
Dichlorodifluoromethane		ND J		0.90	4.5
Ethyl ether		ND		0.90	2.3
Isopropyl ether		ND		0.90	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.90	2.3
Hexachlorobutadiene		ND		0.90	2.3
Isopropylbenzene		ND		0.90	2.3
Methyl acetate		ND		15	45
2-Butanone (MEK)		ND		6.1	23
4-Methyl-2-pentanone (MIBK)		ND		4.6	23
Methyl tert-butyl ether		ND		0.90	2.3
Methylcyclohexane		ND		0.90	2.3
Methylene Chloride		ND		4.4	9.0
m-Xylene & p-Xylene		0.94	J	0.90	4.5
Naphthalene		ND		0.90	23
N-Propylbenzene		ND		0.90	2.3
o-Xylene		ND		0.90	2.3
4-Isopropyltoluene		ND		0.90	2.3
sec-Butylbenzene		ND		0.90	2.3
Styrene		ND		0.90	2.3
Tert-amyl methyl ether		ND		0.90	2.3
tert-Butylbenzene		ND		0.90	2.3
Tetrachloroethene		ND		0.90	2.3
Tetrahydrofuran		ND		5.0	23
Toluene		ND		0.90	2.3
trans-1,2-Dichloroethene		ND		0.90	2.3
trans-1,3-Dichloropropene		ND		0.90	2.3
Trichloroethene		ND		0.90	2.3
Trichlorofluoromethane		ND		0.90	4.5
Vinyl chloride		ND		0.90	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	105		70 - 130

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TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-406-8.0/10-XXX**

Lab Sample ID: 360-24665-15
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 09/17/2009 1145
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45191.D
Dilution:	1.0			Initial Weight/Volume:	6.52 g
Date Analyzed:	09/21/2009 1914			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	9.14	2.0	T J

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-413-0.0/1.0-XXX**

Lab Sample ID: 360-24665-16
Client Matrix: Solid
% Moisture: 27.4

Date Sampled: 09/17/2009 1110
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45279.D
Dilution:	1.0			Initial Weight/Volume:	3.78 g
Date Analyzed:	09/23/2009 1934			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.8	4.6
1,1,1-Trichloroethane		ND		1.8	4.6
1,1,2,2-Tetrachloroethane		ND		1.8	4.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.8	23
1,1,2-Trichloroethane		ND		1.8	4.6
1,1-Dichloroethane		ND		1.8	4.6
1,1-Dichloroethene		ND		1.8	4.6
1,1-Dichloropropene		ND		1.8	4.6
1,2,3-Trichlorobenzene		ND		1.8	4.6
1,2,3-Trichloropropane		ND		2.7	4.6
1,2,4-Trichlorobenzene		ND		1.8	4.6
1,2,4-Trimethylbenzene		ND		1.8	4.6
1,2-Dibromo-3-Chloropropane		ND		3.3	46
Ethylene Dibromide		ND		1.8	4.6
1,2-Dichlorobenzene		ND		1.8	4.6
1,2-Dichloroethane		ND		1.8	4.6
Acetone		39	J	33	460
1,2-Dichloropropane		ND		1.8	4.6
1,3,5-Trimethylbenzene		ND		1.8	4.6
1,3-Dichlorobenzene		ND		1.8	4.6
1,3-Dichloropropane		ND		1.8	4.6
1,4-Dichlorobenzene		ND		1.8	4.6
1,4-Dioxane		ND		60	460
2,2-Dichloropropane		ND		1.8	4.6
2,4,4-Trimethyl-1-pentene		ND		1.8	9.1
2,4,4-Trimethyl-2-pentene		ND		1.8	9.1
2-Chlorotoluene		ND		1.8	4.6
2-Hexanone		ND		9.4	46
4-Chlorotoluene		ND		1.8	4.6
Benzene		ND		1.8	4.6
Bromobenzene		ND		1.8	4.6
Chlorobromomethane		ND		1.8	4.6
Dichlorobromomethane		ND		1.8	4.6
Bromoform		ND		1.8	4.6
Bromomethane		ND		1.8	9.1
n-Butylbenzene		ND		1.8	4.6
Carbon disulfide		ND		1.8	4.6
Carbon tetrachloride		ND		1.8	4.6
Chlorobenzene		ND		1.8	4.6
Chloroethane		ND		1.8	9.1
Chloroform		ND		1.8	4.6
Chloromethane		ND		1.8	9.1
cis-1,2-Dichloroethene		ND		1.8	4.6
cis-1,3-Dichloropropene		ND		1.8	4.6
Cyclohexane		ND		4.7	46
Chlorodibromomethane		ND		1.8	4.6

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-413-0.0/1.0-XXX**

Lab Sample ID: 360-24665-16
Client Matrix: Solid
% Moisture: 27.4

Date Sampled: 09/17/2009 1110
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45279.D
Dilution:	1.0			Initial Weight/Volume:	3.78 g
Date Analyzed:	09/23/2009 1934			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.8	4.6
Dichlorodifluoromethane		ND J		1.8	9.1
Ethyl ether		ND		1.8	4.6
Isopropyl ether		ND		1.8	4.6
Tert-butyl ethyl ether		ND		4.6	4.6
Ethylbenzene		ND		1.8	4.6
Hexachlorobutadiene		ND		1.8	4.6
Isopropylbenzene		ND		1.8	4.6
Methyl acetate		ND		30	91
2-Butanone (MEK)		ND		12	46
4-Methyl-2-pentanone (MIBK)		ND		9.4	46
Methyl tert-butyl ether		ND		1.8	4.6
Methylcyclohexane		ND		1.8	4.6
Methylene Chloride		ND		8.8	18
m-Xylene & p-Xylene		ND		1.8	9.1
Naphthalene		ND		1.8	46
N-Propylbenzene		ND		1.8	4.6
o-Xylene		ND		1.8	4.6
4-Isopropyltoluene		ND		1.8	4.6
sec-Butylbenzene		ND		1.8	4.6
Styrene		ND		1.8	4.6
Tert-amyl methyl ether		ND		1.8	4.6
tert-Butylbenzene		ND		1.8	4.6
Tetrachloroethene		ND		1.8	4.6
Tetrahydrofuran		ND		10	46
Toluene		ND		1.8	4.6
trans-1,2-Dichloroethene		ND		1.8	4.6
trans-1,3-Dichloropropene		ND		1.8	4.6
Trichloroethene		ND		1.8	4.6
Trichlorofluoromethane		ND		1.8	9.1
Vinyl chloride		ND		1.8	4.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-413-0.0/1.0-XXX**

Lab Sample ID: 360-24665-16
Client Matrix: Solid % Moisture: 27.4

Date Sampled: 09/17/2009 1110
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45279.D
Dilution:	1.0			Initial Weight/Volume:	3.78 g
Date Analyzed:	09/23/2009 1934			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
7785-70-8	1R-.alpha.-Pinene	8.88	110	T J N
127-91-3	.beta.-Pinene	9.44	100	T J N
13466-78-9	3-Carene	9.66	21	T J N

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Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-413-1.0/5.0-XXX**

Lab Sample ID: 360-24665-17
Client Matrix: Solid % Moisture: 10.9

Date Sampled: 09/17/2009 1020
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45192.D
Dilution:	1.0			Initial Weight/Volume:	5.53 g
Date Analyzed:	09/21/2009 1938			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		ND		1.0	5.1
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.2	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

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TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-413-1.0/5.0-XXX**

Lab Sample ID: 360-24665-17
Client Matrix: Solid
% Moisture: 10.9

Date Sampled: 09/17/2009 1020
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45192.D
Dilution:	1.0			Initial Weight/Volume:	5.53 g
Date Analyzed:	09/21/2009 1938			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J		1.0	5.1
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		17	51
2-Butanone (MEK)		ND		6.8	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.9	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.6	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	104		70 - 130

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-SB-413-1.0/5.0-XXX**

Lab Sample ID: 360-24665-17
Client Matrix: Solid
% Moisture: 10.9

Date Sampled: 09/17/2009 1020
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49268		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49267		Lab File ID:	V45192.D
Dilution:	1.0			Initial Weight/Volume:	5.53 g
Date Analyzed:	09/21/2009 1938			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	9.43	2.1	T J

TC
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Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-TBK-021**

Lab Sample ID: 360-24665-19
Client Matrix: Solid

Date Sampled: 09/17/2009 1315
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45280.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/23/2009 1958			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

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TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-TBK-021**

Lab Sample ID: 360-24665-19
Client Matrix: Solid

Date Sampled: 09/17/2009 1315
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45280.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/23/2009 1958			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND		1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	104		70 - 130

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Client Sample ID: **OC-TBK-021**

Lab Sample ID: 360-24665-19
Client Matrix: Solid

Date Sampled: 09/17/2009 1315
Date Received: 09/17/2009 1630

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45280.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/23/2009 1958			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

4-12-10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

1,4-Dioxane UJ all samples RRF < 0.05

Acetone
Dichlorodifluoromethane > ICV %D > 30%

TC
4-11-10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab File ID: V45185.D BFB Injection Date: 09/21/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:51

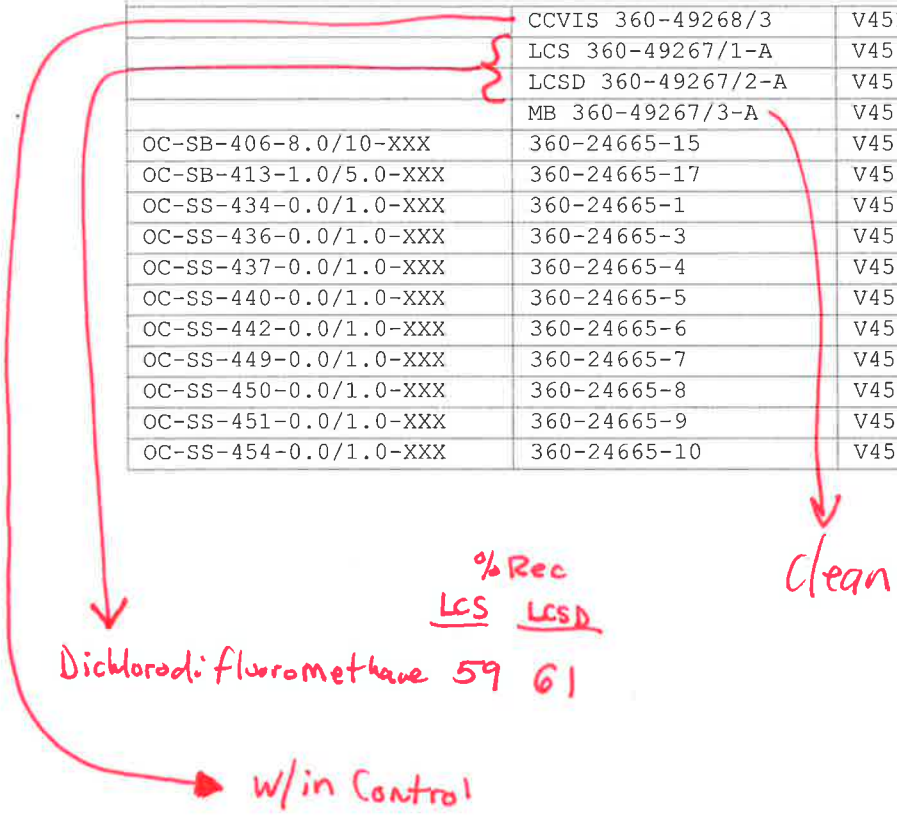
Analysis Batch No.: 49268

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.6	
75	30.0 - 60.0 % of mass 95	50.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.2	
175	5.0 - 9.0 % of mass 174	5.4	(8.2)1
176	95.0 - 101.0 % of mass 174	64.2	(97.0)1
177	5.0 - 9.0 % of mass 176	4.3	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49268/3	V45186.D	09/21/2009	17:15
	LCS 360-49267/1-A	V45187.D	09/21/2009	17:39
	LCSD 360-49267/2-A	V45188.D	09/21/2009	18:03
	MB 360-49267/3-A	V45190.D	09/21/2009	18:50
OC-SB-406-8.0/10-XXX	360-24665-15	V45191.D	09/21/2009	19:14
OC-SB-413-1.0/5.0-XXX	360-24665-17	V45192.D	09/21/2009	19:38
OC-SS-434-0.0/1.0-XXX	360-24665-1	V45199.D	09/21/2009	22:26
OC-SS-436-0.0/1.0-XXX	360-24665-3	V45200.D	09/21/2009	22:50
OC-SS-437-0.0/1.0-XXX	360-24665-4	V45201.D	09/21/2009	23:15
OC-SS-440-0.0/1.0-XXX	360-24665-5	V45202.D	09/21/2009	23:40
OC-SS-442-0.0/1.0-XXX	360-24665-6	V45203.D	09/22/2009	00:04
OC-SS-449-0.0/1.0-XXX	360-24665-7	V45204.D	09/22/2009	00:28
OC-SS-450-0.0/1.0-XXX	360-24665-8	V45205.D	09/22/2009	00:52
OC-SS-451-0.0/1.0-XXX	360-24665-9	V45206.D	09/22/2009	01:16
OC-SS-454-0.0/1.0-XXX	360-24665-10	V45207.D	09/22/2009	01:40



4-11-10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab File ID: V45233.D BFB Injection Date: 09/22/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:22

Analysis Batch No.: 49326

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.0	
75	30.0 - 60.0 % of mass 95	49.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.3	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	65.0	(96.7)1
177	5.0 - 9.0 % of mass 176	4.5	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49326/3	V45234.D	09/22/2009	16:46
	LCS 360-49322/1-A	V45235.D	09/22/2009	17:10
	LCSD 360-49322/2-A	V45236.D	09/22/2009	17:33
	MB 360-49322/3-A	V45238.D	09/22/2009	18:20
OC-SS-455-0.0/1.0-XXX	360-24665-11	V45243.D	09/22/2009	20:21

Clean

% Rec
LCS LCSD
Dichlorodifluoromethane 58 60
2-Butanone 135 134

Ethyl Ether %D -25.2
MTBE -26.1

4-11-10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab File ID: V45270.D BFB Injection Date: 09/23/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:59

Analysis Batch No.: 49369

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.5	
75	30.0 - 60.0 % of mass 95	49.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.1	
175	5.0 - 9.0 % of mass 174	5.4	(8.1)1
176	95.0 - 101.0 % of mass 174	64.8	(98.1)1
177	5.0 - 9.0 % of mass 176	4.3	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49369/3	V45271.D	09/23/2009	16:23
	LCS 360-49366/1-A	V45272.D	09/23/2009	16:46
	LCSD 360-49366/2-A	V45273.D	09/23/2009	17:11
	MB 360-49366/3-A	V45275.D	09/23/2009	17:59
OC-SS-460-0.0/1.0-XXX	360-24665-12	V45277.D	09/23/2009	18:45
OC-SB-406-0.0/1.0-XXX	360-24665-13	V45278.D	09/23/2009	19:09
OC-SB-413-0.0/1.0-XXX	360-24665-16	V45279.D	09/23/2009	19:34
OC-TBK-021	360-24665-19	V45280.D	09/23/2009	19:58

LCS LCSD
Dichlorodifluoromethane 60 53

Unknown @ 9.61 min .568 ug/kg dry
No Quals added

W/in Control

4/12/10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab File ID: V45160.D BFB Injection Date: 09/19/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 01:14

Analysis Batch No.: 49181

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.4	
75	30.0 - 60.0 % of mass 95	51.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	65.6	
175	5.0 - 9.0 % of mass 174	5.4	(8.2)1
176	95.0 - 101.0 % of mass 174	63.5	(96.7)1
177	5.0 - 9.0 % of mass 176	4.2	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49181/2	V45161.D	09/19/2009	01:38
	LCS 360-49179/1-A	V45162.D	09/19/2009	02:02
	LCSD 360-49179/2-A	V45163.D	09/19/2009	02:26
	MB 360-49179/3-A	V45165.D	09/19/2009	03:14
OC-SS-435-0.0/1.0-XXX	360-24665-2	V45175.D	09/19/2009	07:14

Clean

Dichlorodifluoromethane
Methyl Acetate

	LCS	LCSD
	53	45
	154	147

112-Trichlor-1,22-trifluoroethane
Methyl Acetate
2,2-Dichloropropane
2,44-Trimethyl-1-Pentene

	%D
	-25.7
	50.1
	-26.2
	-28.3

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DBFM %Rec	TOL %Rec	BFB %Rec
360-24665-1	OC-SS-434-0.0/1.0-XX	101	105	95
360-24665-2	OC-SS-435-0.0/1.0-XX	95	103	96
360-24665-3	OC-SS-436-0.0/1.0-XX	104	101	98
360-24665-4	OC-SS-437-0.0/1.0-XX	101	105	95
360-24665-5	OC-SS-440-0.0/1.0-XX	100	104	92
360-24665-6	OC-SS-442-0.0/1.0-XX	106	101	98
360-24665-7	OC-SS-449-0.0/1.0-XX	102	102	97
360-24665-8	OC-SS-450-0.0/1.0-XX	99	104	95
360-24665-9	OC-SS-451-0.0/1.0-XX	104	99	100
360-24665-10	OC-SS-454-0.0/1.0-XX	95	104	91
360-24665-11	OC-SS-455-0.0/1.0-XX	97	105	94
360-24665-12	OC-SS-460-0.0/1.0-XX	103	103	99
360-24665-13	OC-SB-406-0.0/1.0-XX	104	102	100
360-24665-15	OC-SB-406-8.0/10-XX	97	105	93
360-24665-16	OC-SB-413-0.0/1.0-XX	97	105	90
360-24665-17	OC-SB-413-1.0/5.0-XX	99	104	96
360-24665-19	OC-TBK-021	103	104	96
MB 360-49179/3-A		99	101	98
MB 360-49267/3-A		103	101	104
MB 360-49322/3-A		102	100	102

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DBFM %Rec	TOL %Rec	BFB %Rec
MB 360-49366/3-A		105	103	101
LCS 360-49179/1-A		98	100	96
LCS 360-49267/1-A		99	101	97
LCS 360-49322/1-A		100	101	97
LCS 360-49366/1-A		97	105	89
LCSD 360-49179/2-A		96	106	92
LCSD 360-49267/2-A		99	100	94
LCSD 360-49322/2-A		97	101	97
LCSD 360-49366/2-A		98	106	89

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

TC
4-11-10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Sample No.: CCVIS 360-49181/2 Date Analyzed: 09/19/2009 01:38

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45161.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20727	5.66	485550	5.88	295090	8.32
UPPER LIMIT		41454	6.16	971100	6.38	590180	8.82
LOWER LIMIT		10364	5.16	242775	5.38	147545	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49179/1-A		21207	5.66	485493	5.88	290628	8.32
LCSD 360-49179/2-A		23459	5.65	511201	5.88	316067	8.32
MB 360-49179/3-A		20393	5.66	476824	5.88	288247	8.32
360-24665-2	OC-SS-435-0.0/1.0-XXX	21741	5.65	488721	5.87	293017	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC
4/12/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Sample No.: CCVIS 360-49181/2 Date Analyzed: 09/19/2009 01:38

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45161.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		134267	10.13				
UPPER LIMIT		268534	10.63				
LOWER LIMIT		67134	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49179/1-A		136466	10.13				
LCSD 360-49179/2-A		134043	10.13				
MB 360-49179/3-A		136467	10.13				
360-24665-2	OC-SS-435-0.0/1.0-XXX	129243	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC
4/12/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Sample No.: CCVIS 360-49268/3 Date Analyzed: 09/21/2009 17:15

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45186.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		22428	5.66	535170	5.88	330452	8.32
UPPER LIMIT		44856	6.16	1070340	6.38	660904	8.82
LOWER LIMIT		11214	5.16	267585	5.38	165226	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49267/1-A		22053	5.65	499540	5.88	295069	8.32
LCSD 360-49267/2-A		21857	5.65	500649	5.88	301348	8.32
MB 360-49267/3-A		20107	5.65	460530	5.88	273255	8.32
360-24665-15	OC-SB-406-8.0/10-XXX	23563	5.65	545740	5.88	336214	8.32
360-24665-17	OC-SB-413-1.0/5.0-XXX	22578	5.65	521852	5.88	318425	8.32
360-24665-1	OC-SS-434-0.0/1.0-XXX	23882	5.65	520696	5.88	323906	8.32
360-24665-3	OC-SS-436-0.0/1.0-XXX	20394	5.65	455445	5.88	273149	8.32
360-24665-4	OC-SS-437-0.0/1.0-XXX	23040	5.65	519528	5.88	321028	8.32
360-24665-5	OC-SS-440-0.0/1.0-XXX	22555	5.65	498284	5.88	299876	8.32
360-24665-6	OC-SS-442-0.0/1.0-XXX	20472	5.65	456402	5.88	270306	8.32
360-24665-7	OC-SS-449-0.0/1.0-XXX	20293	5.65	467333	5.88	284584	8.32
360-24665-8	OC-SS-450-0.0/1.0-XXX	22410	5.65	500976	5.88	302940	8.32
360-24665-9	OC-SS-451-0.0/1.0-XXX	20555	5.65	464019	5.88	273439	8.32
360-24665-10	OC-SS-454-0.0/1.0-XXX	23355	5.65	541522	5.88	324991	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 4/12/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Sample No.: CCVIS 360-49268/3 Date Analyzed: 09/21/2009 17:15

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45186.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		142268	10.13				
UPPER LIMIT		284536	10.63				
LOWER LIMIT		71134	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49267/1-A		133281	10.13				
LCSD 360-49267/2-A		134649	10.13				
MB 360-49267/3-A		132979	10.12				
360-24665-15	OC-SB-406-8.0/10-XXX	139597	10.13				
360-24665-17	OC-SB-413-1.0/5.0-XXX	140757	10.13				
360-24665-1	OC-SS-434-0.0/1.0-XXX	138310	10.12				
360-24665-3	OC-SS-436-0.0/1.0-XXX	124102	10.12				
360-24665-4	OC-SS-437-0.0/1.0-XXX	136563	10.12				
360-24665-5	OC-SS-440-0.0/1.0-XXX	123574	10.13				
360-24665-6	OC-SS-442-0.0/1.0-XXX	121900	10.13				
360-24665-7	OC-SS-449-0.0/1.0-XXX	129524	10.12				
360-24665-8	OC-SS-450-0.0/1.0-XXX	126983	10.13				
360-24665-9	OC-SS-451-0.0/1.0-XXX	128220	10.12				
360-24665-10	OC-SS-454-0.0/1.0-XXX	126988	10.12				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC
4/12/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Sample No.: CCVIS 360-49326/3 Date Analyzed: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45234.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20654	5.65	525989	5.88	323542	8.32
UPPER LIMIT		41308	6.15	1051978	6.38	647084	8.82
LOWER LIMIT		10327	5.15	262995	5.38	161771	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49322/1-A		22932	5.66	509023	5.88	303650	8.32
LCSD 360-49322/2-A		21089	5.65	498711	5.88	292785	8.32
MB 360-49322/3-A		18137	5.65	423384	5.88	250329	8.31
360-24665-11	OC-SS-455-0.0/1.0-XXX	22945	5.65	532592	5.88	322655	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/12/10
TC

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Sample No.: CCVIS 360-49326/3 Date Analyzed: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45234.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		130876	10.13				
UPPER LIMIT		261752	10.63				
LOWER LIMIT		65438	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49322/1-A		137113	10.13				
LCSD 360-49322/2-A		133281	10.13				
MB 360-49322/3-A		119009	10.12				
360-24665-11	OC-SS-455-0.0/1.0-XXX	131577	10.13				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TS
4/12/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Sample No.: CCVIS 360-49369/3 Date Analyzed: 09/23/2009 16:23

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45271.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		21689	5.67	504253	5.89	320328	8.33
UPPER LIMIT		43378	6.17	1008506	6.39	640656	8.83
LOWER LIMIT		10845	5.17	252127	5.39	160164	7.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49366/1-A		22438	5.67	524409	5.89	336941	8.33
LCSD 360-49366/2-A		22654	5.67	518497	5.89	340103	8.33
MB 360-49366/3-A		19075	5.67	430925	5.89	264848	8.33
360-24665-12	OC-SS-460-0.0/1.0-XXX	18940	5.66	448995	5.89	274691	8.33
360-24665-13	OC-SB-406-0.0/1.0-XXX	18161	5.66	421868	5.89	251251	8.33
360-24665-16	OC-SB-413-0.0/1.0-XXX	24766	5.67	577064	5.89	357484	8.33
360-24665-19	OC-TBK-021	22369	5.67	487095	5.89	310418	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC
4/12/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Sample No.: CCVIS 360-49369/3 Date Analyzed: 09/23/2009 16:23

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45271.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		138632	10.14				
UPPER LIMIT		277264	10.64				
LOWER LIMIT		69316	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49366/1-A		140686	10.14				
LCSD 360-49366/2-A		144721	10.14				
MB 360-49366/3-A		127593	10.14				
360-24665-12	OC-SS-460-0.0/1.0-XXX	123854	10.13				
360-24665-13	OC-SB-406-0.0/1.0-XXX	115872	10.13				
360-24665-16	OC-SB-413-0.0/1.0-XXX	142499	10.14				
360-24665-19	OC-TBK-021	143296	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

4/12/10
TC

FORM VIII 8260B

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank - Batch: 360-49179

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49179/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/19/2009 0314
Date Prepared: 09/18/2009 1503

Analysis Batch: 360-49181
Prep Batch: 360-49179
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45165.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 g

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		50	120
1,1,1-Trichloroethane	ND		50	120
1,1,2,2-Tetrachloroethane	ND		50	120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	620
1,1,2-Trichloroethane	ND		50	120
1,1-Dichloroethane	ND		50	120
1,1-Dichloroethene	ND		50	120
1,1-Dichloropropene	ND		50	120
1,2,3-Trichlorobenzene	ND		50	120
1,2,3-Trichloropropane	ND		74	120
1,2,4-Trichlorobenzene	ND		50	120
1,2,4-Trimethylbenzene	ND		50	120
1,2-Dibromo-3-Chloropropane	ND		90	1200
Ethylene Dibromide	ND		50	120
1,2-Dichlorobenzene	ND		50	120
1,2-Dichloroethane	ND		50	120
Acetone	ND		900	12000
1,2-Dichloropropane	ND		50	120
1,3,5-Trimethylbenzene	ND		50	120
1,3-Dichlorobenzene	ND		50	120
1,3-Dichloropropane	ND		50	120
1,4-Dichlorobenzene	ND		50	120
1,4-Dioxane	ND		1600	12000
2,2-Dichloropropane	ND		50	120
2,4,4-Trimethyl-1-pentene	ND		50	250
2,4,4-Trimethyl-2-pentene	ND		50	250
2-Chlorotoluene	ND		50	120
2-Hexanone	ND		260	1200
4-Chlorotoluene	ND		50	120
Benzene	ND		50	120
Bromobenzene	ND		50	120
Chlorobromomethane	ND		50	120
Dichlorobromomethane	ND		50	120
Bromoform	ND		50	120
Bromomethane	ND		50	250
n-Butylbenzene	ND		50	120
Carbon disulfide	ND		50	120
Carbon tetrachloride	ND		50	120
Chlorobenzene	ND		50	120
Chloroethane	ND		50	250
Chloroform	ND		50	120

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank - Batch: 360-49179

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49179/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/19/2009 0314
Date Prepared: 09/18/2009 1503

Analysis Batch: 360-49181
Prep Batch: 360-49179
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45165.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		50	250
cis-1,2-Dichloroethene	ND		50	120
cis-1,3-Dichloropropene	ND		50	120
Cyclohexane	ND		130	1200
Chlorodibromomethane	ND		50	120
Dibromomethane	ND		50	120
Dichlorodifluoromethane	ND		50	250
Ethyl ether	ND		50	120
Isopropyl ether	ND		50	120
Tert-butyl ethyl ether	ND		120	120
Ethylbenzene	ND		50	120
Hexachlorobutadiene	ND		50	120
Isopropylbenzene	ND		50	120
Methyl acetate	ND		810	2500
2-Butanone (MEK)	ND		340	1200
4-Methyl-2-pentanone (MIBK)	ND		260	1200
Methyl tert-butyl ether	ND		50	120
Methylcyclohexane	ND		50	120
Methylene Chloride	ND		240	500
m-Xylene & p-Xylene	ND		50	250
Naphthalene	ND		50	1200
N-Propylbenzene	ND		50	120
o-Xylene	ND		50	120
4-Isopropyltoluene	ND		50	120
sec-Butylbenzene	ND		50	120
Styrene	ND		50	120
Tert-amyl methyl ether	ND		50	120
tert-Butylbenzene	ND		50	120
Tetrachloroethene	ND		50	120
Tetrahydrofuran	ND		280	1200
Toluene	ND		50	120
trans-1,2-Dichloroethene	ND		50	120
trans-1,3-Dichloropropene	ND		50	120
Trichloroethene	ND		50	120
Trichlorofluoromethane	ND		50	250
Vinyl chloride	ND		50	120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	70 - 130
Dibromofluoromethane	99	70 - 130
Toluene-d8 (Surr)	101	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TR

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank TICs- Batch: 360-49179

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49179

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49179/1-A	Analysis Batch: 360-49181	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49179	Lab File ID: V45162.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 10 g
Date Analyzed:	09/19/2009 0202		Final Weight/Volume: 10 g
Date Prepared:	09/18/2009 1503		

LCSD Lab Sample ID:	LCSD 360-49179/2-A	Analysis Batch: 360-49181	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49179	Lab File ID: V45163.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 10 g
Date Analyzed:	09/19/2009 0226		Final Weight/Volume: 10 g
Date Prepared:	09/18/2009 1503		

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	102	93	70 - 130	9	25		
1,1,1-Trichloroethane	91	83	70 - 130	10	25		
1,1,2,2-Tetrachloroethane	88	87	70 - 130	1	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	83	74	70 - 130	11	25		
1,1,2-Trichloroethane	92	95	70 - 130	3	25		
1,1-Dichloroethane	100	93	70 - 130	7	25		
1,1-Dichloroethene	94	85	70 - 130	9	25		
1,1-Dichloropropene	92	86	70 - 130	6	25		
1,2,3-Trichlorobenzene	108	99	70 - 130	9	25		
1,2,3-Trichloropropane	109	101	70 - 130	7	25		
1,2,4-Trichlorobenzene	106	99	70 - 130	7	25		
1,2,4-Trimethylbenzene	99	87	70 - 130	12	25		
1,2-Dibromo-3-Chloropropane	92	87	70 - 130	6	25		
Ethylene Dibromide	92	97	70 - 130	6	25		
1,2-Dichlorobenzene	98	93	70 - 130	5	25		
1,2-Dichloroethane	96	92	70 - 130	4	25		
Acetone	85	80	70 - 130	5	25		
1,2-Dichloropropane	107	105	70 - 130	2	25		
1,3,5-Trimethylbenzene	101	90	70 - 130	12	25		
1,3-Dichlorobenzene	98	86	70 - 130	13	25		
1,3-Dichloropropane	90	95	70 - 130	6	25		
1,4-Dichlorobenzene	96	93	70 - 130	3	25		
1,4-Dioxane	116	98	70 - 130	17	25		
2,2-Dichloropropane	92	78	70 - 130	17	25		
2,4,4-Trimethyl-1-pentene	91	81	70 - 130	11	25		
2,4,4-Trimethyl-2-pentene	86	79	70 - 130	8	25		
2-Chlorotoluene	97	87	70 - 130	11	25		
2-Hexanone	82	86	70 - 130	5	25		
4-Chlorotoluene	96	88	70 - 130	9	25		
Benzene	98	94	70 - 130	5	25		
Bromobenzene	92	84	70 - 130	9	25		
Chlorobromomethane	95	88	70 - 130	7	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49179

Method: 8260B
Preparation: 5035

LCS Lab Sample ID: LCS 360-49179/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/19/2009 0202
Date Prepared: 09/18/2009 1503

Analysis Batch: 360-49181
Prep Batch: 360-49179
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45162.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 g

LCSD Lab Sample ID: LCSD 360-49179/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/19/2009 0226
Date Prepared: 09/18/2009 1503

Analysis Batch: 360-49181
Prep Batch: 360-49179
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45163.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 g

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	93	93	70 - 130	0	25		
Bromoform	81	87	70 - 130	7	25		
Bromomethane	112	97	70 - 130	14	25		
n-Butylbenzene	98	94	70 - 130	4	25		
Carbon disulfide	85	78	70 - 130	8	25		
Carbon tetrachloride	87	80	70 - 130	8	25		
Chlorobenzene	99	98	70 - 130	1	25		
Chloroethane	84	72	70 - 130	16	25		
Chloroform	99	95	70 - 130	4	25		
Chloromethane	95	82	70 - 130	14	25		
cis-1,2-Dichloroethene	97	89	70 - 130	8	25		
cis-1,3-Dichloropropene	88	93	70 - 130	6	25		
Cyclohexane	82	74	70 - 130	10	25		
Chlorodibromomethane	85	88	70 - 130	3	25		
Dibromomethane	95	93	70 - 130	2	25		
Dichlorodifluoromethane	53	45	70 - 130	16	25	*	*
Ethyl ether	94	91	70 - 130	3	25		
Isopropyl ether	94	87	70 - 130	8	25		
Tert-butyl ethyl ether	96	87	70 - 130	10	25		
Ethylbenzene	102	99	70 - 130	3	25		
Hexachlorobutadiene	98	90	70 - 130	8	25		
Isopropylbenzene	101	92	70 - 130	9	25		
Methyl acetate	154	147	70 - 130	4	25	*	*
2-Butanone (MEK)	92	90	70 - 130	2	25		
4-Methyl-2-pentanone (MIBK)	89	86	70 - 130	4	25		
Methyl tert-butyl ether	93	84	70 - 130	10	25		
Methylcyclohexane	84	77	70 - 130	8	25		
Methylene Chloride	104	95	70 - 130	8	25		
m-Xylene & p-Xylene	96	93	70 - 130	4	25		
Naphthalene	96	89	70 - 130	8	25		
N-Propylbenzene	97	88	70 - 130	9	25		
o-Xylene	98	91	70 - 130	8	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10 TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49179

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49179/1-A	Analysis Batch:	360-49181	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49179	Lab File ID:	V45162.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/19/2009 0202			Final Weight/Volume:	10 g
Date Prepared:	09/18/2009 1503				

LCSD Lab Sample ID:	LCSD 360-49179/2-A	Analysis Batch:	360-49181	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49179	Lab File ID:	V45163.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	09/19/2009 0226			Final Weight/Volume:	10 g
Date Prepared:	09/18/2009 1503				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	103	91	70 - 130	13	25		
sec-Butylbenzene	100	88	70 - 130	13	25		
Styrene	95	92	70 - 130	4	25		
Tert-amyl methyl ether	97	89	70 - 130	9	25		
tert-Butylbenzene	102	91	70 - 130	12	25		
Tetrachloroethene	97	99	70 - 130	2	25		
Tetrahydrofuran	108	104	70 - 130	4	25		
Toluene	100	102	70 - 130	2	25		
trans-1,2-Dichloroethene	90	82	70 - 130	10	25		
trans-1,3-Dichloropropene	87	95	70 - 130	9	25		
Trichloroethene	101	98	70 - 130	2	25		
Trichlorofluoromethane	85	74	70 - 130	13	25		
Vinyl chloride	89	79	70 - 130	12	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	96	92	70 - 130
Dibromofluoromethane	98	96	70 - 130
Toluene-d8 (Surr)	100	106	70 - 130

4-11-10
TC

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank - Batch: 360-49267

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49267/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/21/2009 1850
Date Prepared: 09/21/2009 0815

Analysis Batch: 360-49268
Prep Batch: 360-49267
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45190.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
Acetone	ND		18	250
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
4-Chlorotoluene	ND		1.0	2.5
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank - Batch: 360-49267

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49267/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/21/2009 1850
Date Prepared: 09/21/2009 0815

Analysis Batch: 360-49268
Prep Batch: 360-49267
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45190.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	104	70 - 130
Dibromofluoromethane	103	70 - 130
Toluene-d8 (Surr)	101	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank TICs- Batch: 360-49267

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49267

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49267/1-A	Analysis Batch: 360-49268	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49267	Lab File ID: V45187.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 5 g
Date Analyzed:	09/21/2009 1739		Final Weight/Volume: 5 g
Date Prepared:	09/21/2009 0815		

LCSD Lab Sample ID:	LCSD 360-49267/2-A	Analysis Batch: 360-49268	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49267	Lab File ID: V45188.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 5 g
Date Analyzed:	09/21/2009 1803		Final Weight/Volume: 5 g
Date Prepared:	09/21/2009 0815		

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	101	101	70 - 130	1	25		
1,1,1-Trichloroethane	93	95	70 - 130	2	25		
1,1,2,2-Tetrachloroethane	89	94	70 - 130	6	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	87	89	70 - 130	2	25		
1,1,2-Trichloroethane	91	95	70 - 130	4	25		
1,1-Dichloroethane	101	103	70 - 130	1	25		
1,1-Dichloroethene	99	99	70 - 130	0	25		
1,1-Dichloropropene	96	96	70 - 130	1	25		
1,2,3-Trichlorobenzene	105	107	70 - 130	2	25		
1,2,3-Trichloropropane	106	112	70 - 130	5	25		
1,2,4-Trichlorobenzene	103	106	70 - 130	3	25		
1,2,4-Trimethylbenzene	97	98	70 - 130	1	25		
1,2-Dibromo-3-Chloropropane	89	95	70 - 130	6	25		
Ethylene Dibromide	92	94	70 - 130	3	25		
1,2-Dichlorobenzene	96	99	70 - 130	3	25		
1,2-Dichloroethane	93	97	70 - 130	4	25		
Acetone	91	106	70 - 130	16	25		
1,2-Dichloropropane	105	107	70 - 130	2	25		
1,3,5-Trimethylbenzene	101	102	70 - 130	0	25		
1,3-Dichlorobenzene	96	95	70 - 130	0	25		
1,3-Dichloropropane	89	91	70 - 130	2	25		
1,4-Dichlorobenzene	96	99	70 - 130	2	25		
1,4-Dioxane	98	114	70 - 130	15	25		
2,2-Dichloropropane	114	117	70 - 130	3	25		
2,4,4-Trimethyl-1-pentene	98	102	70 - 130	4	25		
2,4,4-Trimethyl-2-pentene	92	94	70 - 130	2	25		
2-Chlorotoluene	97	96	70 - 130	1	25		
2-Hexanone	77	86	70 - 130	11	25		
4-Chlorotoluene	96	97	70 - 130	0	25		
Benzene	97	97	70 - 130	1	25		
Bromobenzene	92	92	70 - 130	0	25		
Chlorobromomethane	91	96	70 - 130	4	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10 TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49267

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49267/1-A	Analysis Batch:	360-49268	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49267	Lab File ID:	V45187.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/21/2009 1739			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

LCSD Lab Sample ID:	LCSD 360-49267/2-A	Analysis Batch:	360-49268	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49267	Lab File ID:	V45188.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/21/2009 1803			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	91	93	70 - 130	1	25		
Bromoform	86	88	70 - 130	3	25		
Bromomethane	112	113	70 - 130	1	25		
n-Butylbenzene	105	105	70 - 130	0	25		
Carbon disulfide	96	97	70 - 130	1	25		
Carbon tetrachloride	94	94	70 - 130	0	25		
Chlorobenzene	100	99	70 - 130	1	25		
Chloroethane	102	102	70 - 130	0	25		
Chloroform	99	101	70 - 130	1	25		
Chloromethane	99	100	70 - 130	1	25		
cis-1,2-Dichloroethene	95	97	70 - 130	2	25		
cis-1,3-Dichloropropene	90	92	70 - 130	2	25		
Cyclohexane	90	89	70 - 130	0	25		
Chlorodibromomethane	88	89	70 - 130	2	25		
Dibromomethane	92	95	70 - 130	3	25		
Dichlorodifluoromethane	59	61	70 - 130	3	25	*	*
Ethyl ether	94	100	70 - 130	6	25		
Isopropyl ether	91	96	70 - 130	5	25		
Tert-butyl ethyl ether	91	97	70 - 130	6	25		
Ethylbenzene	105	104	70 - 130	1	25		
Hexachlorobutadiene	99	97	70 - 130	2	25		
Isopropylbenzene	103	102	70 - 130	1	25		
Methyl acetate	112	116	70 - 130	3	25		
2-Butanone (MEK)	82	92	70 - 130	11	25		
4-Methyl-2-pentanone (MIBK)	81	93	70 - 130	13	25		
Methyl tert-butyl ether	88	94	70 - 130	7	25		
Methylcyclohexane	92	91	70 - 130	0	25		
Methylene Chloride	103	105	70 - 130	3	25		
m-Xylene & p-Xylene	98	97	70 - 130	1	25		
Naphthalene	94	99	70 - 130	5	25		
N-Propylbenzene	100	99	70 - 130	1	25		
o-Xylene	98	98	70 - 130	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49267

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49267/1-A	Analysis Batch:	360-49268	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49267	Lab File ID:	V45187.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/21/2009 1739			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

LCSD Lab Sample ID:	LCSD 360-49267/2-A	Analysis Batch:	360-49268	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49267	Lab File ID:	V45188.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/21/2009 1803			Final Weight/Volume:	5 g
Date Prepared:	09/21/2009 0815				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	104	104	70 - 130	0	25		
sec-Butylbenzene	102	101	70 - 130	2	25		
Styrene	94	95	70 - 130	1	25		
Tert-amyl methyl ether	91	99	70 - 130	9	25		
tert-Butylbenzene	104	102	70 - 130	2	25		
Tetrachloroethene	99	98	70 - 130	1	25		
Tetrahydrofuran	101	109	70 - 130	7	25		
Toluene	100	101	70 - 130	1	25		
trans-1,2-Dichloroethene	92	93	70 - 130	1	25		
trans-1,3-Dichloropropene	89	92	70 - 130	3	25		
Trichloroethene	102	104	70 - 130	2	25		
Trichlorofluoromethane	91	90	70 - 130	1	25		
Vinyl chloride	97	95	70 - 130	2	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	94	70 - 130
Dibromofluoromethane	99	99	70 - 130
Toluene-d8 (Surr)	101	100	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank - Batch: 360-49322

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49322/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/22/2009 1820
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45238.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
Acetone	ND		18	250
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
4-Chlorotoluene	ND		1.0	2.5
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank - Batch: 360-49322

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49322/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/22/2009 1820
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45238.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	70 - 130
Dibromofluoromethane	102	70 - 130
Toluene-d8 (Surr)	100	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank TICs- Batch: 360-49322

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49322

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49322/1-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45235.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1710			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49322/2-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45236.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1733			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	102	107	70 - 130	5	25		
1,1,1-Trichloroethane	92	100	70 - 130	8	25		
1,1,2,2-Tetrachloroethane	95	95	70 - 130	1	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	89	90	70 - 130	1	25		
1,1,2-Trichloroethane	96	94	70 - 130	2	25		
1,1-Dichloroethane	102	107	70 - 130	5	25		
1,1-Dichloroethene	100	104	70 - 130	4	25		
1,1-Dichloropropene	95	99	70 - 130	4	25		
1,2,3-Trichlorobenzene	105	104	70 - 130	1	25		
1,2,3-Trichloropropane	113	112	70 - 130	1	25		
1,2,4-Trichlorobenzene	104	105	70 - 130	0	25		
1,2,4-Trimethylbenzene	97	105	70 - 130	8	25		
1,2-Dibromo-3-Chloropropane	93	88	70 - 130	5	25		
Ethylene Dibromide	96	93	70 - 130	3	25		
1,2-Dichlorobenzene	98	102	70 - 130	3	25		
1,2-Dichloroethane	98	97	70 - 130	1	25		
Acetone	108	88	70 - 130	21	25		
1,2-Dichloropropane	107	110	70 - 130	3	25		
1,3,5-Trimethylbenzene	100	109	70 - 130	9	25		
1,3-Dichlorobenzene	96	100	70 - 130	4	25		
1,3-Dichloropropane	93	90	70 - 130	3	25		
1,4-Dichlorobenzene	97	101	70 - 130	4	25		
1,4-Dioxane	109	100	70 - 130	9	25		
2,2-Dichloropropane	109	122	70 - 130	11	25		
2,4,4-Trimethyl-1-pentene	101	105	70 - 130	3	25		
2,4,4-Trimethyl-2-pentene	97	97	70 - 130	0	25		
2-Chlorotoluene	96	103	70 - 130	8	25		
2-Hexanone	89	82	70 - 130	7	25		
4-Chlorotoluene	96	102	70 - 130	6	25		
Benzene	98	103	70 - 130	4	25		
Bromobenzene	92	96	70 - 130	5	25		
Chlorobromomethane	97	98	70 - 130	1	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49322

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49322/1-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45235.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1710			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49322/2-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45236.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1733			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	95	95	70 - 130	0	25		
Bromoform	88	86	70 - 130	3	25		
Bromomethane	100	114	70 - 130	13	25		
n-Butylbenzene	102	110	70 - 130	7	25		
Carbon disulfide	94	100	70 - 130	7	25		
Carbon tetrachloride	92	97	70 - 130	6	25		
Chlorobenzene	100	105	70 - 130	5	25		
Chloroethane	91	102	70 - 130	12	25		
Chloroform	102	105	70 - 130	4	25		
Chloromethane	90	101	70 - 130	11	25		
cis-1,2-Dichloroethene	96	102	70 - 130	6	25		
cis-1,3-Dichloropropene	93	92	70 - 130	1	25		
Cyclohexane	90	93	70 - 130	3	25		
Chlorodibromomethane	90	89	70 - 130	1	25		
Dibromomethane	97	97	70 - 130	0	25		
Dichlorodifluoromethane	58	60	70 - 130	4	25	*	*
Ethyl ether	104	102	70 - 130	2	25		
Isopropyl ether	98	100	70 - 130	2	25		
Tert-butyl ethyl ether	100	100	70 - 130	0	25		
Ethylbenzene	104	111	70 - 130	7	25		
Hexachlorobutadiene	95	97	70 - 130	3	25		
Isopropylbenzene	102	110	70 - 130	8	25		
Methyl acetate	135	134	70 - 130	1	25	*	*
2-Butanone (MEK)	100	90	70 - 130	10	25		
4-Methyl-2-pentanone (MIBK)	96	91	70 - 130	5	25		
Methyl tert-butyl ether	96	95	70 - 130	1	25		
Methylcyclohexane	94	95	70 - 130	1	25		
Methylene Chloride	106	110	70 - 130	4	25		
m-Xylene & p-Xylene	97	103	70 - 130	6	25		
Naphthalene	95	93	70 - 130	3	25		
N-Propylbenzene	98	106	70 - 130	8	25		
o-Xylene	99	105	70 - 130	7	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49322

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49322/1-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45235.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1710			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49322/2-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45236.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1733			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	102	111	70 - 130	9	25		
sec-Butylbenzene	100	109	70 - 130	8	25		
Styrene	97	103	70 - 130	6	25		
Tert-amyl methyl ether	103	101	70 - 130	2	25		
tert-Butylbenzene	101	110	70 - 130	8	25		
Tetrachloroethene	99	101	70 - 130	3	25		
Tetrahydrofuran	113	107	70 - 130	6	25		
Toluene	101	105	70 - 130	4	25		
trans-1,2-Dichloroethene	92	98	70 - 130	6	25		
trans-1,3-Dichloropropene	92	89	70 - 130	3	25		
Trichloroethene	104	107	70 - 130	3	25		
Trichlorofluoromethane	84	89	70 - 130	5	25		
Vinyl chloride	88	97	70 - 130	9	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	97	70 - 130
Dibromofluoromethane	100	97	70 - 130
Toluene-d8 (Surr)	101	101	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank - Batch: 360-49366

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49366/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/23/2009 1759
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45275.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
Acetone	ND		18	250
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
4-Chlorotoluene	ND		1.0	2.5
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank - Batch: 360-49366

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49366/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/23/2009 1759
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45275.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	70 - 130
Dibromofluoromethane	105	70 - 130
Toluene-d8 (Surr)	103	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Method Blank TICs- Batch: 360-49366

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	9.61	0.568	T J

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49366

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49366/1-A	Analysis Batch:	360-49369	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49366	Lab File ID:	V45272.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/23/2009 1646			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

LCSD Lab Sample ID:	LCSD 360-49366/2-A	Analysis Batch:	360-49369	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49366	Lab File ID:	V45273.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/23/2009 1711			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	95	92	70 - 130	4	25		
1,1,1-Trichloroethane	95	88	70 - 130	7	25		
1,1,2,2-Tetrachloroethane	86	85	70 - 130	1	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	87	81	70 - 130	7	25		
1,1,2-Trichloroethane	94	97	70 - 130	3	25		
1,1-Dichloroethane	101	95	70 - 130	6	25		
1,1-Dichloroethene	100	92	70 - 130	8	25		
1,1-Dichloropropene	96	91	70 - 130	5	25		
1,2,3-Trichlorobenzene	100	102	70 - 130	2	25		
1,2,3-Trichloropropane	96	100	70 - 130	4	25		
1,2,4-Trichlorobenzene	101	102	70 - 130	1	25		
1,2,4-Trimethylbenzene	91	86	70 - 130	5	25		
1,2-Dibromo-3-Chloropropane	88	89	70 - 130	2	25		
Ethylene Dibromide	97	102	70 - 130	5	25		
1,2-Dichlorobenzene	95	93	70 - 130	2	25		
1,2-Dichloroethane	96	96	70 - 130	0	25		
Acetone	81	96	70 - 130	16	25		
1,2-Dichloropropane	107	104	70 - 130	2	25		
1,3,5-Trimethylbenzene	94	89	70 - 130	6	25		
1,3-Dichlorobenzene	88	86	70 - 130	3	25		
1,3-Dichloropropane	93	96	70 - 130	3	25		
1,4-Dichlorobenzene	97	93	70 - 130	5	25		
1,4-Dioxane	105	113	70 - 130	8	25		
2,2-Dichloropropane	112	99	70 - 130	12	25		
2,4,4-Trimethyl-1-pentene	94	85	70 - 130	10	25		
2,4,4-Trimethyl-2-pentene	93	85	70 - 130	9	25		
2-Chlorotoluene	90	86	70 - 130	5	25		
2-Hexanone	83	87	70 - 130	5	25		
4-Chlorotoluene	90	86	70 - 130	5	25		
Benzene	99	96	70 - 130	3	25		
Bromobenzene	84	82	70 - 130	3	25		
Chlorobromomethane	96	96	70 - 130	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49366

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49366/1-A	Analysis Batch:	360-49369	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49366	Lab File ID:	V45272.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/23/2009 1646			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

LCSD Lab Sample ID:	LCSD 360-49366/2-A	Analysis Batch:	360-49369	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49366	Lab File ID:	V45273.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/23/2009 1711			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	95	94	70 - 130	2	25		
Bromoform	87	88	70 - 130	1	25		
Bromomethane	110	102	70 - 130	8	25		
n-Butylbenzene	103	94	70 - 130	9	25		
Carbon disulfide	93	87	70 - 130	7	25		
Carbon tetrachloride	93	87	70 - 130	7	25		
Chlorobenzene	99	95	70 - 130	4	25		
Chloroethane	98	89	70 - 130	10	25		
Chloroform	101	95	70 - 130	6	25		
Chloromethane	97	87	70 - 130	10	25		
cis-1,2-Dichloroethene	95	91	70 - 130	4	25		
cis-1,3-Dichloropropene	95	96	70 - 130	1	25		
Cyclohexane	84	79	70 - 130	6	25		
Chlorodibromomethane	90	93	70 - 130	3	25		
Dibromomethane	96	97	70 - 130	2	25		
Dichlorodifluoromethane	60	53	70 - 130	12	25	*	*
Ethyl ether	96	98	70 - 130	2	25		
Isopropyl ether	91	88	70 - 130	4	25		
Tert-butyl ethyl ether	91	90	70 - 130	2	25		
Ethylbenzene	102	96	70 - 130	6	25		
Hexachlorobutadiene	98	96	70 - 130	3	25		
Isopropylbenzene	98	91	70 - 130	7	25		
Methyl acetate	102	115	70 - 130	12	25		
2-Butanone (MEK)	86	92	70 - 130	7	25		
4-Methyl-2-pentanone (MIBK)	85	89	70 - 130	4	25		
Methyl tert-butyl ether	88	89	70 - 130	1	25		
Methylcyclohexane	87	82	70 - 130	7	25		
Methylene Chloride	105	104	70 - 130	1	25		
m-Xylene & p-Xylene	96	90	70 - 130	6	25		
Naphthalene	89	91	70 - 130	3	25		
N-Propylbenzene	93	87	70 - 130	6	25		
o-Xylene	93	88	70 - 130	6	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24665-1
Sdg Number: OCRI-17

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49366

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49366/1-A	Analysis Batch: 360-49369	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49366	Lab File ID: V45272.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 5 g
Date Analyzed:	09/23/2009 1646		Final Weight/Volume: 5 g
Date Prepared:	09/23/2009 1439		

LCSD Lab Sample ID:	LCSD 360-49366/2-A	Analysis Batch: 360-49369	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49366	Lab File ID: V45273.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 5 g
Date Analyzed:	09/23/2009 1711		Final Weight/Volume: 5 g
Date Prepared:	09/23/2009 1439		

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	97	92	70 - 130	6	25		
sec-Butylbenzene	94	88	70 - 130	7	25		
Styrene	93	89	70 - 130	4	25		
Tert-amyl methyl ether	92	91	70 - 130	1	25		
tert-Butylbenzene	96	90	70 - 130	6	25		
Tetrachloroethene	108	106	70 - 130	2	25		
Tetrahydrofuran	101	106	70 - 130	4	25		
Toluene	106	103	70 - 130	3	25		
trans-1,2-Dichloroethene	91	86	70 - 130	5	25		
trans-1,3-Dichloropropene	94	98	70 - 130	4	25		
Trichloroethene	108	105	70 - 130	3	25		
Trichlorofluoromethane	87	80	70 - 130	9	25		
Vinyl chloride	92	84	70 - 130	10	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	89	89	70 - 130
Dibromofluoromethane	97	98	70 - 130
Toluene-d8 (Surr)	105	106	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49181/2 Calibration Date: 09/19/2009 01:38

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45161.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3964		16.4	20.0	-17.9	30.0
Chloromethane	Ave	0.9034	0.8257	0.1000	19.6	20.0	-8.6	30.0
Vinyl chloride	Ave	0.6300	0.5432		18.3	20.0	-13.8	20.0
Bromomethane	Ave	0.3127	0.3012		20.2	20.0	-3.7	30.0
Chloroethane	Lin2		0.3169		19.6	20.0	-2.2	30.0
Trichlorofluoromethane	Ave	0.5183	0.4220		16.3	20.0	-18.6	30.0
Ethyl ether	Ave	0.2603	0.2360		19.4	20.0	-9.3	30.0
1,1-Dichloroethene	Ave	0.3201	0.2706		17.5	20.0	-15.5	20.0
Carbon disulfide	Ave	1.395	1.142		16.4	20.0	-18.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1380		14.9	20.0	-25.7	30.0
Acrolein	Ave	0.7836	0.6578		839	1000	-16.1	30.0
Methylene Chloride	Lin1		0.3437		19.7	20.0	-1.7	30.0
Acetone	Lin2		0.0568		217	200	8.7	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6091		17.3	20.0	-13.7	30.0
Methyl acetate	Lin1		0.2184		300	200	50.1*	30.0
Methyl tert-butyl ether	Ave	0.6992	0.6076		17.4	20.0	-13.1	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3341		174	200	-12.9	30.0
Isopropyl ether	Ave	1.997	1.843		18.5	20.0	-7.7	30.0
1,1-Dichloroethane	Ave	0.7919	0.7077	0.1000	19.0	20.0	-10.6	30.0
Acrylonitrile	Lin1		0.0638		19.6	20.0	-1.9	30.0
Tert-butyl ethyl ether	Ave	1.194	1.110		18.6	20.0	-7.0	30.0
Vinyl acetate	Ave	0.5745	0.2378		82.8	200	-58.6*	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5602		18.2	20.0	-8.9	30.0
2,2-Dichloropropane	Ave	0.5371	0.3961		16.6	20.0	-26.2	30.0
Chlorobromomethane	Ave	0.1386	0.1270		18.3	20.0	-8.4	30.0
Cyclohexane	Ave	0.8898	0.6819		15.4	20.0	-23.4	30.0
Chloroform	Ave	0.6243	0.5606		19.2	20.0	-10.2	20.0
Carbon tetrachloride	Ave	0.3645	0.2955		16.2	20.0	-18.9	30.0
Tetrahydrofuran	Ave	0.0762	0.0705		202	200	-7.4	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4436		17.0	20.0	-14.2	30.0
2-Butanone (MEK)	Ave	0.0960	0.0916		203	200	-4.6	30.0
1,1-Dichloropropene	Ave	0.4990	0.4287		17.2	20.0	-14.1	30.0
Benzene	Ave	1.352	1.280		18.9	20.0	-5.3	30.0
Tert-amyl methyl ether	Ave	0.7621	0.7045		18.5	20.0	-7.6	30.0
1,2-Dichloroethane	Ave	0.3253	0.3003		18.5	20.0	-7.7	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.2727		15.6	20.0	-28.3	30.0
Methylcyclohexane	Ave	0.6300	0.4963		15.8	20.0	-21.2	30.0
Trichloroethene	Ave	0.3155	0.2921		19.3	20.0	-7.4	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1427		15.2	20.0	-23.8	30.0
Dibromomethane	Ave	0.1188	0.1129		18.9	20.0	-4.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49181/2 Calibration Date: 09/19/2009 01:38

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45161.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2917		20.7	20.0	-8.3	20.0
Dichlorobromomethane	Ave	0.3427	0.3187		18.5	20.0	-7.0	30.0
Methyl methacrylate	Ave	0.0864	0.0754		17.1	20.0	-12.8	30.0
1,4-Dioxane	Qua		0.0242		226	200	13.2	30.0
2-Chloroethyl vinyl ether	Lin		0.0724		375	200	87.5*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3602		18.1	20.0	-9.4	30.0
Toluene	Ave	0.7062	0.6728		19.6	20.0	-4.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1995		195	200	-2.6	30.0
Tetrachloroethene	Ave	0.1859	0.1722		18.5	20.0	-7.4	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2565		17.6	20.0	-12.0	30.0
1,1,2-Trichloroethane	Lin1		0.1189		19.0	20.0	-4.8	30.0
Chlorodibromomethane	Ave	0.1504	0.1345		17.9	20.0	-10.6	30.0
1,3-Dichloropropane	Ave	0.2828	0.2575		18.2	20.0	-9.0	30.0
Ethylene Dibromide	Ave	0.1260	0.1185		18.8	20.0	-5.9	30.0
2-Hexanone	Ave	0.1294	0.1166		183	200	-9.9	30.0
Chlorobenzene	Ave	1.096	1.054	0.3000	19.4	20.0	-3.8	30.0
Ethylbenzene	Ave	2.279	2.096		19.7	20.0	-8.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3232		19.5	20.0	-7.0	30.0
m-Xylene & p-Xylene	Ave	1.752	1.618		37.0	40.0	-7.7	30.0
o-Xylene	Ave	1.903	1.772		18.7	20.0	-6.9	30.0
Styrene	Ave	1.294	1.195		18.5	20.0	-7.7	30.0
Bromoform	Ave	0.3131	0.2756	0.1000	16.8	20.0	-12.0	20.0
Isopropylbenzene	Ave	2.255	2.103		18.7	20.0	-6.7	30.0
Bromobenzene	Ave	1.024	0.8837		17.3	20.0	-13.7	30.0
N-Propylbenzene	Ave	2.901	2.595		17.9	20.0	-10.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.6161	0.3000	17.9	20.0	-10.0	30.0
2-Chlorotoluene	Ave	1.927	1.743		18.2	20.0	-9.6	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.730		18.7	20.0	-6.5	30.0
1,2,3-Trichloropropane	Lin2		0.0614		19.8	20.0	-1.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0862		16.2	20.0	-19.2	30.0
4-Chlorotoluene	Ave	1.683	1.511		17.9	20.0	-10.2	30.0
tert-Butylbenzene	Ave	1.471	1.382		18.8	20.0	-6.1	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.755		18.7	20.0	-6.4	30.0
sec-Butylbenzene	Ave	2.518	2.308		18.3	20.0	-8.3	30.0
4-Isopropyltoluene	Ave	1.894	1.724		18.1	20.0	-9.0	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7622		18.1	20.0	-9.4	30.0
1,4-Dichlorobenzene	Ave	1.788	1.629		18.3	20.0	-8.9	30.0
n-Butylbenzene	Ave	4.614	4.181		18.1	20.0	-9.4	30.0
1,2-Dichlorobenzene	Ave	1.492	1.398		18.7	20.0	-6.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0694		18.0	20.0	-9.8	30.0
Hexachlorobutadiene	Ave	0.5170	0.4538		17.6	20.0	-12.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49181/2 Calibration Date: 09/19/2009 01:38

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45161.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9248		19.0	20.0	-5.2	30.0
Naphthalene	Ave	1.288	1.169		18.1	20.0	-9.3	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6940		19.2	20.0	-3.8	30.0
Dibromofluoromethane	Ave	0.2328	0.2258		19.4	20.0	-3.0	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9082		20.5	20.0	2.2	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5386		18.8	20.0	-6.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49268/3 Calibration Date: 09/21/2009 17:15

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45186.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4836		20.0	20.0	0.2	30.0
Chloromethane	Ave	0.9034	0.8380	0.1000	19.9	20.0	-7.2	30.0
Vinyl chloride	Ave	0.6300	0.5808		19.7	20.0	-7.8	20.0
Bromomethane	Ave	0.3127	0.3017		20.2	20.0	-3.5	30.0
Chloroethane	Lin2		0.3251		20.1	20.0	0.5	30.0
Trichlorofluoromethane	Ave	0.5183	0.4987		19.2	20.0	-3.8	30.0
Ethyl ether	Ave	0.2603	0.1995		16.3	20.0	-23.4	30.0
1,1-Dichloroethene	Ave	0.3201	0.2990		19.5	20.0	-6.6	20.0
Carbon disulfide	Ave	1.395	1.199		17.2	20.0	-14.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1660		17.9	20.0	-10.7	30.0
Acrolein	Ave	0.7836	0.7026		897	1000	-10.3	30.0
Methylene Chloride	Lin1		0.3308		18.9	20.0	-5.6	30.0
Acetone	Lin2		0.0506		193	200	-3.4	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6220		17.6	20.0	-11.9	30.0
Methyl acetate	Lin1		0.1269		174	200	-12.8	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5481		15.7	20.0	-21.6	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3123		163	200	-18.5	30.0
Isopropyl ether	Ave	1.997	1.684		16.9	20.0	-15.7	30.0
1,1-Dichloroethane	Ave	0.7919	0.6935	0.1000	18.7	20.0	-12.4	30.0
Acrylonitrile	Lin1		0.0559		17.1	20.0	-14.6	30.0
Tert-butyl ethyl ether	Ave	1.194	0.9829		16.5	20.0	-17.7	30.0
Vinyl acetate	Ave	0.5745	0.5114		178	200	-11.0	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5461		17.8	20.0	-11.2	30.0
2,2-Dichloropropane	Ave	0.5371	0.4829		20.7	20.0	-10.1	30.0
Cyclohexane	Ave	0.8898	0.8085		18.3	20.0	-9.1	30.0
Chlorobromomethane	Ave	0.1386	0.1176		17.0	20.0	-15.2	30.0
Chloroform	Ave	0.6243	0.5445		18.6	20.0	-12.8	20.0
Carbon tetrachloride	Ave	0.3645	0.3363		18.4	20.0	-7.7	30.0
Tetrahydrofuran	Ave	0.0762	0.0625		179	200	-17.9	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4708		18.0	20.0	-9.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0766		169	200	-20.3	30.0
1,1-Dichloropropene	Ave	0.4990	0.4672		18.7	20.0	-6.4	30.0
Benzene	Ave	1.352	1.260		18.6	20.0	-6.8	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6313		16.6	20.0	-17.2	30.0
1,2-Dichloroethane	Ave	0.3253	0.2834		17.4	20.0	-12.9	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3315		19.4	20.0	-12.9	30.0
Methylcyclohexane	Ave	0.6300	0.5997		19.1	20.0	-4.8	30.0
Trichloroethene	Ave	0.3155	0.3014		19.9	20.0	-4.5	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1768		18.9	20.0	-5.6	30.0
Dibromomethane	Ave	0.1188	0.1038		17.4	20.0	-12.6	30.0

TC
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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49268/3 Calibration Date: 09/21/2009 17:15

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45186.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2821		20.0	20.0	-11.3	20.0
Dichlorobromomethane	Ave	0.3427	0.3058		17.7	20.0	-10.8	30.0
Methyl methacrylate	Ave	0.0864	0.0738		16.7	20.0	-14.6	30.0
1,4-Dioxane	Qua		0.0221		205	200	2.7	30.0
2-Chloroethyl vinyl ether	Lin		0.0495		262	200	31.0*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3625		18.2	20.0	-8.8	30.0
Toluene	Ave	0.7062	0.6844		19.9	20.0	-3.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1735		170	200	-15.3	30.0
Tetrachloroethene	Ave	0.1859	0.1909		20.5	20.0	2.7	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2567		17.7	20.0	-11.9	30.0
1,1,2-Trichloroethane	Lin1		0.1091		17.5	20.0	-12.5	30.0
Chlorodibromomethane	Ave	0.1504	0.1313		17.5	20.0	-12.7	30.0
1,3-Dichloropropane	Ave	0.2828	0.2466		17.4	20.0	-12.8	30.0
Ethylene Dibromide	Ave	0.1260	0.1132		17.9	20.0	-10.1	30.0
2-Hexanone	Ave	0.1294	0.1045		164	200	-19.2	30.0
Chlorobenzene	Ave	1.096	1.033	0.3000	19.0	20.0	-5.7	30.0
Ethylbenzene	Ave	2.279	2.152		20.2	20.0	-5.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3069		18.5	20.0	-11.7	30.0
m-Xylene & p-Xylene	Ave	1.752	1.642		37.5	40.0	-6.3	30.0
o-Xylene	Ave	1.903	1.735		18.3	20.0	-8.8	30.0
Styrene	Ave	1.294	1.143		17.7	20.0	-11.6	30.0
Bromoform	Ave	0.3131	0.2787	0.1000	16.9	20.0	-11.0	20.0
Isopropylbenzene	Ave	2.255	2.180		19.4	20.0	-3.3	30.0
Bromobenzene	Ave	1.024	0.8425		16.5	20.0	-17.7	30.0
N-Propylbenzene	Ave	2.901	2.718		18.7	20.0	-6.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5661	0.3000	16.4	20.0	-17.3	30.0
2-Chlorotoluene	Ave	1.927	1.716		17.9	20.0	-11.0	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.728		18.7	20.0	-6.7	30.0
1,2,3-Trichloropropane	Lin2		0.0518		16.6	20.0	-16.8	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0847		15.9	20.0	-20.6	30.0
4-Chlorotoluene	Ave	1.683	1.486		17.6	20.0	-11.7	30.0
tert-Butylbenzene	Ave	1.471	1.412		19.2	20.0	-4.0	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.704		18.1	20.0	-9.1	30.0
sec-Butylbenzene	Ave	2.518	2.419		19.2	20.0	-3.9	30.0
4-Isopropyltoluene	Ave	1.894	1.794		18.9	20.0	-5.3	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7236		17.2	20.0	-14.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.612		18.1	20.0	-9.8	30.0
n-Butylbenzene	Ave	4.614	4.670		20.2	20.0	1.2	30.0
1,2-Dichlorobenzene	Ave	1.492	1.352		18.1	20.0	-9.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0630		16.4	20.0	-18.2	30.0
Hexachlorobutadiene	Ave	0.5170	0.5209		20.2	20.0	0.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49268/3 Calibration Date: 09/21/2009 17:15

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45186.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9060		18.6	20.0	-7.1	30.0
Naphthalene	Ave	1.288	1.085		16.9	20.0	-15.7	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6836		19.0	20.0	-5.2	30.0
Dibromofluoromethane	Ave	0.2328	0.2251		19.3	20.0	-3.3	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9149		20.6	20.0	3.0	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5250		18.3	20.0	-8.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4254		17.6	20.0	-11.9	30.0
Chloromethane	Ave	0.9034	0.8234	0.1000	19.6	20.0	-8.9	30.0
Vinyl chloride	Ave	0.6300	0.5519		18.6	20.0	-12.4	20.0
Bromomethane	Ave	0.3127	0.3000		20.1	20.0	-4.1	30.0
Chloroethane	Lin2		0.3122		19.2	20.0	-3.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4501		17.4	20.0	-13.2	30.0
Ethyl ether	Ave	0.2603	0.1946		15.9	20.0	-25.2	30.0
1,1-Dichloroethene	Ave	0.3201	0.3050		19.9	20.0	-4.7	20.0
Carbon disulfide	Ave	1.395	1.226		17.6	20.0	-12.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1568		16.9	20.0	-15.6	30.0
Acrolein	Ave	0.7836	0.6751		861	1000	-13.9	30.0
Methylene Chloride	Lin1		0.3360		19.2	20.0	-4.1	30.0
Acetone	Lin2		0.0555		212	200	6.2	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6487		18.4	20.0	-8.1	30.0
Methyl acetate	Lin1		0.1443		198	200	-0.9	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5166		14.8	20.0	-26.1	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2947		154	200	-23.1	30.0
Isopropyl ether	Ave	1.997	1.687		17.0	20.0	-15.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7239	0.1000	19.5	20.0	-8.6	30.0
Acrylonitrile	Lin1		0.0539		16.5	20.0	-17.7	30.0
Tert-butyl ethyl ether	Ave	1.194	0.9518		15.9	20.0	-20.3	30.0
Vinyl acetate	Ave	0.5745	0.3965		138	200	-31.0*	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5663		18.4	20.0	-7.9	30.0
2,2-Dichloropropane	Ave	0.5371	0.5032		21.6	20.0	-6.3	30.0
Cyclohexane	Ave	0.8898	0.7411		16.8	20.0	-16.7	30.0
Chlorobromomethane	Ave	0.1386	0.1172		16.9	20.0	-15.5	30.0
Chloroform	Ave	0.6243	0.5506		18.9	20.0	-11.8	20.0
Carbon tetrachloride	Ave	0.3645	0.3510		19.2	20.0	-3.7	30.0
Tetrahydrofuran	Ave	0.0762	0.0576		165	200	-24.3	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4861		18.6	20.0	-6.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0781		172	200	-18.7	30.0
1,1-Dichloropropene	Ave	0.4990	0.4819		19.3	20.0	-3.4	30.0
Benzene	Ave	1.352	1.340		19.8	20.0	-0.8	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6073		15.9	20.0	-20.3	30.0
1,2-Dichloroethane	Ave	0.3253	0.2833		17.4	20.0	-12.9	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3148		18.3	20.0	-17.3	30.0
Methylcyclohexane	Ave	0.6300	0.5441		17.3	20.0	-13.6	30.0
Trichloroethene	Ave	0.3155	0.3225		21.3	20.0	2.2	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1675		17.9	20.0	-10.5	30.0
Dibromomethane	Ave	0.1188	0.1024		17.2	20.0	-13.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2950		21.0	20.0	-7.3	20.0
Dichlorobromomethane	Ave	0.3427	0.3093		17.9	20.0	-9.8	30.0
Methyl methacrylate	Ave	0.0864	0.0718		16.3	20.0	-16.9	30.0
1,4-Dioxane	Qua		0.0229		213	200	6.7	30.0
2-Chloroethyl vinyl ether	Lin		0.0586		307	200	53.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3755		18.9	20.0	-5.5	30.0
Toluene	Ave	0.7062	0.7400		21.6	20.0	4.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1609		158	200	-21.4	30.0
Tetrachloroethene	Ave	0.1859	0.2025		21.7	20.0	9.0	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2587		17.8	20.0	-11.2	30.0
1,1,2-Trichloroethane	Lin1		0.1109		17.8	20.0	-11.1	30.0
Chlorodibromomethane	Ave	0.1504	0.1274		16.9	20.0	-15.3	30.0
1,3-Dichloropropane	Ave	0.2828	0.2464		17.4	20.0	-12.9	30.0
Ethylene Dibromide	Ave	0.1260	0.1116		17.7	20.0	-11.4	30.0
2-Hexanone	Ave	0.1294	0.1055		166	200	-18.5	30.0
Chlorobenzene	Ave	1.096	1.096	0.3000	20.1	20.0	0.0	30.0
Ethylbenzene	Ave	2.279	2.297		21.6	20.0	0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3080		18.6	20.0	-11.4	30.0
m-Xylene & p-Xylene	Ave	1.752	1.757		40.2	40.0	0.3	30.0
o-Xylene	Ave	1.903	1.830		19.3	20.0	-3.8	30.0
Styrene	Ave	1.294	1.206		18.7	20.0	-6.8	30.0
Bromoform	Ave	0.3131	0.2757	0.1000	16.8	20.0	-11.9	20.0
Isopropylbenzene	Ave	2.255	2.296		20.4	20.0	1.8	30.0
Bromobenzene	Ave	1.024	0.8609		16.9	20.0	-15.9	30.0
N-Propylbenzene	Ave	2.901	2.844		19.6	20.0	-2.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5660	0.3000	16.4	20.0	-17.3	30.0
2-Chlorotoluene	Ave	1.927	1.788		18.6	20.0	-7.3	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.806		19.5	20.0	-2.4	30.0
1,2,3-Trichloropropane	Lin2		0.0512		16.4	20.0	-17.8	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0808		15.1	20.0	-24.4	30.0
4-Chlorotoluene	Ave	1.683	1.545		18.3	20.0	-8.2	30.0
tert-Butylbenzene	Ave	1.471	1.481		20.1	20.0	0.7	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.754		18.6	20.0	-6.4	30.0
sec-Butylbenzene	Ave	2.518	2.514		20.0	20.0	-0.2	30.0
4-Isopropyltoluene	Ave	1.894	1.852		19.5	20.0	-2.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7236		17.2	20.0	-14.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.733		19.5	20.0	-3.1	30.0
n-Butylbenzene	Ave	4.614	5.106		22.1	20.0	10.7	30.0
1,2-Dichlorobenzene	Ave	1.492	1.416		19.0	20.0	-5.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0608		15.8	20.0	-21.0	30.0
Hexachlorobutadiene	Ave	0.5170	0.5544		21.4	20.0	7.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9317		19.1	20.0	-4.5	30.0
Naphthalene	Ave	1.288	1.051		16.3	20.0	-18.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6737		18.7	20.0	-6.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2133		18.3	20.0	-8.4	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9281		20.9	20.0	4.5	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5130		17.9	20.0	-10.5	30.0

TC
4-11-10

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49369/3 Calibration Date: 09/23/2009 16:23

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45271.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4035		16.7	20.0	-16.4	30.0
Chloromethane	Ave	0.9034	0.7908	0.1000	18.8	20.0	-12.5	30.0
Vinyl chloride	Ave	0.6300	0.5246		17.7	20.0	-16.7	20.0
Bromomethane	Ave	0.3127	0.2925		19.6	20.0	-6.5	30.0
Chloroethane	Lin2		0.2971		18.2	20.0	-8.9	30.0
Trichlorofluoromethane	Ave	0.5183	0.4138		16.0	20.0	-20.2	30.0
Ethyl ether	Ave	0.2603	0.2184		17.9	20.0	-16.1	30.0
1,1-Dichloroethene	Ave	0.3201	0.2965		19.3	20.0	-7.3	20.0
Carbon disulfide	Ave	1.395	1.188		17.1	20.0	-14.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1527		16.4	20.0	-17.8	30.0
Acrolein	Ave	0.7836	0.7104		907	1000	-9.3	30.0
Methylene Chloride	Lin1		0.3556		20.4	20.0	1.9	30.0
Acetone	Lin2		0.0561		215	200	7.3	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6306		17.9	20.0	-10.7	30.0
Methyl acetate	Lin1		0.1381		190	200	-5.1	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5891		16.9	20.0	-15.7	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3249		169	200	-15.3	30.0
Isopropyl ether	Ave	1.997	1.767		17.8	20.0	-11.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7135	0.1000	19.2	20.0	-9.9	30.0
Acrylonitrile	Lin1		0.0613		18.8	20.0	-5.9	30.0
Tert-butyl ethyl ether	Ave	1.194	1.045		17.5	20.0	-12.5	30.0
Vinyl acetate	Ave	0.5745	0.5437		189	200	-5.4	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5627		18.3	20.0	-8.5	30.0
2,2-Dichloropropane	Ave	0.5371	0.4876		20.9	20.0	-9.2	30.0
Chlorobromomethane	Ave	0.1386	0.1285		18.5	20.0	-7.3	30.0
Cyclohexane	Ave	0.8898	0.7296		16.5	20.0	-18.0	30.0
Chloroform	Ave	0.6243	0.5690		19.5	20.0	-8.8	20.0
Carbon tetrachloride	Ave	0.3645	0.3469		19.0	20.0	-4.8	30.0
Tetrahydrofuran	Ave	0.0762	0.0667		191	200	-12.4	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4786		18.3	20.0	-7.4	30.0
2-Butanone (MEK)	Ave	0.0960	0.0859		190	200	-10.5	30.0
1,1-Dichloropropene	Ave	0.4990	0.4697		18.8	20.0	-5.9	30.0
Benzene	Ave	1.352	1.309		19.4	20.0	-3.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6814		17.9	20.0	-10.6	30.0
1,2-Dichloroethane	Ave	0.3253	0.2968		18.2	20.0	-8.8	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.2920		16.9	20.0	-23.3	30.0
Methylcyclohexane	Ave	0.6300	0.5367		17.1	20.0	-14.8	30.0
Trichloroethene	Ave	0.3155	0.3083		20.3	20.0	-2.3	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1600		17.1	20.0	-14.5	30.0
Dibromomethane	Ave	0.1188	0.1139		19.1	20.0	-4.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49369/3 Calibration Date: 09/23/2009 16:23

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45271.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2892		20.5	20.0	-9.1	20.0
Dichlorobromomethane	Ave	0.3427	0.3211		18.6	20.0	-6.3	30.0
Methyl methacrylate	Ave	0.0864	0.0805		18.2	20.0	-6.8	30.0
1,4-Dioxane	Qua		0.0242		226	200	12.9	30.0
2-Chloroethyl vinyl ether	Lin		0.0630		328	200	64.2*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3795		19.1	20.0	-4.5	30.0
Toluene	Ave	0.7062	0.7117		20.7	20.0	0.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1834		180	200	-10.5	30.0
Tetrachloroethene	Ave	0.1859	0.1970		21.2	20.0	6.0	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2722		18.7	20.0	-6.6	30.0
1,1,2-Trichloroethane	Lin1		0.1179		18.9	20.0	-5.6	30.0
Chlorodibromomethane	Ave	0.1504	0.1402		18.6	20.0	-6.8	30.0
1,3-Dichloropropane	Ave	0.2828	0.2619		18.5	20.0	-7.4	30.0
Ethylene Dibromide	Ave	0.1260	0.1205		19.1	20.0	-4.3	30.0
2-Hexanone	Ave	0.1294	0.1123		177	200	-13.2	30.0
Chlorobenzene	Ave	1.096	1.057	0.3000	19.4	20.0	-3.5	30.0
Ethylbenzene	Ave	2.279	2.156		20.2	20.0	-5.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3130		18.9	20.0	-9.9	30.0
m-Xylene & p-Xylene	Ave	1.752	1.644		37.6	40.0	-6.2	30.0
o-Xylene	Ave	1.903	1.744		18.4	20.0	-8.4	30.0
Styrene	Ave	1.294	1.169		18.1	20.0	-9.6	30.0
Bromoform	Ave	0.3131	0.2858	0.1000	17.3	20.0	-8.7	20.0
Isopropylbenzene	Ave	2.255	2.169		19.3	20.0	-3.8	30.0
Bromobenzene	Ave	1.024	0.8491		16.7	20.0	-17.1	30.0
N-Propylbenzene	Ave	2.901	2.672		18.4	20.0	-7.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5832	0.3000	16.9	20.0	-14.8	30.0
2-Chlorotoluene	Ave	1.927	1.721		17.9	20.0	-10.7	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.730		18.7	20.0	-6.5	30.0
1,2,3-Trichloropropane	Lin2		0.0535		17.2	20.0	-14.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0846		15.9	20.0	-20.7	30.0
4-Chlorotoluene	Ave	1.683	1.491		17.6	20.0	-11.4	30.0
tert-Butylbenzene	Ave	1.471	1.399		19.0	20.0	-4.9	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.713		18.2	20.0	-8.6	30.0
sec-Butylbenzene	Ave	2.518	2.372		18.9	20.0	-5.8	30.0
4-Isopropyltoluene	Ave	1.894	1.786		18.8	20.0	-5.7	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7318		17.4	20.0	-13.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.651		18.5	20.0	-7.7	30.0
n-Butylbenzene	Ave	4.614	4.502		19.5	20.0	-2.4	30.0
1,2-Dichlorobenzene	Ave	1.492	1.391		18.7	20.0	-6.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0692		18.0	20.0	-10.1	30.0
Hexachlorobutadiene	Ave	0.5170	0.5060		19.6	20.0	-2.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24665-1

SDG No.: OCRI-17

Lab Sample ID: CCVIS 360-49369/3 Calibration Date: 09/23/2009 16:23

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45271.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9379		19.2	20.0	-3.8	30.0
Naphthalene	Ave	1.288	1.147		17.8	20.0	-11.0	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6949		19.3	20.0	-3.7	30.0
Dibromofluoromethane	Ave	0.2328	0.2258		19.4	20.0	-3.0	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9339		21.0	20.0	5.1	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5242		18.3	20.0	-8.5	30.0

OCRI-18

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE
Criteria and Qualifications: REGION I Organics Guideline (1996)

TIER I / (II) / III (circle one)

SITE: Olin Chemical Project #: 6107100016-12 SDG #: 360-24086-1

LAB #: TEST AMERICA-WESTFIELD

Sample IDs: Attach tracking sheet and/or sample listing.

This checklist is designed to be used with USEPA Region I Validation Guidelines Part II (12/1996). During Level III validation, calculation and transcription checks are completed for instrument tuning, surrogates, target compounds, spike recoveries, calibration data, and internal standards as specified in the guideline. These checks are documented on attached validation notes.

YES NO NA	
Data completeness ☑ ☐ ☐ All data summaries, QC forms and raw data available from hard copy or electronic data package ☑ ☐ ☐ Data summaries match EDD	Contact lab if missing data. Lab to respond with 24 hours.
Holding Times and Preservation ☑ ☐ ☐ Hold times met (14 days with preservation) ☑ ☐ ☐ Preserved (waters HCL, soils methanol)	
Instrument Performance Check (Tune) ☑ ☐ ☐ Tune available for each 12-hour period samples were analyzed ☑ ☐ ☐ Appropriate number of significant figures reported (at least 2) ☑ ☐ ☐ Mass/Charge list (m/z) criteria met	
Initial Calibration ☑ ☐ ☐ %RSD less than or equal to 30% ☐ ☑ ☐ RRF greater than or equal to 0.05 *	→ 9/08/09 I-Cal see attached Form VI
Continuing Calibration ☐ ☑ ☐ %D less than or equal to 25% ☑ ☐ ☐ RRF greater than or equal to 0.05.	→ See attached Form V ; Form VII
Blank Contamination ☑ ☐ ☐ Method blank contamination ☐ ☑ ☐ Trip blank contamination clean ☐ ☑ ☐ Equipment/Rinseate blank contamination	Evaluate all blanks for contamination. Highest contaminant level used for action level. → See attached

VOLATILE ORGANICS

REGION I VALIDATION CHECKLIST for OLIN CHEMICAL SUPERFUND SITE

Criteria and Qualifications: REGION I Organics Guideline (1996)

Yes	No	N/A	TIER I / II / III (circle one)	
			Surrogate Recoveries	
☑	☐	☐	Surrogates percent recovery criteria met (water and soil: 70%-130%)	
			Matrix Spikes and Laboratory Control Samples	
☐	☐	☑	MS/MSD percent recovery criteria met (water and soil: 70%-130%)	
☐	☐	☑	MS/MSD RPD criteria met (water and soil <30%)	
☐	☑	☐	LCS percent recovery criteria (water and soil: 70%-130%) → See Attached	
			Field Duplicates	
☐	☐	☑	RPD criteria (water <30%, soils <50%) met Not in this SDG	
			Internal Standard	
☑	☐	☐	Area counts within -50 to +100 percent of calib. std.	
☑	☐	☐	Retention Time within 30 seconds of calib. std.	
			Target Compounds	
☑	☐	☐	Reviewed narrative for anomalies	
			Tentatively Identified Compounds (TICs)	
☑	☐	☐	TCL compounds reported as TICs	

Validator's Signature: Jig Lee

Date: 4-11-10

Reference:

MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington Property, 51 Eames Street, Wilmington, MA", MACTEC Engineering and Consulting. Draft .October 2008.

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: OC-SB-435-0.0/1.0-XXX

Lab Sample ID: 360-24686-2
Client Matrix: Solid % Moisture: 82.4

Date Sampled: 09/17/2009 1445
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 2022
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366

Instrument ID: HP #1 GC/MS
Lab File ID: V45281.D
Initial Weight/Volume: 3.61 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		7.9	20
1,1,1-Trichloroethane		ND		7.9	20
1,1,2,2-Tetrachloroethane		ND		7.9	20
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		7.9	99
1,1,2-Trichloroethane		ND		7.9	20
1,1-Dichloroethane		ND		7.9	20
1,1-Dichloroethene		ND		7.9	20
1,1-Dichloropropene		ND		7.9	20
1,2,3-Trichlorobenzene		ND		7.9	20
1,2,3-Trichloropropane		ND		12	20
1,2,4-Trichlorobenzene		ND		7.9	20
1,2,4-Trimethylbenzene		ND		7.9	20
1,2-Dibromo-3-Chloropropane		ND		14	200
Ethylene Dibromide		ND		7.9	20
1,2-Dichlorobenzene		ND		7.9	20
1,2-Dichloroethane		ND		7.9	20
Acetone		ND	J	140	2000
1,2-Dichloropropane		ND		7.9	20
1,3,5-Trimethylbenzene		ND		7.9	20
1,3-Dichlorobenzene		ND		7.9	20
1,3-Dichloropropane		ND		7.9	20
1,4-Dichlorobenzene		ND		7.9	20
1,4-Dioxane		ND	J	260	2000
2,2-Dichloropropane		ND		7.9	20
2,4,4-Trimethyl-1-pentene		ND		7.9	39
2,4,4-Trimethyl-2-pentene		ND		7.9	39
2-Chlorotoluene		ND		7.9	20
2-Hexanone		ND		41	200
4-Chlorotoluene		ND		7.9	20
Benzene		ND		7.9	20
Bromobenzene		ND		7.9	20
Chlorobromomethane		ND		7.9	20
Dichlorobromomethane		ND		7.9	20
Bromoform		ND		7.9	20
Bromomethane		ND		7.9	39
n-Butylbenzene		ND		7.9	20
Carbon disulfide		ND		7.9	20
Carbon tetrachloride		ND		7.9	20
Chlorobenzene		ND		7.9	20
Chloroethane		ND		7.9	39
Chloroform		ND		7.9	20
Chloromethane		ND		7.9	39
cis-1,2-Dichloroethene		ND		7.9	20
cis-1,3-Dichloropropene		ND		7.9	20
Cyclohexane		ND		20	200
Chlorodibromomethane		ND		7.9	20

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-435-0.0/1.0-XXX**

Lab Sample ID: 360-24686-2
Client Matrix: Solid % Moisture: 82.4

Date Sampled: 09/17/2009 1445
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 2022
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366

Instrument ID: HP #1 GC/MS
Lab File ID: V45281.D
Initial Weight/Volume: 3.61 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		7.9	20
Dichlorodifluoromethane		ND	J	7.9	39
Ethyl ether		ND	~~J~~ (TC)	7.9	20
Isopropyl ether		ND		7.9	20
Tert-butyl ethyl ether		ND		20	20
Ethylbenzene		ND		7.9	20
Hexachlorobutadiene		ND		7.9	20
Isopropylbenzene		ND		7.9	20
Methyl acetate		ND		130	390
2-Butanone (MEK)		ND		53	200
4-Methyl-2-pentanone (MIBK)		ND		41	200
Methyl tert-butyl ether		ND	~~J~~ (TC)	7.9	20
Methylcyclohexane		ND		7.9	20
Methylene Chloride		ND		38	79
m-Xylene & p-Xylene		ND		7.9	39
Naphthalene		ND		7.9	200
N-Propylbenzene		ND		7.9	20
o-Xylene		ND		7.9	20
4-Isopropyltoluene		ND		7.9	20
sec-Butylbenzene		ND		7.9	20
Styrene		ND		7.9	20
Tert-amyl methyl ether		ND		7.9	20
tert-Butylbenzene		ND		7.9	20
Tetrachloroethene		ND		7.9	20
Tetrahydrofuran		ND		43	200
Toluene		ND		7.9	20
trans-1,2-Dichloroethene		ND		7.9	20
trans-1,3-Dichloropropene		ND		7.9	20
Trichloroethene		ND		7.9	20
Trichlorofluoromethane		ND		7.9	39
Vinyl chloride		ND		7.9	20

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	104		70 - 130

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-435-0.0/1.0-XXX**

Lab Sample ID: 360-24686-2
Client Matrix: Solid

% Moisture: 82.4

Date Sampled: 09/17/2009 1445
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45281.D
Dilution:	1.0			Initial Weight/Volume:	3.61 g
Date Analyzed:	09/23/2009 2022			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	12.80	19	T J

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TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-435-11/15-XXX**

Lab Sample ID: 360-24686-3
Client Matrix: Solid % Moisture: 8.5

Date Sampled: 09/17/2009 1400
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 2046
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366

Instrument ID: HP #1 GC/MS
Lab File ID: V45282.D
Initial Weight/Volume: 5.86 g
Final Weight/Volume: 5 g

Analyte (DryWt Corrected: Y)	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.93	2.3
1,1,1-Trichloroethane	ND		0.93	2.3
1,1,2,2-Tetrachloroethane	ND		0.93	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.93	12
1,1,2-Trichloroethane	ND		0.93	2.3
1,1-Dichloroethane	ND		0.93	2.3
1,1-Dichloroethene	ND		0.93	2.3
1,1-Dichloropropene	ND		0.93	2.3
1,2,3-Trichlorobenzene	ND		0.93	2.3
1,2,3-Trichloropropane	ND		1.4	2.3
1,2,4-Trichlorobenzene	ND		0.93	2.3
1,2,4-Trimethylbenzene	ND		0.93	2.3
1,2-Dibromo-3-Chloropropane	ND		1.7	23
Ethylene Dibromide	ND		0.93	2.3
1,2-Dichlorobenzene	ND		0.93	2.3
1,2-Dichloroethane	ND		0.93	2.3
Acetone	ND	J	17	230
1,2-Dichloropropane	ND		0.93	2.3
1,3,5-Trimethylbenzene	ND		0.93	2.3
1,3-Dichlorobenzene	ND		0.93	2.3
1,3-Dichloropropane	ND		0.93	2.3
1,4-Dichlorobenzene	ND		0.93	2.3
1,4-Dioxane	ND	J	31	230
2,2-Dichloropropane	ND		0.93	2.3
2,4,4-Trimethyl-1-pentene	ND		0.93	4.7
2,4,4-Trimethyl-2-pentene	ND		0.93	4.7
2-Chlorotoluene	ND		0.93	2.3
2-Hexanone	ND		4.8	23
4-Chlorotoluene	ND		0.93	2.3
Benzene	ND		0.93	2.3
Bromobenzene	ND		0.93	2.3
Chlorobromomethane	ND		0.93	2.3
Dichlorobromomethane	ND		0.93	2.3
Bromoform	ND		0.93	2.3
Bromomethane	ND		0.93	4.7
n-Butylbenzene	ND		0.93	2.3
Carbon disulfide	ND		0.93	2.3
Carbon tetrachloride	ND		0.93	2.3
Chlorobenzene	ND		0.93	2.3
Chloroethane	ND		0.93	4.7
Chloroform	ND		0.93	2.3
Chloromethane	ND		0.93	4.7
cis-1,2-Dichloroethene	ND		0.93	2.3
cis-1,3-Dichloropropene	ND		0.93	2.3
Cyclohexane	ND		2.4	23
Chlorodibromomethane	ND		0.93	2.3

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TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-435-11/15-XXX**

Lab Sample ID: 360-24686-3
Client Matrix: Solid

% Moisture: 8.5

Date Sampled: 09/17/2009 1400
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 2046
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366

Instrument ID: HP #1 GC/MS
Lab File ID: V45282.D
Initial Weight/Volume: 5.86 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.93	2.3
Dichlorodifluoromethane		ND J		0.93	4.7
Ethyl ether		ND		0.93	2.3
Isopropyl ether		ND		0.93	2.3
Tert-butyl ethyl ether		ND		2.3	2.3
Ethylbenzene		ND		0.93	2.3
Hexachlorobutadiene		ND		0.93	2.3
Isopropylbenzene		ND		0.93	2.3
Methyl acetate		ND		15	47
2-Butanone (MEK)		ND		6.3	23
4-Methyl-2-pentanone (MIBK)		ND		4.8	23
Methyl tert-butyl ether		ND		0.93	2.3
Methylcyclohexane		ND		0.93	2.3
Methylene Chloride		ND		4.5	9.3
m-Xylene & p-Xylene		ND		0.93	4.7
Naphthalene		ND		0.93	23
N-Propylbenzene		ND		0.93	2.3
o-Xylene		ND		0.93	2.3
4-Isopropyltoluene		ND		0.93	2.3
sec-Butylbenzene		ND		0.93	2.3
Styrene		ND		0.93	2.3
Tert-amyl methyl ether		ND		0.93	2.3
tert-Butylbenzene		ND		0.93	2.3
Tetrachloroethene		ND		0.93	2.3
Tetrahydrofuran		ND		5.1	23
Toluene		ND		0.93	2.3
trans-1,2-Dichloroethene		ND		0.93	2.3
trans-1,3-Dichloropropene		ND		0.93	2.3
Trichloroethene		ND		0.93	2.3
Trichlorofluoromethane		ND		0.93	4.7
Vinyl chloride		ND		0.93	2.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	104		70 - 130

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TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-435-11/15-XXX**

Lab Sample ID: 360-24686-3
Client Matrix: Solid

% Moisture: 8.5

Date Sampled: 09/17/2009 1400
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45282.D
Dilution:	1.0			Initial Weight/Volume:	5.86 g
Date Analyzed:	09/23/2009 2046			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-435-6.0/10-XXX**

Lab Sample ID: 360-24686-4
Client Matrix: Solid % Moisture: 13.1

Date Sampled: 09/17/2009 1335
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45283.D
Dilution:	1.0			Initial Weight/Volume:	6.70 g
Date Analyzed:	09/23/2009 2110			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.86	2.1
1,1,1-Trichloroethane		ND		0.86	2.1
1,1,2,2-Tetrachloroethane		ND		0.86	2.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.86	11
1,1,2-Trichloroethane		ND		0.86	2.1
1,1-Dichloroethane		ND		0.86	2.1
1,1-Dichloroethene		ND		0.86	2.1
1,1-Dichloropropene		ND		0.86	2.1
1,2,3-Trichlorobenzene		ND		0.86	2.1
1,2,3-Trichloropropane		ND		1.3	2.1
1,2,4-Trichlorobenzene		ND		0.86	2.1
1,2,4-Trimethylbenzene		ND		0.86	2.1
1,2-Dibromo-3-Chloropropane		ND		1.5	21
Ethylene Dibromide		ND		0.86	2.1
1,2-Dichlorobenzene		ND		0.86	2.1
1,2-Dichloroethane		ND		0.86	2.1
Acetone		ND J		15	210
1,2-Dichloropropane		ND		0.86	2.1
1,3,5-Trimethylbenzene		ND		0.86	2.1
1,3-Dichlorobenzene		ND		0.86	2.1
1,3-Dichloropropane		ND		0.86	2.1
1,4-Dichlorobenzene		ND		0.86	2.1
1,4-Dioxane		ND J		28	210
2,2-Dichloropropane		ND		0.86	2.1
2,4,4-Trimethyl-1-pentene		ND		0.86	4.3
2,4,4-Trimethyl-2-pentene		ND		0.86	4.3
2-Chlorotoluene		ND		0.86	2.1
2-Hexanone		ND		4.4	21
4-Chlorotoluene		ND		0.86	2.1
Benzene		ND		0.86	2.1
Bromobenzene		ND		0.86	2.1
Chlorobromomethane		ND		0.86	2.1
Dichlorobromomethane		ND		0.86	2.1
Bromoform		ND		0.86	2.1
Bromomethane		ND		0.86	4.3
n-Butylbenzene		ND		0.86	2.1
Carbon disulfide		ND		0.86	2.1
Carbon tetrachloride		ND		0.86	2.1
Chlorobenzene		ND		0.86	2.1
Chloroethane		ND		0.86	4.3
Chloroform		ND		0.86	2.1
Chloromethane		ND		0.86	4.3
cis-1,2-Dichloroethene		ND		0.86	2.1
cis-1,3-Dichloropropene		ND		0.86	2.1
Cyclohexane		ND		2.2	21
Chlorodibromomethane		ND		0.86	2.1

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TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-435-6.0/10-XXX**

Lab Sample ID: 360-24686-4
Client Matrix: Solid

% Moisture: 13.1

Date Sampled: 09/17/2009 1335
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 2110
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366

Instrument ID: HP #1 GC/MS
Lab File ID: V45283.D
Initial Weight/Volume: 6.70 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.86	2.1
Dichlorodifluoromethane		ND		0.86	4.3
Ethyl ether		ND		0.86	2.1
Isopropyl ether		ND		0.86	2.1
Tert-butyl ethyl ether		ND		2.1	2.1
Ethylbenzene		ND		0.86	2.1
Hexachlorobutadiene		ND		0.86	2.1
Isopropylbenzene		ND		0.86	2.1
Methyl acetate		ND		14	43
2-Butanone (MEK)		ND		5.8	21
4-Methyl-2-pentanone (MIBK)		ND		4.4	21
Methyl tert-butyl ether		ND		0.86	2.1
Methylcyclohexane		ND		0.86	2.1
Methylene Chloride		ND		4.2	8.6
m-Xylene & p-Xylene		ND		0.86	4.3
Naphthalene		ND		0.86	21
N-Propylbenzene		ND		0.86	2.1
o-Xylene		ND		0.86	2.1
4-Isopropyltoluene		ND		0.86	2.1
sec-Butylbenzene		ND		0.86	2.1
Styrene		ND		0.86	2.1
Tert-amyl methyl ether		ND		0.86	2.1
tert-Butylbenzene		ND		0.86	2.1
Tetrachloroethene		ND		0.86	2.1
Tetrahydrofuran		ND		4.7	21
Toluene		ND		0.86	2.1
trans-1,2-Dichloroethene		ND		0.86	2.1
trans-1,3-Dichloropropene		ND		0.86	2.1
Trichloroethene		ND		0.86	2.1
Trichlorofluoromethane		ND		0.86	4.3
Vinyl chloride		ND		0.86	2.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	103		70 - 130

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-435-6.0/10-XXX**

Lab Sample ID: 360-24686-4
Client Matrix: Solid

% Moisture: 13.1

Date Sampled: 09/17/2009 1335
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45283.D
Dilution:	1.0			Initial Weight/Volume:	6.70 g
Date Analyzed:	09/23/2009 2110			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	10.37	1.4	T J

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TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: OC-SB-453-0.0/1.0-XXX

Lab Sample ID: 360-24686-5
Client Matrix: Solid

% Moisture: 81.3

Date Sampled: 09/17/2009 1625
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/22/2009 2333
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322

Instrument ID: HP #1 GC/MS
Lab File ID: V45251.D
Initial Weight/Volume: 3.52 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		7.6	19
1,1,1-Trichloroethane		ND		7.6	19
1,1,2,2-Tetrachloroethane		ND		7.6	19
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		7.6	95
1,1,2-Trichloroethane		ND		7.6	19
1,1-Dichloroethane		ND		7.6	19
1,1-Dichloroethene		ND		7.6	19
1,1-Dichloropropene		ND		7.6	19
1,2,3-Trichlorobenzene		ND		7.6	19
1,2,3-Trichloropropane		ND		11	19
1,2,4-Trichlorobenzene		ND		7.6	19
1,2,4-Trimethylbenzene		ND		7.6	19
1,2-Dibromo-3-Chloropropane		ND		14	190
Ethylene Dibromide		ND		7.6	19
1,2-Dichlorobenzene		ND		7.6	19
1,2-Dichloroethane		ND		7.6	19
Acetone		ND	J	140	1900
1,2-Dichloropropane		ND		7.6	19
1,3,5-Trimethylbenzene		ND		7.6	19
1,3-Dichlorobenzene		ND		7.6	19
1,3-Dichloropropane		ND		7.6	19
1,4-Dichlorobenzene		ND		7.6	19
1,4-Dioxane		ND	J	250	1900
2,2-Dichloropropane		ND		7.6	19
2,4,4-Trimethyl-1-pentene		ND		7.6	38
2,4,4-Trimethyl-2-pentene		ND		7.6	38
2-Chlorotoluene		ND		7.6	19
2-Hexanone		ND		39	190
4-Chlorotoluene		ND		7.6	19
Benzene		ND		7.6	19
Bromobenzene		ND		7.6	19
Chlorobromomethane		ND		7.6	19
Dichlorobromomethane		ND		7.6	19
Bromoform		ND		7.6	19
Bromomethane		ND		7.6	38
n-Butylbenzene		ND		7.6	19
Carbon disulfide		ND		7.6	19
Carbon tetrachloride		ND		7.6	19
Chlorobenzene		ND		7.6	19
Chloroethane		ND		7.6	38
Chloroform		ND		7.6	19
Chloromethane		ND		7.6	38
cis-1,2-Dichloroethene		ND		7.6	19
cis-1,3-Dichloropropene		ND		7.6	19
Cyclohexane		ND		20	190
Chlorodibromomethane		ND		7.6	19

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: OC-SB-453-0.0/1.0-XXX

Lab Sample ID: 360-24686-5
Client Matrix: Solid

% Moisture: 81.3

Date Sampled: 09/17/2009 1625
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/22/2009 2333
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322

Instrument ID: HP #1 GC/MS
Lab File ID: V45251.D
Initial Weight/Volume: 3.52 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		7.6	19
Dichlorodifluoromethane		ND J		7.6	38
Ethyl ether		ND J		7.6	19
Isopropyl ether		ND		7.6	19
Tert-butyl ethyl ether		ND		19	19
Ethylbenzene		ND		7.6	19
Hexachlorobutadiene		ND		7.6	19
Isopropylbenzene		ND		7.6	19
Methyl acetate		ND		120	380
2-Butanone (MEK)		ND		51	190
4-Methyl-2-pentanone (MIBK)		ND		39	190
Methyl tert-butyl ether		ND J		7.6	19
Methylcyclohexane		ND		7.6	19
Methylene Chloride		ND		37	76
m-Xylene & p-Xylene		ND		7.6	38
Naphthalene		ND		7.6	190
N-Propylbenzene		ND		7.6	19
o-Xylene		ND		7.6	19
4-Isopropyltoluene		ND		7.6	19
sec-Butylbenzene		ND		7.6	19
Styrene		ND		7.6	19
Tert-amyl methyl ether		ND		7.6	19
tert-Butylbenzene		ND		7.6	19
Tetrachloroethene		ND		7.6	19
Tetrahydrofuran		ND		42	190
Toluene		ND		7.6	19
trans-1,2-Dichloroethene		ND		7.6	19
trans-1,3-Dichloropropene		ND		7.6	19
Trichloroethene		ND		7.6	19
Trichlorofluoromethane		ND		7.6	38
Vinyl chloride		ND		7.6	19

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-453-0.0/1.0-XXX**

Lab Sample ID: 360-24686-5
Client Matrix: Solid % Moisture: 81.3

Date Sampled: 09/17/2009 1625
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45251.D
Dilution:	1.0			Initial Weight/Volume:	3.52 g
Date Analyzed:	09/22/2009 2333			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: OC-SB-453-1.0/6.0-XXX

Lab Sample ID: 360-24686-6
Client Matrix: Solid % Moisture: 20.6

Date Sampled: 09/17/2009 1600
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/22/2009 2358
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322

Instrument ID: HP #1 GC/MS
Lab File ID: V45252.D
Initial Weight/Volume: 6.12 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		89	J	18	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND J		34	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.1
2,4,4-Trimethyl-2-pentene		4.7	J	1.0	5.1
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.3	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		24		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.1
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.1
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.1
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

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TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: OC-SB-453-1.0/6.0-XXX

Lab Sample ID: 360-24686-6
Client Matrix: Solid

% Moisture: 20.6

Date Sampled: 09/17/2009 1600
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/22/2009 2358
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322

Instrument ID: HP #1 GC/MS
Lab File ID: V45252.D
Initial Weight/Volume: 6.12 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND		1.0	5.1
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	51
2-Butanone (MEK)		ND		6.9	26
4-Methyl-2-pentanone (MIBK)		ND		5.3	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.0	10
m-Xylene & p-Xylene		ND		1.0	5.1
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.7	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.1
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	104		70 - 130

TC
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Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-453-1.0/6.0-XXX**

Lab Sample ID: 360-24686-6
Client Matrix: Solid

% Moisture: 20.6

Date Sampled: 09/17/2009 1600
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45252.D
Dilution:	1.0			Initial Weight/Volume:	6.12 g
Date Analyzed:	09/22/2009 2358			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	8.24	12	T J

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tc

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: OC-SB-473-0.0/1.0-XXX

Lab Sample ID: 360-24686-7
Client Matrix: Solid

% Moisture: 18.4

Date Sampled: 09/18/2009 0940
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 0022
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322

Instrument ID: HP #1 GC/MS
Lab File ID: V45253.D
Initial Weight/Volume: 4.22 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.5	3.6
1,1,1-Trichloroethane		ND		1.5	3.6
1,1,2,2-Tetrachloroethane		ND		1.5	3.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.5	18
1,1,2-Trichloroethane		ND		1.5	3.6
1,1-Dichloroethane		ND		1.5	3.6
1,1-Dichloroethene		ND		1.5	3.6
1,1-Dichloropropene		ND		1.5	3.6
1,2,3-Trichlorobenzene		ND		1.5	3.6
1,2,3-Trichloropropane		ND		2.1	3.6
1,2,4-Trichlorobenzene		ND		1.5	3.6
1,2,4-Trimethylbenzene		ND		1.5	3.6
1,2-Dibromo-3-Chloropropane		ND		2.6	36
Ethylene Dibromide		ND		1.5	3.6
1,2-Dichlorobenzene		ND		1.5	3.6
1,2-Dichloroethane		ND		1.5	3.6
Acetone		ND	J	26	360
1,2-Dichloropropane		ND		1.5	3.6
1,3,5-Trimethylbenzene		ND		1.5	3.6
1,3-Dichlorobenzene		ND		1.5	3.6
1,3-Dichloropropane		ND		1.5	3.6
1,4-Dichlorobenzene		ND		1.5	3.6
1,4-Dioxane		ND	J	48	360
2,2-Dichloropropane		ND		1.5	3.6
2,4,4-Trimethyl-1-pentene		ND		1.5	7.3
2,4,4-Trimethyl-2-pentene		ND		1.5	7.3
2-Chlorotoluene		ND		1.5	3.6
2-Hexanone		ND		7.5	36
4-Chlorotoluene		ND		1.5	3.6
Benzene		ND		1.5	3.6
Bromobenzene		ND		1.5	3.6
Chlorobromomethane		ND		1.5	3.6
Dichlorobromomethane		ND		1.5	3.6
Bromoform		ND		1.5	3.6
Bromomethane		ND		1.5	7.3
n-Butylbenzene		ND		1.5	3.6
Carbon disulfide		ND		1.5	3.6
Carbon tetrachloride		ND		1.5	3.6
Chlorobenzene		ND		1.5	3.6
Chloroethane		ND		1.5	7.3
Chloroform		ND		1.5	3.6
Chloromethane		ND		1.5	7.3
cis-1,2-Dichloroethene		ND		1.5	3.6
cis-1,3-Dichloropropene		ND		1.5	3.6
Cyclohexane		ND		3.7	36
Chlorodibromomethane		ND		1.5	3.6

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TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-473-0.0/1.0-XXX**

Lab Sample ID: 360-24686-7
Client Matrix: Solid % Moisture: 18.4

Date Sampled: 09/18/2009 0940
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45253.D
Dilution:	1.0			Initial Weight/Volume:	4.22 g
Date Analyzed:	09/23/2009 0022			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.5	3.6
Dichlorodifluoromethane		ND	*	1.5	7.3
Ethyl ether		ND		1.5	3.6
Isopropyl ether		ND		1.5	3.6
Tert-butyl ethyl ether		ND		3.6	3.6
Ethylbenzene		ND		1.5	3.6
Hexachlorobutadiene		ND		1.5	3.6
Isopropylbenzene		ND		1.5	3.6
Methyl acetate		ND	*	24	73
2-Butanone (MEK)		ND		9.8	36
4-Methyl-2-pentanone (MIBK)		ND		7.5	36
Methyl tert-butyl ether		ND		1.5	3.6
Methylcyclohexane		ND		1.5	3.6
Methylene Chloride		ND		7.0	15
m-Xylene & p-Xylene		ND		1.5	7.3
Naphthalene		ND		1.5	36
N-Propylbenzene		ND		1.5	3.6
o-Xylene		ND		1.5	3.6
4-Isopropyltoluene		ND		1.5	3.6
sec-Butylbenzene		ND		1.5	3.6
Styrene		ND		1.5	3.6
Tert-amyl methyl ether		ND		1.5	3.6
tert-Butylbenzene		ND		1.5	3.6
Tetrachloroethene		ND		1.5	3.6
Tetrahydrofuran		ND		8.0	36
Toluene		ND		1.5	3.6
trans-1,2-Dichloroethene		ND		1.5	3.6
trans-1,3-Dichloropropene		ND		1.5	3.6
Trichloroethene		ND		1.5	3.6
Trichlorofluoromethane		ND		1.5	7.3
Vinyl chloride		ND		1.5	3.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	103		70 - 130

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TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-473-0.0/1.0-XXX**

Lab Sample ID: 360-24686-7
Client Matrix: Solid

% Moisture: 18.4

Date Sampled: 09/18/2009 0940
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45253.D
Dilution:	1.0			Initial Weight/Volume:	4.22 g
Date Analyzed:	09/23/2009 0022			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.62	12	T J

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TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-473-4.0/6.0-XXX**

Lab Sample ID: 360-24686-9
Client Matrix: Solid % Moisture: 16.2

Date Sampled: 09/18/2009 0905
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45242.D
Dilution:	1.0			Initial Weight/Volume:	5.99 g
Date Analyzed:	09/22/2009 1957			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND	J	18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND	J	33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-473-4.0/6.0-XXX**

Lab Sample ID: 360-24686-9
Client Matrix: Solid

% Moisture: 16.2

Date Sampled: 09/18/2009 0905
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45242.D
Dilution:	1.0			Initial Weight/Volume:	5.99 g
Date Analyzed:	09/22/2009 1957			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND J		1.0	5.0
Ethyl ether		ND J		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND		16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.1	25
Methyl tert-butyl ether		ND J		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	103		70 - 130

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SB-473-4.0/6.0-XXX**

Lab Sample ID: 360-24686-9
Client Matrix: Solid % Moisture: 16.2

Date Sampled: 09/18/2009 0905
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45242.D
Dilution:	1.0			Initial Weight/Volume:	5.99 g
Date Analyzed:	09/22/2009 1957			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TS 4/12/10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: OC-SS-453-0.0/1.0-XXX

Lab Sample ID: 360-24686-10
Client Matrix: Solid
% Moisture: 28.3

Date Sampled: 09/17/2009 1740
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 0046
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322

Instrument ID: HP #1 GC/MS
Lab File ID: V45254.D
Initial Weight/Volume: 4.58 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.5	3.8
1,1,1-Trichloroethane		ND		1.5	3.8
1,1,2,2-Tetrachloroethane		ND		1.5	3.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.5	19
1,1,2-Trichloroethane		ND		1.5	3.8
1,1-Dichloroethane		ND		1.5	3.8
1,1-Dichloroethene		ND		1.5	3.8
1,1-Dichloropropene		ND		1.5	3.8
1,2,3-Trichlorobenzene		ND		1.5	3.8
1,2,3-Trichloropropane		ND		2.2	3.8
1,2,4-Trichlorobenzene		ND		1.5	3.8
1,2,4-Trimethylbenzene		ND		1.5	3.8
1,2-Dibromo-3-Chloropropane		ND		2.7	38
Ethylene Dibromide		ND		1.5	3.8
1,2-Dichlorobenzene		ND		1.5	3.8
1,2-Dichloroethane		ND		1.5	3.8
Acetone		ND	J	27	380
1,2-Dichloropropane		ND		1.5	3.8
1,3,5-Trimethylbenzene		ND		1.5	3.8
1,3-Dichlorobenzene		ND		1.5	3.8
1,3-Dichloropropane		ND		1.5	3.8
1,4-Dichlorobenzene		ND		1.5	3.8
1,4-Dioxane		ND	J	50	380
2,2-Dichloropropane		ND		1.5	3.8
2,4,4-Trimethyl-1-pentene		ND		1.5	7.6
2,4,4-Trimethyl-2-pentene		ND		1.5	7.6
2-Chlorotoluene		ND		1.5	3.8
2-Hexanone		ND		7.8	38
4-Chlorotoluene		ND		1.5	3.8
Benzene		ND		1.5	3.8
Bromobenzene		ND		1.5	3.8
Chlorobromomethane		ND		1.5	3.8
Dichlorobromomethane		ND		1.5	3.8
Bromoform		ND		1.5	3.8
Bromomethane		ND		1.5	7.6
n-Butylbenzene		ND		1.5	3.8
Carbon disulfide		ND		1.5	3.8
Carbon tetrachloride		ND		1.5	3.8
Chlorobenzene		ND		1.5	3.8
Chloroethane		ND		1.5	7.6
Chloroform		ND		1.5	3.8
Chloromethane		ND		1.5	7.6
cis-1,2-Dichloroethene		ND		1.5	3.8
cis-1,3-Dichloropropene		ND		1.5	3.8
Cyclohexane		ND		3.9	38
Chlorodibromomethane		ND		1.5	3.8

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-453-0.0/1.0-XXX**

Lab Sample ID: 360-24686-10
Client Matrix: Solid

% Moisture: 28.3

Date Sampled: 09/17/2009 1740
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 0046
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322

Instrument ID: HP #1 GC/MS
Lab File ID: V45254.D
Initial Weight/Volume: 4.58 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.5	3.8
Dichlorodifluoromethane		ND J		1.5	7.6
Ethyl ether		ND J		1.5	3.8
Isopropyl ether		ND		1.5	3.8
Tert-butyl ethyl ether		ND		3.8	3.8
Ethylbenzene		ND		1.5	3.8
Hexachlorobutadiene		ND		1.5	3.8
Isopropylbenzene		ND		1.5	3.8
Methyl acetate		ND		25	76
2-Butanone (MEK)		ND		10	38
4-Methyl-2-pentanone (MIBK)		ND		7.9	38
Methyl tert-butyl ether		ND J		1.5	3.8
Methylcyclohexane		ND		1.5	3.8
Methylene Chloride		ND		7.4	15
m-Xylene & p-Xylene		ND		1.5	7.6
Naphthalene		ND		1.5	38
N-Propylbenzene		ND		1.5	3.8
o-Xylene		ND		1.5	3.8
4-Isopropyltoluene		ND		1.5	3.8
sec-Butylbenzene		ND		1.5	3.8
Styrene		ND		1.5	3.8
Tert-amyl methyl ether		ND		1.5	3.8
tert-Butylbenzene		ND		1.5	3.8
Tetrachloroethene		ND		1.5	3.8
Tetrahydrofuran		ND		8.4	38
Toluene		ND		1.5	3.8
trans-1,2-Dichloroethene		ND		1.5	3.8
trans-1,3-Dichloropropene		ND		1.5	3.8
Trichloroethene		ND		1.5	3.8
Trichlorofluoromethane		ND		1.5	7.6
Vinyl chloride		ND		1.5	3.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	104		70 - 130

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-453-0.0/1.0-XXX**

Lab Sample ID: 360-24686-10
Client Matrix: Solid
% Moisture: 28.3

Date Sampled: 09/17/2009 1740
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45254.D
Dilution:	1.0			Initial Weight/Volume:	4.58 g
Date Analyzed:	09/23/2009 0046			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-457-0.0/1.0-XXX**

Lab Sample ID: 360-24686-11
Client Matrix: Solid % Moisture: 10.2

Date Sampled: 09/17/2009 1755
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 0109
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322

Instrument ID: HP #1 GC/MS
Lab File ID: V45255.D
Initial Weight/Volume: 5.32 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.6
1,1,1-Trichloroethane		ND		1.0	2.6
1,1,2,2-Tetrachloroethane		ND		1.0	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	13
1,1,2-Trichloroethane		ND		1.0	2.6
1,1-Dichloroethane		ND		1.0	2.6
1,1-Dichloroethene		ND		1.0	2.6
1,1-Dichloropropene		ND		1.0	2.6
1,2,3-Trichlorobenzene		ND		1.0	2.6
1,2,3-Trichloropropane		ND		1.5	2.6
1,2,4-Trichlorobenzene		ND		1.0	2.6
1,2,4-Trimethylbenzene		ND		1.0	2.6
1,2-Dibromo-3-Chloropropane		ND		1.9	26
Ethylene Dibromide		ND		1.0	2.6
1,2-Dichlorobenzene		ND		1.0	2.6
1,2-Dichloroethane		ND		1.0	2.6
Acetone		21	J	19	260
1,2-Dichloropropane		ND		1.0	2.6
1,3,5-Trimethylbenzene		ND		1.0	2.6
1,3-Dichlorobenzene		ND		1.0	2.6
1,3-Dichloropropane		ND		1.0	2.6
1,4-Dichlorobenzene		ND		1.0	2.6
1,4-Dioxane		ND	J	35	260
2,2-Dichloropropane		ND		1.0	2.6
2,4,4-Trimethyl-1-pentene		ND		1.0	5.2
2,4,4-Trimethyl-2-pentene		ND		1.0	5.2
2-Chlorotoluene		ND		1.0	2.6
2-Hexanone		ND		5.4	26
4-Chlorotoluene		ND		1.0	2.6
Benzene		ND		1.0	2.6
Bromobenzene		ND		1.0	2.6
Chlorobromomethane		ND		1.0	2.6
Dichlorobromomethane		ND		1.0	2.6
Bromoform		ND		1.0	2.6
Bromomethane		ND		1.0	5.2
n-Butylbenzene		ND		1.0	2.6
Carbon disulfide		ND		1.0	2.6
Carbon tetrachloride		ND		1.0	2.6
Chlorobenzene		ND		1.0	2.6
Chloroethane		ND		1.0	5.2
Chloroform		ND		1.0	2.6
Chloromethane		ND		1.0	5.2
cis-1,2-Dichloroethene		ND		1.0	2.6
cis-1,3-Dichloropropene		ND		1.0	2.6
Cyclohexane		ND		2.7	26
Chlorodibromomethane		ND		1.0	2.6

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-457-0.0/1.0-XXX**

Lab Sample ID: 360-24686-11
Client Matrix: Solid

% Moisture: 10.2

Date Sampled: 09/17/2009 1755
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 0109
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322

Instrument ID: HP #1 GC/MS
Lab File ID: V45255.D
Initial Weight/Volume: 5.32 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.6
Dichlorodifluoromethane		ND		1.0	5.2
Ethyl ether		ND		1.0	2.6
Isopropyl ether		ND		1.0	2.6
Tert-butyl ethyl ether		ND		2.6	2.6
Ethylbenzene		ND		1.0	2.6
Hexachlorobutadiene		ND		1.0	2.6
Isopropylbenzene		ND		1.0	2.6
Methyl acetate		ND		17	52
2-Butanone (MEK)		ND		7.1	26
4-Methyl-2-pentanone (MIBK)		ND		5.4	26
Methyl tert-butyl ether		ND		1.0	2.6
Methylcyclohexane		ND		1.0	2.6
Methylene Chloride		ND		5.1	10
m-Xylene & p-Xylene		ND		1.0	5.2
Naphthalene		ND		1.0	26
N-Propylbenzene		ND		1.0	2.6
o-Xylene		ND		1.0	2.6
4-Isopropyltoluene		ND		1.0	2.6
sec-Butylbenzene		ND		1.0	2.6
Styrene		ND		1.0	2.6
Tert-amyl methyl ether		ND		1.0	2.6
tert-Butylbenzene		ND		1.0	2.6
Tetrachloroethene		ND		1.0	2.6
Tetrahydrofuran		ND		5.8	26
Toluene		ND		1.0	2.6
trans-1,2-Dichloroethene		ND		1.0	2.6
trans-1,3-Dichloropropene		ND		1.0	2.6
Trichloroethene		ND		1.0	2.6
Trichlorofluoromethane		ND		1.0	5.2
Vinyl chloride		ND		1.0	2.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	103		70 - 130

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-457-0.0/1.0-XXX**

Lab Sample ID: 360-24686-11
Client Matrix: Solid % Moisture: 10.2

Date Sampled: 09/17/2009 1755
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45255.D
Dilution:	1.0			Initial Weight/Volume:	5.32 g
Date Analyzed:	09/23/2009 0109			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

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TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-TBK-022**

Lab Sample ID: 360-24686-12
Client Matrix: Solid

Date Sampled: 09/18/2009 1245
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 0134
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322

Instrument ID: HP #1 GC/MS
Lab File ID: V45256.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.0	2.5
1,1,1-Trichloroethane		ND		1.0	2.5
1,1,2,2-Tetrachloroethane		ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	12
1,1,2-Trichloroethane		ND		1.0	2.5
1,1-Dichloroethane		ND		1.0	2.5
1,1-Dichloroethene		ND		1.0	2.5
1,1-Dichloropropene		ND		1.0	2.5
1,2,3-Trichlorobenzene		ND		1.0	2.5
1,2,3-Trichloropropane		ND		1.5	2.5
1,2,4-Trichlorobenzene		ND		1.0	2.5
1,2,4-Trimethylbenzene		ND		1.0	2.5
1,2-Dibromo-3-Chloropropane		ND		1.8	25
Ethylene Dibromide		ND		1.0	2.5
1,2-Dichlorobenzene		ND		1.0	2.5
1,2-Dichloroethane		ND		1.0	2.5
Acetone		ND		18	250
1,2-Dichloropropane		ND		1.0	2.5
1,3,5-Trimethylbenzene		ND		1.0	2.5
1,3-Dichlorobenzene		ND		1.0	2.5
1,3-Dichloropropane		ND		1.0	2.5
1,4-Dichlorobenzene		ND		1.0	2.5
1,4-Dioxane		ND		33	250
2,2-Dichloropropane		ND		1.0	2.5
2,4,4-Trimethyl-1-pentene		ND		1.0	5.0
2,4,4-Trimethyl-2-pentene		ND		1.0	5.0
2-Chlorotoluene		ND		1.0	2.5
2-Hexanone		ND		5.1	25
4-Chlorotoluene		ND		1.0	2.5
Benzene		ND		1.0	2.5
Bromobenzene		ND		1.0	2.5
Chlorobromomethane		ND		1.0	2.5
Dichlorobromomethane		ND		1.0	2.5
Bromoform		ND		1.0	2.5
Bromomethane		ND		1.0	5.0
n-Butylbenzene		ND		1.0	2.5
Carbon disulfide		ND		1.0	2.5
Carbon tetrachloride		ND		1.0	2.5
Chlorobenzene		ND		1.0	2.5
Chloroethane		ND		1.0	5.0
Chloroform		ND		1.0	2.5
Chloromethane		ND		1.0	5.0
cis-1,2-Dichloroethene		ND		1.0	2.5
cis-1,3-Dichloropropene		ND		1.0	2.5
Cyclohexane		ND		2.6	25
Chlorodibromomethane		ND		1.0	2.5

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-TBK-022**

Lab Sample ID: 360-24686-12
Client Matrix: Solid

Date Sampled: 09/18/2009 1245
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 0134
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322

Instrument ID: HP #1 GC/MS
Lab File ID: V45256.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.0	2.5
Dichlorodifluoromethane		ND	*	1.0	5.0
Ethyl ether		ND		1.0	2.5
Isopropyl ether		ND		1.0	2.5
Tert-butyl ethyl ether		ND		2.5	2.5
Ethylbenzene		ND		1.0	2.5
Hexachlorobutadiene		ND		1.0	2.5
Isopropylbenzene		ND		1.0	2.5
Methyl acetate		ND	*	16	50
2-Butanone (MEK)		ND		6.7	25
4-Methyl-2-pentanone (MIBK)		ND		5.2	25
Methyl tert-butyl ether		ND		1.0	2.5
Methylcyclohexane		ND		1.0	2.5
Methylene Chloride		ND		4.8	10
m-Xylene & p-Xylene		ND		1.0	5.0
Naphthalene		ND		1.0	25
N-Propylbenzene		ND		1.0	2.5
o-Xylene		ND		1.0	2.5
4-Isopropyltoluene		ND		1.0	2.5
sec-Butylbenzene		ND		1.0	2.5
Styrene		ND		1.0	2.5
Tert-amyl methyl ether		ND		1.0	2.5
tert-Butylbenzene		ND		1.0	2.5
Tetrachloroethene		ND		1.0	2.5
Tetrahydrofuran		ND		5.5	25
Toluene		ND		1.0	2.5
trans-1,2-Dichloroethene		ND		1.0	2.5
trans-1,3-Dichloropropene		ND		1.0	2.5
Trichloroethene		ND		1.0	2.5
Trichlorofluoromethane		ND		1.0	5.0
Vinyl chloride		ND		1.0	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	105		70 - 130

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-TBK-022**

Lab Sample ID: 360-24686-12
Client Matrix: Solid

Date Sampled: 09/18/2009 1245
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49326		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49322		Lab File ID:	V45256.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	09/23/2009 0134			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: OC-SS-456-0.0/1.0-XXX

Lab Sample ID: 360-24686-13
Client Matrix: Solid

% Moisture: 16.5

Date Sampled: 09/18/2009 1320
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 2134
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366

Instrument ID: HP #1 GC/MS
Lab File ID: V45284.D
Initial Weight/Volume: 4.70 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.3	3.2
1,1,1-Trichloroethane		ND		1.3	3.2
1,1,2,2-Tetrachloroethane		ND		1.3	3.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	16
1,1,2-Trichloroethane		ND		1.3	3.2
1,1-Dichloroethane		ND		1.3	3.2
1,1-Dichloroethene		ND		1.3	3.2
1,1-Dichloropropene		ND		1.3	3.2
1,2,3-Trichlorobenzene		ND		1.3	3.2
1,2,3-Trichloropropane		ND		1.9	3.2
1,2,4-Trichlorobenzene		ND		1.3	3.2
1,2,4-Trimethylbenzene		ND		1.3	3.2
1,2-Dibromo-3-Chloropropane		ND		2.3	32
Ethylene Dibromide		ND		1.3	3.2
1,2-Dichlorobenzene		ND		1.3	3.2
1,2-Dichloroethane		ND		1.3	3.2
Acetone		ND	J	23	320
1,2-Dichloropropane		ND		1.3	3.2
1,3,5-Trimethylbenzene		ND		1.3	3.2
1,3-Dichlorobenzene		ND		1.3	3.2
1,3-Dichloropropane		ND		1.3	3.2
1,4-Dichlorobenzene		ND		1.3	3.2
1,4-Dioxane		ND	J	42	320
2,2-Dichloropropane		ND		1.3	3.2
2,4,4-Trimethyl-1-pentene		ND		1.3	6.4
2,4,4-Trimethyl-2-pentene		ND		1.3	6.4
2-Chlorotoluene		ND		1.3	3.2
2-Hexanone		ND		6.5	32
4-Chlorotoluene		ND		1.3	3.2
Benzene		ND		1.3	3.2
Bromobenzene		ND		1.3	3.2
Chlorobromomethane		ND		1.3	3.2
Dichlorobromomethane		ND		1.3	3.2
Bromoform		ND		1.3	3.2
Bromomethane		ND		1.3	6.4
n-Butylbenzene		ND		1.3	3.2
Carbon disulfide		ND		1.3	3.2
Carbon tetrachloride		ND		1.3	3.2
Chlorobenzene		ND		1.3	3.2
Chloroethane		ND		1.3	6.4
Chloroform		ND		1.3	3.2
Chloromethane		ND		1.3	6.4
cis-1,2-Dichloroethene		ND		1.3	3.2
cis-1,3-Dichloropropene		ND		1.3	3.2
Cyclohexane		ND		3.3	32
Chlorodibromomethane		ND		1.3	3.2

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-456-0.0/1.0-XXX**

Lab Sample ID: 360-24686-13
Client Matrix: Solid % Moisture: 16.5

Date Sampled: 09/18/2009 1320
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45284.D
Dilution:	1.0			Initial Weight/Volume:	4.70 g
Date Analyzed:	09/23/2009 2134			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.3	3.2
Dichlorodifluoromethane		ND		1.3	6.4
Ethyl ether		ND		1.3	3.2
Isopropyl ether		ND		1.3	3.2
Tert-butyl ethyl ether		ND		3.2	3.2
Ethylbenzene		ND		1.3	3.2
Hexachlorobutadiene		ND		1.3	3.2
Isopropylbenzene		ND		1.3	3.2
Methyl acetate		ND		21	64
2-Butanone (MEK)		ND		8.6	32
4-Methyl-2-pentanone (MIBK)		ND		6.6	32
Methyl tert-butyl ether		ND		1.3	3.2
Methylcyclohexane		ND		1.3	3.2
Methylene Chloride		ND		6.2	13
m-Xylene & p-Xylene		ND		1.3	6.4
Naphthalene		ND		1.3	32
N-Propylbenzene		ND		1.3	3.2
o-Xylene		ND		1.3	3.2
4-Isopropyltoluene		ND		1.3	3.2
sec-Butylbenzene		ND		1.3	3.2
Styrene		ND		1.3	3.2
Tert-amyl methyl ether		ND		1.3	3.2
tert-Butylbenzene		ND		1.3	3.2
Tetrachloroethene		ND		1.3	3.2
Tetrahydrofuran		ND		7.0	32
Toluene		ND		1.3	3.2
trans-1,2-Dichloroethene		ND		1.3	3.2
trans-1,3-Dichloropropene		ND		1.3	3.2
Trichloroethene		ND		1.3	3.2
Trichlorofluoromethane		ND		1.3	6.4
Vinyl chloride		ND		1.3	3.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	103		70 - 130

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-456-0.0/1.0-XXX**

Lab Sample ID: 360-24686-13
Client Matrix: Solid % Moisture: 16.5

Date Sampled: 09/18/2009 1320
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45284.D
Dilution:	1.0			Initial Weight/Volume:	4.70 g
Date Analyzed:	09/23/2009 2134			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-458-0.0/1.0-XXX**

Lab Sample ID: 360-24686-14
Client Matrix: Solid % Moisture: 11.3

Date Sampled: 09/18/2009 1355
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45285.D
Dilution:	1.0			Initial Weight/Volume:	3.91 g
Date Analyzed:	09/23/2009 2159			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.4	3.6
1,1,1-Trichloroethane		ND		1.4	3.6
1,1,2,2-Tetrachloroethane		ND		1.4	3.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.4	18
1,1,2-Trichloroethane		ND		1.4	3.6
1,1-Dichloroethane		ND		1.4	3.6
1,1-Dichloroethene		ND		1.4	3.6
1,1-Dichloropropene		ND		1.4	3.6
1,2,3-Trichlorobenzene		ND		1.4	3.6
1,2,3-Trichloropropane		ND		2.1	3.6
1,2,4-Trichlorobenzene		ND		1.4	3.6
1,2,4-Trimethylbenzene		ND		1.4	3.6
1,2-Dibromo-3-Chloropropane		ND		2.6	36
Ethylene Dibromide		ND		1.4	3.6
1,2-Dichlorobenzene		ND		1.4	3.6
1,2-Dichloroethane		ND		1.4	3.6
Acetone		ND	J	26	360
1,2-Dichloropropane		ND		1.4	3.6
1,3,5-Trimethylbenzene		ND		1.4	3.6
1,3-Dichlorobenzene		ND		1.4	3.6
1,3-Dichloropropane		ND		1.4	3.6
1,4-Dichlorobenzene		ND		1.4	3.6
1,4-Dioxane		ND	J	48	360
2,2-Dichloropropane		ND		1.4	3.6
2,4,4-Trimethyl-1-pentene		ND		1.4	7.2
2,4,4-Trimethyl-2-pentene		ND		1.4	7.2
2-Chlorotoluene		ND		1.4	3.6
2-Hexanone		ND		7.4	36
4-Chlorotoluene		ND		1.4	3.6
Benzene		ND		1.4	3.6
Bromobenzene		ND		1.4	3.6
Chlorobromomethane		ND		1.4	3.6
Dichlorobromomethane		ND		1.4	3.6
Bromoform		ND		1.4	3.6
Bromomethane		ND		1.4	7.2
n-Butylbenzene		ND		1.4	3.6
Carbon disulfide		ND		1.4	3.6
Carbon tetrachloride		ND		1.4	3.6
Chlorobenzene		ND		1.4	3.6
Chloroethane		ND		1.4	7.2
Chloroform		ND		1.4	3.6
Chloromethane		ND		1.4	7.2
cis-1,2-Dichloroethene		ND		1.4	3.6
cis-1,3-Dichloropropene		ND		1.4	3.6
Cyclohexane		ND		3.7	36
Chlorodibromomethane		ND		1.4	3.6

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: OC-SS-458-0.0/1.0-XXX

Lab Sample ID: 360-24686-14
Client Matrix: Solid % Moisture: 11.3

Date Sampled: 09/18/2009 1355
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45285.D
Dilution:	1.0			Initial Weight/Volume:	3.91 g
Date Analyzed:	09/23/2009 2159			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.4	3.6
Dichlorodifluoromethane		ND J		1.4	7.2
Ethyl ether		ND		1.4	3.6
Isopropyl ether		ND		1.4	3.6
Tert-butyl ethyl ether		ND		3.6	3.6
Ethylbenzene		ND		1.4	3.6
Hexachlorobutadiene		ND		1.4	3.6
Isopropylbenzene		ND		1.4	3.6
Methyl acetate		ND		23	72
2-Butanone (MEK)		ND		9.7	36
4-Methyl-2-pentanone (MIBK)		ND		7.4	36
Methyl tert-butyl ether		ND		1.4	3.6
Methylcyclohexane		ND		1.4	3.6
Methylene Chloride		ND		7.0	14
m-Xylene & p-Xylene		ND		1.4	7.2
Naphthalene		ND		1.4	36
N-Propylbenzene		ND		1.4	3.6
o-Xylene		ND		1.4	3.6
4-Isopropyltoluene		ND		1.4	3.6
sec-Butylbenzene		ND		1.4	3.6
Styrene		ND		1.4	3.6
Tert-amyl methyl ether		ND		1.4	3.6
tert-Butylbenzene		ND		1.4	3.6
Tetrachloroethene		ND		1.4	3.6
Tetrahydrofuran		ND		7.9	36
Toluene		ND		1.4	3.6
trans-1,2-Dichloroethene		ND		1.4	3.6
trans-1,3-Dichloropropene		ND		1.4	3.6
Trichloroethene		ND		1.4	3.6
Trichlorofluoromethane		ND		1.4	7.2
Vinyl chloride		ND		1.4	3.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	104		70 - 130

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-458-0.0/1.0-XXX**

Lab Sample ID: 360-24686-14
Client Matrix: Solid % Moisture: 11.3

Date Sampled: 09/18/2009 1355
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45285.D
Dilution:	1.0			Initial Weight/Volume:	3.91 g
Date Analyzed:	09/23/2009 2159			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-459-0.0/1.0-XXX**

Lab Sample ID: 360-24686-15
Client Matrix: Solid % Moisture: 12.9

Date Sampled: 09/18/2009 1345
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45286.D
Dilution:	1.0			Initial Weight/Volume:	4.27 g
Date Analyzed:	09/23/2009 2223			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		1.3	3.4
1,1,1-Trichloroethane		ND		1.3	3.4
1,1,2,2-Tetrachloroethane		ND		1.3	3.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	17
1,1,2-Trichloroethane		ND		1.3	3.4
1,1-Dichloroethane		ND		1.3	3.4
1,1-Dichloroethene		ND		1.3	3.4
1,1-Dichloropropene		ND		1.3	3.4
1,2,3-Trichlorobenzene		ND		1.3	3.4
1,2,3-Trichloropropane		ND		2.0	3.4
1,2,4-Trichlorobenzene		ND		1.3	3.4
1,2,4-Trimethylbenzene		ND		1.3	3.4
1,2-Dibromo-3-Chloropropane		ND		2.4	34
Ethylene Dibromide		ND		1.3	3.4
1,2-Dichlorobenzene		ND		1.3	3.4
1,2-Dichloroethane		ND		1.3	3.4
Acetone		ND	J	24	340
1,2-Dichloropropane		ND		1.3	3.4
1,3,5-Trimethylbenzene		ND		1.3	3.4
1,3-Dichlorobenzene		ND		1.3	3.4
1,3-Dichloropropane		ND		1.3	3.4
1,4-Dichlorobenzene		ND		1.3	3.4
1,4-Dioxane		ND	J	44	340
2,2-Dichloropropane		ND		1.3	3.4
2,4,4-Trimethyl-1-pentene		ND		1.3	6.7
2,4,4-Trimethyl-2-pentene		ND		1.3	6.7
2-Chlorotoluene		ND		1.3	3.4
2-Hexanone		ND		6.9	34
4-Chlorotoluene		ND		1.3	3.4
Benzene		ND		1.3	3.4
Bromobenzene		ND		1.3	3.4
Chlorobromomethane		ND		1.3	3.4
Dichlorobromomethane		ND		1.3	3.4
Bromoform		ND		1.3	3.4
Bromomethane		ND		1.3	6.7
n-Butylbenzene		ND		1.3	3.4
Carbon disulfide		ND		1.3	3.4
Carbon tetrachloride		ND		1.3	3.4
Chlorobenzene		ND		1.3	3.4
Chloroethane		ND		1.3	6.7
Chloroform		ND		1.3	3.4
Chloromethane		ND		1.3	6.7
cis-1,2-Dichloroethene		ND		1.3	3.4
cis-1,3-Dichloropropene		ND		1.3	3.4
Cyclohexane		ND		3.5	34
Chlorodibromomethane		ND		1.3	3.4

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-459-0.0/1.0-XXX**

Lab Sample ID: 360-24686-15
Client Matrix: Solid % Moisture: 12.9

Date Sampled: 09/18/2009 1345
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45286.D
Dilution:	1.0			Initial Weight/Volume:	4.27 g
Date Analyzed:	09/23/2009 2223			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.3	3.4
Dichlorodifluoromethane		ND J		1.3	6.7
Ethyl ether		ND		1.3	3.4
Isopropyl ether		ND		1.3	3.4
Tert-butyl ethyl ether		ND		3.4	3.4
Ethylbenzene		ND		1.3	3.4
Hexachlorobutadiene		ND		1.3	3.4
Isopropylbenzene		ND		1.3	3.4
Methyl acetate		ND		22	67
2-Butanone (MEK)		ND		9.1	34
4-Methyl-2-pentanone (MIBK)		ND		6.9	34
Methyl tert-butyl ether		ND		1.3	3.4
Methylcyclohexane		ND		1.3	3.4
Methylene Chloride		ND		6.5	13
m-Xylene & p-Xylene		ND		1.3	6.7
Naphthalene		ND		1.3	34
N-Propylbenzene		ND		1.3	3.4
o-Xylene		ND		1.3	3.4
4-Isopropyltoluene		ND		1.3	3.4
sec-Butylbenzene		ND		1.3	3.4
Styrene		ND		1.3	3.4
Tert-amyl methyl ether		ND		1.3	3.4
tert-Butylbenzene		ND		1.3	3.4
Tetrachloroethene		ND		1.3	3.4
Tetrahydrofuran		ND		7.4	34
Toluene		ND		1.3	3.4
trans-1,2-Dichloroethene		ND		1.3	3.4
trans-1,3-Dichloropropene		ND		1.3	3.4
Trichloroethene		ND		1.3	3.4
Trichlorofluoromethane		ND		1.3	6.7
Vinyl chloride		ND		1.3	3.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	106		70 - 130

TC
4-12-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-459-0.0/1.0-XXX**

Lab Sample ID: 360-24686-15
Client Matrix: Solid

% Moisture: 12.9

Date Sampled: 09/18/2009 1345
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45286.D
Dilution:	1.0			Initial Weight/Volume:	4.27 g
Date Analyzed:	09/23/2009 2223			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

4-1210
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: OC-SS-461-0.0/1.0-XXX

Lab Sample ID: 360-24686-16
Client Matrix: Solid % Moisture: 15.3

Date Sampled: 09/18/2009 1330
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 09/23/2009 2248
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366

Instrument ID: HP #1 GC/MS
Lab File ID: V45287.D
Initial Weight/Volume: 4.14 g
Final Weight/Volume: 5 g

Analyte (DryWt Corrected: Y)	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		1.4	3.6
1,1,1-Trichloroethane	ND		1.4	3.6
1,1,2,2-Tetrachloroethane	ND		1.4	3.6
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.4	18
1,1,2-Trichloroethane	ND		1.4	3.6
1,1-Dichloroethane	ND		1.4	3.6
1,1-Dichloroethene	ND		1.4	3.6
1,1-Dichloropropene	ND		1.4	3.6
1,2,3-Trichlorobenzene	ND		1.4	3.6
1,2,3-Trichloropropane	ND		2.1	3.6
1,2,4-Trichlorobenzene	ND		1.4	3.6
1,2,4-Trimethylbenzene	ND		1.4	3.6
1,2-Dibromo-3-Chloropropane	ND		2.6	36
Ethylene Dibromide	ND		1.4	3.6
1,2-Dichlorobenzene	ND		1.4	3.6
1,2-Dichloroethane	ND		1.4	3.6
Acetone	81	J	26	360
1,2-Dichloropropane	ND		1.4	3.6
1,3,5-Trimethylbenzene	ND		1.4	3.6
1,3-Dichlorobenzene	ND		1.4	3.6
1,3-Dichloropropane	ND		1.4	3.6
1,4-Dichlorobenzene	ND		1.4	3.6
1,4-Dioxane	ND J		47	360
2,2-Dichloropropane	ND		1.4	3.6
2,4,4-Trimethyl-1-pentene	ND		1.4	7.1
2,4,4-Trimethyl-2-pentene	ND		1.4	7.1
2-Chlorotoluene	ND		1.4	3.6
2-Hexanone	ND		7.3	36
4-Chlorotoluene	ND		1.4	3.6
Benzene	ND		1.4	3.6
Bromobenzene	ND		1.4	3.6
Chlorobromomethane	ND		1.4	3.6
Dichlorobromomethane	ND		1.4	3.6
Bromoform	ND		1.4	3.6
Bromomethane	ND		1.4	7.1
n-Butylbenzene	ND		1.4	3.6
Carbon disulfide	ND		1.4	3.6
Carbon tetrachloride	ND		1.4	3.6
Chlorobenzene	ND		1.4	3.6
Chloroethane	ND		1.4	7.1
Chloroform	ND		1.4	3.6
Chloromethane	ND		1.4	7.1
cis-1,2-Dichloroethene	ND		1.4	3.6
cis-1,3-Dichloropropene	ND		1.4	3.6
Cyclohexane	ND		3.7	36
Chlorodibromomethane	ND		1.4	3.6

4-12-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: OC-SS-461-0.0/1.0-XXX

Lab Sample ID: 360-24686-16
Client Matrix: Solid

% Moisture: 15.3

Date Sampled: 09/18/2009 1330
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45287.D
Dilution:	1.0			Initial Weight/Volume:	4.14 g
Date Analyzed:	09/23/2009 2248			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		1.4	3.6
Dichlorodifluoromethane		ND	J	1.4	7.1
Ethyl ether		ND		1.4	3.6
Isopropyl ether		ND		1.4	3.6
Tert-butyl ethyl ether		ND		3.6	3.6
Ethylbenzene		ND		1.4	3.6
Hexachlorobutadiene		ND		1.4	3.6
Isopropylbenzene		ND		1.4	3.6
Methyl acetate		ND		23	71
2-Butanone (MEK)		ND		9.6	36
4-Methyl-2-pentanone (MIBK)		ND		7.4	36
Methyl tert-butyl ether		ND		1.4	3.6
Methylcyclohexane		ND		1.4	3.6
Methylene Chloride		ND		6.9	14
m-Xylene & p-Xylene		ND		1.4	7.1
Naphthalene		ND		1.4	36
N-Propylbenzene		ND		1.4	3.6
o-Xylene		ND		1.4	3.6
4-Isopropyltoluene		ND		1.4	3.6
sec-Butylbenzene		ND		1.4	3.6
Styrene		ND		1.4	3.6
Tert-amyl methyl ether		ND		1.4	3.6
tert-Butylbenzene		ND		1.4	3.6
Tetrachloroethene		ND		1.4	3.6
Tetrahydrofuran		ND		7.8	36
Toluene		ND		1.4	3.6
trans-1,2-Dichloroethene		ND		1.4	3.6
trans-1,3-Dichloropropene		ND		1.4	3.6
Trichloroethene		ND		1.4	3.6
Trichlorofluoromethane		ND		1.4	7.1
Vinyl chloride		ND		1.4	3.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-SS-461-0.0/1.0-XXX**

Lab Sample ID: 360-24686-16
Client Matrix: Solid

% Moisture: 15.3

Date Sampled: 09/18/2009 1330
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49369		Instrument ID:	HP #1 GC/MS
Preparation:	5035	Prep Batch: 360-49366		Lab File ID:	V45287.D
Dilution:	1.0			Initial Weight/Volume:	4.14 g
Date Analyzed:	09/23/2009 2248			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

TC
4/12/10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-EBK-012**

Lab Sample ID: 360-24686-20
Client Matrix: Water

Date Sampled: 09/17/2009 1715
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/24/2009 1938
Date Prepared: 09/24/2009 1938

Analysis Batch: 360-49481

Instrument ID: Agilent#2 GC/MS
Lab File ID: V07123.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND		0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
4-Chlorotoluene	ND		0.62	1.0
Acetone	ND		20	50
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND		0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	1.2		0.66	1.0
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-EBK-012**

Lab Sample ID: 360-24686-20
Client Matrix: Water

Date Sampled: 09/17/2009 1715
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/24/2009 1938
Date Prepared: 09/24/2009 1938

Analysis Batch: 360-49481

Instrument ID: Agilent#2 GC/MS
Lab File ID: V07123.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND	*	0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND	*	2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		70 - 130
Dibromofluoromethane	118		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Client Sample ID: **OC-EBK-012**

Lab Sample ID: 360-24686-20
Client Matrix: Water

Date Sampled: 09/17/2009 1715
Date Received: 09/18/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 360-49481		Instrument ID:	Agilent#2 GC/MS
Preparation:	5030B			Lab File ID:	V07123.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	09/24/2009 1938			Final Weight/Volume:	5 mL
Date Prepared:	09/24/2009 1938				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
115-7-1	Propene	1.69	2.3	T J N
	Unknown	5.25	1.3	T J

CASE NARRATIVE

Client: Olin Corporation

Project: Olin Chemical Superfund Site

Report Number: 360-24686-1

Samples were analyzed in accordance with analytical methods, SOPs, and QA/QC goals described in the Olin Chemical Superfund Site Remedial Investigation /Feasibility Study Work Plan Volume III-B Quality Assurance Project Plan (QAPP) August 14, 2009. Analytical methods include USEPA published methods for the majority of analytes. Custom laboratory methods that were developed by Test America are also used for a subset of analytes as described in the QAPP. Analytical QA/QC goals from the Massachusetts Contingency Plan (MCP) Compendium of MCP Methods published by the Massachusetts Department of Environmental Protection (MassDEP) have been identified as project goals in the QAPP for those methods addressed in the Compendium. Analytical methods are run in accordance with both USEPA methodologies and MassDEP analytical guidelines. Analytical methods meet requirements of USEPA methods and MassDEP Presumptive Certainty goals unless discussed in this narrative.

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

For those methods contained in the MassDEP Compendium, a separate MCP Analytical Method Report Certification Form is included for each method requested.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may be greater than project QLs identified in the QAPP. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes which exceed the calibration range.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 09/18/2009; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS) (soils)

Samples 360-24686-2 through 360-24686-7 and 360-24686-9 through 360-24686-16 were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared and analyzed on 09/22/2009 and 09/23/2009.

All QC performance standards identified in the project QAPP, which may affect Data Usability for this specific method, were achieved with the exception of:

For samples 360-24686-(2,3,4,13,14,15,16), Dichlorodifluoromethane failed the recovery criteria low for LCS/LCSD 360-49366/1-A.

For samples 360-24686-(5,6,7,9,10,11,12), Dichlorodifluoromethane failed the recovery criteria low for LCS/LCSD 360-49322/1-A. Methyl acetate failed the recovery criteria high in the LCS/LCSD.

General method information:
For samples 360-24686 (5-7,9-12), B49326, the curve uses quadratic regressions for 1,4-Dioxane.
For samples 360-24686(2-4,13-16), B49369, the curve uses quadratic regressions for 1,4-Dioxane.

Sample 360-24686-2 had a ratio of methanol to soil below the method standard.
Sample 360-24686-4 had a ratio of methanol to soil above the method standard.
Sample 360-24686-5 had a ratio of methanol to soil above the method standard.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS) (water)

Sample 360-24686-20 was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/24/2009.

All QC performance standards identified in the project QAPP, which may affect Data Usability for this specific method, were achieved with the exception of:

Dichlorodifluoromethane failed the recovery criteria low for LCS/LCSD 360-49481/3. 1,4-Dioxane failed the recovery criteria high in the LCS/LCSD.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) (soils)
Samples 360-24686-2 through 360-24686-7, 360-24686-9 through 360-24686-11 and 360-24686-13 through 360-24686-16 were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 8270C LL. The samples were prepared on 09/29/2009 and analyzed on 10/05/2009, 10/06/2009 and 10/08/2009.

All QC performance standards identified in the project QAPP, which may affect Data Usability for this specific method, were achieved with the exception of:

For samples 360-24686-2-7, 9, 9MS/MSD10,11,13,13DL,14,15,16), Di-n-butyl phthalate was detected in method blank MB 360-49658/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

2,4,6-Tribromophenol failed the surrogate recovery criteria high for 360-24686-5. Per MCP, re-extraction is only required if two or more surrogates from any one fraction or any single surrogate falls below 10%.

For samples 360-24686-2-7, 9, 9MS/MSD10,11,13,13DL,14,15,16), Aniline failed the recovery criteria low for LCS/LCSD 360-49658/2-A.

Aniline, Hexachlorocyclopentadiene and Hexachloroethane failed the recovery criteria low for the MS/MSD of sample 360-24686-9 in batch 360-49955. Caprolactam exceeded the rpd limit.

General method information:
Samples 360-24686-2(10X), 360-24686-5(10X), 360-24686-7(10X), 360-24686-13(5X - high targets) and 360-24686-14 through 360-24686-16(10X) required dilution prior to analysis due to sample extract - thick oily. The reporting limits have been adjusted accordingly.

Benzoic acid was detected in method blank MB 360-49658/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

For samples 360-24686-(2-7, 9, 9MS/MSD, 10,11, 13-16) batch 49955. ICAL 10/5/2009 Inst B Quadratic regression used for: Pyridine, Benzyl alcohol, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4-Chloro phenyl phenyl ether, 4,6-Dinitro-2-methylphenol, Pentachlorophenol.

No other difficulties were encountered during the semivolatiles analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) (soils) N-Nitrosodimethylamine
Samples 360-24686-2 through 360-24686-7, 360-24686-9 through 360-24686-11, 360-24686-13 and 360-24686-15 were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 8270C LL. The samples were prepared on 09/22/2009 and 09/29/2009 and analyzed on 09/27/2009 and 10/01/2009.

All QC performance standards and recommendations, which may affect Data Usability for this specific method, were achieved.

General method information:
For samples 360-24686-(10,11), batch 49521. DDT breakdown in DFTPP tune was more than 20%. This failure does not bias the results of NDMA.

Samples 360-24686-2(10X), 360-24686-5(10X) and 360-24686-6(5X) required dilution prior to analysis due to the nature of sample matrix - oily. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the semivolatiles analyses.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)
Sample 360-24686-20 was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 8270C LL. The samples were prepared on 09/21/2009 and analyzed on 10/15/2009.

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Method Blank - Batch: 360-49481

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 360-49481/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/24/2009 1711
Date Prepared: 09/24/2009 1711

Analysis Batch: 360-49481
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 7890/5975 GC/MS
Lab File ID: V07116.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.70	1.0
1,1,2,2-Tetrachloroethane	ND		0.58	0.50
1,1,1,2-Tetrachloroethane	ND		0.61	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.63	1.0
1,1,2-Trichloroethane	ND		0.72	1.0
1,1-Dichloroethane	ND		0.67	1.0
1,1-Dichloroethene	ND		0.64	1.0
1,1-Dichloropropene	ND		0.68	1.0
1,2,3-Trichlorobenzene	ND		0.42	1.0
1,2,3-Trichloropropane	ND		0.65	1.0
1,2,4-Trichlorobenzene	ND		0.34	1.0
1,2,4-Trimethylbenzene	ND		0.70	1.0
1,2-Dibromo-3-Chloropropane	ND		0.58	5.0
Ethylene Dibromide	ND		0.54	1.0
1,2-Dichlorobenzene	ND		0.62	1.0
1,2-Dichloroethane	ND		0.62	1.0
1,2-Dichloropropane	ND		0.51	1.0
1,3,5-Trimethylbenzene	ND		0.66	1.0
1,3-Dichlorobenzene	ND		0.64	1.0
1,3-Dichloropropane	ND		0.57	1.0
1,4-Dichlorobenzene	ND		0.62	1.0
1,4-Dioxane	ND		7.7	50
2,2-Dichloropropane	ND		0.60	1.0
2,4,4-Trimethyl-1-pentene	ND		0.81	1.0
2,4,4-Trimethyl-2-pentene	ND		0.50	1.0
2-Chlorotoluene	ND		0.65	1.0
2-Hexanone	ND		7.3	10
Acetone	ND		20	50
4-Chlorotoluene	ND		0.62	1.0
Benzene	ND		0.74	1.0
Bromobenzene	ND		0.64	1.0
Chlorobromomethane	ND		0.78	1.0
Dichlorobromomethane	ND		0.63	1.0
Bromoform	ND		0.60	1.0
Bromomethane	ND		0.28	2.0
n-Butylbenzene	ND		0.59	1.0
Carbon disulfide	ND		0.62	10
Carbon tetrachloride	ND		0.71	1.0
Chlorobenzene	ND		0.65	1.0
Chloroethane	ND		0.40	2.0
Chloroform	ND		0.66	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Method Blank - Batch: 360-49481

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 360-49481/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/24/2009 1711
Date Prepared: 09/24/2009 1711

Analysis Batch: 360-49481
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 7890/5975 GC/MS
Lab File ID: V07116.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		0.30	2.0
cis-1,2-Dichloroethene	ND		0.65	1.0
cis-1,3-Dichloropropene	ND		0.40	0.40
Cyclohexane	ND		2.8	10
Chlorodibromomethane	ND		0.50	0.50
Dibromomethane	ND		0.65	1.0
Dichlorodifluoromethane	ND		0.24	1.0
Ethyl ether	ND		0.63	10
Isopropyl ether	ND		0.62	10
Tert-butyl ethyl ether	ND		0.67	5.0
Ethylbenzene	ND		0.67	1.0
Hexachlorobutadiene	ND		0.40	0.40
Isopropylbenzene	ND		0.57	1.0
Methyl acetate	ND		16	10
2-Butanone (MEK)	ND		10	10
4-Methyl-2-pentanone (MIBK)	ND		8.5	10
Methyl tert-butyl ether	ND		0.63	1.0
Methylcyclohexane	ND		1.0	10
Methylene Chloride	ND		1.0	2.0
m-Xylene & p-Xylene	ND		1.4	2.0
Naphthalene	ND		2.0	5.0
N-Propylbenzene	ND		0.70	1.0
o-Xylene	ND		0.54	1.0
4-Isopropyltoluene	ND		0.59	1.0
sec-Butylbenzene	ND		0.67	1.0
Styrene	ND		0.60	1.0
Tert-amyl methyl ether	ND		0.61	5.0
tert-Butylbenzene	ND		0.61	1.0
Tetrachloroethene	ND		0.48	1.0
Tetrahydrofuran	ND		8.0	10
Toluene	ND		0.56	1.0
trans-1,2-Dichloroethene	ND		0.60	1.0
trans-1,3-Dichloropropene	ND		0.40	0.40
Trichloroethene	ND		0.59	1.0
Trichlorofluoromethane	ND		0.31	1.0
Vinyl chloride	ND		0.46	0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	94	70 - 130
Dibromofluoromethane	108	70 - 130
Toluene-d8 (Surr)	93	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Method Blank TICs- Batch: 360-49481

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49481

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 360-49481/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/24/2009 1609
Date Prepared: 09/24/2009 1609

Analysis Batch: 360-49481
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 7890/5975 GC/MS
Lab File ID: V07113.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 360-49481/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/24/2009 1630
Date Prepared: 09/24/2009 1630

Analysis Batch: 360-49481
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 7890/5975 GC/MS
Lab File ID: V07114.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	96	88	70 - 130	8	25		
1,1,1,2-Tetrachloroethane	93	86	70 - 130	7	25		
1,1,2,2-Tetrachloroethane	80	77	70 - 130	5	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	102	96	70 - 130	6	25		
1,1,2-Trichloroethane	91	84	70 - 130	7	25		
1,1-Dichloroethane	95	88	70 - 130	8	25		
1,1-Dichloroethene	96	88	70 - 130	8	25		
1,1-Dichloropropene	98	92	70 - 130	7	25		
1,2,3-Trichlorobenzene	86	82	70 - 130	5	25		
1,2,3-Trichloropropane	95	90	70 - 130	6	25		
1,2,4-Trichlorobenzene	86	82	70 - 130	4	25		
1,2,4-Trimethylbenzene	93	88	70 - 130	6	25		
1,2-Dibromo-3-Chloropropane	79	75	70 - 130	5	25		
Ethylene Dibromide	92	87	70 - 130	6	25		
1,2-Dichlorobenzene	92	87	70 - 130	6	25		
1,2-Dichloroethane	92	86	70 - 130	7	25		
1,2-Dichloropropane	98	91	70 - 130	8	25		
1,3,5-Trimethylbenzene	95	89	70 - 130	6	25		
1,3-Dichlorobenzene	102	95	70 - 130	6	25		
1,3-Dichloropropane	93	87	70 - 130	6	25		
1,4-Dichlorobenzene	94	88	70 - 130	6	25		
1,4-Dioxane	137	135	70 - 130	1	25	*	*
2,2-Dichloropropane	108	100	70 - 130	8	25		
2,4,4-Trimethyl-1-pentene	108	104	70 - 130	3	25		
2,4,4-Trimethyl-2-pentene	120	116	70 - 130	3	25		
2-Chlorotoluene	96	91	70 - 130	5	25		
2-Hexanone	93	89	70 - 130	4	25		
4-Chlorotoluene	100	95	70 - 130	5	25		
Acetone	89	85	70 - 130	5	25		
Benzene	97	89	70 - 130	8	25		
Bromobenzene	100	95	70 - 130	5	25		
Chlorobromomethane	95	88	70 - 130	7	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49481

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 360-49481/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/24/2009 1609
Date Prepared: 09/24/2009 1609

Analysis Batch: 360-49481
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 7890/5975 GC/MS
Lab File ID: V07113.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 360-49481/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/24/2009 1630
Date Prepared: 09/24/2009 1630

Analysis Batch: 360-49481
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 7890/5975 GC/MS
Lab File ID: V07114.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	91	86	70 - 130	7	25		
Bromoform	89	84	70 - 130	6	25		
Bromomethane	115	104	70 - 130	10	25		
n-Butylbenzene	90	85	70 - 130	6	25		
Carbon disulfide	101	93	70 - 130	8	25		
Carbon tetrachloride	95	86	70 - 130	9	25		
Chlorobenzene	95	90	70 - 130	6	25		
Chloroethane	116	102	70 - 130	12	25		
Chloroform	93	86	70 - 130	7	25		
Chloromethane	100	90	70 - 130	11	25		
cis-1,2-Dichloroethene	99	93	70 - 130	6	25		
cis-1,3-Dichloropropene	96	89	70 - 130	7	25		
Cyclohexane	105	100	70 - 130	5	25		
Chlorodibromomethane	91	85	70 - 130	7	25		
Dibromomethane	89	84	70 - 130	5	25		
Dichlorodifluoromethane	66	61	70 - 130	8	25	*	*
Ethyl ether	97	91	70 - 130	6	25		
Isopropyl ether	101	97	70 - 130	5	25		
Tert-butyl ethyl ether	103	97	70 - 130	6	25		
Ethylbenzene	100	95	70 - 130	6	25		
Hexachlorobutadiene	85	79	70 - 130	8	25		
Isopropylbenzene	89	85	70 - 130	5	25		
Methyl acetate	100	97	70 - 130	4	25		
2-Butanone (MEK)	78	76	70 - 130	2	25		
4-Methyl-2-pentanone (MIBK)	93	89	70 - 130	4	25		
Methyl tert-butyl ether	104	99	70 - 130	5	25		
Methylcyclohexane	108	103	70 - 130	5	25		
Methylene Chloride	104	96	70 - 130	8	25		
m-Xylene & p-Xylene	96	90	70 - 130	7	25		
Naphthalene	70	69	70 - 130	1	25		*
N-Propylbenzene	95	90	70 - 130	5	25		
o-Xylene	86	83	70 - 130	4	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49481

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 360-49481/3	Analysis Batch:	360-49481	Instrument ID:	Agilent 7890/5975 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V07113.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	09/24/2009 1609			Final Weight/Volume:	5 mL
Date Prepared:	09/24/2009 1609				

LCSD Lab Sample ID:	LCSD 360-49481/4	Analysis Batch:	360-49481	Instrument ID:	Agilent 7890/5975 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V07114.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	09/24/2009 1630			Final Weight/Volume:	5 mL
Date Prepared:	09/24/2009 1630				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	93	88	70 - 130	6	25		
sec-Butylbenzene	94	88	70 - 130	6	25		
Styrene	94	88	70 - 130	7	25		
Tert-amyl methyl ether	105	101	70 - 130	4	25		
tert-Butylbenzene	89	84	70 - 130	6	25		
Tetrachloroethene	93	87	70 - 130	7	25		
Tetrahydrofuran	93	90	70 - 130	4	25		
Toluene	95	89	70 - 130	6	25		
trans-1,2-Dichloroethene	98	90	70 - 130	8	25		
trans-1,3-Dichloropropene	101	96	70 - 130	6	25		
Trichloroethene	94	86	70 - 130	9	25		
Trichlorofluoromethane	99	90	70 - 130	9	25		
Vinyl chloride	93	85	70 - 130	10	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	107	109	70 - 130
Dibromofluoromethane	98	96	70 - 130
Toluene-d8 (Surr)	100	101	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 360-49481

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 360-49481/3	Units:	ug/L	LCSD Lab Sample ID:	LCSD 360-49481/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	09/24/2009 1609			Date Analyzed:	09/24/2009 1630
Date Prepared:	09/24/2009 1609			Date Prepared:	09/24/2009 1630

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,1,1-Trichloroethane	20.0	20.0	19.1	17.7
1,1,1,2-Tetrachloroethane	20.0	20.0	18.6	17.3
1,1,2,2-Tetrachloroethane	20.0	20.0	16.1	15.3
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.0	20.5	19.3
1,1,2-Trichloroethane	20.0	20.0	18.1	16.8
1,1-Dichloroethane	20.0	20.0	19.1	17.6
1,1-Dichloroethene	20.0	20.0	19.2	17.6
1,1-Dichloropropene	20.0	20.0	19.7	18.3
1,2,3-Trichlorobenzene	20.0	20.0	17.3	16.5
1,2,3-Trichloropropane	20.0	20.0	19.1	18.0
1,2,4-Trichlorobenzene	20.0	20.0	17.1	16.4
1,2,4-Trimethylbenzene	20.0	20.0	18.7	17.7
1,2-Dibromo-3-Chloropropane	20.0	20.0	15.7	15.0
Ethylene Dibromide	20.0	20.0	18.5	17.5
1,2-Dichlorobenzene	20.0	20.0	18.4	17.4
1,2-Dichloroethane	20.0	20.0	18.4	17.2
1,2-Dichloropropane	20.0	20.0	19.6	18.2
1,3,5-Trimethylbenzene	20.0	20.0	19.0	17.9
1,3-Dichlorobenzene	20.0	20.0	20.3	19.1
1,3-Dichloropropane	20.0	20.0	18.6	17.4
1,4-Dichlorobenzene	20.0	20.0	18.7	17.6
1,4-Dioxane	200	200	273 *	271 *
2,2-Dichloropropane	20.0	20.0	21.5	20.0
2,4,4-Trimethyl-1-pentene	20.0	20.0	21.6	20.9
2,4,4-Trimethyl-2-pentene	20.0	20.0	24.1	23.3
2-Chlorotoluene	20.0	20.0	19.1	18.1
2-Hexanone	200	200	185	177
4-Chlorotoluene	20.0	20.0	20.0	19.0
Acetone	200	200	178	170
Benzene	20.0	20.0	19.3	17.8
Bromobenzene	20.0	20.0	19.9	19.0
Chlorobromomethane	20.0	20.0	18.9	17.6
Dichlorobromomethane	20.0	20.0	18.3	17.1
Bromoform	20.0	20.0	17.9	16.8
Bromomethane	20.0	20.0	23.0	20.9
n-Butylbenzene	20.0	20.0	17.9	17.0
Carbon disulfide	20.0	20.0	20.1	18.5
Carbon tetrachloride	20.0	20.0	18.9	17.3
Chlorobenzene	20.0	20.0	19.0	18.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 360-49481

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 360-49481/3	Units:	ug/L	LCSD Lab Sample ID:	LCSD 360-49481/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	09/24/2009 1609			Date Analyzed:	09/24/2009 1630
Date Prepared:	09/24/2009 1609			Date Prepared:	09/24/2009 1630

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloroethane	20.0	20.0	23.2	20.5
Chloroform	20.0	20.0	18.5	17.2
Chloromethane	20.0	20.0	20.1	18.1
cis-1,2-Dichloroethene	20.0	20.0	19.9	18.7
cis-1,3-Dichloropropene	20.0	20.0	19.1	17.8
Cyclohexane	20.0	20.0	21.1	20.1
Chlorodibromomethane	20.0	20.0	18.3	17.0
Dibromomethane	20.0	20.0	17.8	16.9
Dichlorodifluoromethane	20.0	20.0	13.2 *	12.1 *
Ethyl ether	20.0	20.0	19.3	18.2
Isopropyl ether	20.0	20.0	20.2	19.3
Tert-butyl ethyl ether	20.0	20.0	20.5	19.4
Ethylbenzene	20.0	20.0	20.0	19.0
Hexachlorobutadiene	20.0	20.0	17.0	15.8
Isopropylbenzene	20.0	20.0	17.9	17.0
Methyl acetate	200	200	201	193
2-Butanone (MEK)	200	200	156	153
4-Methyl-2-pentanone (MIBK)	200	200	185	178
Methyl tert-butyl ether	20.0	20.0	20.7	19.8
Methylcyclohexane	20.0	20.0	21.6	20.6
Methylene Chloride	20.0	20.0	20.8	19.1
m-Xylene & p-Xylene	40.0	40.0	38.4	36.0
Naphthalene	20.0	20.0	14.0	13.9 *
N-Propylbenzene	20.0	20.0	18.9	17.9
o-Xylene	20.0	20.0	17.3	16.5
4-Isopropyltoluene	20.0	20.0	18.5	17.5
sec-Butylbenzene	20.0	20.0	18.8	17.7
Styrene	20.0	20.0	18.7	17.5
Tert-amyl methyl ether	20.0	20.0	21.1	20.2
tert-Butylbenzene	20.0	20.0	17.8	16.7
Tetrachloroethene	20.0	20.0	18.7	17.3
Tetrahydrofuran	200	200	187	180
Toluene	20.0	20.0	18.9	17.8
trans-1,2-Dichloroethene	20.0	20.0	19.5	18.0
trans-1,3-Dichloropropene	20.0	20.0	20.3	19.1
Trichloroethene	20.0	20.0	18.8	17.2
Trichlorofluoromethane	20.0	20.0	19.8	18.1
Vinyl chloride	20.0	20.0	18.7	17.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Method Blank - Batch: 360-49233

Method: 8270C LL
Preparation: 3510C

Lab Sample ID: MB 360-49233/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2009 1530
Date Prepared: 09/21/2009 1337

Analysis Batch: 360-50350
Prep Batch: 360-49233
Units: ug/L

Instrument ID: Agilent 6890/5973 GC/MS
Lab File ID: B10906.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	ND		0.50	5.0
1,2,4,5-Tetrachlorobenzene	ND		0.50	5.0
1-Methylnaphthalene	ND		0.050	5.0
2,3,4,6-Tetrachlorophenol	ND		0.50	5.0
2,4-Dimethylphenol	ND		0.50	5.0
2-Chlorophenol	ND		0.50	5.0
2,4-Dichlorophenol	ND		0.50	5.0
2,4,6-Trichlorophenol	ND		0.50	5.0
2-Methylphenol	ND		0.50	5.0
2,4,5-Trichlorophenol	ND		0.50	5.0
2-Methylnaphthalene	ND		0.050	1.0
3 & 4 Methylphenol	ND		0.50	5.0
3,3'-Dichlorobenzidine	ND		0.50	5.0
2-Nitroaniline	ND		0.50	5.0
2-Chloronaphthalene	ND		0.50	5.0
2,6-Dinitrotoluene	ND		0.50	5.0
4-Chloro-3-methylphenol	ND		0.50	5.0
4-Chloroaniline	ND		0.50	5.0
2-Nitrophenol	ND		0.50	5.0
3-Nitroaniline	ND		0.50	5.0
2,4-Dinitrophenol	ND		0.50	5.0
2,4-Dinitrotoluene	ND		0.50	5.0
Acenaphthene	ND		0.050	1.0
Acenaphthylene	ND		0.050	0.30
4-Nitrophenol	ND		0.50	5.0
Aniline	ND		0.50	5.0
4-Nitroaniline	ND		0.50	5.0
Azobenzene	ND		0.50	5.0
4-Bromophenyl phenyl ether	ND		0.50	5.0
4-Chlorophenyl phenyl ether	ND		0.50	5.0
Benzoic acid	ND		0.50	5.0
4,6-Dinitro-2-methylphenol	ND		0.50	5.0
Anthracene	ND		0.070	1.0
Benzyl alcohol	ND		0.50	10
Bis(2-chloroethoxy)methane	ND		0.50	5.0
Bis(2-chloroethyl)ether	ND		0.50	5.0
Butyl benzyl phthalate	ND		0.50	5.0
Caprolactam	ND		0.50	5.0
Benzo[a]anthracene	ND		0.17	0.30
Chrysene	ND		0.17	1.0
Benzo[b]fluoranthene	ND		0.14	0.30

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090923-1.b\V45234.D		
Lims ID:	CCVIS	Client ID:	
Inject. Date:	22-Sep-2009 16:46:30	Dil. Factor:	1.0000
Sample Type:	CCVIS, Cal Verification ISTD Check		
Sample ID:	CCVIS		
Operator:	CR	Instrument ID:	HP #1 GC/MS
Vol. Injected:	1.0000	ALS Bottle#:	2
Lims Batch ID:	49326	Lims Sample ID:	3
Sublist:	chrom-WES1SOIL*sub5		
Detector:	MS SCAN		
Method:	\\wessvr06\chromdata\HPGCMS1.i\20090923-1.b\WES1SOIL.m		
Last Update:	23-Sep-2009 10:47:20	Calib Date:	08-Sep-2009 18:49:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\wessvr06\chromdata\HPGCMS1.i\20090908-1.b\V44795.D		
Limit Group:	VMS - 8260 VOA Calibration		
Integrator:	RTE		
Process Host:	WESVOAJESS		
Reviewed By:	rouleauc	Date:	23-Sep-2009 10:47:19

WARNING: Sample Limit Group Activation Date Newer Than Method Date
Please re-read the Limit Groups into the Method
Sample Activation Date: 01-Jan-2049 00:00:00
Method Activation Date: 14-Jan-2009 16:08:52

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
1 Dichlorodifluoromethane	85	1.631	1.631	0.000	223732	17.6	M
2 Chloromethane	50	1.817	1.817	0.000	433108	19.6	
3 Vinyl chloride	62	1.915	1.915	0.000	290305	18.6	
4 Bromomethane	94	2.272	2.272	0.000	157768	20.1	
5 Chloroethane	64	2.411	2.411	0.000	164201	19.2	
6 Trichlorofluoromethane	101	2.541	2.541	0.000	236757	17.4	
7 Ethyl ether	59	2.861	2.861	0.000	102352	15.9	
8 1,1-Dichloroethene	96	3.057	3.057	0.000	160430	19.9	
9 Ethanol	45	3.068	3.068	0.000	49711	1160.3	
10 Carbon disulfide	76	3.068	3.068	0.000	644713	17.6	
11 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.130	3.130	0.000	82459	16.9	
12 Acrolein	56	3.398	3.398	0.000	697159	861.5	
13 Isopropyl alcohol	45	3.564	3.564	0.000	244183	891.2	
14 Methylene Chloride	84	3.626	3.626	0.000	176723	19.2	
15 Acetone	43	3.677	3.677	0.000	292022	212.4	
16 trans-1,2-Dichloroethene	61	3.770	3.770	0.000	341195	18.4	
17 Methyl acetate	43	3.796	3.796	0.000	758907	198.3	
18 Hexane	57	3.848	3.848	0.000	382806	17.1	
19 Methyl tert-butyl ether	73	3.879	3.879	0.000	271742	14.8	
20 2-Methyl-2-propanol	59	3.972	3.972	0.000	60873	153.8	
21 Isopropyl ether	45	4.225	4.225	0.000	887213	17.0	
22 1,1-Dichloroethane	63	4.334	4.334	0.000	380746	19.5	
23 Acrylonitrile	53	4.401	4.401	0.000	28368	16.5	
24 Tert-butyl ethyl ether	59	4.546	4.546	0.000	500622	15.9	
25 Vinyl acetate	43	4.566	4.566	0.000	2085775	138.1	
26 cis-1,2-Dichloroethene	61	4.804	4.804	0.000	297884	18.4	
27 2,2-Dichloropropane	77	4.907	4.907	0.000	264654	21.6	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
28 Cyclohexane	56	4.975	4.975	0.000	389802	16.8	
29 Chlorobromomethane	130	4.980	4.980	0.000	61656	16.9	
30 Chloroform	83	5.042	5.042	0.000	289623	18.9	
31 Ethyl acetate	43	5.155	5.155	0.000	879349	170.5	
32 Carbon tetrachloride	117	5.155	5.155	0.000	184640	19.2	
33 Tetrahydrofuran	42	5.176	5.176	0.000	303103	164.5	
34 sec-Butyl Alcohol	45	5.186	5.186	0.000	402134	803.5	
$ 35 Dibromofluoromethane	113	5.202	5.202	0.000	112167	18.3	
36 1,1,1-Trichloroethane	97	5.217	5.217	0.000	255669	18.6	
37 2-Butanone (MEK)	43	5.316	5.316	0.000	410574	172.4	
38 1,1-Dichloropropene	75	5.321	5.321	0.000	253477	19.3	
39 n-Heptane	43	5.497	5.497	0.000	418076	17.8	
40 Benzene	78	5.538	5.538	0.000	704907	19.8	
41 Tert-amyl methyl ether	73	5.631	5.631	0.000	319426	15.9	
* 42 1,2-Dichloroethane-d4 ISTD	102	5.652	5.652	0.000	20654	20.0	
43 1,2-Dichloroethane	62	5.708	5.708	0.000	148984	17.4	
* 44 Fluorobenzene	96	5.879	5.879	0.000	525989	20.0	
45 2,4,4-Trimethyl-1-pentene	55	5.905	5.905	0.000	165604	18.3	
46 Isopropyl acetate	43	5.910	5.910	0.000	1801507	165.0	
47 Methylcyclohexane	83	6.003	6.003	0.000	286164	17.3	
48 Trichloroethene	95	6.013	6.013	0.000	169637	21.3	
49 2,4,4-Trimethyl-2-pentene	112	6.039	6.039	0.000	88109	17.9	
50 Dibromomethane	93	6.360	6.360	0.000	53880	17.2	
51 1,2-Dichloropropane	63	6.442	6.442	0.000	155139	21.0	
52 Dichlorobromomethane	83	6.484	6.484	0.000	162669	17.9	
53 Methyl methacrylate	69	6.613	6.613	0.000	37766	16.3	
54 1,4-Dioxane	88	6.654	6.654	0.000	4729	213.4	
55 n-Propyl acetate	43	6.716	6.716	0.000	1119544	171.3	
56 2-Chloroethyl vinyl ether	63	6.933	6.933	0.000	308076	306.8	
57 cis-1,3-Dichloropropene	75	6.980	6.980	0.000	197497	18.9	
$ 58 Toluene-d8 (Surr)	98	7.130	7.130	0.000	488143	20.9	5
59 Toluene	92	7.166	7.166	0.000	389216	21.6	
60 Tetrachloroethene	164	7.460	7.460	0.000	106514	21.7	
61 4-Methyl-2-pentanone (MIBK)	43	7.460	7.460	0.000	846367	157.5	
62 trans-1,3-Dichloropropene	75	7.486	7.486	0.000	136054	17.8	
63 Isobutyl acetate	43	7.548	7.548	0.000	2506140	162.7	
64 1,1,2-Trichloroethane	83	7.610	7.610	0.000	58343	17.8	
65 Chlorodibromomethane	129	7.750	7.750	0.000	67001	16.9	
66 1,3-Dichloropropane	76	7.822	7.822	0.000	129587	17.4	
67 Ethylene Dibromide	107	7.936	7.936	0.000	58710	17.7	
68 n-Butyl acetate	43	8.018	8.018	0.000	1343829	154.8	
69 2-Hexanone	43	8.101	8.101	0.000	554927	165.8	
* 70 Chlorobenzene-d5	117	8.323	8.323	0.000	323542	20.0	
71 Chlorobenzene	112	8.334	8.334	0.000	354585	20.1	
72 Ethylbenzene	91	8.349	8.349	0.000	743331	21.6	
73 1,1,1,2-Tetrachloroethane	131	8.380	8.380	0.000	99646	18.6	
74 m-Xylene & p-Xylene	91	8.463	8.463	0.000	1137060	40.2	
75 o-Xylene	91	8.794	8.794	0.000	592241	19.3	
76 Styrene	104	8.830	8.830	0.000	390210	18.7	
77 Bromoform	173	8.856	8.856	0.000	36085	16.8	
78 Isopropylbenzene	105	9.031	9.031	0.000	742754	20.4	
$ 80 4-Bromofluorobenzene	95	9.254	9.254	0.000	165988	17.9	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
81 Bromobenzene	77	9.341	9.341	0.000	278550	16.9	
82 N-Propylbenzene	91	9.352	9.352	0.000	919994	19.6	
83 1,1,2,2-Tetrachloroethane	83	9.403	9.403	0.000	74081	16.4	
84 2-Chlorotoluene	91	9.476	9.476	0.000	578340	18.6	
85 1,3,5-Trimethylbenzene	105	9.502	9.502	0.000	584466	19.5	
86 1,2,3-Trichloropropane	110	9.517	9.517	0.000	16574	16.4	
87 trans-1,4-Dichloro-2-butene	53	9.543	9.543	0.000	26129	15.1	
88 4-Chlorotoluene	91	9.610	9.610	0.000	499928	18.3	
89 tert-Butylbenzene	119	9.750	9.750	0.000	479037	20.1	
90 1,2,4-Trimethylbenzene	105	9.807	9.807	0.000	567605	18.6	
91 sec-Butylbenzene	105	9.889	9.889	0.000	813255	20.0	
92 4-Isopropyltoluene	119	9.998	9.998	0.000	599269	19.5	
93 1,3-Dichlorobenzene	146	10.070	10.070	0.000	234118	17.2	
* 94 1,4-Dichlorobenzene-d4	152	10.127	10.127	0.000	130876	20.0	
95 1,4-Dichlorobenzene	146	10.142	10.142	0.000	226786	19.5	
96 n-Butylbenzene	91	10.344	10.344	0.000	668261	22.1	
97 1,2-Dichlorobenzene	146	10.494	10.494	0.000	185338	19.0	
98 1,2-Dibromo-3-Chloropropane	157	11.269	11.269	0.000	7960	15.8	
99 1,3,5-Trichlorobenzene	180	11.295	11.295	0.000	182122	21.5	
100 Hexachlorobutadiene	225	12.024	12.024	0.000	72552	21.4	
101 1,2,4-Trichlorobenzene	180	12.070	12.070	0.000	121937	19.1	
102 Naphthalene	128	12.535	12.535	0.000	137589	16.3	
103 1,2,3-Trichlorobenzene	180	12.809	12.809	0.000	88169	18.7	

QC Flag Legend

Processing Flags
5 - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

Report Date: 23-Sep-2009 10:47:20 Chrom Revision: 1.1 20-Sep-2009 21:03:36

Data File: \\wessvr06\chromdata\HPGCMS1.i\20090923-1.b\V45234.D

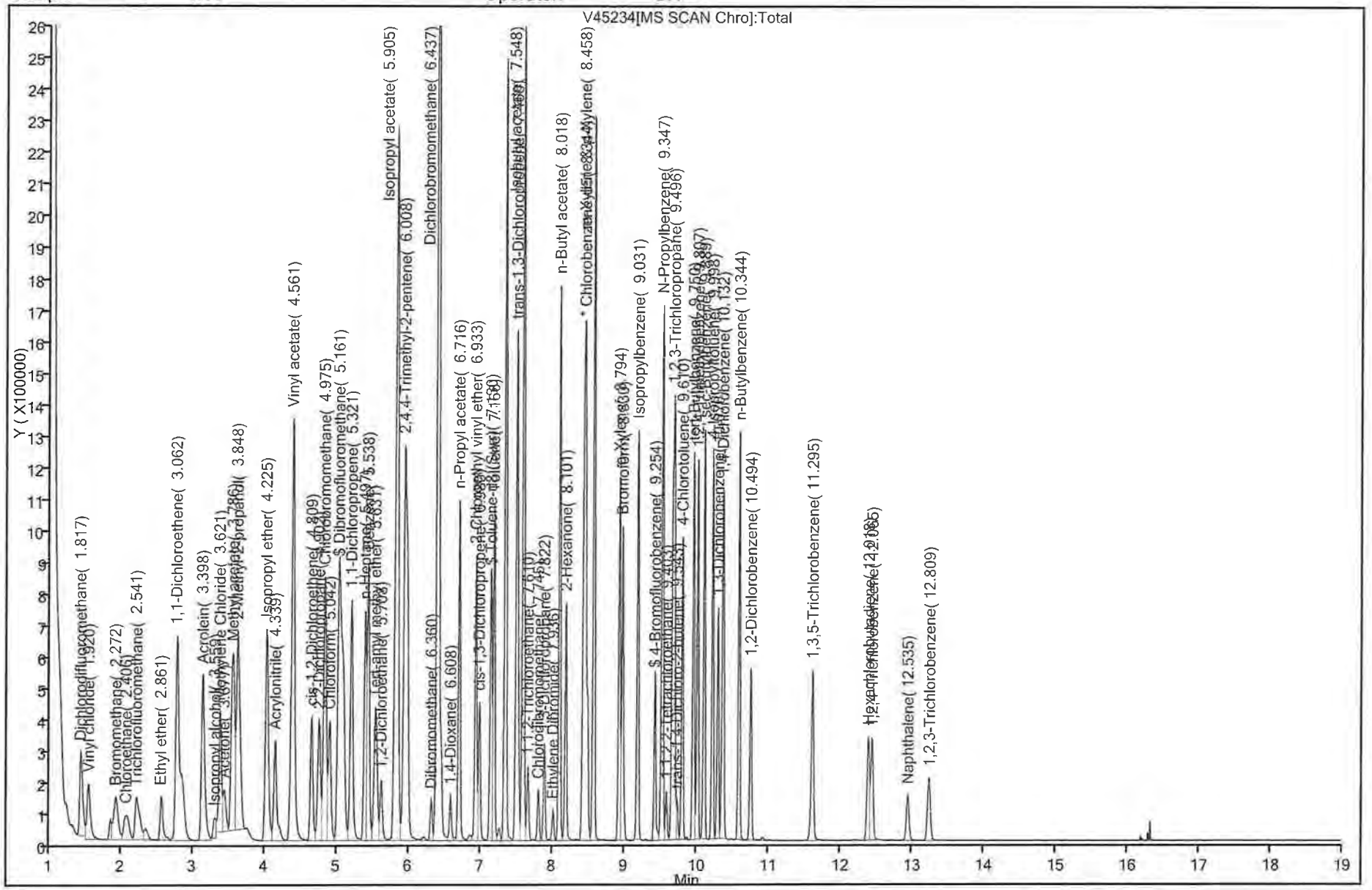
Inj Date: 22-Sep-2009 16:46:30 Limit Group: VMS - 8260 VOA Calibration

Lims Batch ID: 49326 Lims Sample ID: 3

Client ID: Instrument: HP #1 GC/MS

Sample Info: CCVIS

Sample Amount: 1.00 Operator: CR



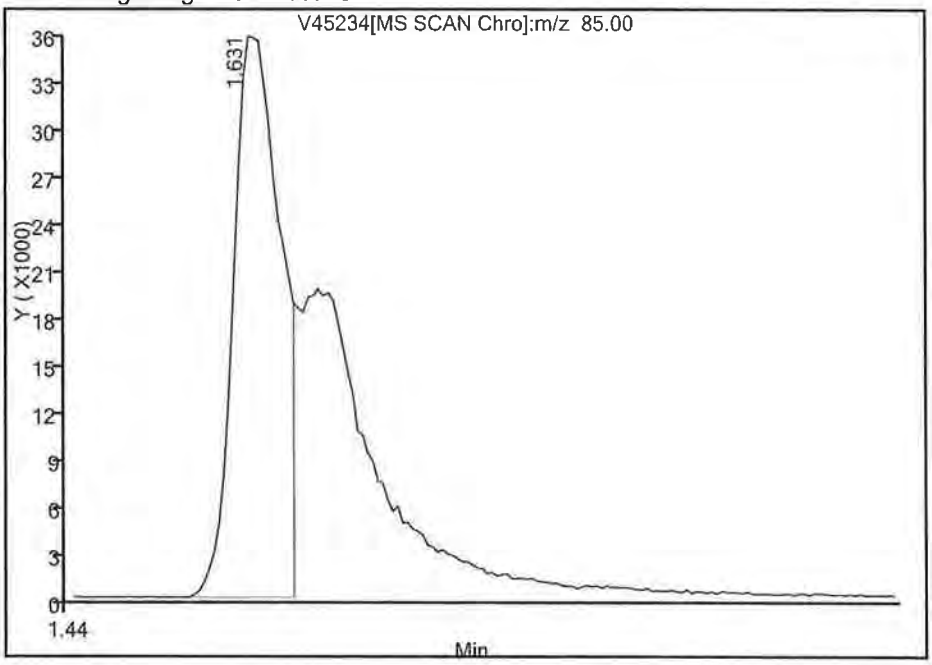
Chrom Revision: 1.1 20-Sep-2009 21:03:36
Manual Integration/User Assign Peak Report

Data File:	\\wessvr06\chromdata\HPGCMS1.i\20090923-1.b\V45234.D		
Inj Date:	22-Sep-2009 16:46:30	Limit Group:	VMS - 8260 VOA Calibration
Lims Batch ID:	49326	Lims Sample ID:	3
Client ID:		Instrument:	HP #1 GC/MS
Sample Info:	CCVIS		
Sample Amount:	1.00	Operator:	CR

1 Dichlorodifluoromethane, Number: 1, m/z: 85 Type: quant, RT: 1.63

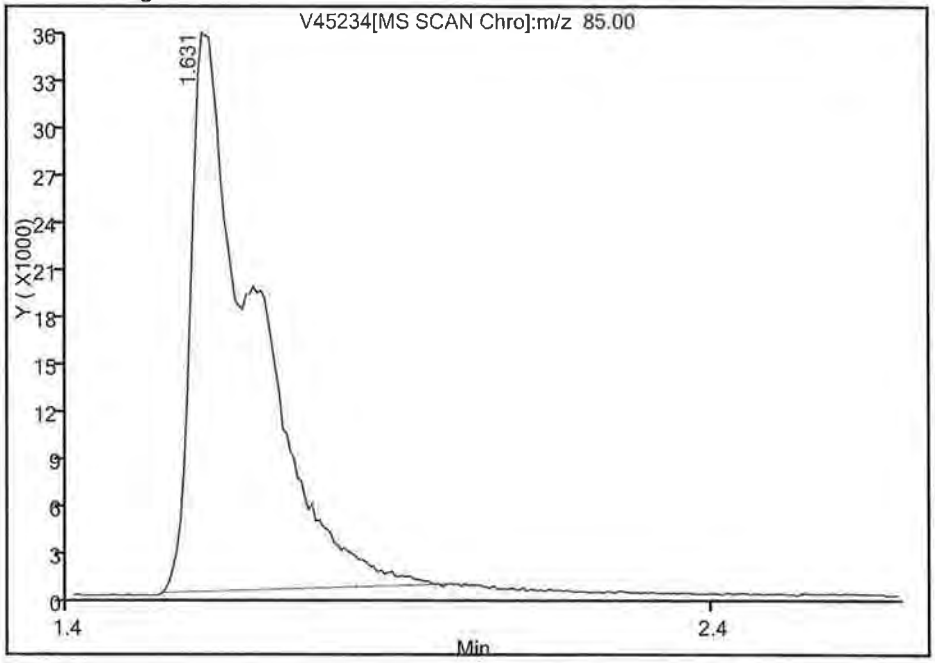
Processing Integration Results

RT: 1.63
Response: 122902
Amount: 9.682681



Manual Integration Results

RT: 1.63
Response: 223732
Amount: 17.626448



Reviewer: rouleauc, 23-Sep-2009 10:47:19
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Lab File ID: V44787.D BFB Injection Date: 09/08/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:37

Analysis Batch No.: 48701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.2	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	63.2	
175	5.0 - 9.0 % of mass 174	5.1	(8.0)1
176	95.0 - 101.0 % of mass 174	61.0	(96.4)1
177	5.0 - 9.0 % of mass 176	4.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-48701/2	V44788.D	09/08/2009	16:02
	STD0005 360-48701/3	V44790.D	09/08/2009	16:50
	STD001 360-48701/4	V44791.D	09/08/2009	17:14
	STD005 360-48701/5	V44792.D	09/08/2009	17:38
	STD010 360-48701/6	V44793.D	09/08/2009	18:02
	STD040 360-48701/7	V44794.D	09/08/2009	18:25
	STD080 360-48701/8	V44795.D	09/08/2009	18:49
	ICV 360-48701/9	V44796.D	09/08/2009	19:13

1,4-Dioxane UJ RRF < 0.05

Acetone
Dichlorodifluoromethane > ICV% > 30% J/UJ

4-11-10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Lab File ID: V06995.D BFB Injection Date: 09/18/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 17:04

Analysis Batch No.: 49192

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.9	
75	30.0 - 60.0 % of mass 95	51.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	1.1	(1.4)1
174	50.0 - 120.00 % of mass 95	78.6	
175	5.0 - 9.0 % of mass 174	5.8	(7.3)1
176	95.0 - 101.0 % of mass 174	75.7	(96.4)1
177	5.0 - 9.0 % of mass 176	5.2	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 360-49192/2	V06996.D	09/18/2009	17:26
	STD03 360-49192/4	V06998.D	09/18/2009	18:08
	STD05 360-49192/5	V06999.D	09/18/2009	18:29
	STD1 360-49192/6	V07000.D	09/18/2009	18:50
	STD5 360-49192/7	V07001.D	09/18/2009	19:11
	STD10 360-49192/8	V07002.D	09/18/2009	19:32
	STD40 360-49192/9	V07003.D	09/18/2009	19:53
	STD80 360-49192/10	V07004.D	09/18/2009	20:14
	STD160 360-49192/11	V07005.D	09/18/2009	20:34

4-11-10 TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Lab File ID: V07111.D BFB Injection Date: 09/24/2009

Instrument ID: Agilent#2 GC/MS BFB Injection Time: 15:27

Analysis Batch No.: 49481

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.4	
75	30.0 - 60.0 % of mass 95	50.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	79.7	
175	5.0 - 9.0 % of mass 174	6.0	(7.6)1
176	95.0 - 101.0 % of mass 174	77.1	(96.8)1
177	5.0 - 9.0 % of mass 176	4.3	(5.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 360-49481/2	V07112.D	09/24/2009	15:48
	LCS 360-49481/3	V07113.D	09/24/2009	16:09
	LCSD 360-49481/4	V07114.D	09/24/2009	16:30
	MB 360-49481/6	V07116.D	09/24/2009	17:11
OC-EBK-012	360-24686-20	V07123.D	09/24/2009	19:38

4-11-10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Lab File ID: V45233.D BFB Injection Date: 09/22/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 16:22

Analysis Batch No.: 49326

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.0	
75	30.0 - 60.0 % of mass 95	49.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	67.3	
175	5.0 - 9.0 % of mass 174	5.5	(8.2)1
176	95.0 - 101.0 % of mass 174	65.0	(96.7)1
177	5.0 - 9.0 % of mass 176	4.5	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49326/3	V45234.D	09/22/2009	16:46
	LCS 360-49322/1-A	V45235.D	09/22/2009	17:10
	LCSD 360-49322/2-A	V45236.D	09/22/2009	17:33
	MB 360-49322/3-A	V45238.D	09/22/2009	18:20
OC-SB-473-4.0/6.0-XXX	360-24686-9	V45242.D	09/22/2009	19:57
OC-SB-453-0.0/1.0-XXX	360-24686-5	V45251.D	09/22/2009	23:33
OC-SB-453-1.0/6.0-XXX	360-24686-6	V45252.D	09/22/2009	23:58
OC-SB-473-0.0/1.0-XXX	360-24686-7	V45253.D	09/23/2009	00:22
OC-SS-453-0.0/1.0-XXX	360-24686-10	V45254.D	09/23/2009	00:46
OC-SS-457-0.0/1.0-XXX	360-24686-11	V45255.D	09/23/2009	01:09
OC-TBK-022	360-24686-12	V45256.D	09/23/2009	01:34

Clean, No detects

LCS LCSD
Dichlorodifluoromethane 58 60
Methyl Acetate 135 134

Ethyl Ether -25.2
MTBE -26.1

4-11-10
TC

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Lab File ID: V45270.D BFB Injection Date: 09/23/2009

Instrument ID: HP #1 GC/MS BFB Injection Time: 15:59

Analysis Batch No.: 49369

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.5	
75	30.0 - 60.0 % of mass 95	49.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	66.1	
175	5.0 - 9.0 % of mass 174	5.4	(8.1)1
176	95.0 - 101.0 % of mass 174	64.8	(98.1)1
177	5.0 - 9.0 % of mass 176	4.3	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 360-49369/3	V45271.D	09/23/2009	16:23
	LCS 360-49366/1-A	V45272.D	09/23/2009	16:46
	LCSD 360-49366/2-A	V45273.D	09/23/2009	17:11
	MB 360-49366/3-A	V45275.D	09/23/2009	17:59
OC-SB-435-0.0/1.0-XXX	360-24686-2	V45281.D	09/23/2009	20:22
OC-SB-435-11/15-XXX	360-24686-3	V45282.D	09/23/2009	20:46
OC-SB-435-6.0/10-XXX	360-24686-4	V45283.D	09/23/2009	21:10
OC-SS-456-0.0/1.0-XXX	360-24686-13	V45284.D	09/23/2009	21:34
OC-SS-458-0.0/1.0-XXX	360-24686-14	V45285.D	09/23/2009	21:59
OC-SS-459-0.0/1.0-XXX	360-24686-15	V45286.D	09/23/2009	22:23
OC-SS-461-0.0/1.0-XXX	360-24686-16	V45287.D	09/23/2009	22:48

%Rec
LCS LCSD
Dichlorodifluoromethane 60 53

Unknown @ 9.61 min .568
No Samples Qualified
Unknown @ 9.61 not reported in Samples

w/in control

4-11-10 TC

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Sample No.: CCV 360-49481/2 Date Analyzed: 09/24/2009 15:48

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V07112.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20918	6.15	403686	6.47	214392	9.52
UPPER LIMIT		41836	6.65	807372	6.97	428784	10.02
LOWER LIMIT		10459	5.65	201843	5.97	107196	9.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49481/3		20117	6.15	400887	6.46	210239	9.52
LCSD 360-49481/4		21417	6.15	424896	6.46	220729	9.52
MB 360-49481/6		17565	6.15	317611	6.46	158196	9.52
360-24686-20	OC-EBK-012	17024	6.15	295972	6.48	149912	9.52

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC 4/12/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Sample No.: CCV 360-49481/2 Date Analyzed: 09/24/2009 15:48

Instrument ID: Agilent#2 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V07112.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		99586	11.49				
UPPER LIMIT		199172	11.99				
LOWER LIMIT		49793	10.99				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49481/3		95301	11.49				
LCSD 360-49481/4		100077	11.49				
MB 360-49481/6		57694	11.49				
360-24686-20	OC-EBK-012	54524	11.49				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

TC
4/12/10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Sample No.: CCVIS 360-49326/3 Date Analyzed: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45234.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		20654	5.65	525989	5.88	323542	8.32
UPPER LIMIT		41308	6.15	1051978	6.38	647084	8.82
LOWER LIMIT		10327	5.15	262995	5.38	161771	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49322/1-A		22932	5.66	509023	5.88	303650	8.32
LCSD 360-49322/2-A		21089	5.65	498711	5.88	292785	8.32
MB 360-49322/3-A		18137	5.65	423384	5.88	250329	8.31
360-24686-9	OC-SB-473-4.0/6.0-XXX	19159	5.65	457345	5.88	282497	8.32
360-24686-5	OC-SB-453-0.0/1.0-XXX	19168	5.66	422398	5.88	249958	8.32
360-24686-6	OC-SB-453-1.0/6.0-XXX	20602	5.65	474805	5.88	292248	8.32
360-24686-7	OC-SB-473-0.0/1.0-XXX	20224	5.65	443009	5.88	267671	8.32
360-24686-10	OC-SS-453-0.0/1.0-XXX	20385	5.65	462664	5.88	284656	8.32
360-24686-11	OC-SS-457-0.0/1.0-XXX	20162	5.65	438481	5.88	268356	8.32
360-24686-12	OC-TBK-022	22863	5.65	528851	5.88	320598	8.32

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/12/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Sample No.: CCVIS 360-49326/3 Date Analyzed: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45234.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		130876	10.13				
UPPER LIMIT		261752	10.63				
LOWER LIMIT		65438	9.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49322/1-A		137113	10.13				
LCSD 360-49322/2-A		133281	10.13				
MB 360-49322/3-A		119009	10.12				
360-24686-9	OC-SB-473-4.0/6.0-XXX	130458	10.13				
360-24686-5	OC-SB-453-0.0/1.0-XXX	109107	10.13				
360-24686-6	OC-SB-453-1.0/6.0-XXX	126140	10.12				
360-24686-7	OC-SB-473-0.0/1.0-XXX	119350	10.13				
360-24686-10	OC-SS-453-0.0/1.0-XXX	123903	10.13				
360-24686-11	OC-SS-457-0.0/1.0-XXX	121129	10.13				
360-24686-12	OC-TBK-022	130219	10.12				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC
4/12/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Sample No.: CCVIS 360-49369/3 Date Analyzed: 09/23/2009 16:23

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45271.D Heated Purge: (Y/N) N

		12DCE		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		21689	5.67	504253	5.89	320328	8.33
UPPER LIMIT		43378	6.17	1008506	6.39	640656	8.83
LOWER LIMIT		10845	5.17	252127	5.39	160164	7.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49366/1-A		22438	5.67	524409	5.89	336941	8.33
LCSD 360-49366/2-A		22654	5.67	518497	5.89	340103	8.33
MB 360-49366/3-A		19075	5.67	430925	5.89	264848	8.33
360-24686-2	OC-SB-435-0.0/1.0-XXX	19638	5.67	453550	5.89	273768	8.33
360-24686-3	OC-SB-435-11/15-XXX	20772	5.67	474311	5.89	299473	8.33
360-24686-4	OC-SB-435-6.0/10-XXX	19687	5.67	457860	5.89	280935	8.33
360-24686-13	OC-SS-456-0.0/1.0-XXX	21078	5.67	472183	5.89	293044	8.33
360-24686-14	OC-SS-458-0.0/1.0-XXX	22558	5.67	503295	5.89	316685	8.33
360-24686-15	OC-SS-459-0.0/1.0-XXX	24319	5.67	523002	5.90	331771	8.34
360-24686-16	OC-SS-461-0.0/1.0-XXX	21446	5.67	468858	5.90	288014	8.33

12DCE = 1,2-Dichloroethane-d4 ISTD
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC 4/12/10

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Sample No.: CCVIS 360-49369/3 Date Analyzed: 09/23/2009 16:23

Instrument ID: HP #1 GC/MS GC Column: RTX-VMS ID: 0.25(um)

Lab File ID (Standard): V45271.D Heated Purge: (Y/N) N

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		138632	10.14				
UPPER LIMIT		277264	10.64				
LOWER LIMIT		69316	9.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 360-49366/1-A		140686	10.14				
LCSD 360-49366/2-A		144721	10.14				
MB 360-49366/3-A		127593	10.14				
360-24686-2	OC-SB-435-0.0/1.0-XXX	111686	10.14				
360-24686-3	OC-SB-435-11/15-XXX	138026	10.14				
360-24686-4	OC-SB-435-6.0/10-XXX	134427	10.14				
360-24686-13	OC-SS-456-0.0/1.0-XXX	133146	10.14				
360-24686-14	OC-SS-458-0.0/1.0-XXX	139222	10.14				
360-24686-15	OC-SS-459-0.0/1.0-XXX	146035	10.14				
360-24686-16	OC-SS-461-0.0/1.0-XXX	137138	10.14				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

TC
4/12/10

FORM VIII 8260B

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DBFM %Rec	TOL %Rec	BFB %Rec
360-24686-2	OC-SB-435-0.0/1.0-XX	103	104	92
360-24686-3	OC-SB-435-11/15-XX	103	104	97
360-24686-4	OC-SB-435-6.0/10-XX	104	103	100
360-24686-5	OC-SB-453-0.0/1.0-XX	105	100	95
360-24686-6	OC-SB-453-1.0/6.0-XX	100	104	95
360-24686-7	OC-SB-473-0.0/1.0-XX	103	103	97
360-24686-9	OC-SB-473-4.0/6.0-XX	101	103	98
360-24686-10	OC-SS-453-0.0/1.0-XX	101	104	95
360-24686-11	OC-SS-457-0.0/1.0-XX	102	103	98
360-24686-12	OC-TBK-022	96	105	93
360-24686-13	OC-SS-456-0.0/1.0-XX	105	103	96
360-24686-14	OC-SS-458-0.0/1.0-XX	101	104	94
360-24686-15	OC-SS-459-0.0/1.0-XX	102	106	94
360-24686-16	OC-SS-461-0.0/1.0-XX	106	101	98
MB 360-49322/3-A		102	100	102
MB 360-49366/3-A		105	103	101
LCS 360-49322/1-A		100	101	97
LCS 360-49366/1-A		97	105	89
LCSD 360-49322/2-A		97	101	97
LCSD 360-49366/2-A		98	106	89

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TOL %Rec	BFB %Rec
360-24686-20	OC-EBK-012	118	93	92
MB 360-49481/6		108	93	94
LCS 360-49481/3		98	100	107
LCSD 360-49481/4		96	101	109

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Method Blank - Batch: 360-49322

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49322/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/22/2009 1820
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45238.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
Acetone	ND		18	250
4-Chlorotoluene	ND		1.0	2.5
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Method Blank - Batch: 360-49322

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49322/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/22/2009 1820
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45238.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	70 - 130
Dibromofluoromethane	102	70 - 130
Toluene-d8 (Surr)	100	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Method Blank TICs- Batch: 360-49322

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4-11-16

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49322

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49322/1-A	Analysis Batch: 360-49326	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49322	Lab File ID: V45235.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 5 g
Date Analyzed:	09/22/2009 1710		Final Weight/Volume: 5 g
Date Prepared:	09/22/2009 1500		

LCSD Lab Sample ID:	LCSD 360-49322/2-A	Analysis Batch: 360-49326	Instrument ID: HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch: 360-49322	Lab File ID: V45236.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 5 g
Date Analyzed:	09/22/2009 1733		Final Weight/Volume: 5 g
Date Prepared:	09/22/2009 1500		

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	92	100	70 - 130	8	25		
1,1,1,2-Tetrachloroethane	102	107	70 - 130	5	25		
1,1,2,2-Tetrachloroethane	95	95	70 - 130	1	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	89	90	70 - 130	1	25		
1,1,2-Trichloroethane	96	94	70 - 130	2	25		
1,1-Dichloroethane	102	107	70 - 130	5	25		
1,1-Dichloroethene	100	104	70 - 130	4	25		
1,1-Dichloropropene	95	99	70 - 130	4	25		
1,2,3-Trichlorobenzene	105	104	70 - 130	1	25		
1,2,3-Trichloropropane	113	112	70 - 130	1	25		
1,2,4-Trichlorobenzene	104	105	70 - 130	0	25		
1,2,4-Trimethylbenzene	97	105	70 - 130	8	25		
1,2-Dibromo-3-Chloropropane	93	88	70 - 130	5	25		
Ethylene Dibromide	96	93	70 - 130	3	25		
1,2-Dichlorobenzene	98	102	70 - 130	3	25		
1,2-Dichloroethane	98	97	70 - 130	1	25		
1,2-Dichloropropane	107	110	70 - 130	3	25		
1,3,5-Trimethylbenzene	100	109	70 - 130	9	25		
1,3-Dichlorobenzene	96	100	70 - 130	4	25		
1,3-Dichloropropane	93	90	70 - 130	3	25		
1,4-Dichlorobenzene	97	101	70 - 130	4	25		
1,4-Dioxane	109	100	70 - 130	9	25		
2,2-Dichloropropane	109	122	70 - 130	11	25		
2,4,4-Trimethyl-1-pentene	101	105	70 - 130	3	25		
2,4,4-Trimethyl-2-pentene	97	97	70 - 130	0	25		
2-Chlorotoluene	96	103	70 - 130	8	25		
2-Hexanone	89	82	70 - 130	7	25		
4-Chlorotoluene	96	102	70 - 130	6	25		
Acetone	108	88	70 - 130	21	25		
Benzene	98	103	70 - 130	4	25		
Bromobenzene	92	96	70 - 130	5	25		
Chlorobromomethane	97	98	70 - 130	1	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49322

Method: 8260B
Preparation: 5035

LCS Lab Sample ID: LCS 360-49322/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/22/2009 1710
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45235.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

LCSD Lab Sample ID: LCSD 360-49322/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/22/2009 1733
Date Prepared: 09/22/2009 1500

Analysis Batch: 360-49326
Prep Batch: 360-49322
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45236.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	95	95	70 - 130	0	25		
Bromoform	88	86	70 - 130	3	25		
Bromomethane	100	114	70 - 130	13	25		
n-Butylbenzene	102	110	70 - 130	7	25		
Carbon disulfide	94	100	70 - 130	7	25		
Carbon tetrachloride	92	97	70 - 130	6	25		
Chlorobenzene	100	105	70 - 130	5	25		
Chloroethane	91	102	70 - 130	12	25		
Chloroform	102	105	70 - 130	4	25		
Chloromethane	90	101	70 - 130	11	25		
cis-1,2-Dichloroethene	96	102	70 - 130	6	25		
cis-1,3-Dichloropropene	93	92	70 - 130	1	25		
Cyclohexane	90	93	70 - 130	3	25		
Chlorodibromomethane	90	89	70 - 130	1	25		
Dibromomethane	97	97	70 - 130	0	25		
Dichlorodifluoromethane	58	60	70 - 130	4	25	*	*
Ethyl ether	104	102	70 - 130	2	25		
Isopropyl ether	98	100	70 - 130	2	25		
Tert-butyl ethyl ether	100	100	70 - 130	0	25		
Ethylbenzene	104	111	70 - 130	7	25		
Hexachlorobutadiene	95	97	70 - 130	3	25		
Isopropylbenzene	102	110	70 - 130	8	25		
Methyl acetate	135	134	70 - 130	1	25	*	*
2-Butanone (MEK)	100	90	70 - 130	10	25		
4-Methyl-2-pentanone (MIBK)	96	91	70 - 130	5	25		
Methyl tert-butyl ether	96	95	70 - 130	1	25		
Methylcyclohexane	94	95	70 - 130	1	25		
Methylene Chloride	106	110	70 - 130	4	25		
m-Xylene & p-Xylene	97	103	70 - 130	6	25		
Naphthalene	95	93	70 - 130	3	25		
N-Propylbenzene	98	106	70 - 130	8	25		
o-Xylene	99	105	70 - 130	7	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49322

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49322/1-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45235.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1710			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

LCSD Lab Sample ID:	LCSD 360-49322/2-A	Analysis Batch:	360-49326	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49322	Lab File ID:	V45236.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/22/2009 1733			Final Weight/Volume:	5 g
Date Prepared:	09/22/2009 1500				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	102	111	70 - 130	9	25		
sec-Butylbenzene	100	109	70 - 130	8	25		
Styrene	97	103	70 - 130	6	25		
Tert-amyl methyl ether	103	101	70 - 130	2	25		
tert-Butylbenzene	101	110	70 - 130	8	25		
Tetrachloroethene	99	101	70 - 130	3	25		
Tetrahydrofuran	113	107	70 - 130	6	25		
Toluene	101	105	70 - 130	4	25		
trans-1,2-Dichloroethene	92	98	70 - 130	6	25		
trans-1,3-Dichloropropene	92	89	70 - 130	3	25		
Trichloroethene	104	107	70 - 130	3	25		
Trichlorofluoromethane	84	89	70 - 130	5	25		
Vinyl chloride	88	97	70 - 130	9	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	97	70 - 130
Dibromofluoromethane	100	97	70 - 130
Toluene-d8 (Surr)	101	101	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10 TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Method Blank - Batch: 360-49366

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49366/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/23/2009 1759
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45275.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.0	2.5
1,1,2,2-Tetrachloroethane	ND		1.0	2.5
1,1,1,2-Tetrachloroethane	ND		1.0	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	12
1,1,2-Trichloroethane	ND		1.0	2.5
1,1-Dichloroethane	ND		1.0	2.5
1,1-Dichloroethene	ND		1.0	2.5
1,1-Dichloropropene	ND		1.0	2.5
1,2,3-Trichlorobenzene	ND		1.0	2.5
1,2,3-Trichloropropane	ND		1.5	2.5
1,2,4-Trichlorobenzene	ND		1.0	2.5
1,2,4-Trimethylbenzene	ND		1.0	2.5
1,2-Dibromo-3-Chloropropane	ND		1.8	25
Ethylene Dibromide	ND		1.0	2.5
1,2-Dichlorobenzene	ND		1.0	2.5
1,2-Dichloroethane	ND		1.0	2.5
1,2-Dichloropropane	ND		1.0	2.5
1,3,5-Trimethylbenzene	ND		1.0	2.5
1,3-Dichlorobenzene	ND		1.0	2.5
1,3-Dichloropropane	ND		1.0	2.5
1,4-Dichlorobenzene	ND		1.0	2.5
1,4-Dioxane	ND		33	250
2,2-Dichloropropane	ND		1.0	2.5
2,4,4-Trimethyl-1-pentene	ND		1.0	5.0
2,4,4-Trimethyl-2-pentene	ND		1.0	5.0
2-Chlorotoluene	ND		1.0	2.5
2-Hexanone	ND		5.1	25
Acetone	ND		18	250
4-Chlorotoluene	ND		1.0	2.5
Benzene	ND		1.0	2.5
Bromobenzene	ND		1.0	2.5
Chlorobromomethane	ND		1.0	2.5
Dichlorobromomethane	ND		1.0	2.5
Bromoform	ND		1.0	2.5
Bromomethane	ND		1.0	5.0
n-Butylbenzene	ND		1.0	2.5
Carbon disulfide	ND		1.0	2.5
Carbon tetrachloride	ND		1.0	2.5
Chlorobenzene	ND		1.0	2.5
Chloroethane	ND		1.0	5.0
Chloroform	ND		1.0	2.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Method Blank - Batch: 360-49366

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 360-49366/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/23/2009 1759
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45275.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	Result	Qual	MDL	RL
Chloromethane	ND		1.0	5.0
cis-1,2-Dichloroethene	ND		1.0	2.5
cis-1,3-Dichloropropene	ND		1.0	2.5
Cyclohexane	ND		2.6	25
Chlorodibromomethane	ND		1.0	2.5
Dibromomethane	ND		1.0	2.5
Dichlorodifluoromethane	ND		1.0	5.0
Ethyl ether	ND		1.0	2.5
Isopropyl ether	ND		1.0	2.5
Tert-butyl ethyl ether	ND		2.5	2.5
Ethylbenzene	ND		1.0	2.5
Hexachlorobutadiene	ND		1.0	2.5
Isopropylbenzene	ND		1.0	2.5
Methyl acetate	ND		16	50
2-Butanone (MEK)	ND		6.7	25
4-Methyl-2-pentanone (MIBK)	ND		5.2	25
Methyl tert-butyl ether	ND		1.0	2.5
Methylcyclohexane	ND		1.0	2.5
Methylene Chloride	ND		4.8	10
m-Xylene & p-Xylene	ND		1.0	5.0
Naphthalene	ND		1.0	25
N-Propylbenzene	ND		1.0	2.5
o-Xylene	ND		1.0	2.5
4-Isopropyltoluene	ND		1.0	2.5
sec-Butylbenzene	ND		1.0	2.5
Styrene	ND		1.0	2.5
Tert-amyl methyl ether	ND		1.0	2.5
tert-Butylbenzene	ND		1.0	2.5
Tetrachloroethene	ND		1.0	2.5
Tetrahydrofuran	ND		5.5	25
Toluene	ND		1.0	2.5
trans-1,2-Dichloroethene	ND		1.0	2.5
trans-1,3-Dichloropropene	ND		1.0	2.5
Trichloroethene	ND		1.0	2.5
Trichlorofluoromethane	ND		1.0	5.0
Vinyl chloride	ND		1.0	2.5

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	70 - 130
Dibromofluoromethane	105	70 - 130
Toluene-d8 (Surr)	103	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Method Blank TICs- Batch: 360-49366

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	9.61	0.568	T J

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49366

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 360-49366/1-A	Analysis Batch:	360-49369	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49366	Lab File ID:	V45272.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/23/2009 1646			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

LCSD Lab Sample ID:	LCSD 360-49366/2-A	Analysis Batch:	360-49369	Instrument ID:	HP 5890/5972 GC/MS
Client Matrix:	Solid	Prep Batch:	360-49366	Lab File ID:	V45273.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	09/23/2009 1711			Final Weight/Volume:	5 g
Date Prepared:	09/23/2009 1439				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	95	88	70 - 130	7	25		
1,1,1,2-Tetrachloroethane	95	92	70 - 130	4	25		
1,1,2,2-Tetrachloroethane	86	85	70 - 130	1	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	87	81	70 - 130	7	25		
1,1,2-Trichloroethane	94	97	70 - 130	3	25		
1,1-Dichloroethane	101	95	70 - 130	6	25		
1,1-Dichloroethene	100	92	70 - 130	8	25		
1,1-Dichloropropene	96	91	70 - 130	5	25		
1,2,3-Trichlorobenzene	100	102	70 - 130	2	25		
1,2,3-Trichloropropane	96	100	70 - 130	4	25		
1,2,4-Trichlorobenzene	101	102	70 - 130	1	25		
1,2,4-Trimethylbenzene	91	86	70 - 130	5	25		
1,2-Dibromo-3-Chloropropane	88	89	70 - 130	2	25		
Ethylene Dibromide	97	102	70 - 130	5	25		
1,2-Dichlorobenzene	95	93	70 - 130	2	25		
1,2-Dichloroethane	96	96	70 - 130	0	25		
1,2-Dichloropropane	107	104	70 - 130	2	25		
1,3,5-Trimethylbenzene	94	89	70 - 130	6	25		
1,3-Dichlorobenzene	88	86	70 - 130	3	25		
1,3-Dichloropropane	93	96	70 - 130	3	25		
1,4-Dichlorobenzene	97	93	70 - 130	5	25		
1,4-Dioxane	105	113	70 - 130	8	25		
2,2-Dichloropropane	112	99	70 - 130	12	25		
2,4,4-Trimethyl-1-pentene	94	85	70 - 130	10	25		
2,4,4-Trimethyl-2-pentene	93	85	70 - 130	9	25		
2-Chlorotoluene	90	86	70 - 130	5	25		
2-Hexanone	83	87	70 - 130	5	25		
4-Chlorotoluene	90	86	70 - 130	5	25		
Acetone	81	96	70 - 130	16	25		
Benzene	99	96	70 - 130	3	25		
Bromobenzene	84	82	70 - 130	3	25		
Chlorobromomethane	96	96	70 - 130	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC
4-11-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49366

Method: 8260B
Preparation: 5035

LCS Lab Sample ID: LCS 360-49366/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/23/2009 1646
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45272.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

LCSD Lab Sample ID: LCSD 360-49366/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/23/2009 1711
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45273.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorobromomethane	95	94	70 - 130	2	25		
Bromoform	87	88	70 - 130	1	25		
Bromomethane	110	102	70 - 130	8	25		
n-Butylbenzene	103	94	70 - 130	9	25		
Carbon disulfide	93	87	70 - 130	7	25		
Carbon tetrachloride	93	87	70 - 130	7	25		
Chlorobenzene	99	95	70 - 130	4	25		
Chloroethane	98	89	70 - 130	10	25		
Chloroform	101	95	70 - 130	6	25		
Chloromethane	97	87	70 - 130	10	25		
cis-1,2-Dichloroethene	95	91	70 - 130	4	25		
cis-1,3-Dichloropropene	95	96	70 - 130	1	25		
Cyclohexane	84	79	70 - 130	6	25		
Chlorodibromomethane	90	93	70 - 130	3	25		
Dibromomethane	96	97	70 - 130	2	25		
Dichlorodifluoromethane	60	53	70 - 130	12	25		
Ethyl ether	96	98	70 - 130	2	25		
Isopropyl ether	91	88	70 - 130	4	25		
Tert-butyl ethyl ether	91	90	70 - 130	2	25		
Ethylbenzene	102	96	70 - 130	6	25		
Hexachlorobutadiene	98	96	70 - 130	3	25		
Isopropylbenzene	98	91	70 - 130	7	25		
Methyl acetate	102	115	70 - 130	12	25		
2-Butanone (MEK)	86	92	70 - 130	7	25		
4-Methyl-2-pentanone (MIBK)	85	89	70 - 130	4	25		
Methyl tert-butyl ether	88	89	70 - 130	1	25		
Methylcyclohexane	87	82	70 - 130	7	25		
Methylene Chloride	105	104	70 - 130	1	25		
m-Xylene & p-Xylene	96	90	70 - 130	6	25		
Naphthalene	89	91	70 - 130	3	25		
N-Propylbenzene	93	87	70 - 130	6	25		
o-Xylene	93	88	70 - 130	6	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

TC 4-11-10

Client: Olin Corporation

Job Number: 360-24686-1
Sdg Number: OCRI-18

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-49366

Method: 8260B
Preparation: 5035

LCS Lab Sample ID: LCS 360-49366/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/23/2009 1646
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45272.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

LCSD Lab Sample ID: LCSD 360-49366/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/23/2009 1711
Date Prepared: 09/23/2009 1439

Analysis Batch: 360-49369
Prep Batch: 360-49366
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS
Lab File ID: V45273.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	97	92	70 - 130	6	25		
sec-Butylbenzene	94	88	70 - 130	7	25		
Styrene	93	89	70 - 130	4	25		
Tert-amyl methyl ether	92	91	70 - 130	1	25		
tert-Butylbenzene	96	90	70 - 130	6	25		
Tetrachloroethene	108	106	70 - 130	2	25		
Tetrahydrofuran	101	106	70 - 130	4	25		
Toluene	106	103	70 - 130	3	25		
trans-1,2-Dichloroethene	91	86	70 - 130	5	25		
trans-1,3-Dichloropropene	94	98	70 - 130	4	25		
Trichloroethene	108	105	70 - 130	3	25		
Trichlorofluoromethane	87	80	70 - 130	9	25		
Vinyl chloride	92	84	70 - 130	10	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	89	89	70 - 130
Dibromofluoromethane	97	98	70 - 130
Toluene-d8 (Surr)	105	106	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

4-11-10
TC

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4254		17.6	20.0	-11.9	30.0
Chloromethane	Ave	0.9034	0.8234	0.1000	19.6	20.0	-8.9	30.0
Vinyl chloride	Ave	0.6300	0.5519		18.6	20.0	-12.4	20.0
Bromomethane	Ave	0.3127	0.3000		20.1	20.0	-4.1	30.0
Chloroethane	Lin2		0.3122		19.2	20.0	-3.8	30.0
Trichlorofluoromethane	Ave	0.5183	0.4501		17.4	20.0	-13.2	30.0
Ethyl ether	Ave	0.2603	0.1946		15.9	20.0	-25.2	30.0
1,1-Dichloroethene	Ave	0.3201	0.3050		19.9	20.0	-4.7	20.0
Carbon disulfide	Ave	1.395	1.226		17.6	20.0	-12.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1568		16.9	20.0	-15.6	30.0
Acrolein	Ave	0.7836	0.6751		861	1000	-13.9	30.0
Methylene Chloride	Lin1		0.3360		19.2	20.0	-4.1	30.0
Acetone	Lin2		0.0555		212	200	6.2	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6487		18.4	20.0	-8.1	30.0
Methyl acetate	Lin1		0.1443		198	200	-0.9	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5166		14.8	20.0	-26.1	30.0
2-Methyl-2-propanol	Ave	0.3834	0.2947		154	200	-23.1	30.0
Isopropyl ether	Ave	1.997	1.687		17.0	20.0	-15.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7239	0.1000	19.5	20.0	-8.6	30.0
Acrylonitrile	Lin1		0.0539		16.5	20.0	-17.7	30.0
Tert-butyl ethyl ether	Ave	1.194	0.9518		15.9	20.0	-20.3	30.0
Vinyl acetate	Ave	0.5745	0.3965		138	200	-31.0*	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5663		18.4	20.0	-7.9	30.0
2,2-Dichloropropane	Ave	0.5371	0.5032		21.6	20.0	-6.3	30.0
Cyclohexane	Ave	0.8898	0.7411		16.8	20.0	-16.7	30.0
Chlorobromomethane	Ave	0.1386	0.1172		16.9	20.0	-15.5	30.0
Chloroform	Ave	0.6243	0.5506		18.9	20.0	-11.8	20.0
Carbon tetrachloride	Ave	0.3645	0.3510		19.2	20.0	-3.7	30.0
Tetrahydrofuran	Ave	0.0762	0.0576		165	200	-24.3	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4861		18.6	20.0	-6.0	30.0
2-Butanone (MEK)	Ave	0.0960	0.0781		172	200	-18.7	30.0
1,1-Dichloropropene	Ave	0.4990	0.4819		19.3	20.0	-3.4	30.0
Benzene	Ave	1.352	1.340		19.8	20.0	-0.8	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6073		15.9	20.0	-20.3	30.0
1,2-Dichloroethane	Ave	0.3253	0.2833		17.4	20.0	-12.9	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.3148		18.3	20.0	-17.3	30.0
Methylcyclohexane	Ave	0.6300	0.5441		17.3	20.0	-13.6	30.0
Trichloroethene	Ave	0.3155	0.3225		21.3	20.0	2.2	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1675		17.9	20.0	-10.5	30.0
Dibromomethane	Ave	0.1188	0.1024		17.2	20.0	-13.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2950		21.0	20.0	-7.3	20.0
Dichlorobromomethane	Ave	0.3427	0.3093		17.9	20.0	-9.8	30.0
Methyl methacrylate	Ave	0.0864	0.0718		16.3	20.0	-16.9	30.0
1,4-Dioxane	Qua		0.0229		213	200	6.7	30.0
2-Chloroethyl vinyl ether	Lin		0.0586		307	200	53.4*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3755		18.9	20.0	-5.5	30.0
Toluene	Ave	0.7062	0.7400		21.6	20.0	4.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1609		158	200	-21.4	30.0
Tetrachloroethene	Ave	0.1859	0.2025		21.7	20.0	9.0	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2587		17.8	20.0	-11.2	30.0
1,1,2-Trichloroethane	Lin1		0.1109		17.8	20.0	-11.1	30.0
Chlorodibromomethane	Ave	0.1504	0.1274		16.9	20.0	-15.3	30.0
1,3-Dichloropropane	Ave	0.2828	0.2464		17.4	20.0	-12.9	30.0
Ethylene Dibromide	Ave	0.1260	0.1116		17.7	20.0	-11.4	30.0
2-Hexanone	Ave	0.1294	0.1055		166	200	-18.5	30.0
Chlorobenzene	Ave	1.096	1.096	0.3000	20.1	20.0	0.0	30.0
Ethylbenzene	Ave	2.279	2.297		21.6	20.0	0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3080		18.6	20.0	-11.4	30.0
m-Xylene & p-Xylene	Ave	1.752	1.757		40.2	40.0	0.3	30.0
o-Xylene	Ave	1.903	1.830		19.3	20.0	-3.8	30.0
Styrene	Ave	1.294	1.206		18.7	20.0	-6.8	30.0
Bromoform	Ave	0.3131	0.2757	0.1000	16.8	20.0	-11.9	20.0
Isopropylbenzene	Ave	2.255	2.296		20.4	20.0	1.8	30.0
Bromobenzene	Ave	1.024	0.8609		16.9	20.0	-15.9	30.0
N-Propylbenzene	Ave	2.901	2.844		19.6	20.0	-2.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5660	0.3000	16.4	20.0	-17.3	30.0
2-Chlorotoluene	Ave	1.927	1.788		18.6	20.0	-7.3	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.806		19.5	20.0	-2.4	30.0
1,2,3-Trichloropropane	Lin2		0.0512		16.4	20.0	-17.8	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0808		15.1	20.0	-24.4	30.0
4-Chlorotoluene	Ave	1.683	1.545		18.3	20.0	-8.2	30.0
tert-Butylbenzene	Ave	1.471	1.481		20.1	20.0	0.7	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.754		18.6	20.0	-6.4	30.0
sec-Butylbenzene	Ave	2.518	2.514		20.0	20.0	-0.2	30.0
4-Isopropyltoluene	Ave	1.894	1.852		19.5	20.0	-2.2	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7236		17.2	20.0	-14.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.733		19.5	20.0	-3.1	30.0
n-Butylbenzene	Ave	4.614	5.106		22.1	20.0	10.7	30.0
1,2-Dichlorobenzene	Ave	1.492	1.416		19.0	20.0	-5.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0608		15.8	20.0	-21.0	30.0
Hexachlorobutadiene	Ave	0.5170	0.5544		21.4	20.0	7.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Lab Sample ID: CCVIS 360-49326/3 Calibration Date: 09/22/2009 16:46

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45234.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9317		19.1	20.0	-4.5	30.0
Naphthalene	Ave	1.288	1.051		16.3	20.0	-18.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6737		18.7	20.0	-6.6	30.0
Dibromofluoromethane	Ave	0.2328	0.2133		18.3	20.0	-8.4	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9281		20.9	20.0	4.5	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5130		17.9	20.0	-10.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Lab Sample ID: CCVIS 360-49369/3 Calibration Date: 09/23/2009 16:23

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45271.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4035		16.7	20.0	-16.4	30.0
Chloromethane	Ave	0.9034	0.7908	0.1000	18.8	20.0	-12.5	30.0
Vinyl chloride	Ave	0.6300	0.5246		17.7	20.0	-16.7	20.0
Bromomethane	Ave	0.3127	0.2925		19.6	20.0	-6.5	30.0
Chloroethane	Lin2		0.2971		18.2	20.0	-8.9	30.0
Trichlorofluoromethane	Ave	0.5183	0.4138		16.0	20.0	-20.2	30.0
Ethyl ether	Ave	0.2603	0.2184		17.9	20.0	-16.1	30.0
1,1-Dichloroethene	Ave	0.3201	0.2965		19.3	20.0	-7.3	20.0
Carbon disulfide	Ave	1.395	1.188		17.1	20.0	-14.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1858	0.1527		16.4	20.0	-17.8	30.0
Acrolein	Ave	0.7836	0.7104		907	1000	-9.3	30.0
Methylene Chloride	Lin1		0.3556		20.4	20.0	1.9	30.0
Acetone	Lin2		0.0561		215	200	7.3	30.0
trans-1,2-Dichloroethene	Ave	0.7060	0.6306		17.9	20.0	-10.7	30.0
Methyl acetate	Lin1		0.1381		190	200	-5.1	30.0
Methyl tert-butyl ether	Ave	0.6992	0.5891		16.9	20.0	-15.7	30.0
2-Methyl-2-propanol	Ave	0.3834	0.3249		169	200	-15.3	30.0
Isopropyl ether	Ave	1.997	1.767		17.8	20.0	-11.5	30.0
1,1-Dichloroethane	Ave	0.7919	0.7135	0.1000	19.2	20.0	-9.9	30.0
Acrylonitrile	Lin1		0.0613		18.8	20.0	-5.9	30.0
Tert-butyl ethyl ether	Ave	1.194	1.045		17.5	20.0	-12.5	30.0
Vinyl acetate	Ave	0.5745	0.5437		189	200	-5.4	30.0
cis-1,2-Dichloroethene	Ave	0.6148	0.5627		18.3	20.0	-8.5	30.0
2,2-Dichloropropane	Ave	0.5371	0.4876		20.9	20.0	-9.2	30.0
Chlorobromomethane	Ave	0.1386	0.1285		18.5	20.0	-7.3	30.0
Cyclohexane	Ave	0.8898	0.7296		16.5	20.0	-18.0	30.0
Chloroform	Ave	0.6243	0.5690		19.5	20.0	-8.8	20.0
Carbon tetrachloride	Ave	0.3645	0.3469		19.0	20.0	-4.8	30.0
Tetrahydrofuran	Ave	0.0762	0.0667		191	200	-12.4	30.0
1,1,1-Trichloroethane	Ave	0.5171	0.4786		18.3	20.0	-7.4	30.0
2-Butanone (MEK)	Ave	0.0960	0.0859		190	200	-10.5	30.0
1,1-Dichloropropene	Ave	0.4990	0.4697		18.8	20.0	-5.9	30.0
Benzene	Ave	1.352	1.309		19.4	20.0	-3.2	30.0
Tert-amyl methyl ether	Ave	0.7621	0.6814		17.9	20.0	-10.6	30.0
1,2-Dichloroethane	Ave	0.3253	0.2968		18.2	20.0	-8.8	30.0
2,4,4-Trimethyl-1-pentene	Ave	0.3806	0.2920		16.9	20.0	-23.3	30.0
Methylcyclohexane	Ave	0.6300	0.5367		17.1	20.0	-14.8	30.0
Trichloroethene	Ave	0.3155	0.3083		20.3	20.0	-2.3	30.0
2,4,4-Trimethyl-2-pentene	Ave	0.1872	0.1600		17.1	20.0	-14.5	30.0
Dibromomethane	Ave	0.1188	0.1139		19.1	20.0	-4.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Lab Sample ID: CCVIS 360-49369/3 Calibration Date: 09/23/2009 16:23

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45271.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3182	0.2892		20.5	20.0	-9.1	20.0
Dichlorobromomethane	Ave	0.3427	0.3211		18.6	20.0	-6.3	30.0
Methyl methacrylate	Ave	0.0864	0.0805		18.2	20.0	-6.8	30.0
1,4-Dioxane	Qua		0.0242		226	200	12.9	30.0
2-Chloroethyl vinyl ether	Lin		0.0630		328	200	64.2*	30.0
cis-1,3-Dichloropropene	Ave	0.3975	0.3795		19.1	20.0	-4.5	30.0
Toluene	Ave	0.7062	0.7117		20.7	20.0	0.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2048	0.1834		180	200	-10.5	30.0
Tetrachloroethene	Ave	0.1859	0.1970		21.2	20.0	6.0	30.0
trans-1,3-Dichloropropene	Ave	0.2914	0.2722		18.7	20.0	-6.6	30.0
1,1,2-Trichloroethane	Lin1		0.1179		18.9	20.0	-5.6	30.0
Chlorodibromomethane	Ave	0.1504	0.1402		18.6	20.0	-6.8	30.0
1,3-Dichloropropane	Ave	0.2828	0.2619		18.5	20.0	-7.4	30.0
Ethylene Dibromide	Ave	0.1260	0.1205		19.1	20.0	-4.3	30.0
2-Hexanone	Ave	0.1294	0.1123		177	200	-13.2	30.0
Chlorobenzene	Ave	1.096	1.057	0.3000	19.4	20.0	-3.5	30.0
Ethylbenzene	Ave	2.279	2.156		20.2	20.0	-5.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3475	0.3130		18.9	20.0	-9.9	30.0
m-Xylene & p-Xylene	Ave	1.752	1.644		37.6	40.0	-6.2	30.0
o-Xylene	Ave	1.903	1.744		18.4	20.0	-8.4	30.0
Styrene	Ave	1.294	1.169		18.1	20.0	-9.6	30.0
Bromoform	Ave	0.3131	0.2858	0.1000	17.3	20.0	-8.7	20.0
Isopropylbenzene	Ave	2.255	2.169		19.3	20.0	-3.8	30.0
Bromobenzene	Ave	1.024	0.8491		16.7	20.0	-17.1	30.0
N-Propylbenzene	Ave	2.901	2.672		18.4	20.0	-7.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6847	0.5832	0.3000	16.9	20.0	-14.8	30.0
2-Chlorotoluene	Ave	1.927	1.721		17.9	20.0	-10.7	30.0
1,3,5-Trimethylbenzene	Ave	1.851	1.730		18.7	20.0	-6.5	30.0
1,2,3-Trichloropropane	Lin2		0.0535		17.2	20.0	-14.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0846		15.9	20.0	-20.7	30.0
4-Chlorotoluene	Ave	1.683	1.491		17.6	20.0	-11.4	30.0
tert-Butylbenzene	Ave	1.471	1.399		19.0	20.0	-4.9	30.0
1,2,4-Trimethylbenzene	Ave	1.874	1.713		18.2	20.0	-8.6	30.0
sec-Butylbenzene	Ave	2.518	2.372		18.9	20.0	-5.8	30.0
4-Isopropyltoluene	Ave	1.894	1.786		18.8	20.0	-5.7	30.0
1,3-Dichlorobenzene	Ave	0.8416	0.7318		17.4	20.0	-13.0	30.0
1,4-Dichlorobenzene	Ave	1.788	1.651		18.5	20.0	-7.7	30.0
n-Butylbenzene	Ave	4.614	4.502		19.5	20.0	-2.4	30.0
1,2-Dichlorobenzene	Ave	1.492	1.391		18.7	20.0	-6.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0770	0.0692		18.0	20.0	-10.1	30.0
Hexachlorobutadiene	Ave	0.5170	0.5060		19.6	20.0	-2.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Westfield Job No.: 360-24686-1

SDG No.: OCRI-18

Lab Sample ID: CCVIS 360-49369/3 Calibration Date: 09/23/2009 16:23

Instrument ID: HP #1 GC/MS Calib Start Date: 09/08/2009 16:02

GC Column: RTX-VMS ID: 0.25(um) Calib End Date: 09/08/2009 18:49

Lab File ID: V45271.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.9752	0.9379		19.2	20.0	-3.8	30.0
Naphthalene	Ave	1.288	1.147		17.8	20.0	-11.0	30.0
1,2,3-Trichlorobenzene	Ave	0.7214	0.6949		19.3	20.0	-3.7	30.0
Dibromofluoromethane	Ave	0.2328	0.2258		19.4	20.0	-3.0	30.0
Toluene-d8 (Surr)	Ave	0.8882	0.9339		21.0	20.0	5.1	30.0
4-Bromofluorobenzene	Ave	0.5731	0.5242		18.3	20.0	-8.5	30.0