UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

July 15, 2015

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Mark Hayes, On-Scene Coordinator (6SF-PR)
Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: **WILCOX OIL**

Case#: **45316**

SDG#: **F9L96**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

500018270

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: July 14, 2015

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Linda Hoffman, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-11
ESAT Doc. No.:	1502-211-0129
TDF No.:	6-15-304A
ESAT File No.:	O-1243

Attached is the data review summary for Case # 45316
SDG # F9L96
Site Wilcox Oil

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099
ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	45316	SITE	Wilcox Oil
LABORATORY	DATAC	NO. OF SAMPLES	6
CONTRACT#	EP-W-11-037	MATRIX	Water
SDG#	F9L96	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM01.2	REVIEWER'S NAME	Linda Hoffman
SF#	303DD2GG	COMPLETION DATE	July 14, 2015

SAMPLE NO.					
	F9K01	F9M53			
	F9L96	F9M80			
	F9M46				
	F9M47				

DATA ASSESSMENT SUMMARY

	LMVOA	BNA	BNA-SIM
1. HOLDING TIMES	O	O	O
2. GC/MS TUNE/INSTR. PERFORM.	O	O	O
3. CALIBRATIONS	M	O	M
4. BLANKS	O	O	O
5. DMC/SURROGATES	O	O	O
6. MATRIX SPIKE/DUPLICATE/LCS	N/A	N/A	N/A
7. OTHER QC	N/A	N/A	N/A
8. INTERNAL STANDARDS	O	O	O
9. COMPOUND ID/QUANTITATION	O	O	O
10. PERFORMANCE/COMPLETENESS	O	O	O
11. OVERALL ASSESSMENT	M	O	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREA OF CONCERN: **VOA** The 1,4-dioxane did not meet the technical minimum RRF requirement. **BNA-SIM** Pentachlorophenol did not meet the technical minimum RRF requirement or %D calibration criteria.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45316 **SDG** F9L96 **SITE** Wilcox Oil **LAB** DATAC

COMMENTS: This SDG consisted of six field QC samples for LMVOA or BNA/BNA-SIM analyses following CLP SOW SOM01.2. Samples F9K01, F9L96, F9M46, and F9M80 were trip blanks and only required LMVOA analysis. Samples F9M47 and F9M53 were rinsates and only required BNA/BNA-SIM analyses. Evaluation of the field QC samples could not be performed because the associated field samples were a different matrix (soil). MS/MSD analyses were not requested. The only target compounds detected in the trip blanks were toluene and/or m,p-xylene at concentrations up to 2.8X the CRQLs. The rinsates contained naphthalene at concentrations above the CRQL (1.3X).

S3VEM Review was performed for this package as requested by the Region. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

OVERALL ASSESSMENT: The 1,4-dioxane results were qualified for all LMVOA samples and the pentachlorophenol results were qualified for all BNA-SIM samples because of calibration problems. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
EDM	EXES Data Manager
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE:	Case Number
SDG:	SDG Number
EPASAMP:	EPA Sample Number
LABID:	Laboratory File/Sample ID
MATRIX:	Sample Matrix
ANDATE:	Sample Analysis Date
ANTIME:	Sample Analysis Time
CASNUM:	Compound CAS Number
ANALYTE:	Compound Name
CONC:	Compound Concentration
VALDQAL:	Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)
UNITS:	Concentration Units
ADJCRQL:	Adjusted Contract Required Quantitation Limit Value
SMPDATE:	Sampling Date
STATLOC:	Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or Aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or Aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	67-64-1	Acetone	10	U	ug/L	10	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	78-93-3	2-Butanone	10	U	ug/L	10	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	71-43-2	Benzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	108-88-3	Toluene	6.5		ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	591-78-6	2-Hexanone	10	U	ug/L	10	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	100-42-5	Styrene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC

45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	67-64-1	Acetone	10	U	ug/L	10	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	78-93-3	2-Butanone	10	U	ug/L	10	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	71-43-2	Benzene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	108-88-3	Toluene	14		ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	591-78-6	2-Hexanone	10	U	ug/L	10	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	179601-23-1	m,p-Xylene	5.4		ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	100-42-5	Styrene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	06/01/2015 Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	06/01/2015 Field QC

45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	67-64-1	Acetone	10	U	ug/L	10	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	78-93-3	2-Butanone	10	U	ug/L	10	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	71-43-2	Benzene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	108-88-3	Toluene	10		ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	591-78-6	2-Hexanone	10	U	ug/L	10	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	179601-23-1	m,p-Xylene	5.1		ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	100-42-5	Styrene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	06/02/2015 Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	06/02/2015 Field Q C

45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	67-64-1	Acetone	10	U	ug/L	10	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	78-93-3	2-Butanone	10	U	ug/L	10	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	71-43-2	Benzene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	108-88-3	Toluene	7.1		ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	591-78-6	2-Hexanone	10	U	ug/L	10	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	100-42-5	Styrene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	06/03/2015 FieldQC

45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	108-95-2	Phenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	111-44-4	Bis(2-chloroethyl)ether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	98-86-2	Acetophenone	0.55	LJ	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	106-44-5	4-Methylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	621-64-7	N-Nitroso-di-n-propylamine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	78-59-1	Isophorone	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	91-20-3	Naphthalene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	105-60-2	Caprolactam	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	91-57-6	2-Methylnaphthalene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	77-47-4	Hexachlorocyclopentadiene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	92-52-4	1,1'-Biphenyl	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	88-74-4	2-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	131-11-3	Dimethylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	208-96-8	Acenaphthylene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	99-09-2	3-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	83-32-9	Acenaphthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	100-02-7	4-Nitrophenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	84-66-2	Diethylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	86-73-7	Fluorene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	7005-72-3	4-Chlorophenyl-phenylether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	100-01-6	4-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	534-52-1	4,6-Dinitro-2-methylphenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	86-30-6	N-Nitrosodiphenylamine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	101-55-3	4-Bromophenyl-phenylether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	118-74-1	Hexachlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	1912-24-9	Atrazine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	87-86-5	Pentachlorophenol	10	U*	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	85-01-8	Phenanthrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	120-12-7	Anthracene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	86-74-8	Carbazole	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	206-44-0	Fluoranthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	129-00-0	Pyrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC

45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	85-68-7	Butylbenzylphthalate	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	56-55-3	Benzo(a)anthracene	5.0	U*	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	218-01-9	Chrysene	5.0	U*	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	117-81-7	Bis(2-ethylhexyl)phthalate	0.44	LJ	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	205-99-2	Benzo(b)fluoranthene	5.0	U*	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	207-08-9	Benzo(k)fluoranthene	5.0	U*	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	50-32-8	Benzo(a)pyrene	5.0	U*	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U*	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	53-70-3	Dibenzo(a,h)anthracene	5.0	U*	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	191-24-2	Benzo(g,h,i)perylene	5.0	U*	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	91-20-3	Naphthalene	0.13		ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	83-32-9	Acenaphthene	0.052	LJ	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	86-73-7	Fluorene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	87-86-5	Pentachlorophenol	0.20	UJv	ug/L	0.20	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	85-01-8	Phenanthrene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	120-12-7	Anthracene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	206-44-0	Fluoranthene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	129-00-0	Pyrene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	218-01-9	Chrysene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	50-32-8	Benzo(a)pyrene	0.080	LJ	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	108-95-2	Phenol	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	111-44-4	Bis(2-chloroethyl)ether	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	98-86-2	Acetophenone	0.52	LJ	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	106-44-5	4-Methylphenol	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	621-64-7	N-Nitroso-di-n-propylamine	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	78-59-1	Isophorone	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	91-20-3	Naphthalene	5.0	U*	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	105-60-2	Caprolactam	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	91-57-6	2-Methylnaphthalene	5.0	U*	ug/L	5.0	06/03/2015 FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	77-47-4	Hexachlorocyclopentadiene	5.0	U	ug/L	5.0	06/03/2015 FieldQC

45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	92-52-4	1,1'-Biphenyl	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	88-74-4	2-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	131-11-3	Dimethylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	208-96-8	Acenaphthylene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	99-09-2	3-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	83-32-9	Acenaphthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	100-02-7	4-Nitrophenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	84-66-2	Diethylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	86-73-7	Fluorene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	7005-72-3	4-Chlorophenyl-phenylether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	100-01-6	4-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	534-52-1	4,6-Dinitro-2-methylphenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	86-30-6	N-Nitrosodiphenylamine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	101-55-3	4-Bromophenyl-phenylether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	118-74-1	Hexachlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	1912-24-9	Atrazine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	87-86-5	Pentachlorophenol	10	U*	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	85-01-8	Phenanthrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	120-12-7	Anthracene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	86-74-8	Carbazole	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	206-44-0	Fluoranthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	129-00-0	Pyrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	85-68-7	Butylbenzylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	56-55-3	Benzo(a)anthracene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	218-01-9	Chrysene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	205-99-2	Benzo(b)fluoranthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	207-08-9	Benzo(k)fluoranthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	50-32-8	Benzo(a)pyrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	53-70-3	Dibenzo(a,h)anthracene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	191-24-2	Benzo(g,h,i)perylene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	91-20-3	Naphthalene	0.13		ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	83-32-9	Acenaphthene	0.049	LJ	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	86-73-7	Fluorene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	87-86-5	Pentachlorophenol	0.20	UJv	ug/L	0.20	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	85-01-8	Phenanthrene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	120-12-7	Anthracene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	206-44-0	Fluoranthene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	129-00-0	Pyrene	0.10	U	ug/L	0.10	06/03/2015	FieldQC

45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	56-55-3	Benzo(a)anthracene	0.10	U		ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	218-01-9	Chrysene	0.10	U		ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	205-99-2	Benzo(b)fluoranthene	0.10	U		ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	207-08-9	Benzo(k)fluoranthene	0.10	U		ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	50-32-8	Benzo(a)pyrene	0.073	LJ		ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U		ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	53-70-3	Dibenzo(a,h)anthracene	0.10	U		ug/L	0.10	06/03/2015 FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	191-24-2	Benzo(g,h,i)perylene	0.10	U		ug/L	0.10	06/03/2015 FieldQC

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45316 SDG No. F9L96 SDG Nos. To Follow Mod. Ref No. Date Rec. 06/24/15

EPA Lab ID: DATAC

Lab Location: Salt Lake City, UT

Region: 6 Audit No.: 45316/F9L96

Re_Submitted CSF? Yes No X

Box No(s): 1

COMMENTS:

Item Description

14./15. Sample tags are no longer used.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: Linda Hoffman / ESAT Data Reviewer Date 07/10/15

Audited by: Date

Signature Printed Name/Title

DC-2__

USEPA CLP COC (REGION COPY)
DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754114460

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

No: 6-060415-161725-0111
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-019-004-06-51	F9K00	Soil/ START	Composite	VOA(21)	1809 (Ice) (3)	021	06/04/2015 11:00	Field Sample
WO-019-003-44-20150604	F9K01	Water/ START	Grab	VOA(21)	1813 (HCl) (3)	FieldQC	06/04/2015 14:55	
WO-019-003-00-51	F9M82	Soil/ START	Composite	VOA(21)	1719 (Ice) (3)	021	06/04/2015 08:10	Field Sample
WO-019-003-00-52	F9M83	Soil/ START	Composite	VOA(21)	1724 (Ice) (3)	021	06/04/2015 08:15	Field Sample
WO-019-003-06-51	F9M84	Soil/ START	Composite	VOA(21)	1729 (Ice) (3)	021	06/04/2015 08:30	Field Sample
WO-019-005-00-51	F9M85	Soil/ START	Composite	VOA(21)	1734 (Ice) (3)	021	06/04/2015 08:35	Field Sample
WO-019-005-00-52	F9M86	Soil/ START	Composite	VOA(21)	1739 (Ice) (3)	021	06/04/2015 08:40	Field Sample
WO-019-007-00-51	F9M87	Soil/ START	Composite	VOA(21)	1744 (Ice) (3)	021	06/04/2015 09:05	Field Sample
WO-019-005-06-51	F9M88	Soil/ START	Composite	VOA(21)	1749 (Ice) (3)	021	06/04/2015 09:00	Field Sample
WO-019-005-12-51	F9M89	Soil/ START	Composite	VOA(21)	1754 (Ice) (3)	021	06/04/2015 09:05	Field Sample

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Special Instructions: No Lab QC VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	CBerch Weston	6/4/15 2100	FedEx	6/4/15 2100	

USEPA CLP COC (REGION COPY)
DateShipped: 6/1/2015
CarrierName: FedEx
AirbillNo: 773724815256

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

No: 6-060115-180519-0073
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-008-001-44-20150601	F9L96	Water/ START	Grab	VOA(21)	1311 (HCl) (3)	FieldQC	06/01/2015 07:55	
WO-008-001-00-51	F9L98	Soil/ START	Composite	VOA(21)	1314 (Ice) (3)	008	06/01/2015 09:00	Field Sample
WO-008-002-00-51	F9L99	Soil/ START	Composite	VOA(21)	1319 (Ice) (3)	008	06/01/2015 09:05	Field Sample
WO-008-002-00-52	F9M00	Soil/ START	Composite	VOA(21)	1324 (Ice) (3)	008	06/01/2015 09:10	Field Sample
WO-008-003-00-51	F9M01	Soil/ START	Composite	VOA(21)	1329 (Ice) (3)	008	06/01/2015 09:10	Field Sample
WO-008-004-00-51	F9M02	Soil/ START	Composite	VOA(21)	1334 (Ice) (3)	008	06/01/2015 09:20	Field Sample
WO-008-001-06-51	F9M03	Soil/ START	Composite	VOA(21)	1339 (Ice) (3)	008	06/01/2015 09:50	Field Sample
WO-008-001-12-51	F9M04	Soil/ START	Composite	VOA(21)	1344 (Ice) (3)	008	06/01/2015 09:55	Field Sample
WO-008-001-24-51	F9M05	Soil/ START	Composite	VOA(21)	1349 (Ice) (3)	008	06/01/2015 10:00	Field Sample
WO-008-002-06-51	F9M06	Soil/ START	Composite	VOA(21)	1354 (Ice) (3)	008	06/01/2015 10:25	Field Sample

Special Instructions: No Lab QC on VOA Samples

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	CBerch Weston	6/1/15 2100	FedEx	6/1/15 2100	

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USEPA CLP COC (REGION COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737015872

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

No: 6-060215-181745-0082
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-002-003-12-51	F9M41	Soil/ START	Composite	VOA(21)	1528 (Ice) (3)	002	06/02/2015 13:45	Field Sample
WO-002-001-06-51	F9M42	Soil/ START	Composite	VOA(21)	1533 (Ice) (3)	002	06/02/2015 14:30	Field Sample
WO-002-001-12-51	F9M43	Soil/ START	Composite	VOA(21)	1538 (Ice) (3)	002	06/02/2015 14:35	Field Sample
WO-002-002-06-51	F9M44	Soil/ START	Composite	VOA(21)	1543 (Ice) (3)	002	06/02/2015 16:30	Field Sample
WO-002-004-06-51	F9M45	Soil/ START	Composite	VOA(21)	1548 (Ice) (3)	002	06/02/2015 16:45	Field Sample
WO-011-002-44-20150602	F9M46	Water/ START	Grab	VOA(21)	1552 (HCl) (3)	FieldQC	06/02/2015 17:25	

Special Instructions: No Lab QC VOA samples

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Cherrh Wester	6/2/15 2100	FedEx	6/2/15 2100	

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USEPA CLP COC (REGION COPY)
DateShipped: 6/3/2015
CarrierName: FedEx
AirbillNo: 805467748535

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

No: 6-060315-194232-0101
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-002-004-43-20150603	F9M47	Water/ START	Grab	SVOA/SVOASIM(21)	1553 (Ice) (4)	FieldQC	06/03/2015 08:10	
WO-002-002-43-20150603	F9M53	Water/ START	Grab	SVOA/SVOASIM(21)	1582 (Ice) (4)	FieldQC	06/03/2015 08:15	

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Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Cberk Weston	6/3/15 2100	FedEx	6/3/15 2100	

USEPA CLP COC (REGION COPY)
DateShipped: 6/3/2015
CarrierName: FedEx
AirbillNo: 773749421450

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

No: 6-060315-191209-0096
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-019-002-06-51	F9M79	Soil/ START	Composite	VOA(21)	1712 (Ice) (3)	021	06/03/2015 15:15	Field Sample
WO-021-001-44-20150603	F9M80	Water/ START	Grab	VOA(21)	1716 (HCl) (3)	FieldQC	06/03/2015 18:30	

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Special Instructions: No Lab QC VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Oberch Weston	6/3/15 2100	FedEx	6/3/15 2100	

ADDENDUM

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	VOA_Low_Med
VC14	The following volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1
	1,4-Dioxane VSTD050W1, VSTD050W2
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1

National Functional Guidelines Report #03

Lab .DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	**BNA_SIM**
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9M47, F9M53, SBLK34
	Pentachlorophenol SSTD0.4G1
	F9M47, F9M53, SBLK34
Continuing Calibration Verification	**BNA_SIM**
BC14	The following semivolatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9M47, F9M53, SBLK34
	Pentachlorophenol SSTD0.4G1
	F9M47, F9M53, SBLK34

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	VOA_Low_Med
VDL1	The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9K01, F9L96, F9M46, F9M80, VBLKW1
	Styrene VBLKW1
	Isopropylbenzene VBLKW1
	m,p-Xylene F9K01, F9M80, VBLKW1
	1,2,3-Trichlorobenzene VBLKW1
	Acetone F9K01, F9L96, F9M46, F9M80, VBLKW1
	Ethylbenzene F9K01, F9L96, F9M46, F9M80, VBLKW1
	o-Xylene F9K01, F9L96, F9M46, F9M80, VBLKW1
	1,2,4-Trichlorobenzene F9K01, VBLKW1
	1,3-Dichlorobenzene VBLKW1
	Methylene chloride F9K01, F9L96, F9M46, F9M80, VBLKW1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	BNA
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M47, F9M53
	Acetophenone F9M47, F9M53
	Bis(2-ethylhexyl)phthalate F9M47

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	BNA_SIM
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M47, F9M53
	Acenaphthene F9M47, F9M53
	Benzo(a)pyrene F9M47, F9M53

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Initial Calibration

Initial Calibration	VOA_Low_Med
VC15	The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1
	1,4-Dioxane VSTD005SE, VSTD010SE, VSTD050SE, VSTD100SE, VSTD200SE
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1
Initial Calibration	**VOA_Low_Med**
VC20	The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and nondetected compounds are not qualified.
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1
	1,4-Dioxane-d8 VSTD005SE, VSTD010SE, VSTD050SE, VSTD100SE, VSTD200SE
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
BTIC1	A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	F9M47, F9M53
	Phenol, 2-methoxy- F9M47, F9M53
	Triethyl citrate F9M47, F9M53
	Diethyltoluamide F9M47
	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene- F9M47
TIC	**BNA**
BTIC2	A library search indicates a match below 85% for a TIC compound in the semivolatile sample Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M53, SBLK34
	Unknown 2-Propanone, 1-(acetyloxy)- F9M53
	Unknown Ethanol, 2-(2-ethoxyethoxy)- SBLK34

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	67-64-1	Acetone	10	U	ug/L	10	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	78-93-3	2-Butanone	10	U	ug/L	10	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	71-43-2	Benzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	108-88-3	Toluene	6.5		ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	591-78-6	2-Hexanone	10	U	ug/L	10	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	100-42-5	Styrene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC
45316	F9L96	F9K01	1515739001	W	06/11/2015	10:03:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	06/04/2015	FieldQC

45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	67-64-1	Acetone	10	U	ug/L	10	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	78-93-3	2-Butanone	10	U	ug/L	10	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	71-43-2	Benzene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	108-88-3	Toluene	14		ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	591-78-6	2-Hexanone	10	U	ug/L	10	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	179601-23-1	m,p-Xylene	5.4		ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	100-42-5	Styrene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	06/01/2015	Field QC
45316	F9L96	F9L96	1515386001	W	06/11/2015	11:39:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	06/01/2015	Field QC

45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	67-64-1	Acetone	10	U	ug/L	10	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	78-93-3	2-Butanone	10	U	ug/L	10	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	71-43-2	Benzene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	108-88-3	Toluene	10		ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	591-78-6	2-Hexanone	10	U	ug/L	10	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	179601-23-1	m,p-Xylene	5.1		ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	100-42-5	Styrene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	06/02/2015	Field Q C
45316	F9L96	F9M46	1515556001	W	06/11/2015	10:27:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	06/02/2015	Field Q C

45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	67-64-1	Acetone	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	78-93-3	2-Butanone	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	71-43-2	Benzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	108-88-3	Toluene	7.1		ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	591-78-6	2-Hexanone	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	100-42-5	Styrene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M80	1515629001	W	06/11/2015	10:51:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC

45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	108-95-2	Phenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	111-44-4	Bis(2-chloroethyl)ether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	98-86-2	Acetophenone	0.55	LJ	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	106-44-5	4-Methylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	621-64-7	N-Nitroso-di-n-propylamine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	78-59-1	Isophorone	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	91-20-3	Naphthalene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	105-60-2	Caprolactam	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	91-57-6	2-Methylnaphthalene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	77-47-4	Hexachlorocyclopentadiene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	92-52-4	1,1'-Biphenyl	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	88-74-4	2-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	131-11-3	Dimethylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	208-96-8	Acenaphthylene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	99-09-2	3-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	83-32-9	Acenaphthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	100-02-7	4-Nitrophenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	84-66-2	Diethylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	86-73-7	Fluorene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	7005-72-3	4-Chlorophenyl-phenylether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	100-01-6	4-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	534-52-1	4,6-Dinitro-2-methylphenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	86-30-6	N-Nitrosodiphenylamine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	101-55-3	4-Bromophenyl-phenylether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	118-74-1	Hexachlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	1912-24-9	Atrazine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	87-86-5	Pentachlorophenol	10	U*	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	85-01-8	Phenanthrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	120-12-7	Anthracene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	86-74-8	Carbazole	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	206-44-0	Fluoranthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC

45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	129-00-0	Pyrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	85-68-7	Butylbenzylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	56-55-3	Benzo(a)anthracene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	218-01-9	Chrysene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	117-81-7	Bis(2-ethylhexyl)phthalate	0.44	LJ	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	205-99-2	Benzo(b)fluoranthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	207-08-9	Benzo(k)fluoranthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	50-32-8	Benzo(a)pyrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	53-70-3	Dibenzo(a,h)anthracene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	191-24-2	Benzo(g,h,i)perylene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47	1515629002	W	06/18/2015	18:00:00	58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	91-20-3	Naphthalene	0.13		ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	83-32-9	Acenaphthene	0.052	LJ	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	86-73-7	Fluorene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	87-86-5	Pentachlorophenol	0.20	UJv	ug/L	0.20	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	85-01-8	Phenanthrene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	120-12-7	Anthracene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	206-44-0	Fluoranthene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	129-00-0	Pyrene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	218-01-9	Chrysene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	50-32-8	Benzo(a)pyrene	0.080	LJ	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M47 (SIM)	1515629002	W	06/18/2015	17:12:00	191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	108-95-2	Phenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	111-44-4	Bis(2-chloroethyl)ether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	98-86-2	Acetophenone	0.52	LJ	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	106-44-5	4-Methylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	621-64-7	N-Nitroso-di-n-propylamine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	78-59-1	Isophorone	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	91-20-3	Naphthalene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	105-60-2	Caprolactam	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC

45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	91-57-6	2-Methylnaphthalene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	77-47-4	Hexachlorocyclopentadiene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	92-52-4	1,1'-Biphenyl	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	88-74-4	2-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	131-11-3	Dimethylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	208-96-8	Acenaphthylene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	99-09-2	3-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	83-32-9	Acenaphthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	100-02-7	4-Nitrophenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	84-66-2	Diethylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	86-73-7	Fluorene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	7005-72-3	4-Chlorophenyl-phenylether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	100-01-6	4-Nitroaniline	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	534-52-1	4,6-Dinitro-2-methylphenol	10	U	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	86-30-6	N-Nitrosodiphenylamine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	101-55-3	4-Bromophenyl-phenylether	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	118-74-1	Hexachlorobenzene	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	1912-24-9	Atrazine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	87-86-5	Pentachlorophenol	10	U*	ug/L	10	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	85-01-8	Phenanthrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	120-12-7	Anthracene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	86-74-8	Carbazole	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	206-44-0	Fluoranthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	129-00-0	Pyrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	85-68-7	Butylbenzylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	56-55-3	Benzo(a)anthracene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	218-01-9	Chrysene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	205-99-2	Benzo(b)fluoranthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	207-08-9	Benzo(k)fluoranthene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	50-32-8	Benzo(a)pyrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	53-70-3	Dibenzo(a,h)anthracene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	191-24-2	Benzo(g,h,i)perylene	5.0	U*	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53	1515629003	W	06/18/2015	18:34:00	58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	91-20-3	Naphthalene	0.13		ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	83-32-9	Acenaphthene	0.049	LJ	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	86-73-7	Fluorene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	87-86-5	Pentachlorophenol	0.20	UJv	ug/L	0.20	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	85-01-8	Phenanthrene	0.10	U	ug/L	0.10	06/03/2015	FieldQC

45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	120-12-7	Anthracene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	206-44-0	Fluoranthene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	129-00-0	Pyrene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	218-01-9	Chrysene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	50-32-8	Benzo(a)pyrene	0.073	LJ	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	06/03/2015	FieldQC
45316	F9L96	F9M53 (SIM)	1515629003	W	06/18/2015	17:43:00	191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	06/03/2015	FieldQC

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	**VOA_Low_Med**
VC14	The following volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1
	1,4-Dioxane VSTD050W1, VSTD050W2
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	**BNA_SIM**
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9M47, F9M53, SBLK34
	Pentachlorophenol SSTD0.4G1
	F9M47, F9M53, SBLK34
Continuing Calibration Verification	**BNA_SIM**
BC14	The following semivolatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9M47, F9M53, SBLK34
	Pentachlorophenol SSTD0.4G1
	F9M47, F9M53, SBLK34

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	VOA_Low_Med
VDL1	The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9K01, F9L96, F9M46, F9M80, VBLKW1
	Styrene VBLKW1
	Isopropylbenzene VBLKW1
	m,p-Xylene F9K01, F9M80, VBLKW1
	1,2,3-Trichlorobenzene VBLKW1
	Acetone F9K01, F9L96, F9M46, F9M80, VBLKW1
	Ethylbenzene F9K01, F9L96, F9M46, F9M80, VBLKW1
	o-Xylene F9K01, F9L96, F9M46, F9M80, VBLKW1
	1,2,4-Trichlorobenzene F9K01, VBLKW1
	1,3-Dichlorobenzene VBLKW1
	Methylene chloride F9K01, F9L96, F9M46, F9M80, VBLKW1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	BNA
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M47, F9M53
	Acetophenone F9M47, F9M53
	Bis(2-ethylhexyl)phthalate F9M47

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	BNA_SIM
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M47, F9M53
	Acenaphthene F9M47, F9M53
	Benzo(a)pyrene F9M47, F9M53

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

Initial Calibration

Initial Calibration	**VOA_Low_Med**
VC15	The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1
	1,4-Dioxane VSTD005SE, VSTD010SE, VSTD050SE, VSTD100SE, VSTD200SE
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1
Initial Calibration	**VOA_Low_Med**
VC20	The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and nondetected compounds are not qualified.
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1
	1,4-Dioxane-d8 VSTD005SE, VSTD010SE, VSTD050SE, VSTD100SE, VSTD200SE
	F9K01, F9L96, F9M46, F9M80, VBLKW1, VHBLKW1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L96 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216683 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
BTIC1	A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	F9M47, F9M53
	Phenol, 2-methoxy- F9M47, F9M53
	Triethyl citrate F9M47, F9M53
	Diethyltoluamide F9M47
	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene- F9M47
TIC	**BNA**
BTIC2	A library search indicates a match below 85% for a TIC compound in the semivolatile sample Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M53, SBLK34
	Unknown 2-Propanone, 1-(acetyloxy)- F9M53
	Unknown Ethanol, 2-(2-ethoxyethoxy)- SBLK34

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

LABORATORY NAME	ALS Laboratory Group		
CITY/STATE	Salt Lake City, UT 84123		
CASE NO.	45316	SDG NO.:	F9L96
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		
CONTRACT NO.	EP-W-11-037		
SOW NO.	SOM01.2		

All documents delivered in the Complete SDG File (csf) must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
1. **Inventory Sheet** (DC-2) (Do not number)			✓	
2. **SDG Case Narrative**	1	6	✓	
3. **SDG Cover Sheet/Traffic Report**	7	12	✓	
4. **Trace Volatiles Data**				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)	n/a		✓	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA) (if requested by USEPA Region)			✓	
Method Blank Summary (Form IV VOA)			✓	
GC/MS Instrument Performance Check (Form V VOA)			✓	
Internal Standard Area and RT Summary (Form VIII VOA)			✓	
b. Sample Data				
TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-TIC)			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw/Quality Control (QC) Data			✓	
BFB			✓	
Blank Data			✓	

BH 5/27/2015

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

CASE NO.	45316	SDG NO.:	F9L96
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region	n/a		✓	
e. Trace SIM Data (Place at the end of the Trace Volatiles Section)	n/a		✓	
[Form I VOA-SIM; Form II VOA-SIM1 and VOA-SIM2; Form IV-VOA-SIM; Form VI VOA-SIM; Form VII VOA-SIM; Form VIII VOA-SIM; and all raw data for QC, Samples, and Standards.]				
5. **Low/Med Volatiles Data**				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1, VOA-2, VOA-3, VOA-4)	13	14	✓	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA-1, VOA-2)(if requested by USEPA Region)	n/a		✓	
Method Blank Summary (Form IV VOA)	15	15	✓	
GC/MS Instrument Performance Check (Form V VOA)	16	17	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	18	18	✓	
b. Sample Data	19	55		
TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-TIC)			✓	
Recontructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	56	85		
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw/Quality Control (QC) Data				
BFB	86	89	✓	
Blank Data	90	106	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L96
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region	n/a		✓	
6. Semivolatiles Data				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II SV-1 and SV-2, SV-3, SV-4)	107	108	✓	
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III SV-1 and SV-2) (if requested by USEPA Region)	n/a		✓	
Method Blank Summary (Form IV SV)	109	109	✓	
GC/MS Instrument Performance Check (Form V SV)	110	111	✓	
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	112	113	✓	
b. Sample Data	114	144		
TCL Results - Organics Analysis Data Sheet (Form I SV-1 and SV-2)			✓	
Tentatively Identified Compounds (Form I SV-TIC)			✓	
Reconstructed total ion chromatograms (RICs) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds			✓	
Quantitation reports			✓	
Mass Spectra of TICs with three best library matches			✓	
GPC chromatograms (if GPC is required)			✓	
c. Standards Data (All Instruments)	145	182		
Initial Calibration Data (Form VI SV-1, SV-2, SV-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
Continuing Calibration Data (Form VII SV-1, SV-2, SV-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data				
DFTPP	183	188	✓	
Blank Data	189	197	✓	
MS/MSD Data (if requested by USEPA Region)	n/a		✓	
e. Raw GPC Data	n/a		✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L96
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
f. Semivolatile SIM Data [Form I SV-SIM; Form II SV-SIM1 and SV-SIM2; Form III SV-SIM1 and SV-SIM2 (if required); Form IV SV-SIM; Form VI-SIM; Form VII SV-SIM; Form VIII SV-SIM1 and SV-SIM2; and all raw data for QC, Samples, and Standards.]	198	233	✓	
7. Pesticides Data				
a. QC Summary				
Surrogate Recovery Summary (Form II PEST-1 and PEST-2)	n/a		✓	
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)			✓	
Laboratory Control Sample Recovery (Form III Pest-3 and PEST-4)			✓	
Method Blank Summary (Form IV PEST)			✓	
b. Sample Data				
TCL Results - Organics Analysis Data Sheet (Form I PEST)			✓	
Chromatograms (Primary Column)			✓	
Chromatograms from second GC column confirmation			✓	
GC Integration report or data system printout			✓	
Manual work sheets			✓	
For pesticides by GC/MS				
Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			✓	
c. Standards Data				
Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)			✓	
Toxaphene Initial Calibration (Form VI PEST-3 and PEST-4)			✓	
Analyte Resolution Summary (Form VI PEST-5, per column)			✓	
Performance Evaluation Mixture (Form VI PEST-6)			✓	
Individual Standard Mixture A (Form VI PEST-7)			✓	
Individual Standard Mixture B (Form VI PEST-8)			✓	
Individual Standard Mixture C (Form VI PEST-9 and PEST-10)			✓	
Calibration Verification Summary (Form VII PEST-1)			✓	
Calibration Verification Summary (Form VII PEST-2)			✓	
Calibration Verification Summary (Form VII PEST-3)			✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG No	F9L96
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Calibration Verification Summary (Form VII PEST-4)			✓	
Analytical Sequence (Form VIII PEST)			✓	
Florisil Cartridge Check (Form IX PEST-1)			✓	
Pesticide GPC Calibration (Form IX PEST-2)			✓	
Identification Summary for Single Component Analytes (Form X PEST-1)			✓	
Identification Summary for Toxaphene (Form X PEST-2)			✓	
Chromatograms and data system printouts				
A printout of Retention Times and corresponding peak areas or peak heights			✓	
d. Raw QC Data				
Blank Data	n/a		✓	
Matrix Spike/Matrix Spike Duplicate Data			✓	
Laboratory Control Sample Data			✓	
e. Raw GPC Data			✓	
f. Raw Florisil Data			✓	
8. **Aroclor Data**				
a. QC Summary				
Surrogate Recovery Summary (Form II ARO-1 and ARO-2)			✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)			✓	
Laboratory Control Sample Recovery (Form III ARO-3 and ARO-4)			✓	
Method Blank Summary (Form IV ARO)			✓	
b. Sample Data				
TCL Results - Organics Analysis Data Sheet (Form I ARO)			✓	
Chromatograms (Primary Column)			✓	
Chromatograms from second GC column confirmation			✓	
GC Integration report or data system printout			✓	
Manual work sheets			✓	
For Aroclors by GC/MS				
Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			✓	

06/22/2015 HD

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L96
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
c. Standards Data	n/a			
Aroclors Initial Calibration (Form VI ARO-1, ARO-2 and ARO-3)			✓	
Calibration Verification Summary (Form VII ARO-1)			✓	
Analytical Sequence (Form VIII ARO)			✓	
Identification Summary for Multicomponent Analytes (Form X ARO)			✓	
Chromatograms and data system printouts				
A printout of Retention Times and corresponding peak areas or peak heights			✓	
d. Raw QC Data				
Blank Data			✓	
Matrix Spike/Matrix Spike Duplicate Data			✓	
Laboratory Control Sample (LCS) Data			✓	
e. Raw GPC Data (if performed)			✓	
9. **Miscellaneous Data**				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	234	260	✓	
Internal sample and sample extract transfer chain-of-custody records	261	271	✓	
Screening records	272	283	✓	
All instrument output, including strip charts from screening activities (describe or list)				
Method Check/QC Reports/LCS	n/a		✓	
Percent Solids Determinations	n/a		✓	
10. **EPA Shipping/Receiving Documents**				
Airbills (no. of shipments 5)	284	288	✓	
Chain of Custody Records (Copies)	289	293	✓	
Sample Tags	294	294	✓	
Sample Log-in Sheet (Lab & DC-1)	295	301	✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
DCL Cooler Receipt Checklist	NA		✓	
DCL Sample Work Orders	NA		✓	

01/22/2015 DH

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L96
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
11. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
DCL Documentation Checking Forms	302	303	✓	
DCL Non-conformance/Corrective Action Reports	NA		✓	
12. **Other Records** (describe or list)				
Telephone Communication Log	NA		✓	
E-mail Communications	n/a		✓	
			✓	

13. **Comments**

n/a

Completed by: (CLP Lab)	Desiree Hill (Signature)	Desiree Hill/DCO (Printed Name/Title)	6/22/15 (Date)
Verified by: (CLP Lab)	Roxanne Olson (Signature)	Roxanne Olson/Manager (Printed Name/Title)	6/22/15 (Date)
Audited by: (USEPA)	(Signature)	(Printed Name/Title)	(Date)

960 W. LeVoy Drive
Salt Lake City, UT 84123
T: +1 801 266 7700
F: +1 801 268 9992
www.alsglobal.com

SDG Administrative Narrative

Contract: EPW11037

Case: 45316

SDG: F9L96

WO No(s): 1515386, 1515556, 1515629, 1515139

Cooler # and Temperatures of each (upon receipt)

Cooler Number C15-	n/a	Arrival temperature was	4	°C
Cooler Number C15-	n/a	Arrival temperature was	4	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C

06/22/2015 DH

Communications:

The sample receipt for this Case/SDG is compliant with EPA CLP SOW requirements.

Comments:

None

Signature: Desiree Hill
Document Control Officer

Date: 06/22/2015

SDG Narrative
Low/Medium Volatiles

Contract: EPW11037
Laboratory: ALS Environmental
Modification Reference Number: NA

Case: 45316
SDG: F9L96

EPA No.	ALS Sample	pH	Dilution	EPA No.	ALS Sample	pH	Dilution
F9L96	1515386001	1	None	F9M80	1515629001	1	None
F9M46	1515556001	1	None	F9K01	1515739001	1	None

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. There were no modifications except as listed below.

Instrumentation: Agilent 5975-E GC/MSD with electron impact ionization and quadrupole detector scanning a mass range of 35 to 300 amu. Column: Restek Rtx-VMS (30 m, 0.25 mm id, 1.4 µm film). Purge & Trap: OI Analytical Eclipse 4660 Concentrator (#10 trap) with Varian Archon Autosampler. Carrier and Purge Gas: Helium. Purge Flow: ~35 mL/min. at ambient. Temperature Program: 45°C (5.0 min.) 15°C /min. to 200°C (0 min.) 30°C /min to 230°C (2.67 min.).

Sample Preparation: This method has no extraction procedure for the low level water matrix. Prior to analysis the samples were spiked with internal standard/DMC solution and purged.

Instrument Calibration: The GC/MS was hardware tuned to meet the criteria for a 50 ng purging of 4-bromofluorobenzene as specified in the SOW. This tune is valid for 12 hours.

Initial Calibration and Calibration Verification: The five point initial calibration curve met the specified criteria in the SOW. All calibration verification standards met method specified criteria. For 5975-E the 130 ion was used in the quantitation of trichloroethene. Occasionally the system will fail to properly integrate a given compound. In these cases (including any listed below) a manual integration may be required. Any manual integration is noted by an "m" footnote on the quantitation report and a graphics page was included to show peak integration. Analytes which required a manual integration are summarized:

Sample	Initial Scan	Final Scan	Analyte

Blank Analysis: Method blanks were prepared using reagent water spiked with internal standard/DMC solution. All blanks were free of volatile organic contaminants within the specifications of the method.

Sample Analysis: All deuterated monitoring compounds and internal standard area responses were within the required acceptance criteria unless otherwise noted on forms II and VIII. All samples were analyzed within seven days of verified sample receipt.

MS/MSD Analysis: MS/MSD analyses were not required for this SDG.

Sample Calculations: All symbols are defined in section 8.3 of ALS SOP OV-EP-SOM and section 11.2 of SOM01.2. RRF = $(A_xC_{is})/(A_{is}C_x)$; Water Concentration = $(A_xI_sDF)/(V_oA_{is}\underline{RRF})$; Soil Conc.= $(A_xI_sDF)/(DW_sA_{is}\underline{RRF})$; Medium Level Conc. = $(A_xI_sAV_tDF1000)/(A_{is}\underline{RRF}V_aW_sD)$.

Miscellaneous Comments: As per the SOW, alkanes were not reported separately but rather were reported as "total alkanes." With regard to the naming of tentatively identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has reason to assign a different name. Reasons include but are not limited to previous experience with the compound or an instance where the retention time clearly indicates that a computer generated match is in fact not the compound in question. A specific compound name may be assigned to more than one peak. In any case, TIC naming is tentative and it cannot be assumed that reported compounds and specific isomers are correct.

I certify that this sample data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy sample data package and in the electronic data deliverable has been authorized by the laboratory manager or the manager's designee, as verified by the following signature.

6/19/15

Robert J. Haynes
Chemist
Volatile Organic Analysis Section

SDG Narrative
Semivolatiles Fraction

Contract: EPW11037
Case: 45316
SDG: F9L96
Laboratory Name: ALS Environmental

Sample Number	DCL Sample ID	Dilution	Fraction
F9M47	1515629002		SVOA, SIM
F9M53	1515629003		SVOA, SIM

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. There are no deviations from the SOW except as noted below.

Instrumentation: Agilent GC/MS system (ID 5975-D for SIM, 5975-G for full scan)
Column: J&W Scientific DB-5ms column, 95% dimethyl-(5%)-diphenylsiloxane, nonpolar 30 m x 0.32 mm I.D. with a 0.50 µm film thickness

Sample Preparation: Samples were prepared as stated in the SOW.

Instrument Calibration: (i.e.DFTPP tunes) All tunes met ion intensity ratio requirements. All samples and standards were analyzed within the twelve hour CCV period.

Initial and Continuing Calibration Verification: All initial and continuing calibration standards met minimum response factor, RSD and %D criteria.

Blank Analysis: The extraction blank met method criteria

Sample Analysis: All samples passed internal standard area and DMC recovery QC criteria.

MS/MSD Analysis: An MS/MSD analysis was not requested.

Dilutions: Any dilutions noted above were performed to preserve the integrity of the instrument or to bring the highest target compound within the range of the curve.

Miscellaneous Comments: Any manual edits were made in the calibration standards and samples for a variety of miscalled peaks. Every manual integration is noted by an "m" footnote on the quantitation report, and an additional graphics page is included for each manual integration to show how the peak was integrated. In order to satisfy the requirements of Exhibit B Section 2.5.1 which asks for a listing of each instance of manual integration, these manual integrations are also listed in the table below. The explanation for each of these manual integrations is that the data system did not correctly integrate the peak in its automated data evaluation procedure. More

specifically, some of the more common mis-integrated peaks are described as follows: Indeno(1,2,3-c,d)pyrene elutes near dibenz(a,h)anthracene, and a hump from the 276 ion in dibenz(a,h)anthracene sometimes needs to be manually excluded from Indeno(1,2,3-c,d)pyrene. Isomers such as anthracene and benzo(a)anthracene are often called as the similar and near-eluting phenanthrene or chrysene peak. Benzo(b) and Benzo(k)fluoranthene elute very closely to each other without baseline resolution between the two peaks. The automated peak finding routine quite often integrates both peaks as if they were one, and it is necessary to manually separate the isomers. 4-chloroaniline sometimes has the baseline drawn too high when the computer gets confused because of a near-eluting peak causing it to think the valley between peaks is actually the baseline. Bis(2-chloroethyl)ether sometimes needs to be manually separated from the near-eluting aniline. Caprolactam has a tail, especially at higher concentrations, that is often truncated, leaving the need to manually include the tail. Some phenolics and carbazole sometimes have the need to manually include the tailing. Acetophenone sometimes needs to be manually separated from a near-eluting 3-carbon alklyated benzene TIC peak. Benzo(ghi)perylene and dibenz(a,h)anthracene will sometimes be sliced in half by the automatic integration routine and a manual integration would be needed to include the entire peak. Perylene-d12 in the SIM analysis often needs to be manually separated from the baseline arising from benzo(a)pyrene-d12, a near-eluting and considerably larger isomer peak. Sometimes the automatic peak finding routine will simply miss a peak, making it necessary to manually include it. This was the case with all analytes not mentioned above.

For full-scan analysis:

Sample	Analyte	Scan start-stop	
SSTD080GT	Caprolactam	816	852

For SIM analysis:

Sample	Analyte	Scan start-stop

With regard to the naming of tentatively-identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has a specific reason to assign a different name. Reasons for assigning a TIC name other than the match with the highest fit value above 85% include instances in which the analyst has previous experience with respect to a specific compound. When the first computer-generated match is a target compound and retention time information clearly indicates the TIC is in fact not the target compound, the analyst reserves the right to give a more appropriate tentative identification. There may be instances in which a specific compound name is assigned to more than one peak. Even though specific names will usually be given to TICs with spectral fits above 85%, it must be understood by the data user that TIC names are very tentative, and it cannot be assumed that the specific isomers reported are correct. One case where specific names are not given to spectral matches above 85% is for alkanes, because the SOW requires alkanes to be reported as either straight-chain, branched or cyclic and summarized as "total alkanes."

Results on the raw data are expressed in units of µg/mL (micrograms per milliliter of the solution that was injected onto the GC/MS system). Final results are calculated by the following equations:

Water:

$$\text{Concentration } \mu g/L = \frac{(A_x)\ (I_s)\ (V_t)\ (DF)\ (GPC)}{(A_{is})\ (\overline{RRF})\ (V_o)\ (V_i)}$$

Soil:

$$\text{Concentration } \mu g/Kg \text{ (Dry weight basis)} = \frac{(A_x)\ (I_s)\ (V_t)\ (DF)\ (GPC)}{(A_{is})\ (\overline{RRF})\ (V_i)\ (W_s)\ (D)}$$

where all variables are as defined in Exhibit D/SVOA Sections 11.2.1.6 and 9.3.4.1.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

June 19, 2015

Steven Yourstone
Chemist
Semivolatile Organic Analysis Section

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: F9L96

☐ ARO ☐ PEST ☒ BNA ☒ BNASIM ☐ VT ☐ VOASIM ☒ VLM

Laboratory Name: ALS Laboratory Group (SLC)

Laboratory Code: DATAC

Contract No.: EPW11037

Case No.: 45316

Analysis Price: N/A

SDG Turnaround: 21

Modified Analysis Requested: NO

Program: SOM01.2

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) F9K01	7)	13)	19)
2) F9L96	8)	14)	20)
3) F9M46	9)	15)	21)
4) F9M47	10)	16)	22)
5) F9M53	11)	17)	23)
6) F9M80	12)	18)	24)

F9L96	F9K01
First Sample in SDG	Last Sample in SDG
06/02/15	06/05/15
First Sample Receipt Date	Last Sample Receipt Date

Note: *There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach the TR/COC records to this form in alphanumeric order (the order listed above on this form).*

Signature: /S/ Roxanne Olson

Date: 6/2/2015 3:48:02 PM

(/S/ is an electronic signature that complies with 21 CFR Part 11)

1515386

USEPA CLP COC (LAB COPY)

DateShipped: 6/1/2015

CarrierName: FedEx

AirbillNo: 773724815256

CHAIN OF CUSTODY RECORD F9L96

Case #: 45316

Cooler #:

No: 6-060115-180519-0073

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Copy original in SDG F9L98

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-008-001-44-20150601	F9L96	Water/ START	Grab	VOA(21)	1311 (HCl) (3)	FieldQC	06/01/2015 07:55	
WO-008-001-00-51	F9L98	Soil/ START	Composite	VOA(21)	1314 (Ice) (3)	008	06/01/2015 09:00	
WO-008-002-00-51	F9L99	Soil/ START	Composite	VOA(21)	1319 (Ice) (3)	008	06/01/2015 09:05	
WO-008-002-00-52	F9M00	Soil/ START	Composite	VOA(21)	1324 (Ice) (3)	008	06/01/2015 09:10	
WO-008-003-00-51	F9M01	Soil/ START	Composite	VOA(21)	1329 (Ice) (3)	008	06/01/2015 09:10	
WO-008-004-00-51	F9M02	Soil/ START	Composite	VOA(21)	1334 (Ice) (3)	008	06/01/2015 09:20	
WO-008-001-06-51	F9M03	Soil/ START	Composite	VOA(21)	1339 (Ice) (3)	008	06/01/2015 09:50	
WO-008-001-12-51	F9M04	Soil/ START	Composite	VOA(21)	1344 (Ice) (3)	008	06/01/2015 09:55	
WO-008-001-24-51	F9M05	Soil/ START	Composite	VOA(21)	1349 (Ice) (3)	008	06/01/2015 10:00	
WO-008-002-06-51	F9M06	Soil/ START	Composite	VOA(21)	1354 (Ice) (3)	008	06/01/2015 10:25	

Special Instructions: No Lab QC on VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
23/samples	Houston	6/1/15 2100	Fedex	6/1/15 2100	
	FedEx	6/2/2015 9:04	Meredith Edwards DATAL	6/2/2015 9:04	good

1515556

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737015872

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

No: 6-060215-181745-0082
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Copy original in Sdg F9M21

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-002-003-12-51	F9M41	Soil/ START	Composite	VOA(21)	1528 (Ice) (3)	002	06/02/2015 13:45	
WO-002-001-06-51	F9M42	Soil/ START	Composite	VOA(21)	1533 (Ice) (3)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	VOA(21)	1538 (Ice) (3)	002	06/02/2015 14:35	
WO-002-002-06-51	F9M44	Soil/ START	Composite	VOA(21)	1543 (Ice) (3)	002	06/02/2015 16:30	
WO-002-004-06-51	F9M45	Soil/ START	Composite	VOA(21)	1548 (Ice) (3)	002	06/02/2015 16:45	
WO-011-002-44-20150602	F9M46	Water/ START	Grab	VOA(21)	1552 (HCl) (3)	FieldQC	06/02/2015 17:25	

Special Instructions: No Lab QC VOA samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAL	6/3/2015 10:07	good

1515629

USEPA CLP COC (LAB COPY)

DateShipped: 6/3/2015
CarrierName: FedEx
AirbillNo: 773749421450

copy original inspc F9M46

CHAIN OF CUSTODY RECORD

Case #: 45316 F9L96
Cooler #:

No: 6-060315-191209-0096
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-002-06-51	F9M79	Soil/ START	Composite	VOA(21)	1712 (Ice) (3)	021	06/03/2015 15:15	Good
WO-021-001-44-20150603	F9M80	Water/ START	Grab	VOA(21)	1716 (HCl) (3)	FieldQC	06/03/2015 18:30	1st Field Sample

Special Instructions: No Lab QC VOA Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] weston	6/3/15 @ 2100	FedEx	6/3/15 @ 2100	
Sample receipt	FedEx	06/04/2015 09:15	[signature] DATAC	06/04/2015 09:15	Good

USEPA CLP COC (LAB COPY)
DateShipped: 6/3/2015
CarrierName: FedEx
AirbillNo: 805467748535

CHAIN OF CUSTODY RECORD

F9L96

Case #: 45316
Cooler #:

No: 6-060315-194232-0101
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-002-004-43-20150603	F9M47	Water/ START	Grab	SVOA/SVOASIM(21)	1553 (Ice) (4)	FieldQC	06/03/2015 08:10	Good
WO-002-002-43-20150603	F9M53	Water/ START	Grab	SVOA/SVOASIM(21)	1582 (Ice) (4)	FieldQC	06/03/2015 08:15	

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	6/3/15 @ 2100	FedEx	6/3/15 @ 2100	
Sample Receipt	FedEx	06/04/2015 09:15	DATAC	06/04/2015 09:15	Good

1515739

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754114460

Copy original in SDG F9K00

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9L96
~~F9K00~~
005. 06/05/2015

No: 6-060415-161725-0111
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-004-06-51	F9K00	Soil/ START	Composite	VOA(21)	1809 (Ice) (3)	021	06/04/2015 11:00	Good
WO-019-003-44-20150604	F9K01	Water/ START	Grab	VOA(21)	1813 (HCl) (3)	FieldQC	06/04/2015 14:55	
WO-019-003-00-51	F9M82	Soil/ START	Composite	VOA(21)	1719 (Ice) (3)	021	06/04/2015 08:10	
WO-019-003-00-52	F9M83	Soil/ START	Composite	VOA(21)	1724 (Ice) (3)	021	06/04/2015 08:15	
WO-019-003-06-51	F9M84	Soil/ START	Composite	VOA(21)	1729 (Ice) (3)	021	06/04/2015 08:30	
WO-019-005-00-51	F9M85	Soil/ START	Composite	VOA(21)	1734 (Ice) (3)	021	06/04/2015 08:35	
WO-019-005-00-52	F9M86	Soil/ START	Composite	VOA(21)	1739 (Ice) (3)	021	06/04/2015 08:40	
WO-019-007-00-51	F9M87	Soil/ START	Composite	VOA(21)	1744 (Ice) (3)	021	06/04/2015 09:05	
WO-019-005-06-51	F9M88	Soil/ START	Composite	VOA(21)	1749 (Ice) (3)	021	06/04/2015 09:00	
WO-019-005-12-51	F9M89	Soil/ START	Composite	VOA(21)	1754 (Ice) (3)	021	06/04/2015 09:05	

Special Instructions: No Lab QC VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
20/samples	[signature] Weston	6/4/15 2100	Fedex	6/4/15 2100	
	FedEx	06/05/2015 10:09	[signature] DATAC	06/05/2015 10:09	Good

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	F9K01	97	105	75	84	94	96	93
02	F9L96	93	97	74	93	94	100	93
03	F9M46	93	99	74	89	95	99	92
04	F9M80	95	101	75	89	95	99	93
05	VBLKW1	96	101	76	97	96	98	94
06	VHBLKW1	94	97	75	96	94	96	92
07								
08								
09								
10								
11								
12								
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27								
28								
29								
30								

	QC LIMITS
VDMC1 (VCL) = Vinyl chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	F9K01	93	95	92	83	95	90	97	0
02	F9L96	93	95	94	90	103	94	95	0
03	F9M46	94	95	93	88	95	92	97	0
04	F9M80	93	96	94	87	93	91	98	0
05	VBLKW1	93	95	92	90	97	91	97	0
06	VHBLKW1	92	95	91	90	93	90	96	0
07									
08									
09									
10									
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28									
29									
30									

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Lab File ID: EQ89BLK Lab Sample ID: 451200

Instrument ID: 5975-E

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 06/11/2015

Level: (TRACE or LOW/MED) LOW Time Analyzed: 09:37

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F9K01	1515739001	EQ90FK01	10:03
02	F9M46	1515556001	EQ91FM46	10:27
03	F9M80	1515629001	EQ92FM80	10:51
04	F9L96	1515386001	EQ94FM96	11:39
05	VHBLKW1	451199	EQ95HBLK	12:05
06				
07				
08				
09				
10				
11				
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COMMENTS:

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFBSE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Lab File ID: EQ42BFB BFB Injection Date: 06/08/2015

Instrument ID: 5975-E BFB Injection Time: 16:21

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 80.0% of mass 95	46.4
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	0.2 (0.2) 1
174	50.0 - 120% of mass 95	87.5
175	5.0 - 9.0% of mass 174	6.5 (7.4) 1
176	95.0 - 101% of mass 174	85.1 (97.3) 1
177	5.0 - 9.0% of mass 176	5.7 (6.6) 2

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005SE	VSTD005SE	EQ43S05	06/08/2015	16:45
02	VSTD010SE	VSTD010SE	EQ44S10	06/08/2015	17:09
03	VSTD050SE	VSTD050SE	EQ45S50	06/08/2015	17:37
04	VSTD100SE	VSTD100SE	EQ46S100	06/08/2015	18:01
05	VSTD200SE	VSTD200SE	EQ47S200	06/08/2015	18:25
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFBW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Lab File ID: EQ87BFB BFB Injection Date: 06/11/2015

Instrument ID: 5975-E BFB Injection Time: 08:47

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 80.0% of mass 95	47.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.4 (0.4) 1
174	50.0 - 120% of mass 95	91.8
175	5.0 - 9.0% of mass 174	6.9 (7.5) 1
176	95.0 - 101% of mass 174	90.9 (99.0) 1
177	5.0 - 9.0% of mass 176	6.0 (6.6) 2

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050W1	VSTD050W1	EQ88S50	06/11/2015	09:11
02	VBLKW1	451200	EQ89BLK	06/11/2015	09:37
03	F9K01	1515739001	EQ90FK01	06/11/2015	10:03
04	F9M46	1515556001	EQ91FM46	06/11/2015	10:27
05	F9M80	1515629001	EQ92FM80	06/11/2015	10:51
06	F9L96	1515386001	EQ94FM96	06/11/2015	11:39
07	VHBLKW1	451199	EQ95HBLK	06/11/2015	12:05
08	VSTD050W2	VSTD050W2	EQ96S50	06/11/2015	12:29
09					
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18					
19					
20					
21					
22					

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No.(VSTD#####): VSTD050W1 Date Analyzed: 06/11/2015

Lab File ID (Standard): EQ88S50 Time Analyzed: 09:11

Instrument ID: 5975-E Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1340881	10.60	1492439	7.40	760612	13.00
	UPPER LIMIT	2681762	11.10	2984878	7.90	1521224	13.50
	LOWER LIMIT	670441	10.10	746220	6.90	380306	12.50
	EPA SAMPLE NO.						
01	VBLKW1	1384799	10.60	1537619	7.40	768124	13.00
02	F9K01	1365659	10.60	1532371	7.40	759498	13.00
03	F9M46	1381067	10.61	1529221	7.40	754185	13.00
04	F9M80	1413715	10.60	1566406	7.40	768363	13.00
05	F9L96	1350947	10.60	1490420	7.40	750346	13.00
06	VHBLKW1	1410554	10.60	1566601	7.40	766532	13.00
07							
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20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K01

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515739001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ90FK01

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	3.6	JB
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.36	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K01

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515739001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ90FK01

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. _____ Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	6.5	
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	0.75	JB
95-47-6	o-Xylene	1.2	JB
179601-23-1	m,p-Xylene	2.2	JB
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.17	JB
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9K01

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515739001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ90FK01

Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
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28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

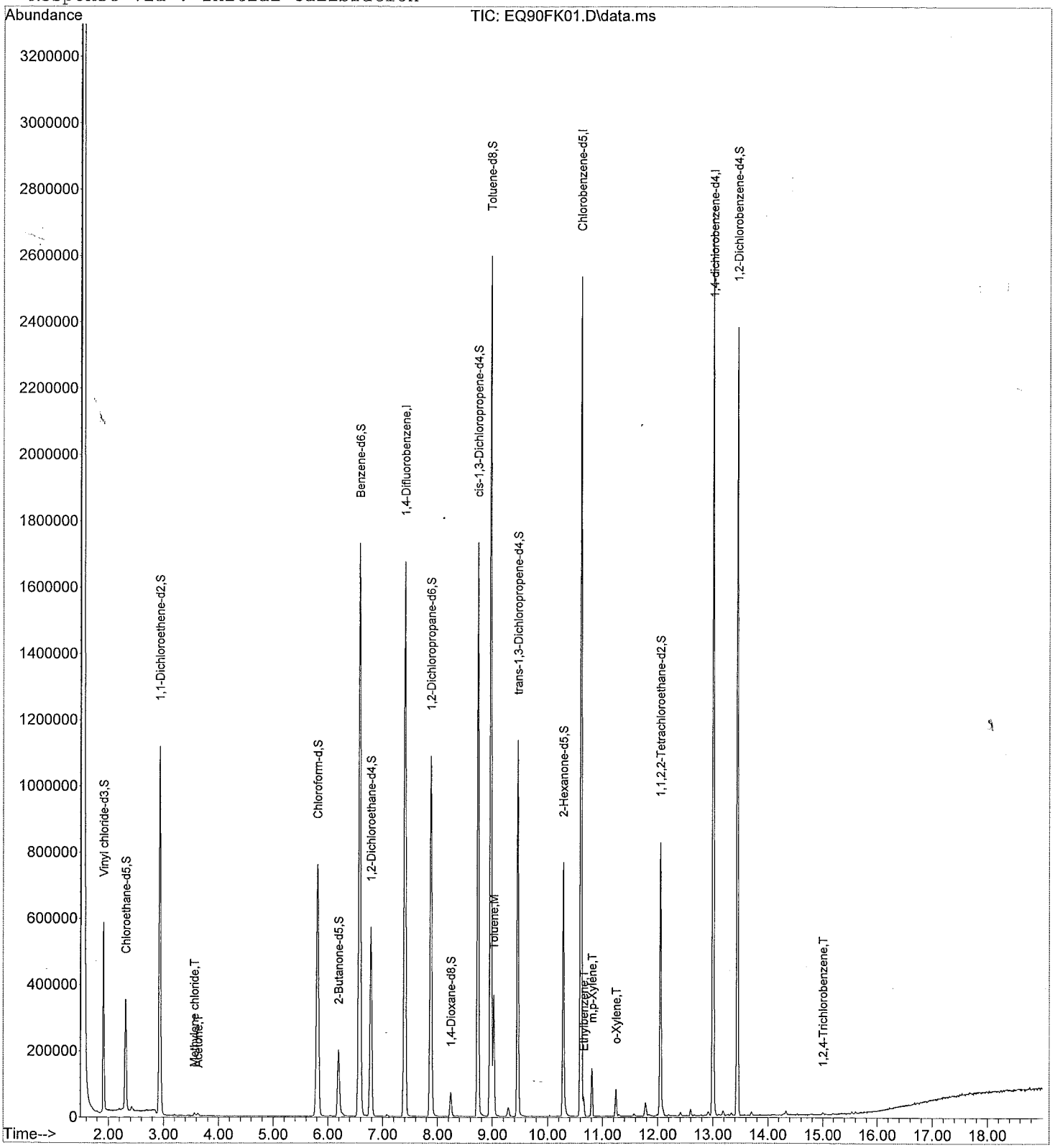
[1] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ90FK01.D Vial: 4
Acq Time : 06/11/2015 10:03 Operator: RJH
Sample : 1515739001 F9K01 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:48:49 2015 Results File: ECLPSB4.RES

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri Jun 19 13:58:26 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ90FK01.D Vial: 4
Acq Time : 06/11/2015 10:03 Operator: RJH
Sample : 1515739001 F9K01 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:48:49 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1532371	50.0000 ug/Kg	85.71
30) Chlorobenzene-d5	10.60	117	1365659	50.0000 ug/Kg	89.29
62) 1,4-dichlorobenzene-d4	13.00	152	759498	50.0000 ug/Kg	87.40
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	495660	48.6466 ug/Kg	97.29%
8) Chloroethane-d5	2.32	69	333783	52.6616 ug/Kg	105.32%
11) 1,1-Dichloroethene-d2	2.93	63	864679	37.5778 ug/Kg	75.16%
22) 2-Butanone-d5	6.19	46	351502	83.5112 ug/Kg	83.51%
25) Chloroform-d	5.81	84	851495	46.9787 ug/Kg	93.96%
27) 1,2-Dichloroethane-d4	6.78	65	478170	47.9949 ug/Kg	95.99%
29) 1,4-Dioxane-d8	8.24	96	53559	946.4857 ug/Kg	94.65%
35) Benzene-d6	6.58	84	1853521	46.5648 ug/Kg	93.13%
39) 1,2-Dichloropropane-d6	7.88	67	540430	46.3020 ug/Kg	92.60%
42) cis-1,3-Dichloropropene-d4	8.74	79	983229	45.8204 ug/Kg	91.64%
44) trans-1,3-Dichloropropene-	9.46	79	595040	46.1311 ug/Kg	92.26%
49) Toluene-d8	8.97	98	1749176	47.5519 ug/Kg	95.10%
52) 2-Hexanone-d5	10.28	63	252440	83.2248 ug/Kg	83.22%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	414932	44.8100 ug/Kg	89.62%
67) 1,2-Dichlorobenzene-d4	13.44	152	655300	48.2619 ug/Kg	96.52%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	14716	3.6331 ug/Kg	83
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	3426	0.3586 ug/Kg	93
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ90FK01.D Vial: 4
Acq Time : 06/11/2015 10:03 Operator: RJH
Sample : 1515739001 F9K01 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

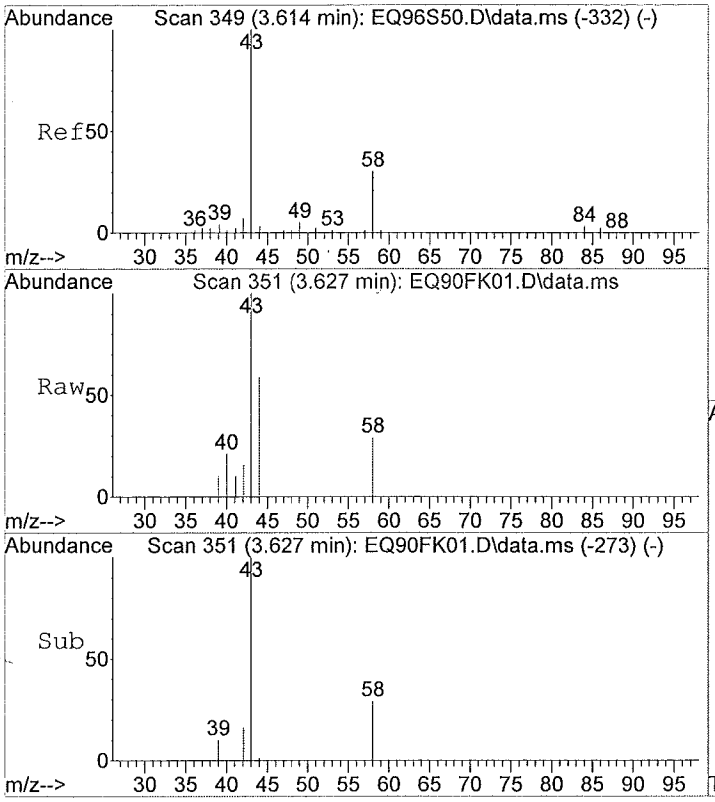
Quant Time: Jun 19 13:48:49 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	266839	6.5141 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	10.66	91	34590	0.7482 ug/Kg	98
56)	m,p-Xylene	10.81	106	41223	2.1925 ug/Kg	98
57)	o-Xylene	11.25	106	22399	1.2271 ug/Kg	99
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	15.00	180	2507	0.1699 ug/Kg#	91
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

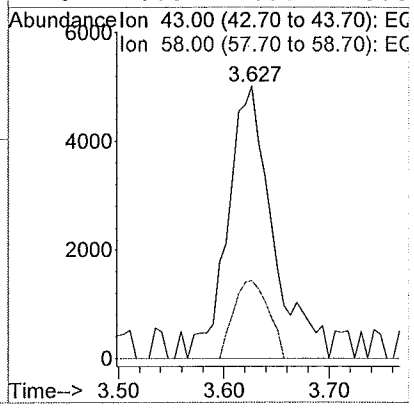
: 00024

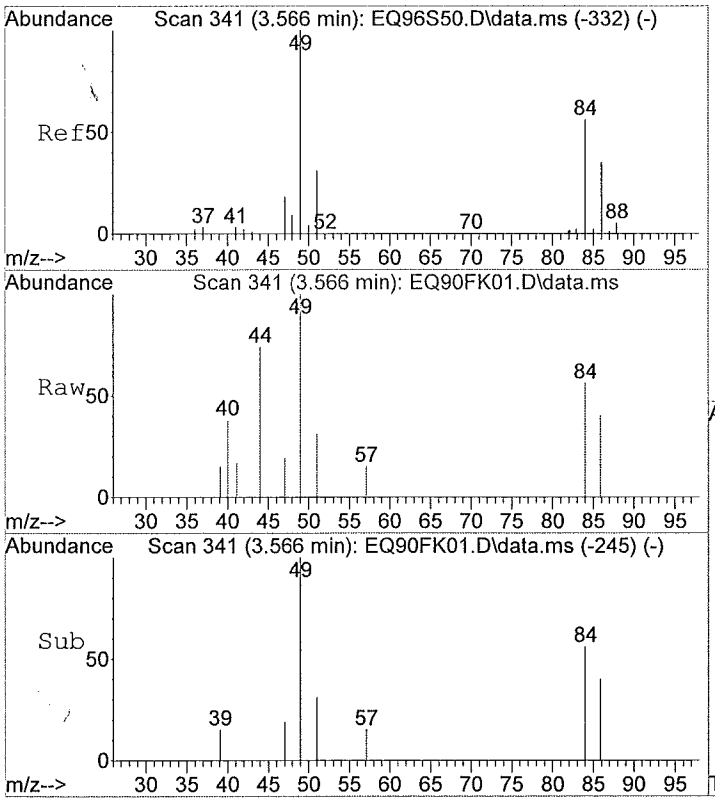


#13
Acetone
Concen: 3.63 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EQ90FK01.D
Acq: 06/11/2015 10:03

Tgt Ion:43 Resp: 14716

Ion	Ratio	Lower	Upper
43	100		
58	22.1	15.8	47.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

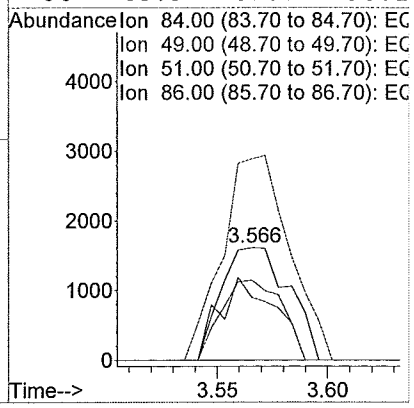


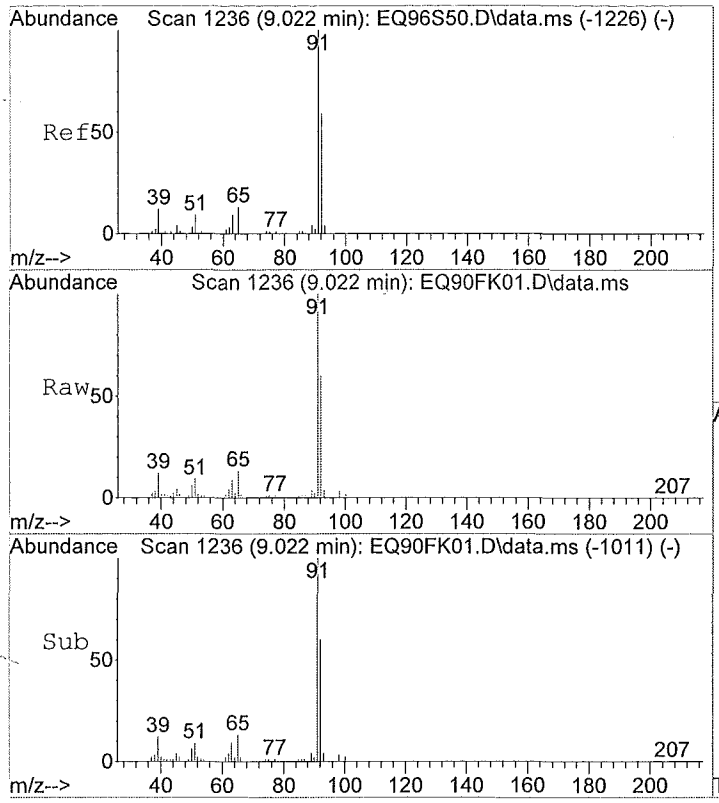


#16
Methylene chloride
Concen: 0.36 ug/Kg
RT: 3.57 min Scan# 341
Delta R.T. 0.00 min
Lab File: EQ90FK01.D
Acq: 06/11/2015 10:03

Tgt Ion:84 Resp: 3426

Ion	Ratio	Lower	Upper
84	100		
49	181.1	85.0	254.9
51	59.7	26.5	79.5
86	63.9	31.7	95.1

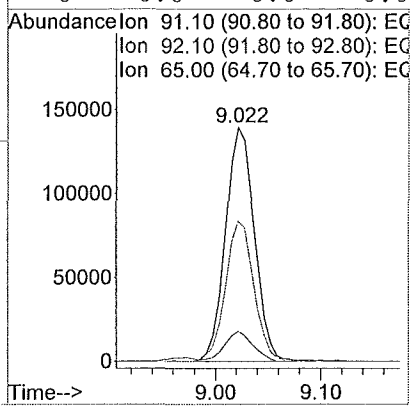


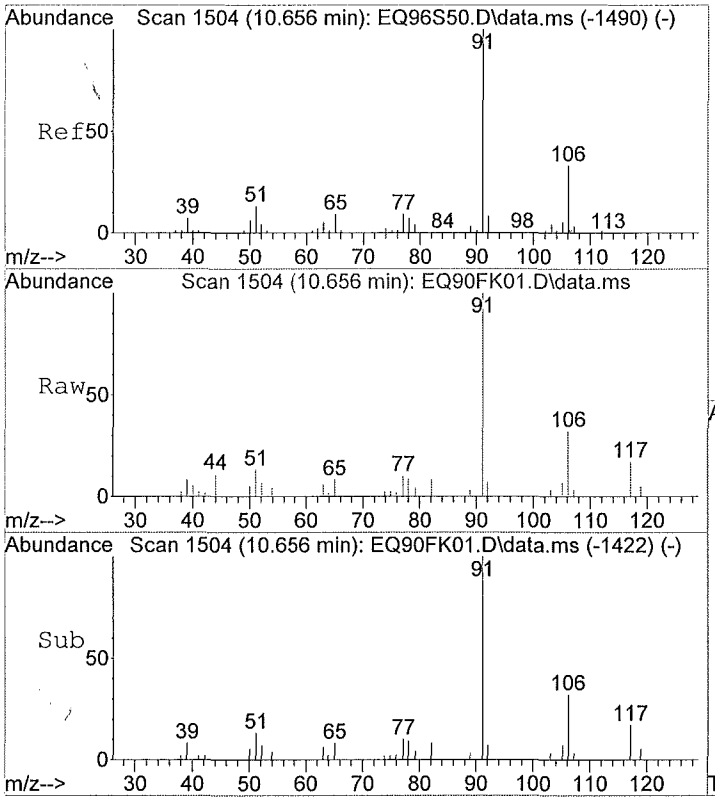


#48
Toluene
Concen: 6.51 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. 0.00 min
Lab File: EQ90FK01.D
Acq: 06/11/2015 10:03

Tgt Ion:91.1 Resp: 266839

Ion	Ratio	Lower	Upper
91	100		
92	58.6	47.8	71.6
65	12.4	10.1	15.1
0	0.0	0.0	0.0

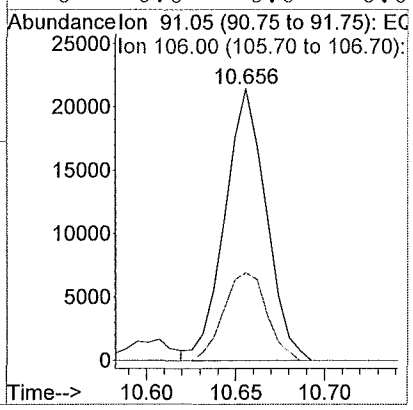


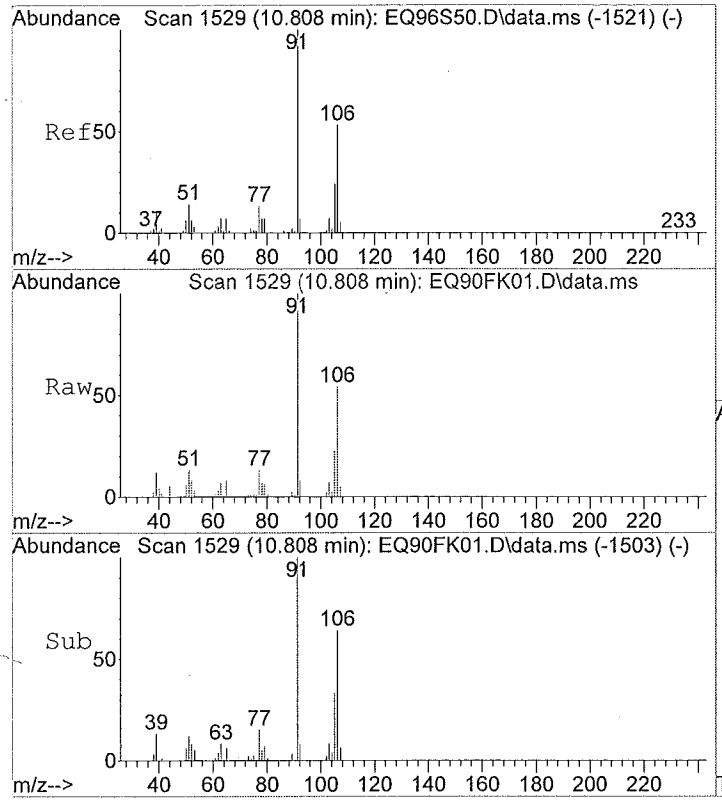


#55
Ethylbenzene
Concen: 0.75 ug/Kg
RT: 10.66 min Scan# 1504
Delta R.T. 0.00 min
Lab File: EQ90FK01.D
Acq: 06/11/2015 10:03

Tgt Ion:91.05 Resp: 34590

Ion	Ratio	Lower	Upper
91	100		
106	33.7	26.0	39.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

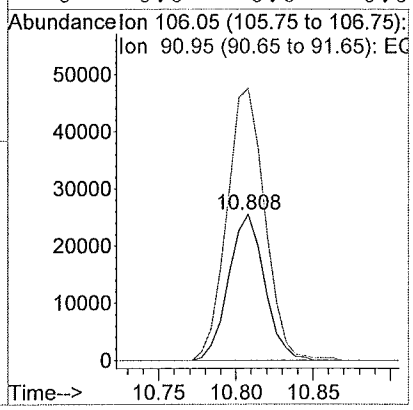


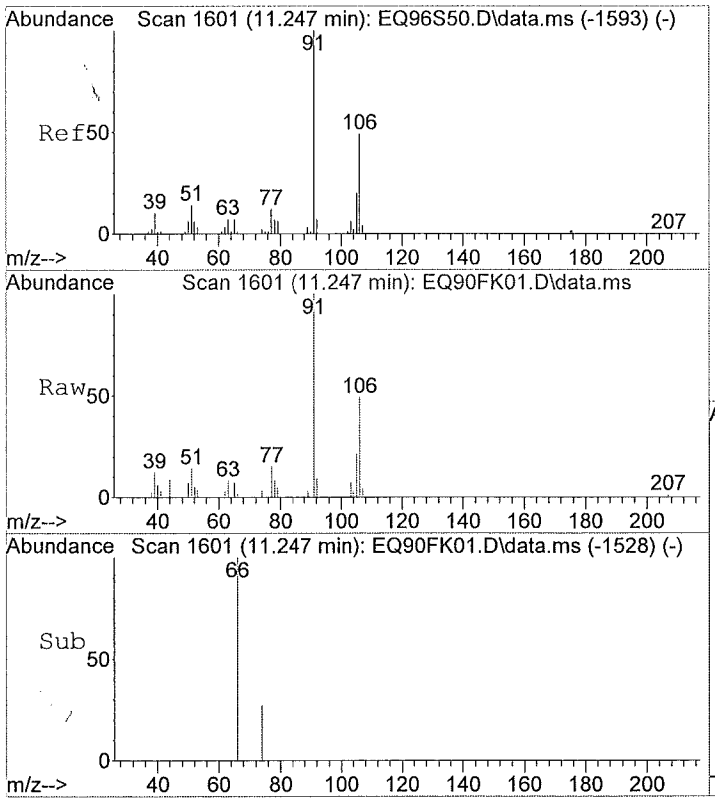


#56
m,p-Xylene
Concen: 2.19 ug/Kg
RT: 10.81 min Scan# 1529
Delta R.T. 0.00 min
Lab File: EQ90FK01.D
Acq: 06/11/2015 10:03

Tgt Ion:106.05 Resp: 41223

Ion	Ratio	Lower	Upper
106	100		
91	196.9	155.5	233.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

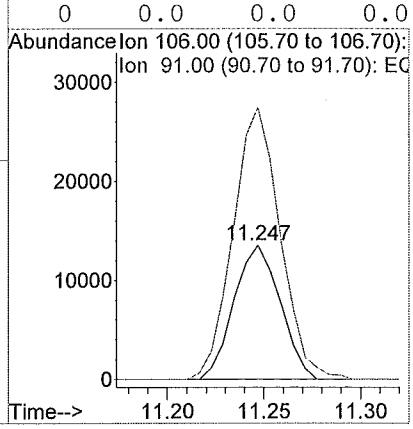


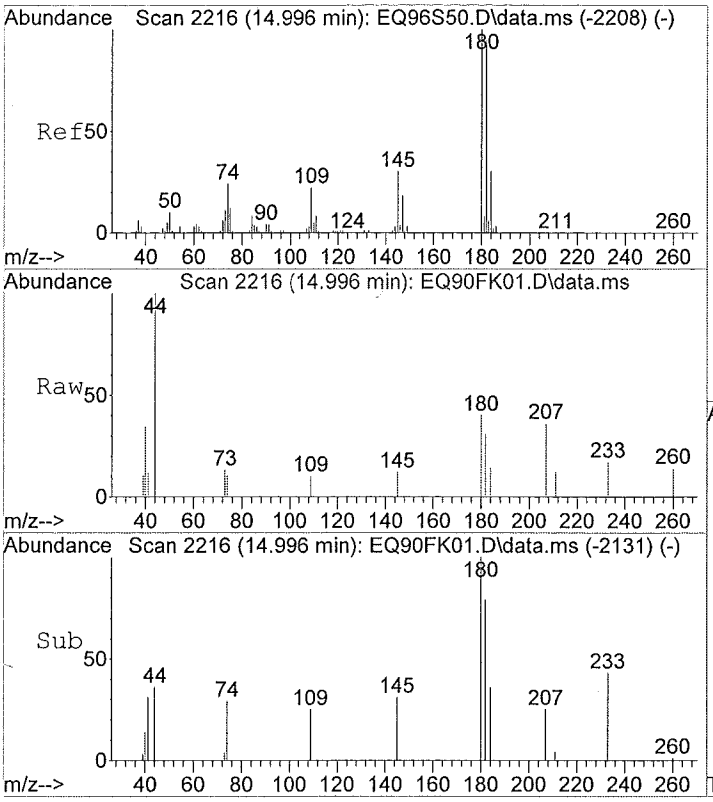


#57
o-Xylene
Concen: 1.23 ug/Kg
RT: 11.25 min Scan# 1601
Delta R.T. 0.00 min
Lab File: EQ90FK01.D
Acq: 06/11/2015 10:03

Tgt Ion:106 Resp: 22399

Ion	Ratio	Lower	Upper
106	100		
91	206.9	102.7	308.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

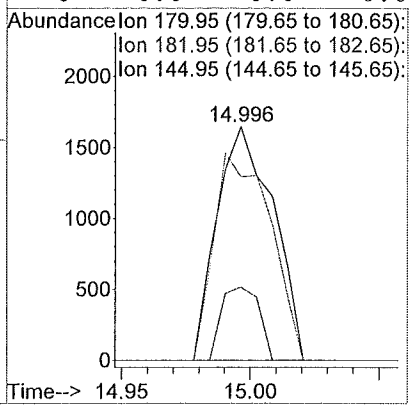




#69
1,2,4-Trichlorobenzene
Concen: 0.17 ug/Kg
RT: 15.00 min Scan# 2216
Delta R.T. 0.00 min
Lab File: EQ90FK01.D
Acq: 06/11/2015 10:03

Tgt Ion:179.95 Resp: 2507

Ion	Ratio	Lower	Upper
180	100		
182	89.2	76.6	114.8
145	20.9	23.6	35.4#
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515386001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ94FM96

Level: (TRACE/LOW/MED) LOW Date Received: 06/02/2015

% Moisture: not dec. _____ Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	3.3	JB
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.38	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515386001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ94FM96

Level: (TRACE/LOW/MED) LOW Date Received: 06/02/2015

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	14.	
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	1.5	JB
95-47-6	o-Xylene	2.1	JB
179601-23-1	m,p-Xylene	5.4	B
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515386001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ94FM96

Level: (TRACE or LOW/MED) LOW Date Received: 06/02/2015

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

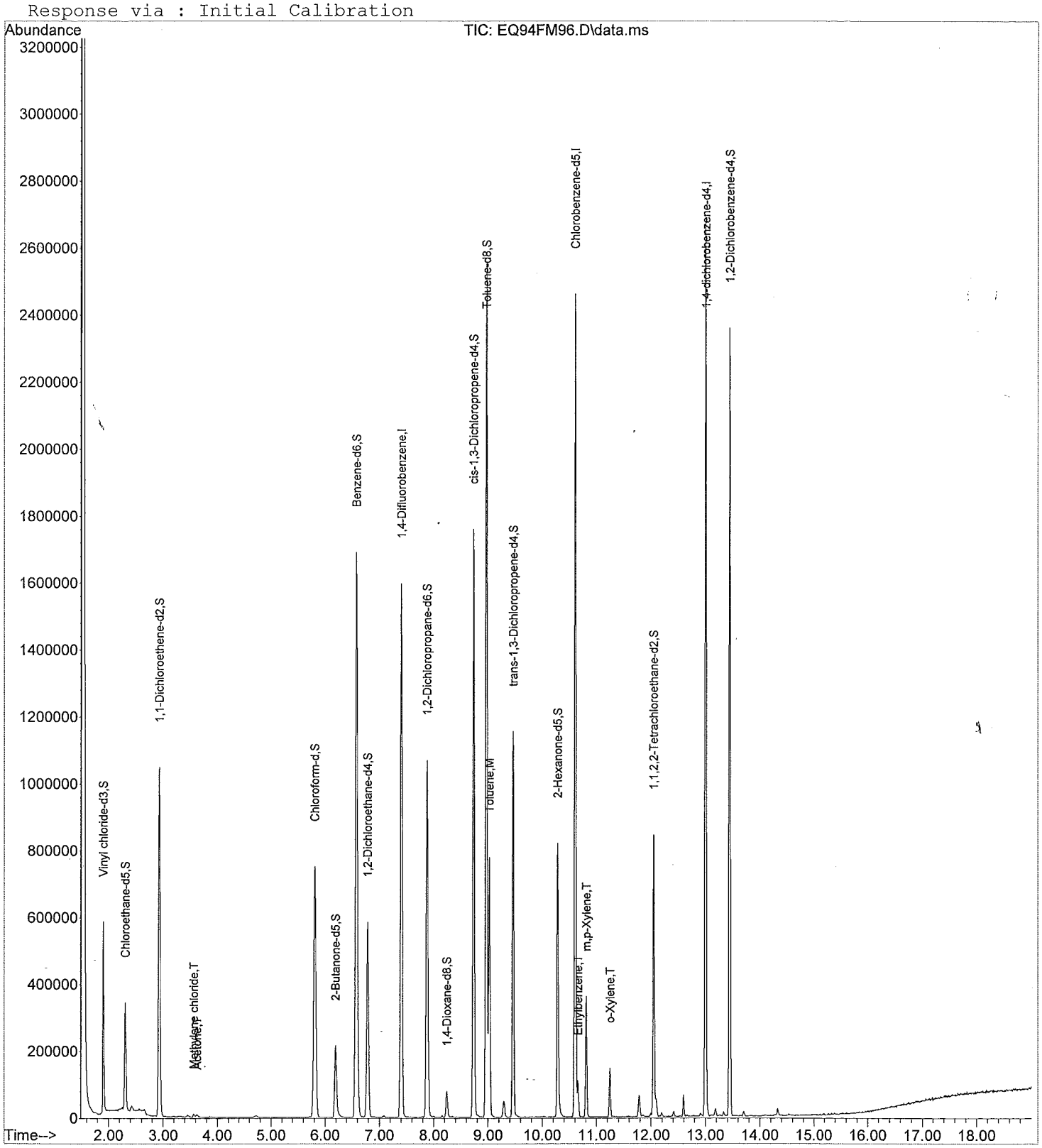
Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ94FM96.D Vial: 8
Acq Time : 06/11/2015 11:39 Operator: RJH
Sample : 1515386001 F9L96 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:57:09 2015 Results File: ECLPSB4.RES

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri Jun 19 13:58:26 2015
Response via : Initial Calibration

6/19/15



Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ94FM96.D Vial: 8
Acq Time : 06/11/2015 11:39 Operator: RJH
Sample : 1515386001 F9L96 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:57:09 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1490420	50.0000 ug/Kg	83.36
30) Chlorobenzene-d5	10.60	117	1350947	50.0000 ug/Kg	88.33
62) 1,4-dichlorobenzene-d4	13.00	152	750346	50.0000 ug/Kg	86.34
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	459588	46.3759 ug/Kg	92.75%
8) Chloroethane-d5	2.31	69	298251	48.3801 ug/Kg	96.76%
11) 1,1-Dichloroethene-d2	2.93	63	828035	36.9982 ug/Kg	74.00%
22) 2-Butanone-d5	6.19	46	378977	92.5731 ug/Kg	92.57%
25) Chloroform-d	5.81	84	831084	47.1432 ug/Kg	94.29%
27) 1,2-Dichloroethane-d4	6.78	65	485947	50.1484 ug/Kg	100.30%
29) 1,4-Dioxane-d8	8.24	96	56761	1031.3044 ug/Kg	103.13%
35) Benzene-d6	6.58	84	1827545	46.4122 ug/Kg	92.82%
39) 1,2-Dichloropropane-d6	7.88	67	537251	46.5310 ug/Kg	93.06%
42) cis-1,3-Dichloropropene-d4	8.74	79	982098	46.2661 ug/Kg	92.53%
44) trans-1,3-Dichloropropene-	9.46	79	597462	46.8233 ug/Kg	93.65%
49) Toluene-d8	8.97	98	1735340	47.6895 ug/Kg	95.38%
52) 2-Hexanone-d5	10.28	63	269065	89.6717 ug/Kg	89.67%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	428304	46.7578 ug/Kg	93.52%
67) 1,2-Dichlorobenzene-d4	13.44	152	638717	47.6143 ug/Kg	95.23%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.62	43	13150	3.3379 ug/Kg	90
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	3487	0.3752 ug/Kg	77
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

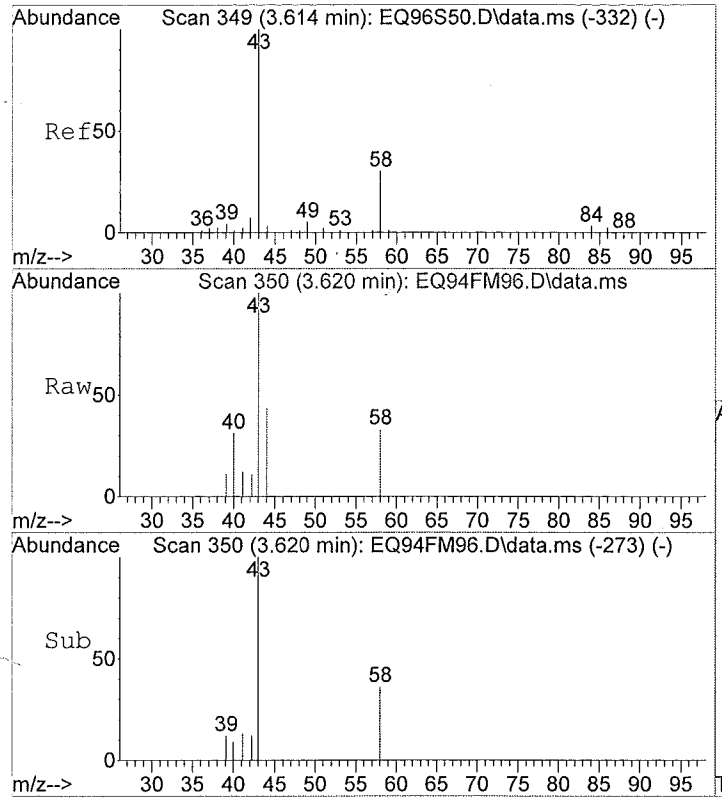
Data File : C:\msdchem\1\DATA\11JUN15E\EQ94FM96.D Vial: 8
Acq Time : 06/11/2015 11:39 Operator: RJH
Sample : 1515386001 F9L96 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:57:09 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	566757	13.9863 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	10.66	91	69190	1.5130 ug/Kg	98
56)	m,p-Xylene	10.81	106	101358	5.4495 ug/Kg	99
57)	o-Xylene	11.25	106	38529	2.1337 ug/Kg	93
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

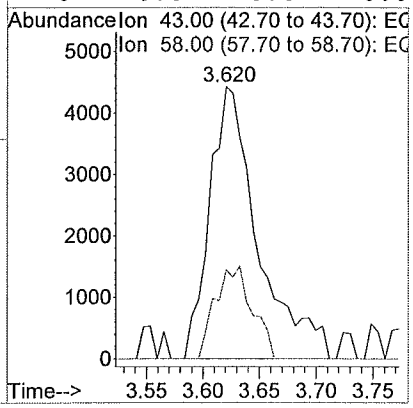
(#) = qualifier out of range (m) = manual integration

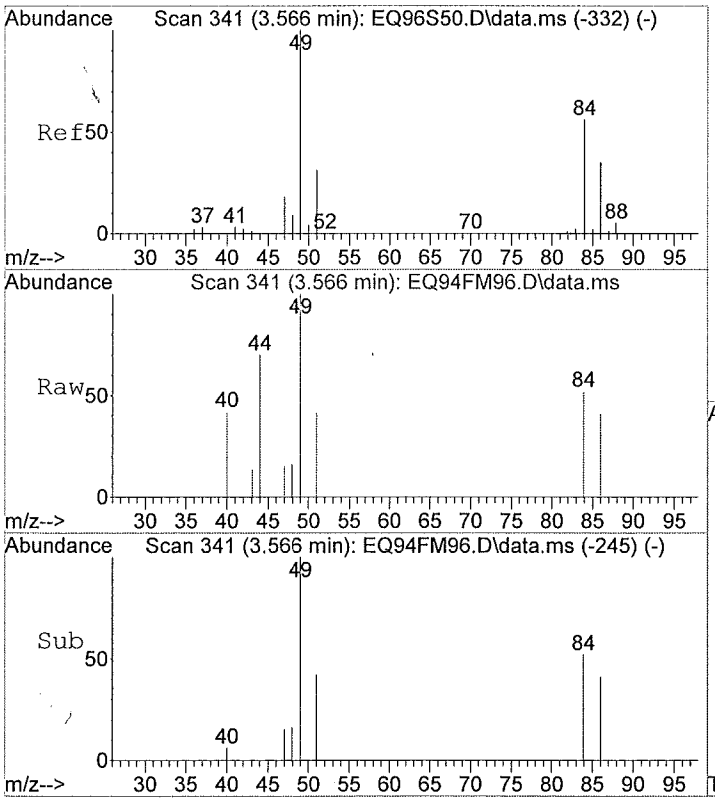


#13
Acetone
Concen: 3.34 ug/Kg
RT: 3.62 min Scan# 350
Delta R.T. 0.01 min
Lab File: EQ94FM96.D
Acq: 06/11/2015 11:39

Tgt Ion:43 Resp: 13150

Ion	Ratio	Lower	Upper
43	100		
58	26.1	15.8	47.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

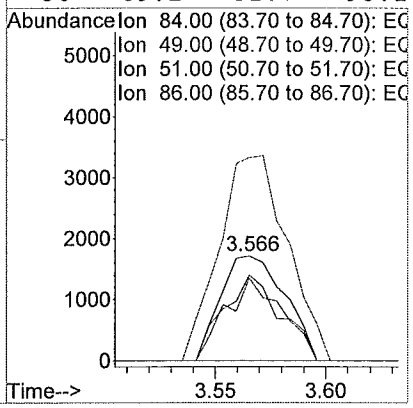


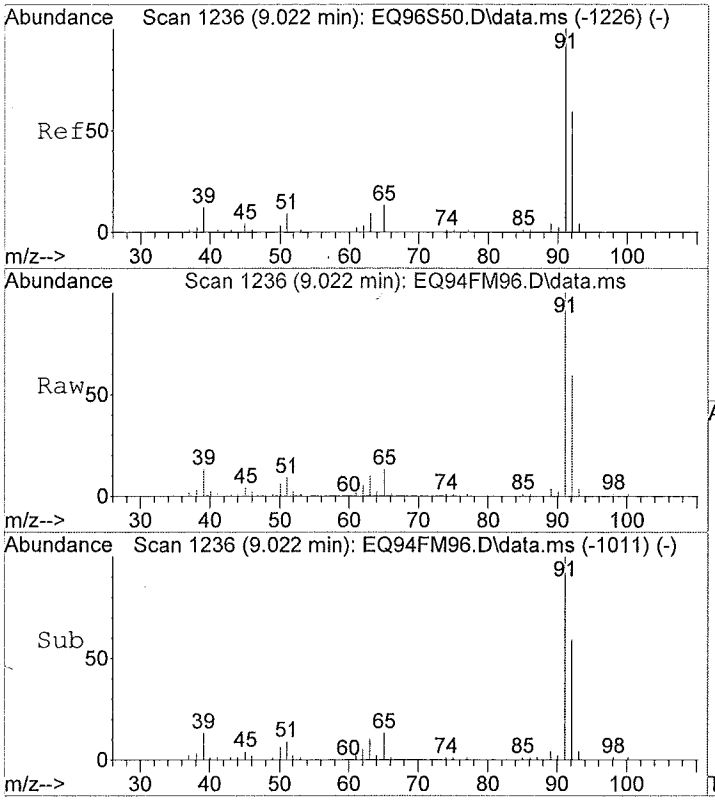


#16
Methylene chloride
Concen: 0.38 ug/Kg
RT: 3.57 min Scan# 341
Delta R.T. 0.00 min
Lab File: EQ94FM96.D
Acq: 06/11/2015 11:39

Tgt Ion:84 Resp: 3487

Ion	Ratio	Lower	Upper
84	100		
49	207.5	85.0	254.9
51	72.2	26.5	79.5
86	69.2	31.7	95.1

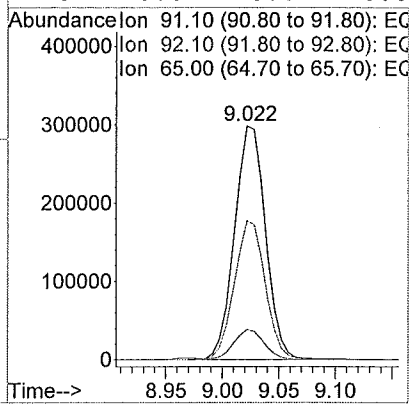


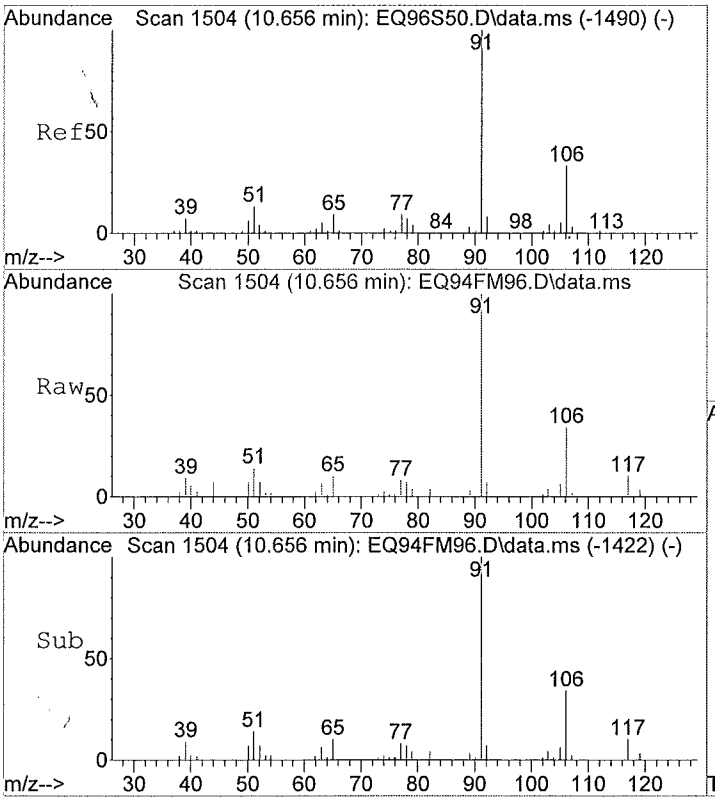


#48
Toluene
Concen: 13.99 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. 0.00 min
Lab File: EQ94FM96.D
Acq: 06/11/2015 11:39

Tgt Ion:91.1 Resp: 566757

Ion	Ratio	Lower	Upper
91	100		
92	59.1	47.8	71.6
65	12.6	10.1	15.1
0	0.0	0.0	0.0

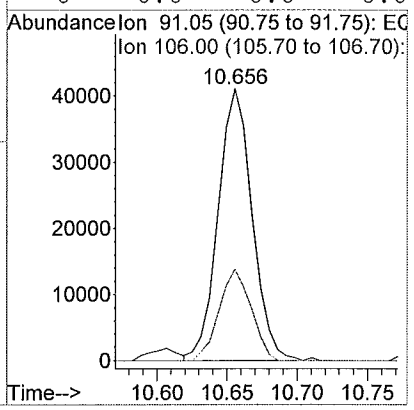


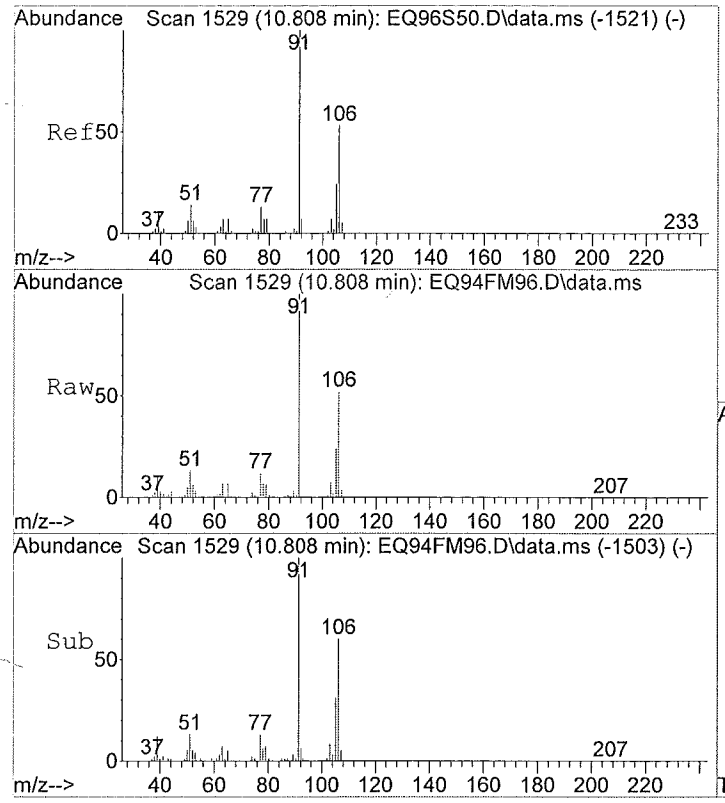


#55
Ethylbenzene
Concen: 1.51 ug/Kg
RT: 10.66 min Scan# 1504
Delta R.T. 0.00 min
Lab File: EQ94FM96.D
Acq: 06/11/2015 11:39

Tgt Ion:91.05 Resp: 69190

Ion	Ratio	Lower	Upper
91	100		
106	31.6	26.0	39.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

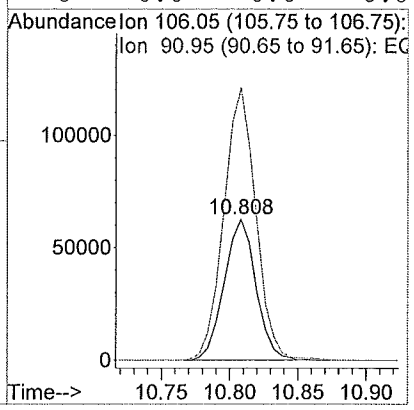


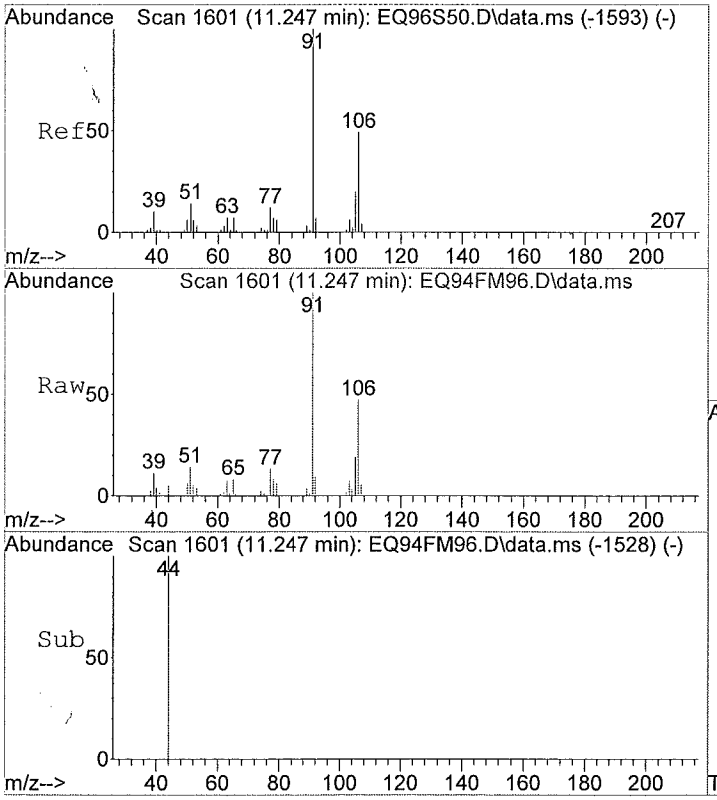


#56
m,p-Xylene
Concen: 5.45 ug/Kg
RT: 10.81 min Scan# 1529
Delta R.T. 0.00 min
Lab File: EQ94FM96.D
Acq: 06/11/2015 11:39

Tgt Ion:106.05 Resp: 101358

Ion	Ratio	Lower	Upper
106	100		
91	195.5	155.5	233.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

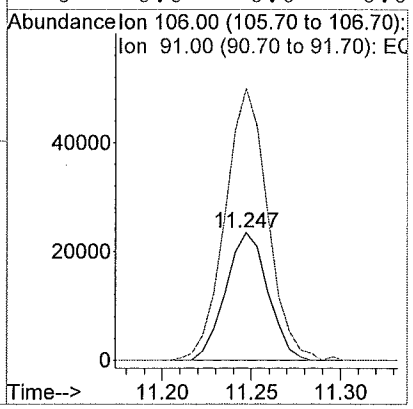




#57
o-Xylene
Concen: 2.13 ug/Kg
RT: 11.25 min Scan# 1601
Delta R.T. 0.00 min
Lab File: EQ94FM96.D
Acq: 06/11/2015 11:39

Tgt Ion:106 Resp: 38529

Ion	Ratio	Lower	Upper
106	100		
91	216.0	102.7	308.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M46

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515556001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ91FM46

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	3.7	JB
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.56	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M46

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515556001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ91FM46

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	10.	
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	1.2	JB
95-47-6	o-Xylene	2.2	JB
179601-23-1	m,p-Xylene	5.1	B
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M46

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515556001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ91FM46

Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

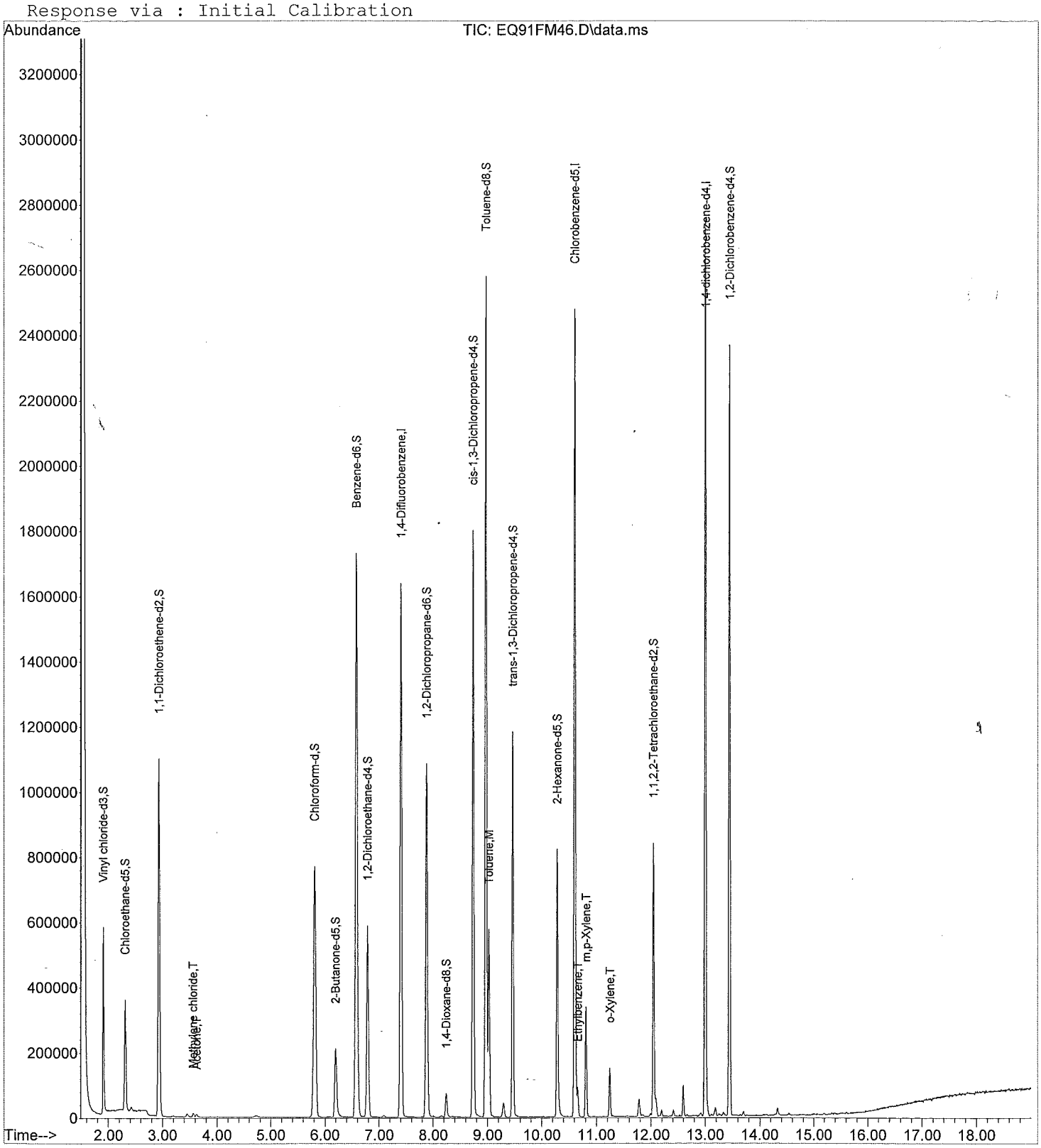
Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ91FM46.D Vial: 5
Acq Time : 06/11/2015 10:27 Operator: RJH
Sample : 1515556001 F9M46 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:54:04 2015 Results File: ECLPSB4.RES

AOff 6/19/15

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri Jun 19 13:58:26 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ91FM46.D Vial: 5
Acq Time : 06/11/2015 10:27 Operator: RJH
Sample : 1515556001 F9M46 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:54:04 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1529221	50.0000 ug/Kg	85.53
30) Chlorobenzene-d5	10.61	117	1381067	50.0000 ug/Kg	90.30
62) 1,4-dichlorobenzene-d4	13.00	152	754185	50.0000 ug/Kg	86.78
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	471835	46.4037 ug/Kg	92.81%
8) Chloroethane-d5	2.31	69	313938	49.6326 ug/Kg	99.27%
11) 1,1-Dichloroethene-d2	2.93	63	849611	36.9990 ug/Kg	74.00%
22) 2-Butanone-d5	6.19	46	373045	88.8120 ug/Kg	88.81%
25) Chloroform-d	5.81	84	862772	47.6989 ug/Kg	95.40%
27) 1,2-Dichloroethane-d4	6.78	65	489976	49.2812 ug/Kg	98.56%
29) 1,4-Dioxane-d8	8.24	96	53640	949.8697 ug/Kg	94.99%
35) Benzene-d6	6.58	84	1860998	46.2310 ug/Kg	92.46%
39) 1,2-Dichloropropane-d6	7.88	67	551965	46.7627 ug/Kg	93.53%
42) cis-1,3-Dichloropropene-d4	8.74	79	998194	45.9988 ug/Kg	92.00%
44) trans-1,3-Dichloropropene-	9.46	79	609560	46.7296 ug/Kg	93.46%
49) Toluene-d8	8.97	98	1772096	47.6375 ug/Kg	95.28%
52) 2-Hexanone-d5	10.28	63	270629	88.2259 ug/Kg	88.23%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	430308	45.9520 ug/Kg	91.90%
67) 1,2-Dichlorobenzene-d4	13.44	152	655861	48.6435 ug/Kg	97.29%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	15136	3.7445 ug/Kg	81
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.56	84	5294	0.5552 ug/Kg	98
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

:00042

Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ91FM46.D Vial: 5
Acq Time : 06/11/2015 10:27 Operator: RJH
Sample : 1515556001 F9M46 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

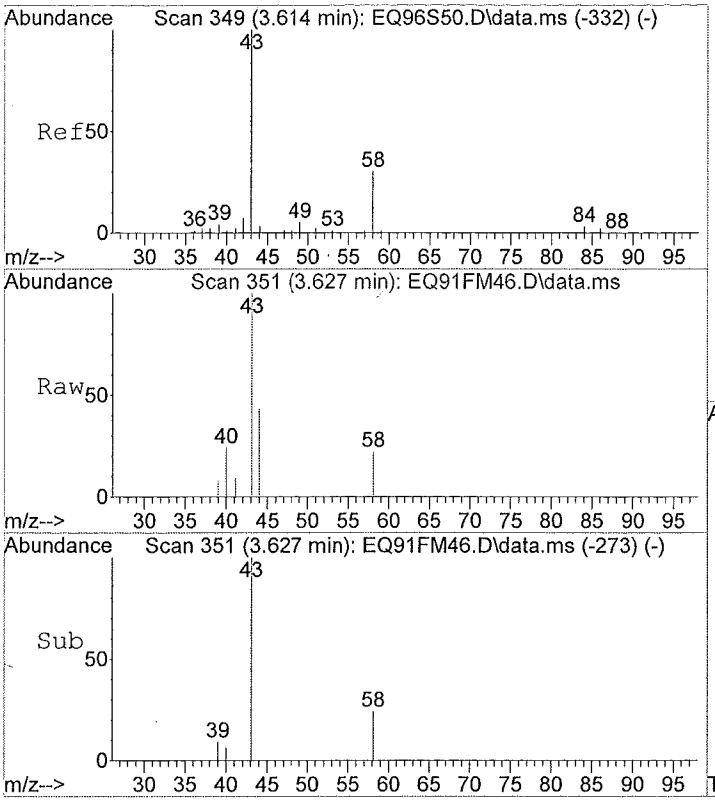
Quant Time: Jun 19 13:54:04 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	422853	10.2075 ug/Kg	100
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	10.66	91	57871	1.2379 ug/Kg	99
56)	m,p-Xylene	10.81	106	96918	5.0972 ug/Kg	99
57)	o-Xylene	11.25	106	41279	2.2361 ug/Kg	99
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

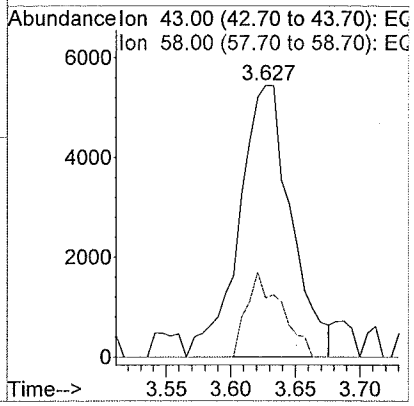
: 00043

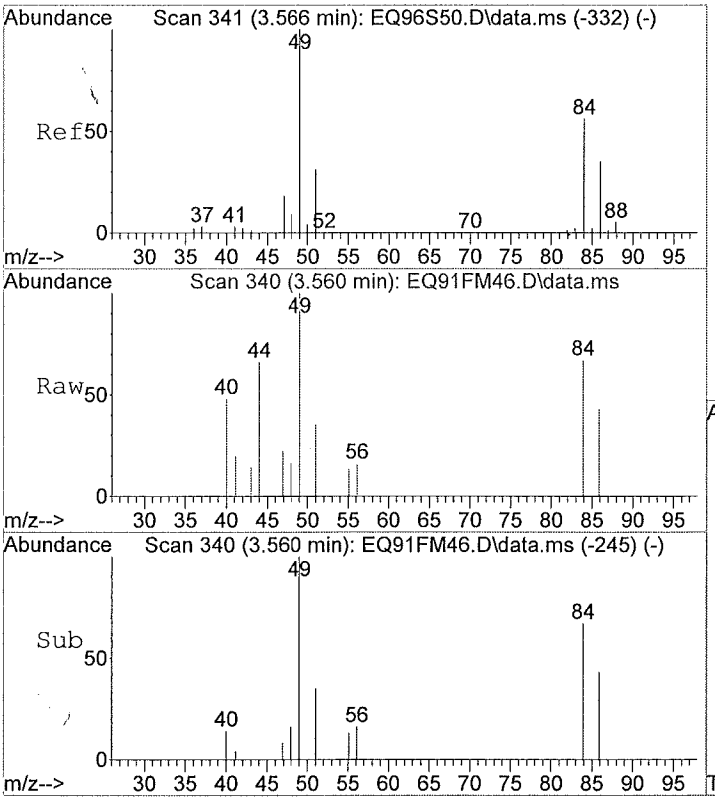


#13
Acetone
Concen: 3.74 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EQ91FM46.D
Acq: 06/11/2015 10:27

Tgt Ion:43 Resp: 15136

Ion	Ratio	Lower	Upper
43	100		
58	20.8	15.8	47.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

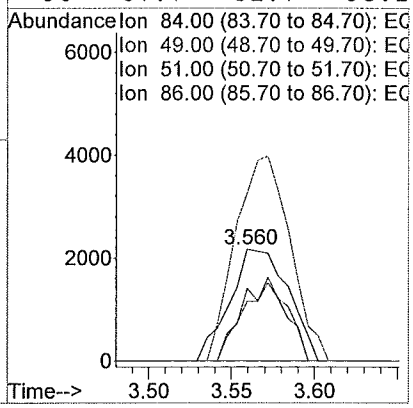


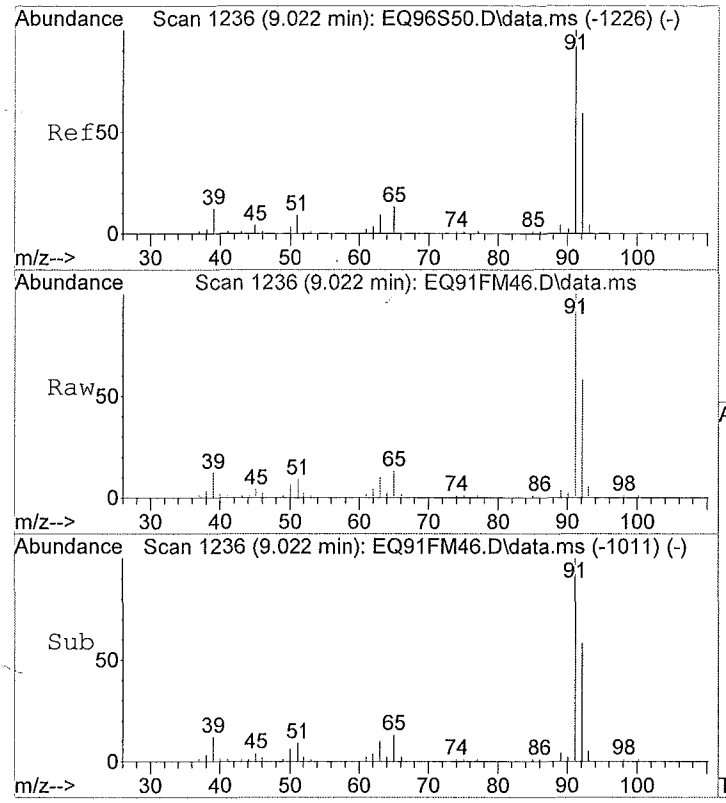


#16
Methylene chloride
Concen: 0.56 ug/Kg
RT: 3.56 min Scan# 340
Delta R.T. -0.01 min
Lab File: EQ91FM46.D
Acq: 06/11/2015 10:27

Tgt Ion:84 Resp: 5294

Ion	Ratio	Lower	Upper
84	100		
49	171.3	85.0	254.9
51	53.5	26.5	79.5
86	57.7	31.7	95.1

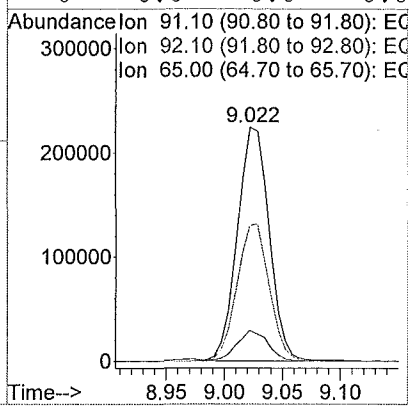


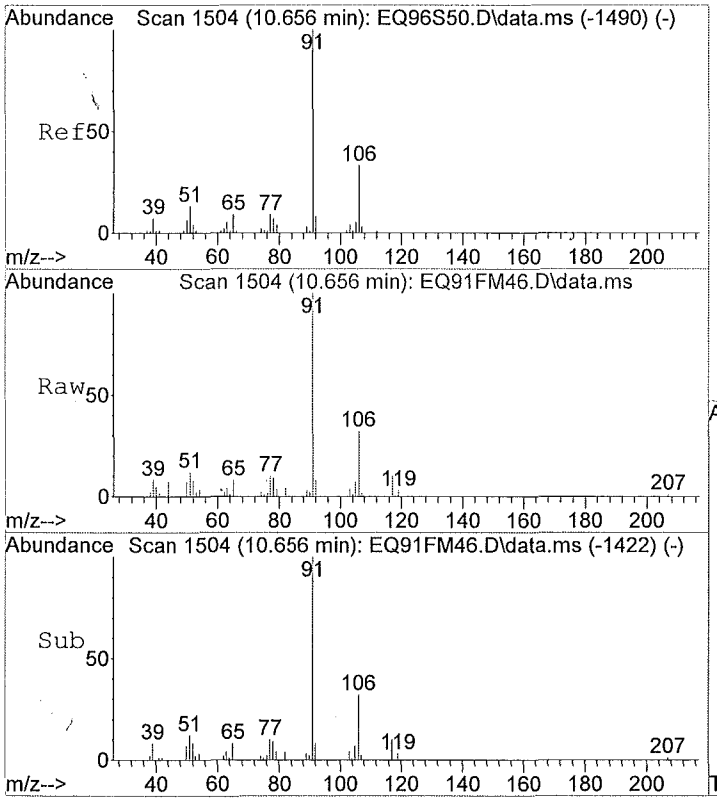


#48
Toluene
Concen: 10.21 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. 0.00 min
Lab File: EQ91FM46.D
Acq: 06/11/2015 10:27

Tgt Ion:91.1 Resp: 422853

Ion	Ratio	Lower	Upper
91	100		
92	59.3	47.8	71.6
65	12.7	10.1	15.1
0	0.0	0.0	0.0

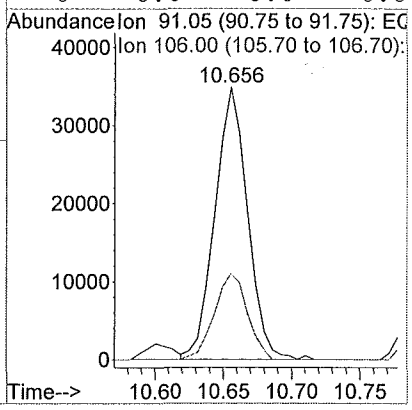


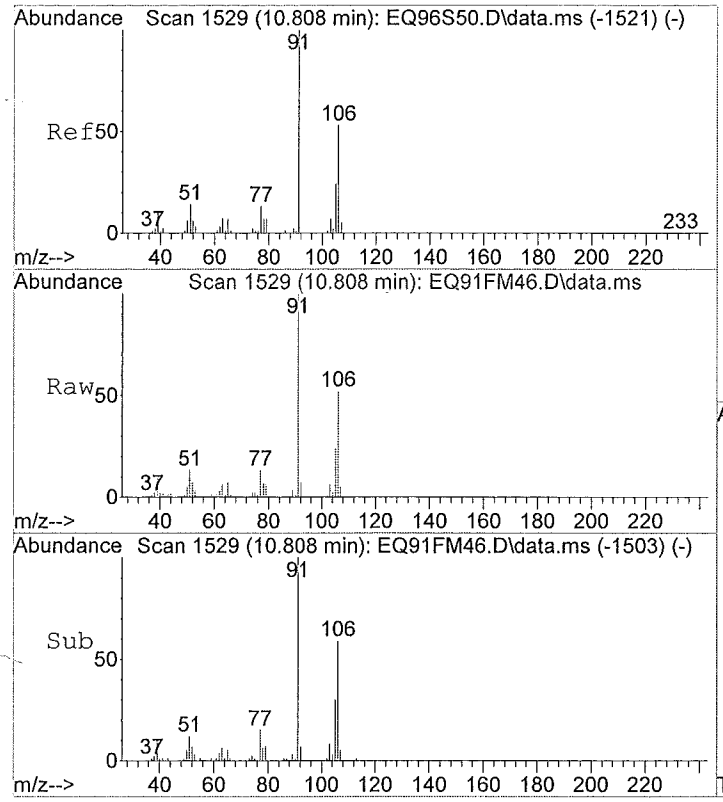


#55
Ethylbenzene
Concen: 1.24 ug/Kg
RT: 10.66 min Scan# 1504
Delta R.T. 0.00 min
Lab File: EQ91FM46.D
Acq: 06/11/2015 10:27

Tgt Ion:91.05 Resp: 57871

Ion	Ratio	Lower	Upper
91	100		
106	31.9	26.0	39.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

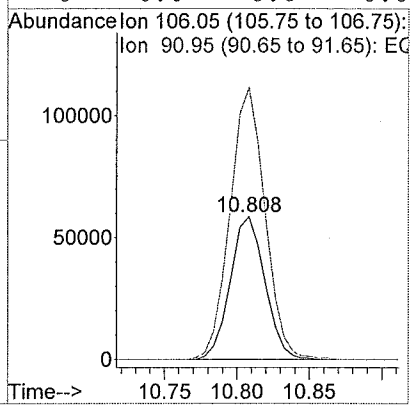


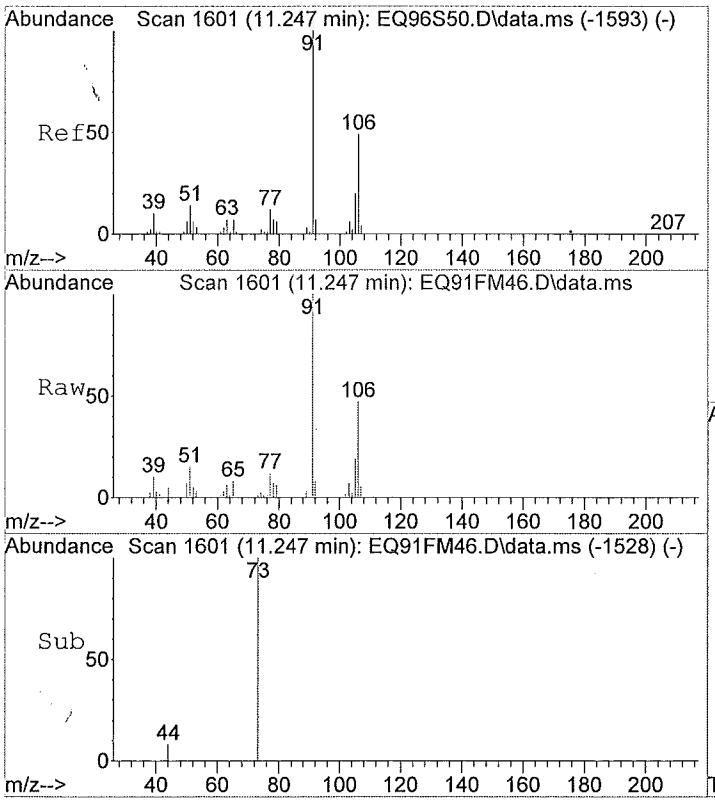


#56
m,p-Xylene
Concen: 5.10 ug/Kg
RT: 10.81 min Scan# 1529
Delta R.T. 0.00 min
Lab File: EQ91FM46.D
Acq: 06/11/2015 10:27

Tgt Ion:106.05 Resp: 96918

Ion	Ratio	Lower	Upper
106	100		
91	192.9	155.5	233.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

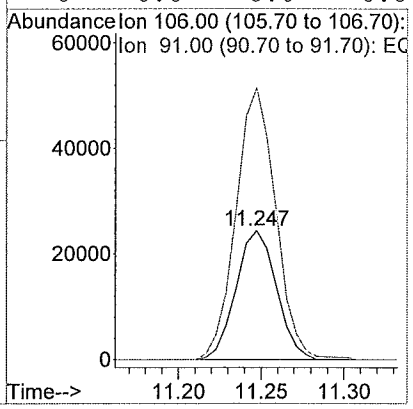




#57
o-Xylene
Concen: 2.24 ug/Kg
RT: 11.25 min Scan# 1601
Delta R.T. 0.00 min
Lab File: EQ91FM46.D
Acq: 06/11/2015 10:27

Tgt Ion:106 Resp: 41279

Ion	Ratio	Lower	Upper
106	100		
91	207.4	102.7	308.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M80

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515629001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ92FM80

Level: (TRACE/LOW/MED) LOW Date Received: 06/04/2015

% Moisture: not dec. _____ Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	4.1	JB
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.76	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M80

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515629001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ92FM80

Level: (TRACE/LOW/MED) LOW Date Received: 06/04/2015

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	7.1	
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	0.88	JB
95-47-6	o-Xylene	1.7	JB
179601-23-1	m,p-Xylene	3.3	JB
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M80

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515629001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ92FM80

Level: (TRACE or LOW/MED) LOW Date Received: 06/04/2015

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

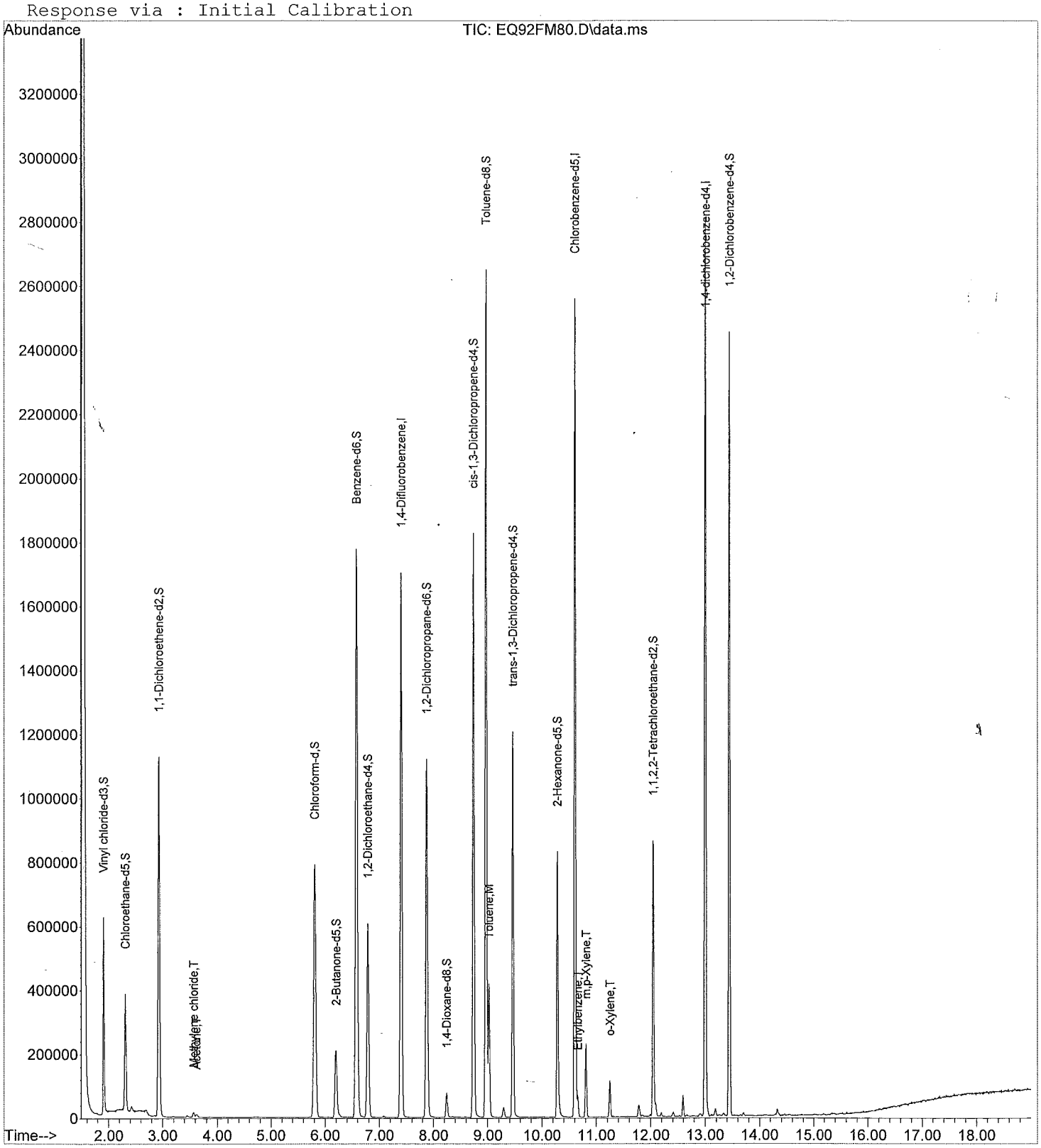
Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ92FM80.D Vial: 6
Acq Time : 06/11/2015 10:51 Operator: RJH
Sample : 1515629001 F9M80 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:55:24 2015 Results File: ECLPSB4.RES

6/19/15

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri Jun 19 13:58:26 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ92FM80.D Vial: 6
Acq Time : 06/11/2015 10:51 Operator: RJH
Sample : 1515629001 F9M80 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:55:24 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1566406	50.0000 ug/Kg	87.61
30) Chlorobenzene-d5	10.60	117	1413715	50.0000 ug/Kg	92.43
62) 1,4-dichlorobenzene-d4	13.00	152	768363	50.0000 ug/Kg	88.42
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	493999	47.4301 ug/Kg	94.86%
8) Chloroethane-d5	2.31	69	326049	50.3237 ug/Kg	100.65%
11) 1,1-Dichloroethene-d2	2.93	63	885532	37.6478 ug/Kg	75.30%
22) 2-Butanone-d5	6.19	46	382266	88.8468 ug/Kg	88.85%
25) Chloroform-d	5.81	84	879960	47.4943 ug/Kg	94.99%
27) 1,2-Dichloroethane-d4	6.78	65	504335	49.5212 ug/Kg	99.04%
29) 1,4-Dioxane-d8	8.24	96	53759	929.3779 ug/Kg	92.94%
35) Benzene-d6	6.58	84	1920783	46.6143 ug/Kg	93.23%
39) 1,2-Dichloropropane-d6	7.88	67	562315	46.5394 ug/Kg	93.08%
42) cis-1,3-Dichloropropene-d4	8.74	79	1028756	46.3123 ug/Kg	92.62%
44) trans-1,3-Dichloropropene-	9.46	79	624727	46.7863 ug/Kg	93.57%
49) Toluene-d8	8.97	98	1820906	47.8192 ug/Kg	95.64%
52) 2-Hexanone-d5	10.28	63	273103	86.9764 ug/Kg	86.98%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	437419	45.6327 ug/Kg	91.27%
67) 1,2-Dichlorobenzene-d4	13.44	152	675192	49.1532 ug/Kg	98.31%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.62	43	16892	4.0798 ug/Kg	94
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	7451	0.7629 ug/Kg	92
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

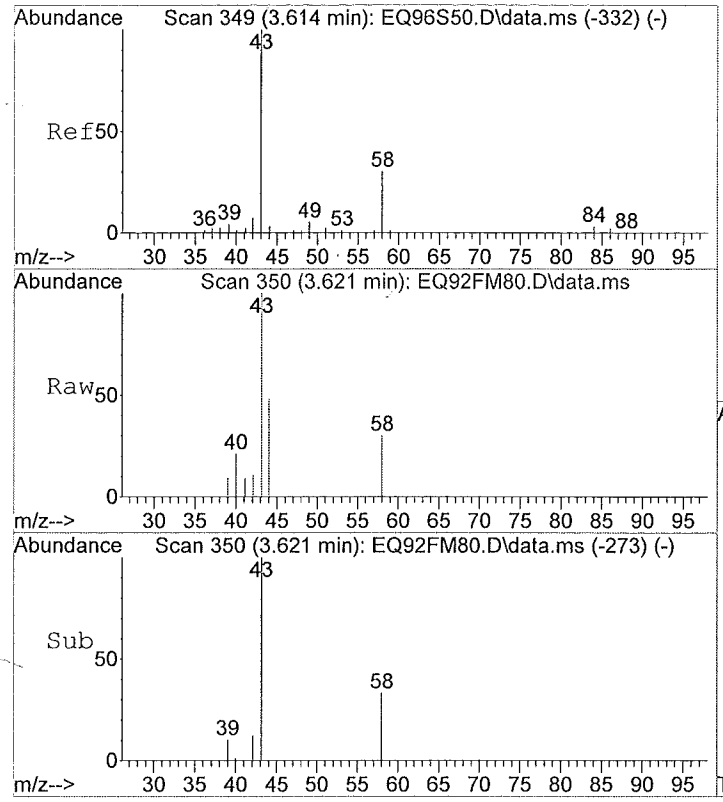
Data File : C:\msdchem\1\DATA\11JUN15E\EQ92FM80.D Vial: 6
Acq Time : 06/11/2015 10:51 Operator: RJH
Sample : 1515629001 F9M80 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:55:24 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	302903	7.1431 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	10.66	91	42220	0.8823 ug/Kg	99
56)	m,p-Xylene	10.81	106	64003	3.2883 ug/Kg	99
57)	o-Xylene	11.25	106	31966	1.6916 ug/Kg	96
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

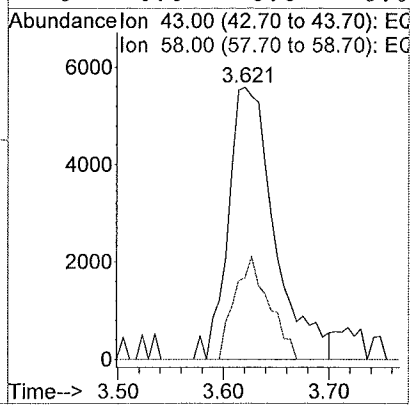
(#) = qualifier out of range (m) = manual integration

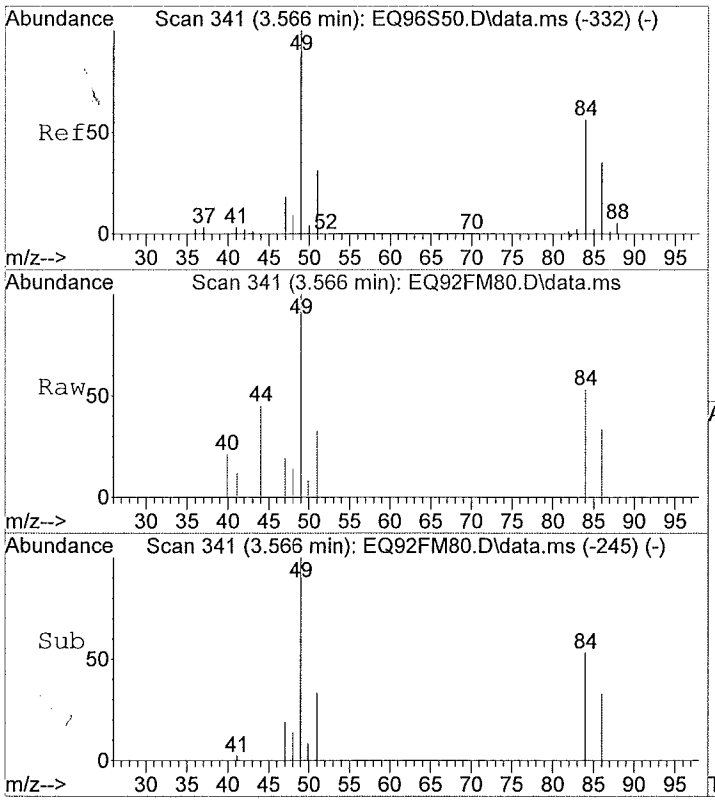


#13
Acetone
Concen: 4.08 ug/Kg
RT: 3.62 min Scan# 350
Delta R.T. 0.01 min
Lab File: EQ92FM80.D
Acq: 06/11/2015 10:51

Tgt Ion:43 Resp: 16892

Ion	Ratio	Lower	Upper
43	100		
58	27.9	15.8	47.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

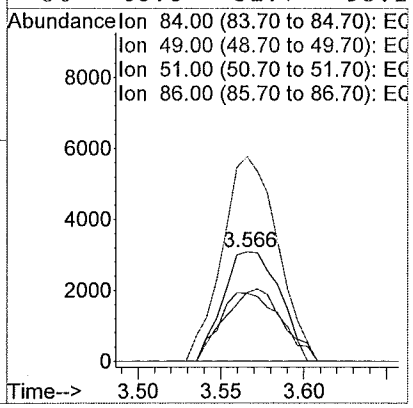


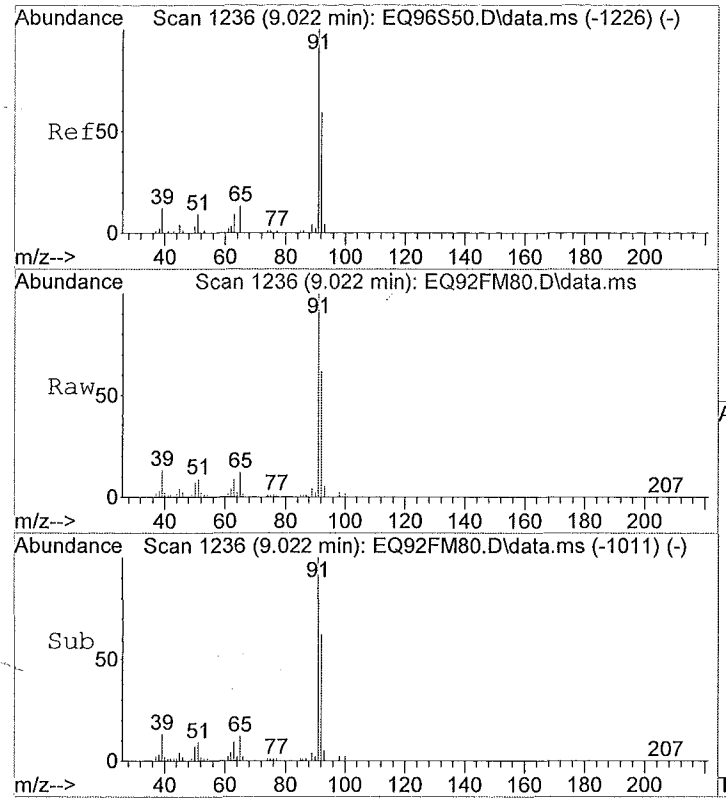


#16
Methylene chloride
Concen: 0.76 ug/Kg
RT: 3.57 min Scan# 341
Delta R.T. 0.00 min
Lab File: EQ92FM80.D
Acq: 06/11/2015 10:51

Tgt Ion:84 Resp: 7451

Ion	Ratio	Lower	Upper
84	100		
49	179.2	85.0	254.9
51	64.2	26.5	79.5
86	65.5	31.7	95.1

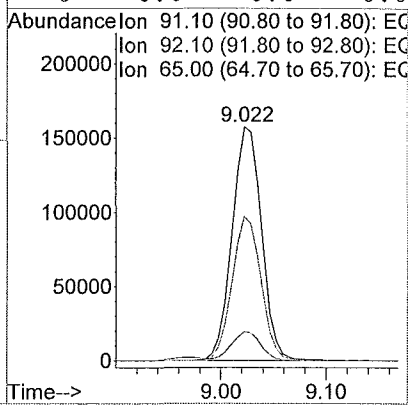


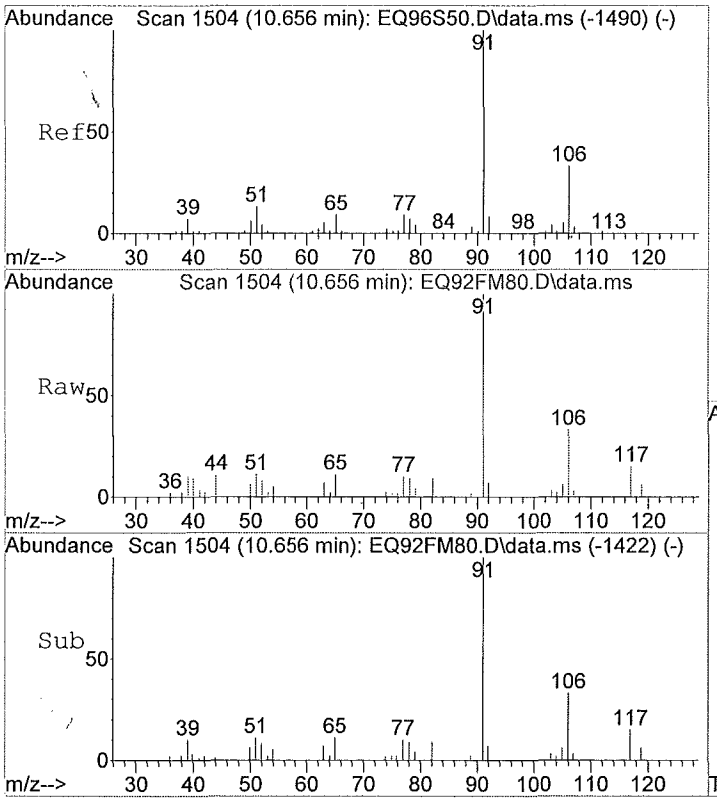


#48
Toluene
Concen: 7.14 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. 0.00 min
Lab File: EQ92FM80.D
Acq: 06/11/2015 10:51

Tgt Ion:91.1 Resp: 302903

Ion	Ratio	Lower	Upper
91	100		
92	60.5	47.8	71.6
65	12.0	10.1	15.1
0	0.0	0.0	0.0

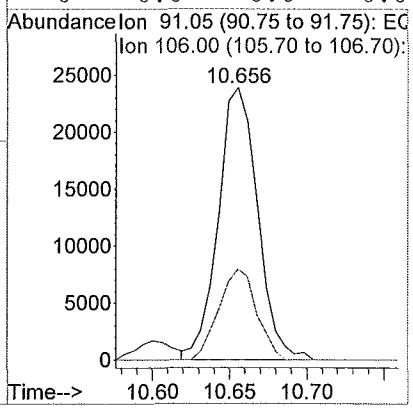


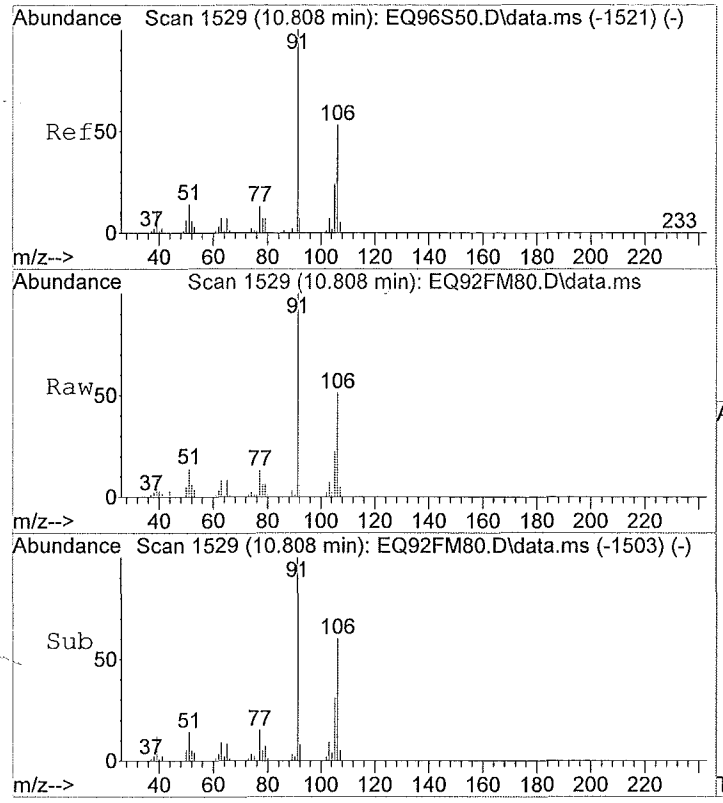


#55
Ethylbenzene
Concen: 0.88 ug/Kg
RT: 10.66 min Scan# 1504
Delta R.T. 0.00 min
Lab File: EQ92FM80.D
Acq: 06/11/2015 10:51

Tgt Ion:91.05 Resp: 42220

Ion	Ratio	Lower	Upper
91	100		
106	31.9	26.0	39.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

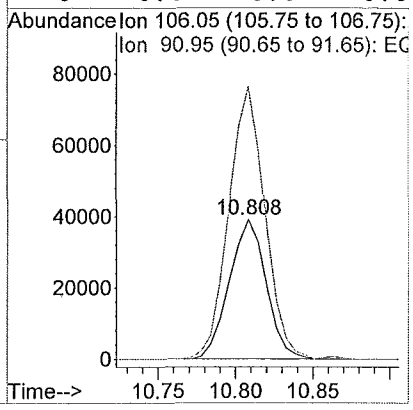


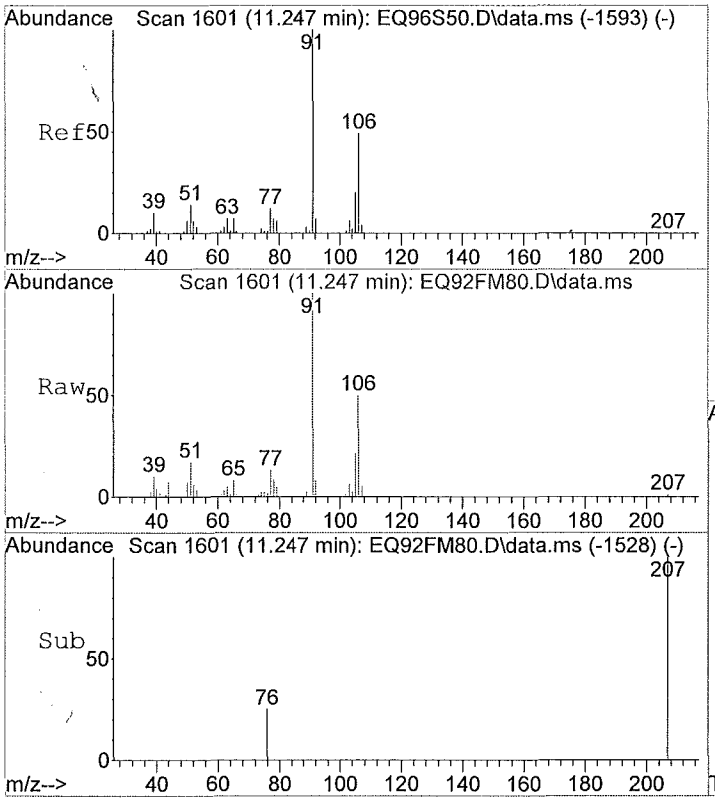


#56
m,p-Xylene
Concen: 3.29 ug/Kg
RT: 10.81 min Scan# 1529
Delta R.T. 0.00 min
Lab File: EQ92FM80.D
Acq: 06/11/2015 10:51

Tgt Ion:106.05 Resp: 64003

Ion	Ratio	Lower	Upper
106	100		
91	192.2	155.5	233.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

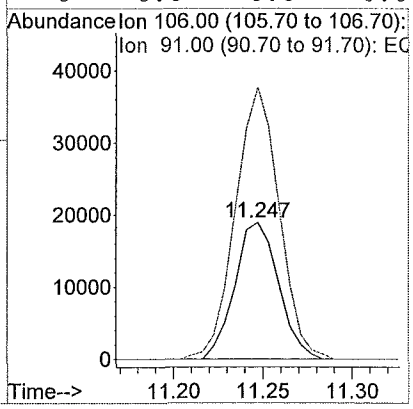




#57
o-Xylene
Concen: 1.69 ug/Kg
RT: 11.25 min Scan# 1601
Delta R.T. 0.00 min
Lab File: EQ92FM80.D
Acq: 06/11/2015 10:51

Tgt Ion:106 Resp: 31966

Ion	Ratio	Lower	Upper
106	100		
91	199.2	102.7	308.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-E Calibration Date(s): 06/08/2015 06/08/2015

Heated Purge: (Y/N) Y Calibration Time(s): 16:45 18:25

Purge Volume: 5.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF 5.0 = EQ43S05 RRF 10 = EQ44S10
RRF 50 = EQ45S50 RRF 100 = EQ46S100 RRF 200 = EQ47S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.198	0.207	0.182	0.184	0.181	0.191	6.1
Chloromethane	0.412	0.431	0.378	0.377	0.376	0.395	6.4
Vinyl chloride	0.357	0.367	0.324	0.324	0.318	0.338	6.6
Bromomethane	0.166	0.180	0.146	0.135	0.123	0.150	15.3
Chloroethane	0.214	0.221	0.180	0.177	0.168	0.192	12.5
Trichlorofluoromethane	0.406	0.426	0.378	0.376	0.362	0.390	6.6
1,1-Dichloroethene	0.317	0.324	0.290	0.285	0.278	0.299	6.9
1,1,2-Trichloro-1,2,2-trifluoroethane	0.316	0.326	0.293	0.288	0.284	0.301	6.1
Acetone	0.131	0.122	0.135	0.127	0.145	0.132	6.5
Carbon disulfide	1.001	1.034	0.930	0.923	0.888	0.955	6.3
Methyl acetate	0.185	0.224	0.210	0.185	0.183	0.197	9.4
Methylene chloride	0.387	0.333	0.290	0.277	0.272	0.312	15.4
trans-1,2-Dichloroethene	0.347	0.360	0.316	0.310	0.302	0.327	7.7
Methyl tert-butyl ether	0.711	0.793	0.719	0.663	0.658	0.709	7.7
1,1-Dichloroethane	0.655	0.695	0.621	0.605	0.597	0.635	6.4
cis-1,2-Dichloroethene	0.357	0.379	0.332	0.324	0.321	0.342	7.3
2-Butanone	0.145	0.162	0.171	0.158	0.175	0.162	7.2
Bromochloromethane	0.163	0.173	0.154	0.147	0.144	0.156	7.6
Chloroform	0.572	0.594	0.527	0.506	0.503	0.540	7.5
1,1,1-Trichloroethane	0.624	0.635	0.570	0.576	0.559	0.593	5.8
Cyclohexane	0.936	0.955	0.863	0.871	0.854	0.896	5.2
Carbon tetrachloride	0.592	0.602	0.548	0.550	0.540	0.566	5.0
Benzene	1.449	1.492	1.354	1.350	1.332	1.396	5.1
1,2-Dichloroethane	0.399	0.440	0.394	0.376	0.373	0.397	6.7
1,4-Dioxane	0.0020	0.0025	0.0023	0.0020	0.0020	0.0022	11.2
Trichloroethene	0.439	0.440	0.409	0.406	0.401	0.419	4.5
Methylcyclohexane	0.757	0.771	0.708	0.707	0.691	0.727	4.8

Report 1,4-Dioxane for Low-Medium VOA analysis only

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-E Calibration Date(s): 06/08/2015 06/08/2015

Heated Purge: (Y/N) Y Calibration Time(s): 16:45 18:25

Purge Volume: 5.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF 5.0 = EQ43S05 RRF 10 = EQ44S10
RRF 50 = EQ45S50 RRF 100 = EQ46S100 RRF 200 = EQ47S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
1,2-Dichloropropane	0.417	0.433	0.392	0.384	0.390	0.403	5.2
Bromodichloromethane	0.478	0.496	0.449	0.445	0.443	0.462	5.1
cis-1,3-Dichloropropene	0.586	0.613	0.574	0.558	0.561	0.578	3.8
4-Methyl-2-Pentanone	0.280	0.360	0.329	0.291	0.288	0.309	11.0
Toluene	1.582	1.608	1.451	1.439	1.418	1.500	5.9
trans-1,3-Dichloropropene	0.505	0.538	0.489	0.475	0.472	0.496	5.5
1,1,2-Trichloroethane	0.268	0.291	0.263	0.251	0.251	0.265	6.1
Tetrachloroethene	0.366	0.376	0.346	0.345	0.342	0.355	4.3
2-Hexanone	0.261	0.289	0.295	0.268	0.282	0.279	5.1
Dibromochloromethane	0.360	0.382	0.357	0.343	0.344	0.357	4.4
1,2-Dibromoethane	0.267	0.295	0.273	0.258	0.259	0.270	5.6
Chlorobenzene	1.069	1.096	0.988	0.964	0.956	1.015	6.3
Ethylbenzene	1.787	1.847	1.651	1.617	1.560	1.693	7.1
o-Xylene	0.698	0.722	0.653	0.638	0.631	0.668	5.9
m,p-Xylene	0.738	0.733	0.669	0.659	0.643	0.688	6.4
Styrene	1.112	1.160	1.044	1.015	0.986	1.064	6.7
Bromoform	0.436	0.488	0.435	0.408	0.409	0.435	7.4
Isopropylbenzene	1.893	1.926	1.725	1.698	1.638	1.776	7.1
1,1,2,2-Tetrachloroethane	0.307	0.359	0.327	0.300	0.299	0.319	7.9
1,3-Dichlorobenzene	1.612	1.644	1.478	1.449	1.450	1.527	6.2
1,4-Dichlorobenzene	1.598	1.650	1.468	1.442	1.441	1.520	6.4
1,2-Dichlorobenzene	1.407	1.471	1.314	1.277	1.284	1.351	6.3
1,2-Dibromo-3-chloropropane	0.093	0.108	0.103	0.092	0.097	0.099	6.9
1,2,4-Trichlorobenzene	0.999	1.031	0.951	0.931	0.946	0.972	4.3
1,2,3-Trichlorobenzene	0.865	0.906	0.828	0.803	0.817	0.844	5.0

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-E Calibration Date(s): 06/08/2015 06/08/2015

Heated Purge: (Y/N) Y Calibration Time(s): 16:45 18:25

Purge Volume: 5.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF 5.0 = EQ43S05 RRF 10 = EQ44S10
RRF 50 = EQ45S50 RRF 100 = EQ46S100 RRF 200 = EQ47S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Vinyl chloride-d3	0.378	0.332	0.310	0.323	0.319	0.332	8.0
Chloroethane-d5	0.225	0.211	0.203	0.202	0.194	0.207	5.7
1,1-Dichloroethene-d2	0.836	0.760	0.721	0.725	0.713	0.751	6.8
2-Butanone-d5	0.128	0.135	0.151	0.133	0.140	0.137	6.3
Chloroform-d	0.647	0.599	0.574	0.570	0.567	0.591	5.7
1,2-Dichloroethane-d4	0.349	0.328	0.324	0.309	0.314	0.325	4.8
Benzene-d6	1.584	1.420	1.413	1.434	1.436	1.457	4.9
1,2-Dichloropropane-d6	0.466	0.415	0.418	0.416	0.422	0.427	5.1
Toluene-d8	1.497	1.295	1.303	1.318	1.320	1.347	6.3
trans-1,3-Dichloropropene-d4	0.505	0.472	0.469	0.455	0.461	0.472	4.1
2-Hexanone-d5	0.107	0.112	0.121	0.107	0.109	0.111	5.5
1,4-Dioxane-d8	0.0019	0.0020	0.0019	0.0017	0.0017	0.0018	8.9
1,1,2,2-Tetrachloroethane-d2	0.352	0.346	0.350	0.321	0.326	0.339	4.3
1,2-Dichlorobenzene-d4	0.997	0.874	0.875	0.852	0.871	0.894	6.5

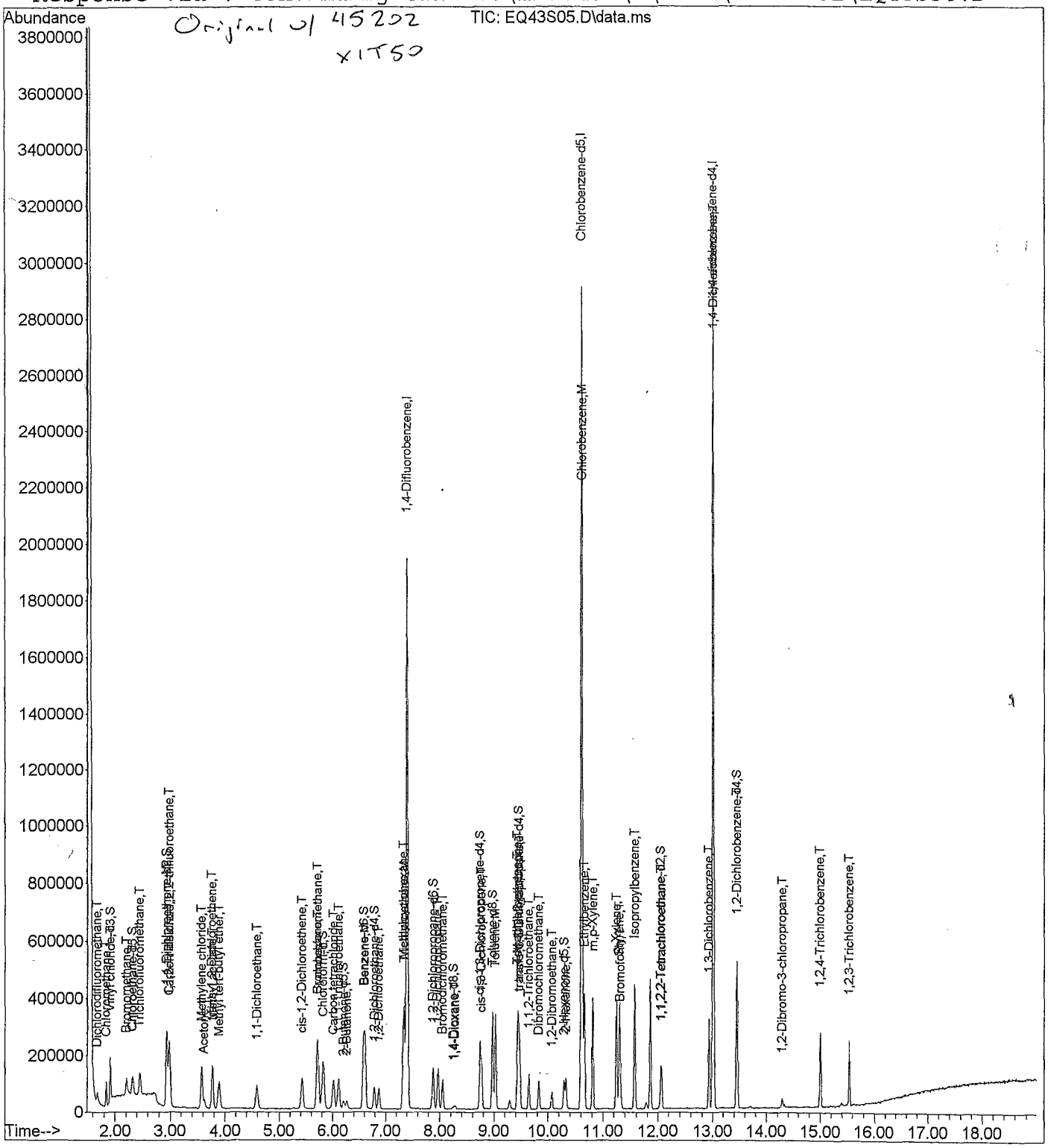
Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ43S05.D Vial: 2
Acq Time : 06/08/2015 16:45 Operator: CQC
Sample : VSTD005SE VSTD005SE 5.0 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 0.25 uL of 28197, 99; 2 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:04:00 2015 Results File: ECLPSB4.RES

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:49 2015 6/8/15
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D



Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ43S05.D Vial: 2
Acq Time : 06/08/2015 16:45 Operator: CQC
Sample : VSTD005SE VSTD005SE 5.0 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 0.25 uL of 28197, 99; 2 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:04:00 2015 Results File: ECLPSB4.RES

Quant Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1806560	50.0000	ug/Kg	101.04
30) Chlorobenzene-d5	10.60	117	1554258	50.0000	ug/Kg	101.62
62) 1,4-dichlorobenzene-d4	13.00	152	845668	50.0000	ug/Kg	97.31
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	68256	6.0875	ug/Kg	12.18%#
8) Chloroethane-d5	2.31	69	40624	5.5486	ug/Kg	11.10%#
11) 1,1-Dichloroethene-d2	2.93	63	151023	5.8010	ug/Kg	11.60%#
22) 2-Butanone-d5	6.20	46	46377	8.5060	ug/Kg	8.51%#
25) Chloroform-d	5.81	84	116911	5.6367	ug/Kg	11.27%#
27) 1,2-Dichloroethane-d4	6.78	65	63104	5.3880	ug/Kg	10.78%#
29) 1,4-Dioxane-d8	8.25	96	6867	98.5098	ug/Kg	9.85%#
35) Benzene-d6	6.58	84	246133	5.6038	ug/Kg	11.21%#
39) 1,2-Dichloropropane-d6	7.88	67	72437	5.5759	ug/Kg	11.15%#
42) cis-1,3-Dichloropropene-d4	8.74	79	131007	5.4350	ug/Kg	10.87%
44) trans-1,3-Dichloropropene-	9.46	79	78484	5.3842	ug/Kg	10.77%#
49) Toluene-d8	8.97	98	232708	5.7446	ug/Kg	11.49%#
52) 2-Hexanone-d5	10.28	63	33204	8.7937	ug/Kg	8.79%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	54765	5.0272	ug/Kg	10.05%#
67) 1,2-Dichlorobenzene-d4	13.44	152	84317	5.6973	ug/Kg	11.39%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	35787	5.4311	ug/Kg#	97
3) Chloromethane	1.83	50	74346	5.4374	ug/Kg	99
4) Vinyl chloride	1.91	62	64460	5.5095	ug/Kg	99
6) Bromomethane	2.21	94	29935	5.6812	ug/Kg	92
7) Chloroethane	2.33	64	38670	5.9513	ug/Kg	95
9) Trichlorofluoromethane	2.46	101	73389	5.3796	ug/Kg	96
10) 1,1-Dichloroethene	2.94	96	57287	5.4753	ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	57041	5.3839	ug/Kg	99
13) Acetone	3.62	43	47309	9.6949	ug/Kg	99
14) Carbon disulfide	2.98	76	180831	5.3831	ug/Kg	97
15) Methyl acetate	3.77	43	33430	4.4024	ug/Kg	98
16) Methylene chloride	3.57	84	69854	6.6618	ug/Kg	99
17) trans-1,2-Dichloroethene	3.76	96	62698	5.4975	ug/Kg	97
18) Methyl tert-butyl ether	3.89	73	128435	4.9454	ug/Kg	96
19) 1,1-Dichloroethane	4.58	63	118349	5.2730	ug/Kg	96
20) cis-1,2-Dichloroethene	5.42	96	64545	5.3823	ug/Kg	100
21) 2-Butanone	6.27	43	52528	8.5169	ug/Kg#	91
23) Bromochloromethane	5.71	128	29440	5.2762	ug/Kg	96
24) Chloroform	5.83	83	103338	5.4264	ug/Kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ43S05.D Vial: 2
Acq Time : 06/08/2015 16:45 Operator: CQC
Sample : VSTD005SE VSTD005SE 5.0 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 0.25 uL of 28197, 99; 2 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:04:00 2015 Results File: ECLPSB4.RES

Quant Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D
DataAcq Meth : ECLPSB4.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) 1,2-Dichloroethane	6.87	62	72134	5.0642 ug/Kg	98
28) 1,4-Dioxane	8.28	88	7372	87.9662 ug/Kg#	90
31) 1,1,1-Trichloroethane	6.11	97	96986	5.4738 ug/Kg	99
32) Cyclohexane	5.72	56	145539	5.4267 ug/Kg	99
33) Carbon tetrachloride	6.01	117	91988	5.4021 ug/Kg	98
34) Benzene	6.61	78	225275	5.3522 ug/Kg#	99
36) Trichloroethene	7.35	130	68165	5.3631 ug/Kg	97
37) Methylcyclohexane	7.33	83	117662	5.3429 ug/Kg	99
38) 1,2-Dichloropropane	7.96	63	64738	5.3154 ug/Kg	99
40) Bromodichloromethane	8.05	83	74296	5.3189 ug/Kg	98
41) cis-1,3-Dichloropropene	8.77	75	91099	5.1094 ug/Kg	97
43) trans-1,3-Dichloropropene	9.47	75	78454	5.1560 ug/Kg	99
45) 1,1,2-Trichloroethane	9.64	97	41663	5.0882 ug/Kg	99
46) Dibromochloromethane	9.83	129	55980	5.0434 ug/Kg	100
47) 4-Methyl-2-pentanone	9.44	43	86959	8.5147 ug/Kg	97
48) Toluene	9.02	91	245951	5.4516 ug/Kg	99
50) Tetrachloroethene	9.43	164	56839	5.2801 ug/Kg	97
51) 2-Hexanone	10.32	43	81212	8.8705 ug/Kg	100
53) 1,2-Dibromoethane	10.06	107	41457	4.8892 ug/Kg	99
54) Chlorobenzene	10.62	112	166172	5.4111 ug/Kg	92
55) Ethylbenzene	10.66	91	277758	5.4106 ug/Kg	100
56) m,p-Xylene	10.81	106	114671	5.5143 ug/Kg	98
57) o-Xylene	11.25	106	108542	5.3478 ug/Kg	99
58) Styrene	11.30	104	172879	5.3256 ug/Kg	99
59) Isopropylbenzene	11.57	105	294211	5.4882 ug/Kg	99
60) 1,1,2,2-Tetrachloroethane	12.06	83	47725	4.6923 ug/Kg	98
63) Bromoform	11.32	173	36899	5.0150 ug/Kg	97
64) 1,3-Dichlorobenzene	12.92	146	136315	5.4521 ug/Kg	100
65) 1,4-Dichlorobenzene	13.02	146	135116	5.4438 ug/Kg#	70
66) 1,2-Dichlorobenzene	13.45	146	119011	5.3565 ug/Kg	99
68) 1,2-Dibromo-3-chloropropan	14.29	75	7886	4.5374 ug/Kg	97
69) 1,2,4-Trichlorobenzene	15.00	180	84484	5.2550 ug/Kg	99
70) 1,2,3-Trichlorobenzene	15.53	180	73151	5.2237 ug/Kg	96

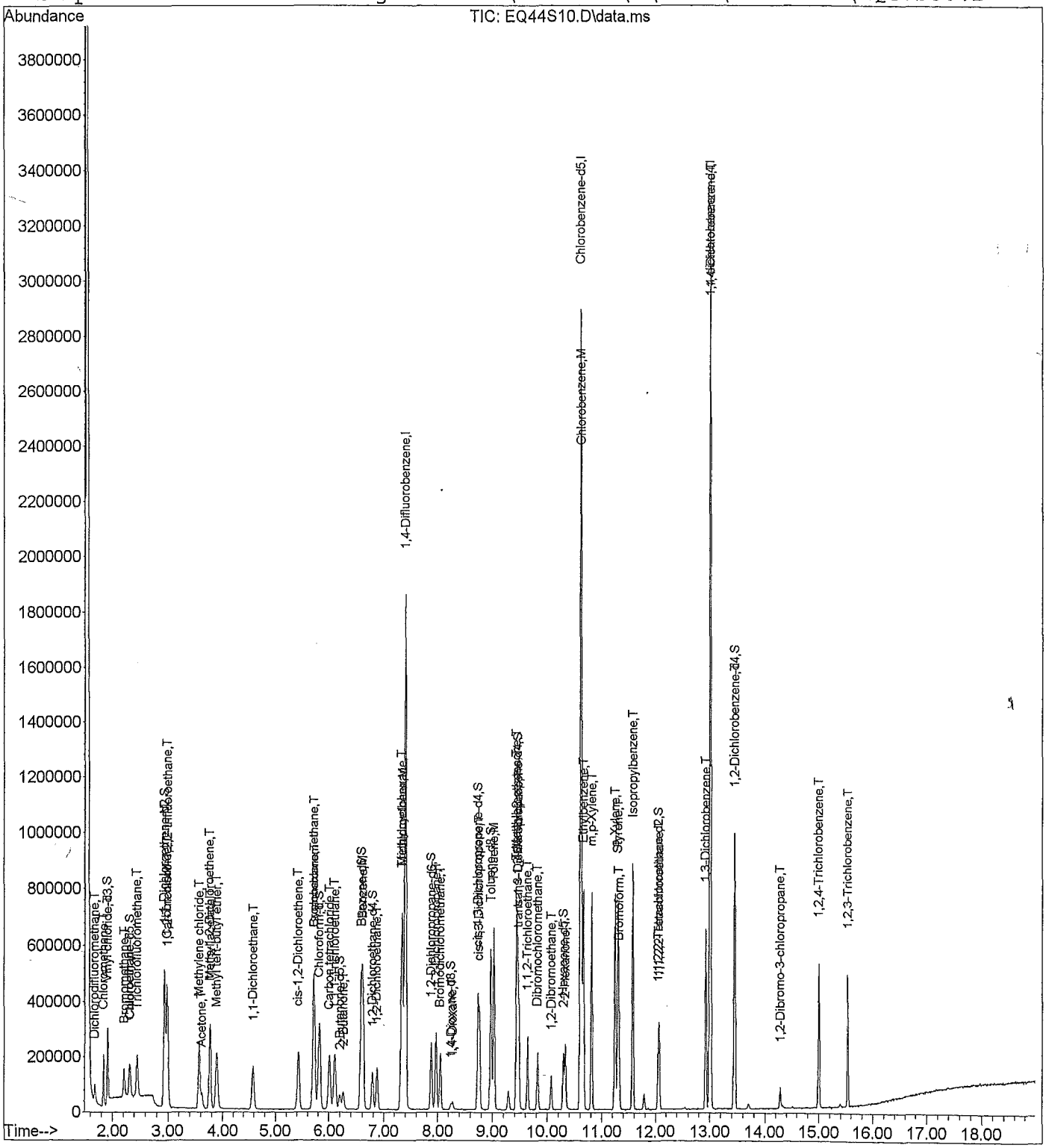
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ44S10.D Vial: 3
Acq Time : 06/08/2015 17:09 Operator: CQC
Sample : VSTD010SE VSTD010SE 10 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 0.5 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:04:13 2015 Results File: ECLPSB4.RES

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D



Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ44S10.D Vial: 3
Acq Time : 06/08/2015 17:09 Operator: CQC
Sample : VSTD010SE VSTD010SE 10 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 0.5 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:04:13 2015 Results File: ECLPSB4.RES

Quant Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1727853	50.0000 ug/Kg	96.64
30) Chlorobenzene-d5	10.60	117	1508483	50.0000 ug/Kg	98.63
62) 1,4-dichlorobenzene-d4	13.00	152	837099	50.0000 ug/Kg	96.33
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	114759	10.7012 ug/Kg	21.40%#
8) Chloroethane-d5	2.31	69	72747	10.3886 ug/Kg	20.78%#
11) 1,1-Dichloroethene-d2	2.93	63	262590	10.5460 ug/Kg	21.09%#
22) 2-Butanone-d5	6.19	46	93019	17.8378 ug/Kg	17.84%#
25) Chloroform-d	5.81	84	206860	10.4277 ug/Kg	20.86%#
27) 1,2-Dichloroethane-d4	6.78	65	113511	10.1333 ug/Kg	20.27%#
29) 1,4-Dioxane-d8	8.24	96	14146	212.1738 ug/Kg	21.22%#
35) Benzene-d6	6.58	84	428489	10.0515 ug/Kg	20.10%#
39) 1,2-Dichloropropane-d6	7.88	67	125086	9.9208 ug/Kg	19.84%#
42) cis-1,3-Dichloropropene-d4	8.74	79	230918	9.8707 ug/Kg	19.74%
44) trans-1,3-Dichloropropene-	9.46	79	142351	10.0619 ug/Kg	20.12%#
49) Toluene-d8	8.97	98	390787	9.9396 ug/Kg	19.88%#
52) 2-Hexanone-d5	10.28	63	67358	18.3804 ug/Kg	18.38%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	104366	9.8712 ug/Kg	19.74%#
67) 1,2-Dichlorobenzene-d4	13.44	152	146404	9.9939 ug/Kg	19.99%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.68	85	71682	11.3741 ug/Kg#	98
3) Chloromethane	1.83	50	149074	11.3994 ug/Kg	99
4) Vinyl chloride	1.91	62	126964	11.3461 ug/Kg	99
6) Bromomethane	2.21	94	62052	12.3129 ug/Kg#	96
7) Chloroethane	2.33	64	76539	12.3159 ug/Kg	97
9) Trichlorofluoromethane	2.46	101	147280	11.2878 ug/Kg	99
10) 1,1-Dichloroethene	2.94	96	111883	11.1806 ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	112631	11.1151 ug/Kg	99
13) Acetone	3.62	43	84554	18.1167 ug/Kg	100
14) Carbon disulfide	2.98	76	357259	11.1197 ug/Kg	99
15) Methyl acetate	3.77	43	77356	10.6509 ug/Kg	99
16) Methylene chloride	3.57	84	114907	11.4576 ug/Kg	99
17) trans-1,2-Dichloroethene	3.76	96	124496	11.4134 ug/Kg	98
18) Methyl tert-butyl ether	3.89	73	273915	11.0275 ug/Kg	98
19) 1,1-Dichloroethane	4.58	63	240137	11.1866 ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	130889	11.4117 ug/Kg	98
21) 2-Butanone	6.26	43	112010	18.9887 ug/Kg#	98
23) Bromochloromethane	5.71	128	59916	11.2272 ug/Kg	99
24) Chloroform	5.83	83	205213	11.2668 ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ44S10.D Vial: 3
Acq Time : 06/08/2015 17:09 Operator: CQC
Sample : VSTD010SE VSTD010SE 10 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 0.5 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:04:13 2015 Results File: ECLPSB4.RES

Quant Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D
DataAcq Meth : ECLPSB4.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	6.87	62	152077	11.1629	ug/Kg	100
28)	1,4-Dioxane	8.27	88	17557	219.0415	ug/Kg#	95
31)	1,1,1-Trichloroethane	6.11	97	191577	11.1406	ug/Kg	100
32)	Cyclohexane	5.71	56	288163	11.0708	ug/Kg	98
33)	Carbon tetrachloride	6.01	117	181566	10.9862	ug/Kg	99
34)	Benzene	6.61	78	450251	11.0218	ug/Kg#	97
36)	Trichloroethene	7.35	130	132710	10.7583	ug/Kg	97
37)	Methylcyclohexane	7.33	83	232654	10.8852	ug/Kg	97
38)	1,2-Dichloropropane	7.97	63	130763	11.0624	ug/Kg	99
40)	Bromodichloromethane	8.05	83	149687	11.0413	ug/Kg	97
41)	cis-1,3-Dichloropropene	8.76	75	184826	10.6807	ug/Kg	99
43)	trans-1,3-Dichloropropene	9.47	75	162391	10.9963	ug/Kg	99
45)	1,1,2-Trichloroethane	9.64	97	87748	11.0416	ug/Kg	99
46)	Dibromochloromethane	9.83	129	115169	10.6908	ug/Kg	99
47)	4-Methyl-2-pentanone	9.44	43	217268	21.9195	ug/Kg	99
48)	Toluene	9.02	91	485159	11.0800	ug/Kg	99
50)	Tetrachloroethene	9.44	164	113488	10.8625	ug/Kg	99
51)	2-Hexanone	10.32	43	174583	19.6478	ug/Kg	99
53)	1,2-Dibromoethane	10.07	107	89036	10.8190	ug/Kg	99
54)	Chlorobenzene	10.62	112	330584	11.0916	ug/Kg	96
55)	Ethylbenzene	10.66	91	557255	11.1844	ug/Kg	100
56)	m,p-Xylene	10.81	106	221051	10.9525	ug/Kg	98
57)	o-Xylene	11.25	106	217731	11.0529	ug/Kg	99
58)	Styrene	11.30	104	350084	11.1117	ug/Kg	100
59)	Isopropylbenzene	11.57	105	581138	11.1696	ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	12.06	83	108252	10.9663	ug/Kg	99
63)	Bromoform	11.32	173	81667	11.2131	ug/Kg	99
64)	1,3-Dichlorobenzene	12.92	146	275272	11.1226	ug/Kg	99
65)	1,4-Dichlorobenzene	13.02	146	276194	11.2416	ug/Kg#	88
66)	1,2-Dichlorobenzene	13.45	146	246313	11.1996	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	14.28	75	18087	10.5133	ug/Kg	99
69)	1,2,4-Trichlorobenzene	15.00	180	172646	10.8487	ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.53	180	151754	10.9476	ug/Kg	100

(#) = qualifier out of range (m) = manual integration

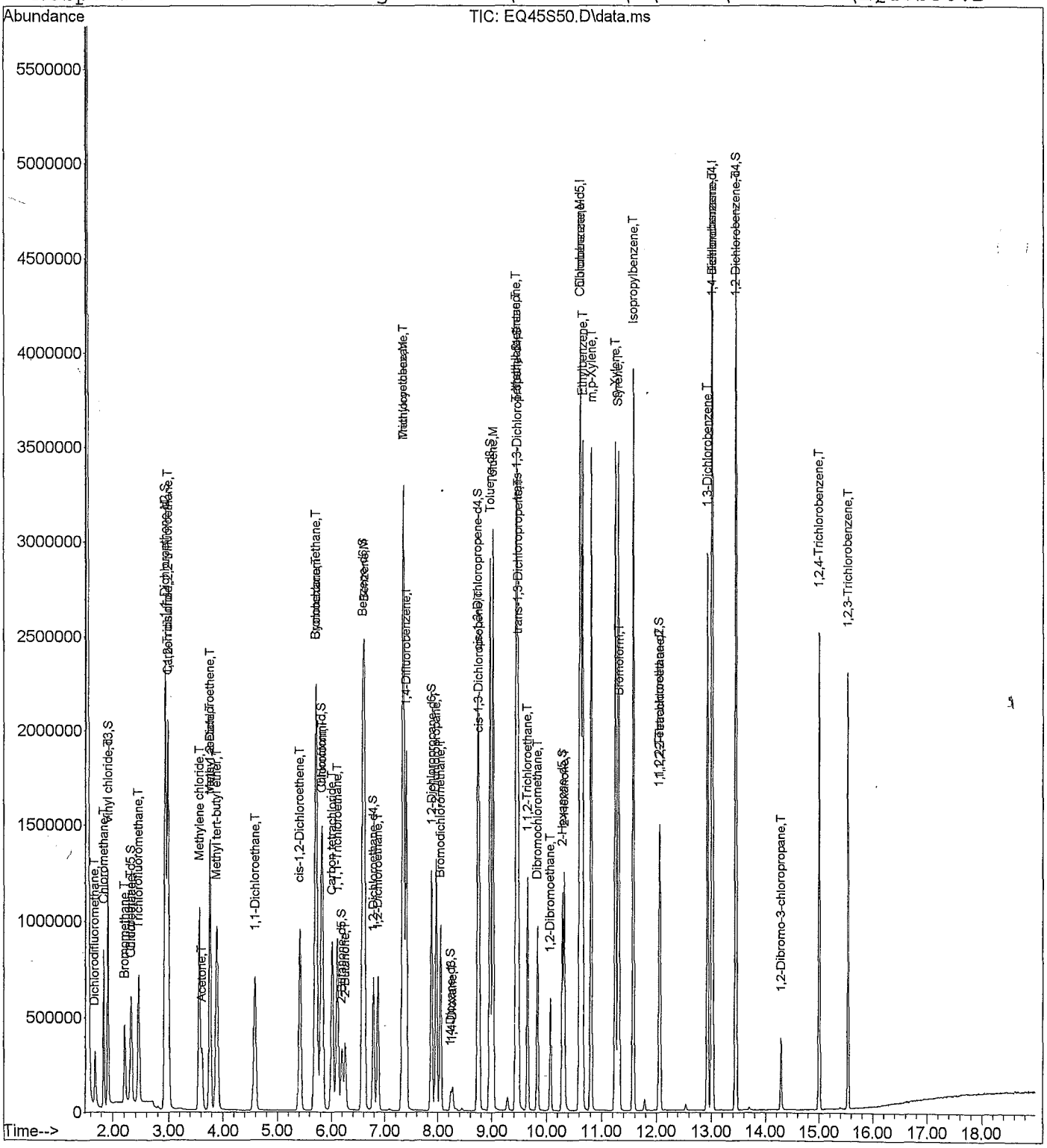
Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ45S50.D Vial: 4
Acq Time : 06/08/2015 17:37 Operator: CQC
Sample : VSTD050SE VSTD050SE 50 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 2.5 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:03:39 2015 Results File: ECLPSB4.RES

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D

G. 8/15



Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ45S50.D Vial: 4
Acq Time : 06/08/2015 17:37 Operator: CQC
Sample : VSTD050SE VSTD050SE 50 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 2.5 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:03:39 2015 Results File: ECLPSB4.RES

Quant Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:32 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1787958	50.0000	ug/Kg	100.00
30) Chlorobenzene-d5	10.60	117	1529445	50.0000	ug/Kg	100.00
62) 1,4-dichlorobenzene-d4	13.00	152	869032	50.0000	ug/Kg	100.00
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	554849	50.0000	ug/Kg	100.00%
8) Chloroethane-d5	2.31	69	362308	50.0000	ug/Kg	100.00%
11) 1,1-Dichloroethene-d2	2.93	63	1288287	50.0000	ug/Kg	100.00%
22) 2-Butanone-d5	6.19	46	539610	100.0000	ug/Kg	100.00%
25) Chloroform-d	5.80	84	1026382	50.0000	ug/Kg	100.00%
27) 1,2-Dichloroethane-d4	6.78	65	579571	50.0000	ug/Kg	100.00%
29) 1,4-Dioxane-d8	8.24	96	68991	1000.0000	ug/Kg	100.00%
35) Benzene-d6	6.57	84	2161081	50.0000	ug/Kg	100.00%
39) 1,2-Dichloropropane-d6	7.88	67	639185	50.0000	ug/Kg	100.00%
42) cis-1,3-Dichloropropene-d4	8.74	79	1185966	50.0000	ug/Kg	100.00%
44) trans-1,3-Dichloropropene-	9.45	79	717207	50.0000	ug/Kg	100.00%
49) Toluene-d8	8.97	98	1993125	50.0000	ug/Kg	100.00%
52) 2-Hexanone-d5	10.28	63	371559	100.0000	ug/Kg	100.00%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	535986	50.0000	ug/Kg	100.00%
67) 1,2-Dichlorobenzene-d4	13.44	152	760412	50.0000	ug/Kg	100.00%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	326073	50.0000	ug/Kg#	100
3) Chloromethane	1.83	50	676614	50.0000	ug/Kg	100
4) Vinyl chloride	1.91	62	578966	50.0000	ug/Kg	100
6) Bromomethane	2.21	94	260746	50.0000	ug/Kg	100
7) Chloroethane	2.33	64	321542	50.0000	ug/Kg	100
9) Trichlorofluoromethane	2.45	101	675078	50.0000	ug/Kg	100
10) 1,1-Dichloroethene	2.94	96	517751	50.0000	ug/Kg	100
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	524283	50.0000	ug/Kg	100
13) Acetone	3.61	43	482954	100.0000	ug/Kg	100
14) Carbon disulfide	2.97	76	1662310	50.0000	ug/Kg	100
15) Methyl acetate	3.77	43	375774	50.0000	ug/Kg	100
16) Methylene chloride	3.57	84	518888	50.0000	ug/Kg	100
17) trans-1,2-Dichloroethene	3.76	96	564367	50.0000	ug/Kg	100
18) Methyl tert-butyl ether	3.89	73	1285169	50.0000	ug/Kg	100
19) 1,1-Dichloroethane	4.58	63	1110660	50.0000	ug/Kg	100
20) cis-1,2-Dichloroethene	5.41	96	593435	50.0000	ug/Kg	100
21) 2-Butanone	6.25	43	610398	100.0000	ug/Kg	100
23) Bromochloromethane	5.71	128	276117	50.0000	ug/Kg	100
24) Chloroform	5.83	83	942374	50.0000	ug/Kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ45S50.D Vial: 4
Acq Time : 06/08/2015 17:37 Operator: CQC
Sample : VSTD050SE VSTD050SE 50 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 2.5 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:03:39 2015 Results File: ECLPSB4.RES

Quant Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:32 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D
DataAcq Meth : ECLPSB4.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) 1,2-Dichloroethane	6.87	62	704865	50.0000 ug/Kg	100
28) 1,4-Dioxane	8.27	88	82942	1000.0000 ug/Kg	100
31) 1,1,1-Trichloroethane	6.11	97	871761	50.0000 ug/Kg	100
32) Cyclohexane	5.71	56	1319545	50.0000 ug/Kg	100
33) Carbon tetrachloride	6.00	117	837823	50.0000 ug/Kg	100
34) Benzene	6.61	78	2070928	50.0000 ug/Kg#	100
36) Trichloroethene	7.35	130	625353	50.0000 ug/Kg	100
37) Methylcyclohexane	7.33	83	1083520	50.0000 ug/Kg	100
38) 1,2-Dichloropropane	7.96	63	599239	50.0000 ug/Kg	100
40) Bromodichloromethane	8.05	83	687268	50.0000 ug/Kg	100
41) cis-1,3-Dichloropropene	8.76	75	877255	50.0000 ug/Kg	100
43) trans-1,3-Dichloropropene	9.47	75	748652	50.0000 ug/Kg	100
45) 1,1,2-Trichloroethane	9.64	97	402874	50.0000 ug/Kg	100
46) Dibromochloromethane	9.83	129	546122	50.0000 ug/Kg	100
47) 4-Methyl-2-pentanone	9.44	43	1004982	100.0000 ug/Kg	100
48) Toluene	9.02	91	2219768	50.0000 ug/Kg	100
50) Tetrachloroethene	9.43	164	529643	50.0000 ug/Kg	100
51) 2-Hexanone	10.32	43	900909	100.0000 ug/Kg	100
53) 1,2-Dibromoethane	10.06	107	417196	50.0000 ug/Kg	100
54) Chlorobenzene	10.62	112	1510957	50.0000 ug/Kg	100
55) Ethylbenzene	10.66	91	2525827	50.0000 ug/Kg	100
56) m,p-Xylene	10.81	106	1023160	50.0000 ug/Kg	100
57) o-Xylene	11.25	106	998633	50.0000 ug/Kg	100
58) Styrene	11.30	104	1597185	50.0000 ug/Kg	100
59) Isopropylbenzene	11.57	105	2637584	50.0000 ug/Kg	100
60) 1,1,2,2-Tetrachloroethane	12.06	83	500424	50.0000 ug/Kg	100
63) Bromoform	11.32	173	378049	50.0000 ug/Kg	100
64) 1,3-Dichlorobenzene	12.92	146	1284654	50.0000 ug/Kg	100
65) 1,4-Dichlorobenzene	13.01	146	1275305	50.0000 ug/Kg	100
66) 1,2-Dichlorobenzene	13.45	146	1141598	50.0000 ug/Kg	100
68) 1,2-Dibromo-3-chloropropan	14.28	75	89301	50.0000 ug/Kg	100
69) 1,2,4-Trichlorobenzene	15.00	180	826055	50.0000 ug/Kg	100
70) 1,2,3-Trichlorobenzene	15.53	180	719534	50.0000 ug/Kg	100

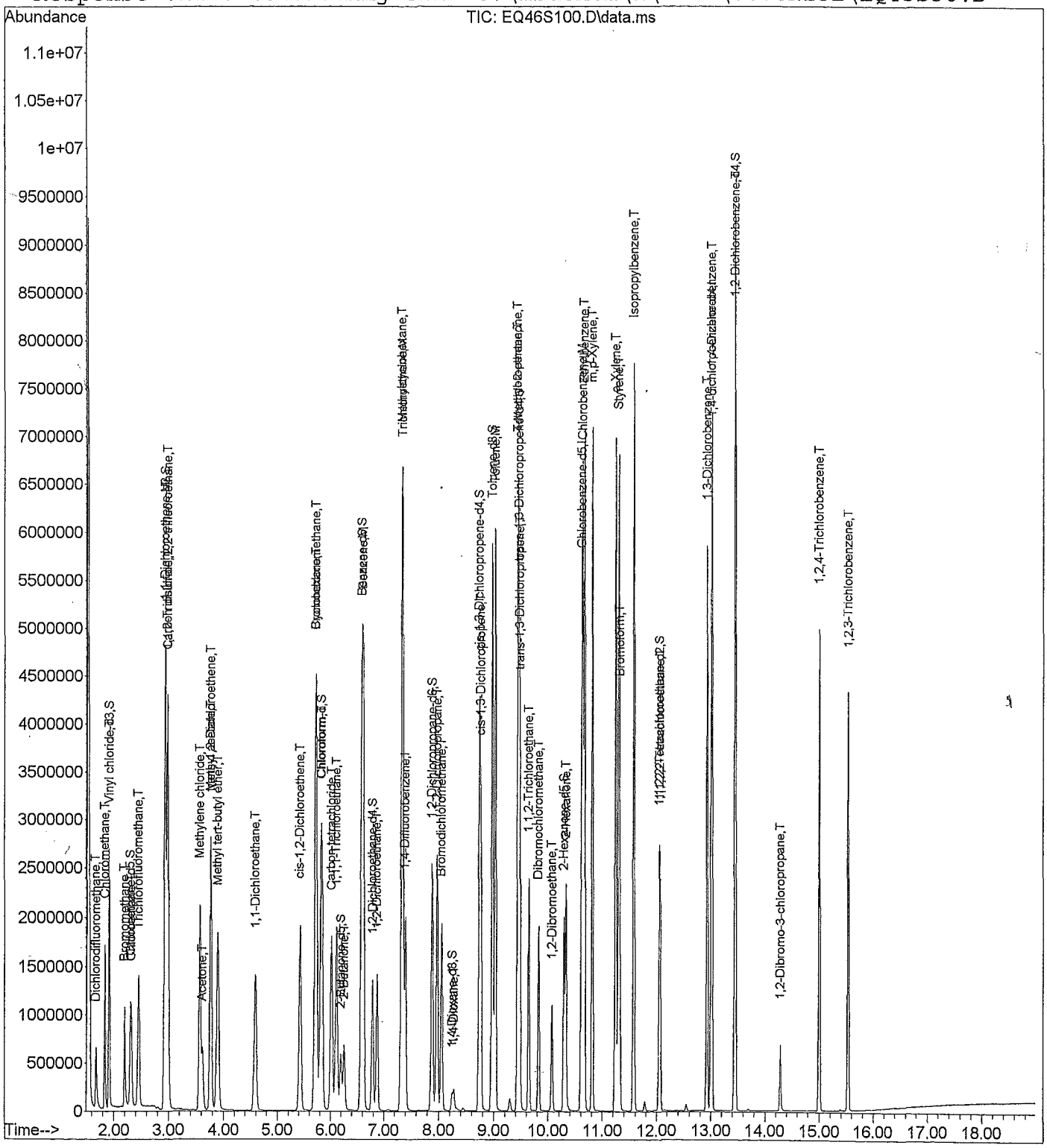
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ46S100.D Vial: 5
Acq Time : 06/08/2015 18:01 Operator: CQC
Sample : VSTD100SE VSTD100SE 100 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 5.0 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:20:33 2015 Results File: ECLPSB4.RES

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D



Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ46S100.D Vial: 5
Acq Time : 06/08/2015 18:01 Operator: CQC
Sample : VSTD100SE VSTD100SE 100 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 5.0 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:20:33 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:51 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1843623	50.0000	ug/Kg	103.11
30) Chlorobenzene-d5	10.60	117	1542879	50.0000	ug/Kg	100.88
62) 1,4-dichlorobenzene-d4	13.00	152	871244	50.0000	ug/Kg	100.25
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	1189785	103.9798	ug/Kg	207.96%#
8) Chloroethane-d5	2.30	69	746334	99.8874	ug/Kg	199.77%#
11) 1,1-Dichloroethene-d2	2.93	63	2672288	100.5833	ug/Kg	201.17%#
22) 2-Butanone-d5	6.19	46	978668	175.8898	ug/Kg	175.89%#
25) Chloroform-d	5.81	84	2101899	99.3020	ug/Kg	198.60%#
27) 1,2-Dichloroethane-d4	6.78	65	1140794	95.4456	ug/Kg	190.89%#
29) 1,4-Dioxane-d8	8.24	96	124513	1750.2797	ug/Kg	175.03%#
35) Benzene-d6	6.58	84	4426144	101.5141	ug/Kg	203.03%#
39) 1,2-Dichloropropane-d6	7.88	67	1283506	99.5276	ug/Kg	199.06%#
42) cis-1,3-Dichloropropene-d4	8.74	79	2367245	98.9334	ug/Kg	197.87%
44) trans-1,3-Dichloropropene-	9.46	79	1402549	96.9272	ug/Kg	193.85%#
49) Toluene-d8	8.97	98	4066391	101.1222	ug/Kg	202.24%#
52) 2-Hexanone-d5	10.28	63	658731	175.7447	ug/Kg	175.74%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	990015	91.5504	ug/Kg	183.10%#
67) 1,2-Dichlorobenzene-d4	13.44	152	1485192	97.4091	ug/Kg	194.82%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	679041	100.9802	ug/Kg#	99
3) Chloromethane	1.83	50	1390202	99.6305	ug/Kg	99
4) Vinyl chloride	1.91	62	1195539	100.1304	ug/Kg	100
6) Bromomethane	2.20	94	495960	92.2325	ug/Kg	98
7) Chloroethane	2.33	64	650967	98.1695	ug/Kg	99
9) Trichlorofluoromethane	2.45	101	1387519	99.6644	ug/Kg	100
10) 1,1-Dichloroethene	2.94	96	1051386	98.4683	ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	1063011	98.3167	ug/Kg	99
13) Acetone	3.61	43	940097	188.7783	ug/Kg	100
14) Carbon disulfide	2.98	76	3402946	99.2655	ug/Kg	100
15) Methyl acetate	3.77	43	680461	87.8075	ug/Kg	100
16) Methylene chloride	3.57	84	1021990	95.5055	ug/Kg	99
17) trans-1,2-Dichloroethene	3.76	96	1141557	98.0824	ug/Kg	100
18) Methyl tert-butyl ether	3.89	73	2443084	92.1793	ug/Kg	100
19) 1,1-Dichloroethane	4.58	63	2231431	97.4221	ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	1192895	97.4730	ug/Kg	99
21) 2-Butanone	6.25	43	1166511	185.3365	ug/Kg	100
23) Bromochloromethane	5.71	128	542487	95.2690	ug/Kg	99
24) Chloroform	5.83	83	1866888	96.0617	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ46S100.D Vial: 5
Acq Time : 06/08/2015 18:01 Operator: CQC
Sample : VSTD100SE VSTD100SE 100 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 5.0 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:20:33 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:51 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D
DataAcq Meth : ECLPSB4.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) 1,2-Dichloroethane	6.87	62	1387585	95.4572	ug/Kg	100
28) 1,4-Dioxane	8.27	88	148758	1739.3662	ug/Kg	97
31) 1,1,1-Trichloroethane	6.11	97	1776586	101.0092	ug/Kg	100
32) Cyclohexane	5.72	56	2687722	100.9560	ug/Kg	99
33) Carbon tetrachloride	6.01	117	1698165	100.4615	ug/Kg	100
34) Benzene	6.61	78	4165788	99.7021	ug/Kg#	99
36) Trichloroethene	7.35	130	1252038	99.2349	ug/Kg	98
37) Methylcyclohexane	7.33	83	2180833	99.7602	ug/Kg	99
38) 1,2-Dichloropropane	7.97	63	1184762	97.9948	ug/Kg	98
40) Bromodichloromethane	8.05	83	1372462	98.9797	ug/Kg	99
41) cis-1,3-Dichloropropene	8.77	75	1722525	97.3221	ug/Kg	99
43) trans-1,3-Dichloropropene	9.48	75	1465037	96.9930	ug/Kg	98
45) 1,1,2-Trichloroethane	9.64	97	775688	95.4311	ug/Kg	99
46) Dibromochloromethane	9.83	129	1057167	95.9458	ug/Kg	100
47) 4-Methyl-2-pentanone	9.44	43	1797551	177.3066	ug/Kg	99
48) Toluene	9.02	91	4439697	99.1329	ug/Kg	100
50) Tetrachloroethene	9.44	164	1063957	99.5664	ug/Kg	99
51) 2-Hexanone	10.32	43	1652963	181.8797	ug/Kg	99
53) 1,2-Dibromoethane	10.07	107	795774	94.5413	ug/Kg	99
54) Chlorobenzene	10.62	112	2976021	97.6238	ug/Kg	100
55) Ethylbenzene	10.66	91	4990045	97.9203	ug/Kg	100
56) m,p-Xylene	10.81	106	2034558	98.5595	ug/Kg	99
57) o-Xylene	11.25	106	1967842	97.6689	ug/Kg	99
58) Styrene	11.30	104	3131606	97.1816	ug/Kg	100
59) Isopropylbenzene	11.57	105	5239951	98.4675	ug/Kg	100
60) 1,1,2,2-Tetrachloroethane	12.06	83	926148	91.7306	ug/Kg	99
63) Bromoform	11.32	173	711205	93.8237	ug/Kg	100
64) 1,3-Dichlorobenzene	12.92	146	2524747	98.0162	ug/Kg	100
65) 1,4-Dichlorobenzene	13.02	146	2512993	98.2750	ug/Kg	98
66) 1,2-Dichlorobenzene	13.45	146	2225775	97.2376	ug/Kg	100
68) 1,2-Dibromo-3-chloropropan	14.28	75	160287	89.5175	ug/Kg	99
69) 1,2,4-Trichlorobenzene	15.00	180	1622041	97.9307	ug/Kg	99
70) 1,2,3-Trichlorobenzene	15.53	180	1398683	96.9469	ug/Kg	100

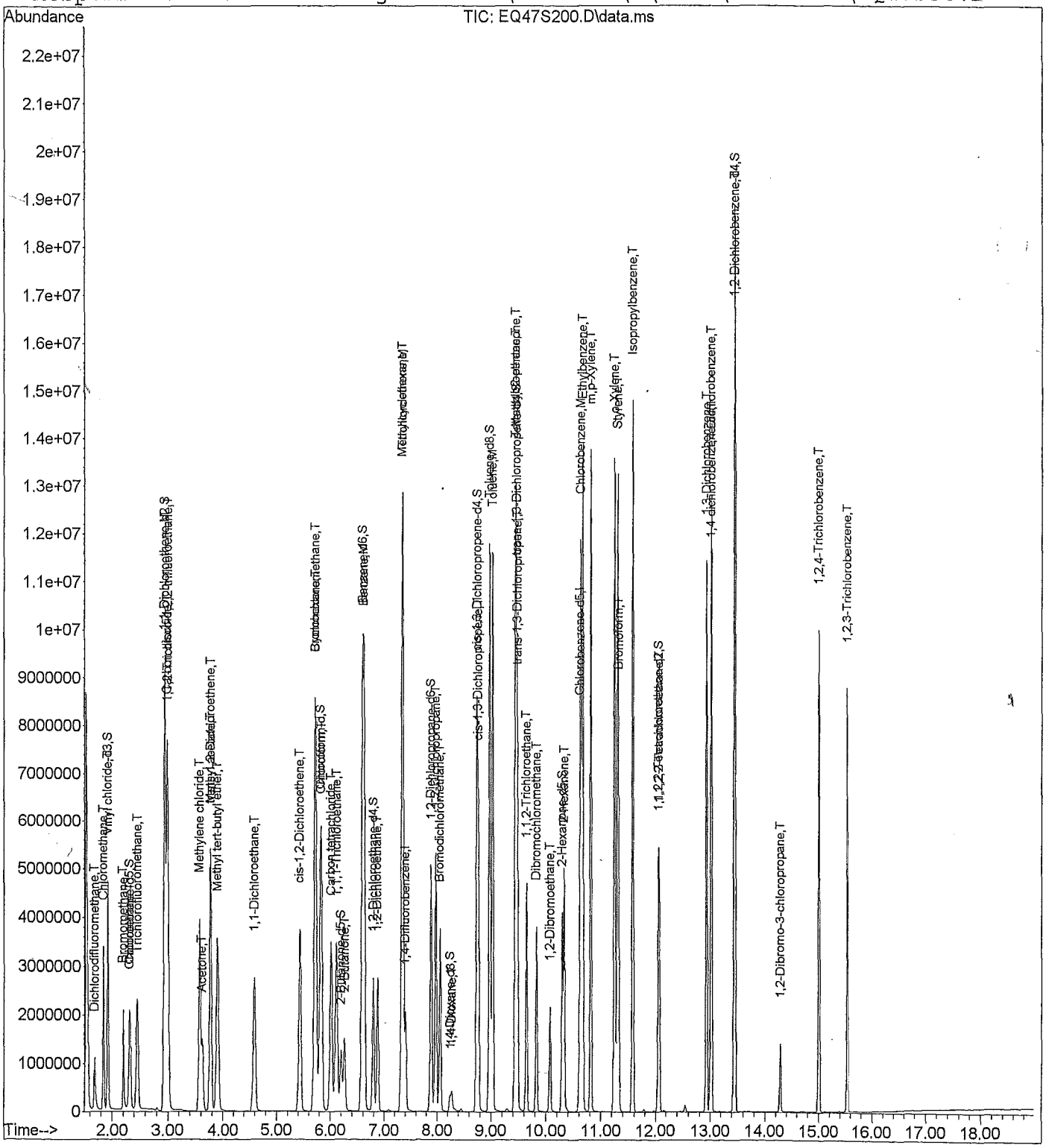
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ47S200.D Vial: 6
Acq Time : 06/08/2015 18:25 Operator: CQC
Sample : VSTD200SE VSTD200SE 200 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 10 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:44:28 2015 Results File: ECLPSB4.RES

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D



Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ47S200.D Vial: 6
Acq Time : 06/08/2015 18:25 Operator: CQC
Sample : VSTD200SE VSTD200SE 200 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 10 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:44:28 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:51 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1832480	50.0000	ug/Kg	102.49
30) Chlorobenzene-d5	10.60	117	1532508	50.0000	ug/Kg	100.20
62) 1,4-dichlorobenzene-d4	13.00	152	855632	50.0000	ug/Kg	98.46
System Monitoring Compounds						**%Recovery**
5) Vinyl chloride-d3	1.92	65	2341052	205.8374	ug/Kg	411.67%#
8) Chloroethane-d5	2.31	69	1419305	191.1111	ug/Kg	382.22%#
11) 1,1-Dichloroethene-d2	2.93	63	5225737	197.8896	ug/Kg	395.78%#
22) 2-Butanone-d5	6.19	46	2054312	371.4535	ug/Kg	371.45%#
25) Chloroform-d	5.81	84	4157460	197.6092	ug/Kg	395.22%#
27) 1,2-Dichloroethane-d4	6.78	65	2302259	193.7919	ug/Kg	387.58%#
29) 1,4-Dioxane-d8	8.24	96	244363	3455.8993	ug/Kg	345.59%#
35) Benzene-d6	6.58	84	8800162	203.1986	ug/Kg	406.40%#
39) 1,2-Dichloropropane-d6	7.88	67	2587727	202.0194	ug/Kg	404.04%#
42) cis-1,3-Dichloropropene-d4	8.74	79	4765114	200.4944	ug/Kg	400.99%#
44) trans-1,3-Dichloropropene-	9.46	79	2826197	196.6342	ug/Kg	393.27%#
49) Toluene-d8	8.97	98	8093863	202.6387	ug/Kg	405.28%#
52) 2-Hexanone-d5	10.28	63	1331623	357.6717	ug/Kg	357.67%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	1995659	185.7950	ug/Kg	371.59%#
67) 1,2-Dichlorobenzene-d4	13.44	152	2979421	198.9764	ug/Kg	397.95%#
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.68	85	1327008	198.5394	ug/Kg#	100
3) Chloromethane	1.84	50	2755990	198.7123	ug/Kg	99
4) Vinyl chloride	1.92	62	2329508	196.2905	ug/Kg	99
6) Bromomethane	2.20	94	904202	169.1749	ug/Kg	99
7) Chloroethane	2.33	64	1233833	187.2004	ug/Kg	98
9) Trichlorofluoromethane	2.46	101	2655600	191.9096	ug/Kg	99
10) 1,1-Dichloroethene	2.94	96	2034524	191.7035	ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	2083816	193.9017	ug/Kg	100
13) Acetone	3.62	43	2125762	429.4642	ug/Kg	100
14) Carbon disulfide	2.98	76	6505688	190.9279	ug/Kg	100
15) Methyl acetate	3.77	43	1343926	174.4764	ug/Kg	100
16) Methylene chloride	3.57	84	1995304	187.5960	ug/Kg	99
17) trans-1,2-Dichloroethene	3.77	96	2213520	191.3418	ug/Kg	99
18) Methyl tert-butyl ether	3.90	73	4825002	183.1578	ug/Kg	100
19) 1,1-Dichloroethane	4.58	63	4375115	192.1748	ug/Kg	100
20) cis-1,2-Dichloroethene	5.43	96	2349758	193.1693	ug/Kg	99
21) 2-Butanone	6.26	43	2569302	410.6957	ug/Kg	100
23) Bromochloromethane	5.71	128	1059014	187.1098	ug/Kg	99
24) Chloroform	5.83	83	3684707	190.7514	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\08JUN15E\EQ47S200.D Vial: 6
Acq Time : 06/08/2015 18:25 Operator: CQC
Sample : VSTD200SE VSTD200SE 200 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28196; 10 uL of 28197, 99 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 08 18:44:28 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:03:51 2015
Response via : Continuing Cal C:\msdchem\1\DATA\08JUN15E\EQ45S50.D
DataAcq Meth : ECLPSB4.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) 1,2-Dichloroethane	6.87	62	2737237	189.4500	ug/Kg	100
28) 1,4-Dioxane	8.27	88	289282	3403.0237	ug/Kg	98
31) 1,1,1-Trichloroethane	6.11	97	3428093	196.2259	ug/Kg	100
32) Cyclohexane	5.72	56	5237566	198.0644	ug/Kg	99
33) Carbon tetrachloride	6.01	117	3309462	197.1089	ug/Kg	100
34) Benzene	6.61	78	8168186	196.8166	ug/Kg#	99
36) Trichloroethene	7.35	130	2460004	196.2961	ug/Kg	97
37) Methylcyclohexane	7.33	83	4235409	195.0561	ug/Kg	99
38) 1,2-Dichloropropane	7.97	63	2392815	199.2554	ug/Kg	100
40) Bromodichloromethane	8.05	83	2715240	197.1438	ug/Kg	99
41) cis-1,3-Dichloropropene	8.77	75	3437789	195.5485	ug/Kg	99
43) trans-1,3-Dichloropropene	9.48	75	2893321	192.8492	ug/Kg	99
45) 1,1,2-Trichloroethane	9.64	97	1538878	190.6058	ug/Kg	99
46) Dibromochloromethane	9.83	129	2110363	192.8273	ug/Kg	100
47) 4-Methyl-2-pentanone	9.44	43	3528870	350.4358	ug/Kg	99
48) Toluene	9.02	91	8693636	195.4317	ug/Kg	99
50) Tetrachloroethene	9.44	164	2093544	197.2423	ug/Kg	99
51) 2-Hexanone	10.32	43	3461505	383.4557	ug/Kg	99
53) 1,2-Dibromoethane	10.07	107	1586060	189.7058	ug/Kg	99
54) Chlorobenzene	10.62	112	5857456	193.4452	ug/Kg	100
55) Ethylbenzene	10.66	91	9561885	188.9039	ug/Kg	99
56) m,p-Xylene	10.81	106	3942443	192.2751	ug/Kg	99
57) o-Xylene	11.25	106	3867720	193.2637	ug/Kg	97
58) Styrene	11.30	104	6043590	188.8169	ug/Kg	99
59) Isopropylbenzene	11.57	105	10042725	189.9968	ug/Kg	99
60) 1,1,2,2-Tetrachloroethane	12.06	83	1834792	182.9573	ug/Kg	99
63) Bromoform	11.32	173	1400748	188.1615	ug/Kg	100
64) 1,3-Dichlorobenzene	12.92	146	4961837	196.1440	ug/Kg	100
65) 1,4-Dichlorobenzene	13.02	146	4931843	196.3875	ug/Kg	98
66) 1,2-Dichlorobenzene	13.45	146	4395798	195.5435	ug/Kg	99
68) 1,2-Dibromo-3-chloropropan	14.28	75	330475	187.9321	ug/Kg	99
69) 1,2,4-Trichlorobenzene	15.00	180	3237971	199.0594	ug/Kg	99
70) 1,2,3-Trichlorobenzene	15.53	180	2797748	197.4586	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-E Calibration Date: 06/11/2015 Time: 09:11

Lab File ID: EQ88S50 Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No.(VSTD#####): VSTD050W1 Init. Calib. Time(s): 16:45 18:25

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.191	0.188	0.010	-1.2	40.0
Chloromethane	0.395	0.435	0.010	10.3	40.0
Vinyl chloride	0.338	0.363	0.100	7.5	25.0
Bromomethane	0.150	0.166	0.100	11.1	25.0
Chloroethane	0.192	0.202	0.010	5.4	40.0
Trichlorofluoromethane	0.390	0.418	0.010	7.3	40.0
1,1-Dichloroethene	0.299	0.300	0.100	0.5	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.301	0.312	0.010	3.6	40.0
Acetone	0.132	0.168	0.010	27.0	40.0
Carbon disulfide	0.955	0.977	0.010	2.3	40.0
Methyl acetate	0.197	0.215	0.010	9.0	40.0
Methylene chloride	0.312	0.305	0.010	-2.1	40.0
trans-1,2-Dichloroethene	0.327	0.333	0.010	2.0	40.0
Methyl tert-butyl ether	0.709	0.720	0.010	1.5	40.0
1,1-Dichloroethane	0.635	0.659	0.200	3.9	25.0
cis-1,2-Dichloroethene	0.342	0.354	0.010	3.4	40.0
2-Butanone	0.162	0.195	0.010	20.4	40.0
Bromochloromethane	0.156	0.163	0.050	4.4	25.0
Chloroform	0.540	0.558	0.200	3.3	25.0
1,1,1-Trichloroethane	0.593	0.581	0.100	-2.0	25.0
Cyclohexane	0.896	0.885	0.010	-1.3	40.0
Carbon tetrachloride	0.566	0.543	0.100	-4.2	25.0
Benzene	1.396	1.363	0.400	-2.3	25.0
1,2-Dichloroethane	0.397	0.415	0.100	4.6	25.0
1,4-Dioxane	0.0022	0.0023	0.0050	7.2	50.0
Trichloroethene	0.419	0.408	0.300	-2.5	25.0
Methylcyclohexane	0.727	0.711	0.010	-2.1	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-E Calibration Date: 06/11/2015 Time: 09:11

Lab File ID: EQ88S50 Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No.(VSTD#####): VSTD050W1 Init. Calib. Time(s): 16:45 18:25

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.403	0.391	0.010	-3.0	40.0
Bromodichloromethane	0.462	0.445	0.200	-3.8	25.0
cis-1,3-Dichloropropene	0.578	0.567	0.200	-1.9	25.0
4-Methyl-2-Pentanone	0.309	0.323	0.010	4.5	40.0
Toluene	1.500	1.462	0.400	-2.5	25.0
trans-1,3-Dichloropropene	0.496	0.486	0.100	-1.9	25.0
1,1,2-Trichloroethane	0.265	0.258	0.100	-2.4	25.0
Tetrachloroethene	0.355	0.352	0.100	-0.8	25.0
2-Hexanone	0.279	0.331	0.010	18.7	40.0
Dibromochloromethane	0.357	0.349	0.100	-2.4	25.0
1,2-Dibromoethane	0.270	0.268	0.010	-0.8	40.0
Chlorobenzene	1.015	1.017	0.500	0.2	25.0
Ethylbenzene	1.693	1.677	0.100	-0.9	25.0
o-Xylene	0.668	0.663	0.300	-0.9	25.0
m,p-Xylene	0.688	0.686	0.300	-0.3	25.0
Styrene	1.064	1.061	0.300	-0.3	25.0
Bromoform	0.435	0.420	0.050	-3.4	25.0
Isopropylbenzene	1.776	1.762	0.010	-0.8	40.0
1,1,2,2-Tetrachloroethane	0.319	0.321	0.300	0.8	25.0
1,3-Dichlorobenzene	1.527	1.540	0.600	0.9	25.0
1,4-Dichlorobenzene	1.520	1.534	0.500	1.0	25.0
1,2-Dichlorobenzene	1.351	1.357	0.400	0.5	25.0
1,2-Dibromo-3-chloropropane	0.099	0.096	0.010	-2.5	40.0
1,2,4-Trichlorobenzene	0.972	0.997	0.200	2.6	25.0
1,2,3-Trichlorobenzene	0.844	0.863	0.200	2.2	25.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-E Calibration Date: 06/11/2015 Time: 09:11

Lab File ID: EQ88S50 Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No.(VSTD#####): VSTD050W1 Init. Calib. Time(s): 16:45 18:25

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.332	0.326	0.010	-2.0	25.0
Chloroethane-d5	0.207	0.218	0.010	5.3	40.0
1,1-Dichloroethene-d2	0.751	0.734	0.010	-2.2	25.0
2-Butanone-d5	0.137	0.149	0.010	8.6	40.0
Chloroform-d	0.591	0.598	0.010	1.1	25.0
1,2-Dichloroethane-d4	0.325	0.326	0.010	0.3	25.0
Benzene-d6	1.457	1.375	0.010	-5.7	25.0
1,2-Dichloropropane-d6	0.427	0.403	0.010	-5.8	40.0
Toluene-d8	1.347	1.275	0.010	-5.3	25.0
trans-1,3-Dichloropropene-d4	0.472	0.446	0.010	-5.5	25.0
2-Hexanone-d5	0.111	0.110	0.010	-1.2	40.0
1,4-Dioxane-d8	0.0018	0.0019	0.0050	3.6	50.0
1,1,2,2-Tetrachloroethane-d2	0.339	0.330	0.010	-2.7	25.0
1,2-Dichlorobenzene-d4	0.894	0.877	0.010	-1.9	25.0

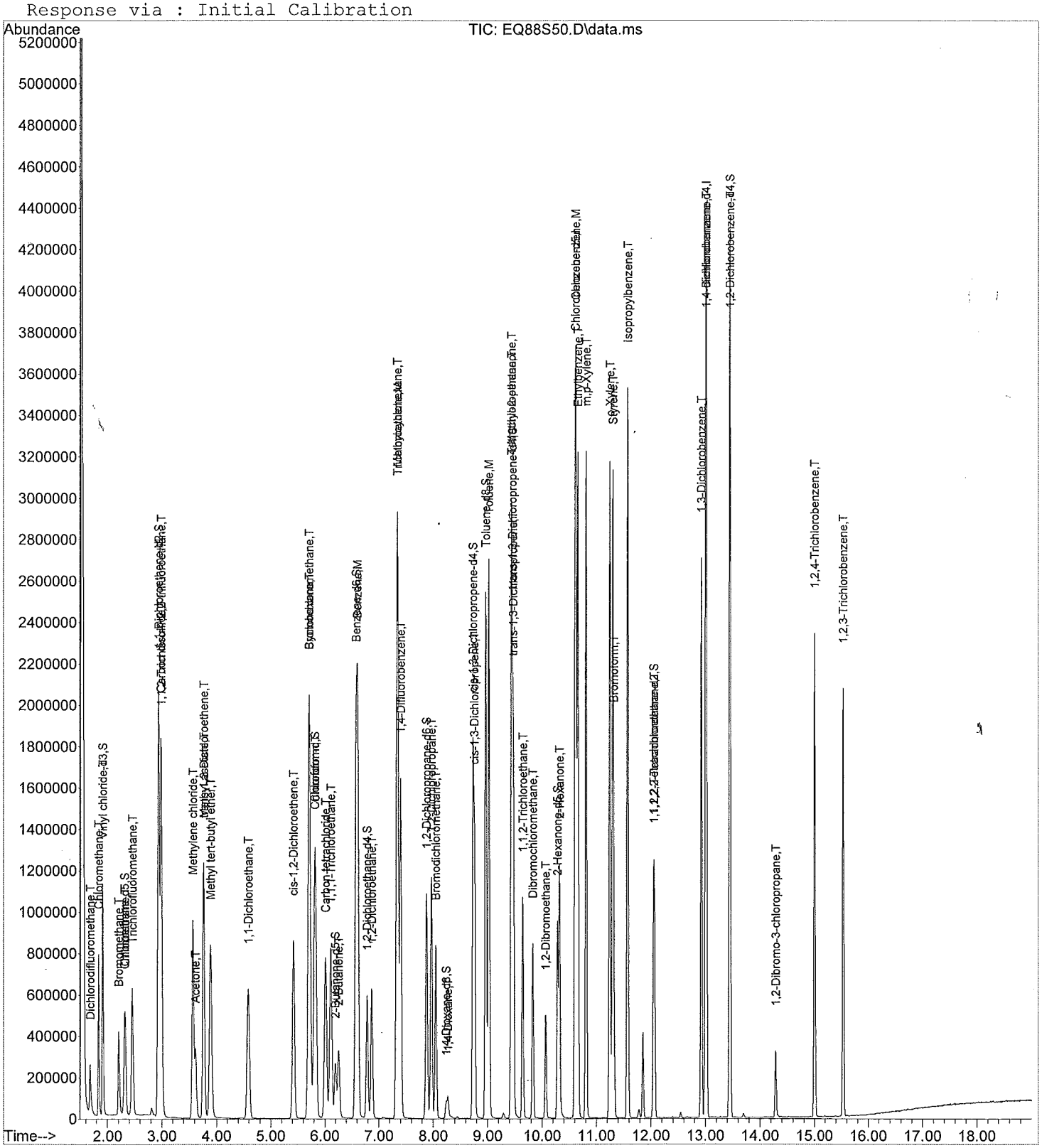
Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ88S50.D Vial: 2
Acq Time : 06/11/2015 09:11 Operator: RJH
Sample : VSTD050W1 VSTD050W1 50 ug/Kg CVS Inst : 5975-E
Misc : BFBT1 2.5uL 28198, 99; 2uL 28268 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 09:31:00 2015 Results File: ECLPSB4.RES

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri Jun 19 13:58:26 2015
Response via : Initial Calibration



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Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ88S50.D Vial: 2
Acq Time : 06/11/2015 09:11 Operator: RJH
Sample : VSTD050W1 VSTD050W1 50 ug/Kg CVS Inst : 5975-E
Misc : BFBT1 2.5uL 28198, 99; 2uL 28268 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 09:31:00 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1492439	50.0000	ug/Kg	83.47
30) Chlorobenzene-d5	10.60	117	1340881	50.0000	ug/Kg	87.67
62) 1,4-dichlorobenzene-d4	13.00	152	760612	50.0000	ug/Kg	87.52
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	486074	48.9822	ug/Kg	97.96%
8) Chloroethane-d5	2.31	69	324881	52.6286	ug/Kg	105.26%
11) 1,1-Dichloroethene-d2	2.93	63	1095977	48.9041	ug/Kg	97.81%
22) 2-Butanone-d5	6.19	46	445105	108.5792	ug/Kg	108.58%
25) Chloroform-d	5.81	84	892742	50.5722	ug/Kg	101.14%
27) 1,2-Dichloroethane-d4	6.78	65	486633	50.1512	ug/Kg	100.30%
29) 1,4-Dioxane-d8	8.24	96	57104	1036.1329	ug/Kg	103.61%
35) Benzene-d6	6.58	84	1843471	47.1681	ug/Kg	94.34%
39) 1,2-Dichloropropane-d6	7.88	67	539721	47.0958	ug/Kg	94.19%
42) cis-1,3-Dichloropropene-d4	8.74	79	982137	46.6152	ug/Kg	93.23%
44) trans-1,3-Dichloropropene-	9.46	79	598125	47.2272	ug/Kg	94.45%
49) Toluene-d8	8.97	98	1710183	47.3510	ug/Kg	94.70%
52) 2-Hexanone-d5	10.28	63	294129	98.7607	ug/Kg	98.76%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	442403	48.6595	ug/Kg	97.32%
67) 1,2-Dichlorobenzene-d4	13.44	152	667230	49.0685	ug/Kg	98.14%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	281206	49.4232	ug/Kg#	98
3) Chloromethane	1.84	50	649752	55.1268	ug/Kg	99
4) Vinyl chloride	1.91	62	542360	53.7558	ug/Kg	98
6) Bromomethane	2.21	94	248270	55.5273	ug/Kg	98
7) Chloroethane	2.33	64	302176	52.7131	ug/Kg	96
9) Trichlorofluoromethane	2.46	101	624316	53.6693	ug/Kg	100
10) 1,1-Dichloroethene	2.94	96	447960	50.2550	ug/Kg	97
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	466102	51.7931	ug/Kg	98
13) Acetone	3.62	43	500912	126.9762	ug/Kg	97
14) Carbon disulfide	2.98	76	1458180	51.1545	ug/Kg	98
15) Methyl acetate	3.77	43	321202	54.5158	ug/Kg	97
16) Methylene chloride	3.57	84	455734	48.9746	ug/Kg	95
17) trans-1,2-Dichloroethene	3.76	96	497565	50.9912	ug/Kg	98
18) Methyl tert-butyl ether	3.89	73	1073983	50.7743	ug/Kg	96
19) 1,1-Dichloroethane	4.58	63	983999	51.9437	ug/Kg	100
20) cis-1,2-Dichloroethene	5.43	96	528341	51.6944	ug/Kg	100
21) 2-Butanone	6.26	43	583444	120.4225	ug/Kg	97
23) Bromochloromethane	5.71	128	243788	52.1961	ug/Kg	96
24) Chloroform	5.83	83	832765	51.6289	ug/Kg	98
26) 1,2-Dichloroethane	6.87	62	619254	52.3014	ug/Kg	98
28) 1,4-Dioxane	8.27	88	69693	1071.9667	ug/Kg	97
31) 1,1,1-Trichloroethane	6.11	97	778673	48.9817	ug/Kg	98
32) Cyclohexane	5.71	56	1186332	49.3749	ug/Kg	97
33) Carbon tetrachloride	6.02	117	727692	47.9134	ug/Kg	97
34) Benzene	6.61	78	1827749	48.8331	ug/Kg#	99
36) Trichloroethene	7.35	130	547686	48.7559	ug/Kg	99
37) Methylcyclohexane	7.33	83	953921	48.9376	ug/Kg	98
38) 1,2-Dichloropropane	7.97	63	524205	48.4789	ug/Kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ88S50.D Vial: 2
Acq Time : 06/11/2015 09:11 Operator: RJH
Sample : VSTD050W1 VSTD050W1 50 ug/Kg CVS Inst : 5975-E
Misc : BFBT1 2.5uL 28198, 99; 2uL 28268 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 09:31:00 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40)	Bromodichloromethane	8.05	83	596460	48.1157	ug/Kg	99
41)	cis-1,3-Dichloropropene	8.77	75	760595	49.0458	ug/Kg	97
43)	trans-1,3-Dichloropropene	9.47	75	651939	49.0264	ug/Kg	96
45)	1,1,2-Trichloroethane	9.64	97	346613	48.7827	ug/Kg	98
46)	Dibromochloromethane	9.83	129	467568	48.8148	ug/Kg	98
47)	4-Methyl-2-pentanone	9.44	43	867440	104.5124	ug/Kg	96
48)	Toluene	9.02	91	1960819	48.7519	ug/Kg	100
50)	Tetrachloroethene	9.44	164	471939	49.5866	ug/Kg	99
51)	2-Hexanone	10.32	43	888611	118.7399	ug/Kg	97
53)	1,2-Dibromoethane	10.06	107	359476	49.6003	ug/Kg	99
54)	Chlorobenzene	10.62	112	1363710	50.1218	ug/Kg	99
55)	Ethylbenzene	10.66	91	2248407	49.5361	ug/Kg	100
56)	m,p-Xylene	10.81	106	919964	49.8332	ug/Kg	98
57)	o-Xylene	11.25	106	888485	49.5724	ug/Kg	98
58)	Styrene	11.30	104	1422125	49.8611	ug/Kg	99
59)	Isopropylbenzene	11.57	105	2362286	49.5980	ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	430284	50.3758	ug/Kg	98
63)	Bromoform	11.32	173	319693	48.2765	ug/Kg	99
64)	1,3-Dichlorobenzene	12.92	146	1171606	50.4498	ug/Kg	99
65)	1,4-Dichlorobenzene	13.02	146	1167048	50.4846	ug/Kg	99
66)	1,2-Dichlorobenzene	13.45	146	1032061	50.2259	ug/Kg	100
68)	1,2-Dibromo-3-chloropropan	14.28	75	73083	48.7648	ug/Kg	98
69)	1,2,4-Trichlorobenzene	15.00	180	758244	51.3041	ug/Kg	100
70)	1,2,3-Trichlorobenzene	15.53	180	656059	51.1038	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-E Calibration Date: 06/11/2015 Time: 12:29

Lab File ID: EQ96S50 Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No.(VSTD#####): VSTD050W2 Init. Calib. Time(s): 16:45 18:25

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.191	0.178	0.010	-6.5	50.0
Chloromethane	0.395	0.405	0.010	2.5	50.0
Vinyl chloride	0.338	0.335	0.010	-0.9	50.0
Bromomethane	0.150	0.143	0.010	-4.6	50.0
Chloroethane	0.192	0.180	0.010	-6.1	50.0
Trichlorofluoromethane	0.390	0.371	0.010	-4.8	50.0
1,1-Dichloroethene	0.299	0.292	0.010	-2.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.301	0.296	0.010	-1.9	50.0
Acetone	0.132	0.125	0.010	-5.4	50.0
Carbon disulfide	0.955	0.933	0.010	-2.3	50.0
Methyl acetate	0.197	0.201	0.010	1.6	50.0
Methylene chloride	0.312	0.294	0.010	-5.7	50.0
trans-1,2-Dichloroethene	0.327	0.320	0.010	-2.1	50.0
Methyl tert-butyl ether	0.709	0.687	0.010	-3.1	50.0
1,1-Dichloroethane	0.635	0.636	0.010	0.3	50.0
cis-1,2-Dichloroethene	0.342	0.341	0.010	-0.4	50.0
2-Butanone	0.162	0.154	0.010	-5.1	50.0
Bromochloromethane	0.156	0.156	0.010	-0.6	50.0
Chloroform	0.540	0.534	0.010	-1.2	50.0
1,1,1-Trichloroethane	0.593	0.549	0.010	-7.3	50.0
Cyclohexane	0.896	0.837	0.010	-6.6	50.0
Carbon tetrachloride	0.566	0.518	0.010	-8.5	50.0
Benzene	1.396	1.301	0.010	-6.8	50.0
1,2-Dichloroethane	0.397	0.399	0.010	0.6	50.0
1,4-Dioxane	0.0022	0.0021	0.0050	-4.7	50.0
Trichloroethene	0.419	0.390	0.010	-6.9	50.0
Methylcyclohexane	0.727	0.677	0.010	-6.8	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-E Calibration Date: 06/11/2015 Time: 12:29

Lab File ID: EQ96S50 Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No.(VSTD#####): VSTD050W2 Init. Calib. Time(s): 16:45 18:25

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.403	0.384	0.010	-4.7	50.0
Bromodichloromethane	0.462	0.425	0.010	-8.1	50.0
cis-1,3-Dichloropropene	0.578	0.555	0.010	-4.0	50.0
4-Methyl-2-Pentanone	0.309	0.302	0.010	-2.4	50.0
Toluene	1.500	1.439	0.010	-4.0	50.0
trans-1,3-Dichloropropene	0.496	0.477	0.010	-3.8	50.0
1,1,2-Trichloroethane	0.265	0.257	0.010	-3.1	50.0
Tetrachloroethene	0.355	0.343	0.010	-3.2	50.0
2-Hexanone	0.279	0.267	0.010	-4.4	50.0
Dibromochloromethane	0.357	0.340	0.010	-4.9	50.0
1,2-Dibromoethane	0.270	0.260	0.010	-3.7	50.0
Chlorobenzene	1.015	0.990	0.010	-2.4	50.0
Ethylbenzene	1.693	1.642	0.010	-3.0	50.0
o-Xylene	0.668	0.639	0.010	-4.3	50.0
m,p-Xylene	0.688	0.663	0.010	-3.6	50.0
Styrene	1.064	1.019	0.010	-4.2	50.0
Bromoform	0.435	0.404	0.010	-7.1	50.0
Isopropylbenzene	1.776	1.705	0.010	-4.0	50.0
1,1,2,2-Tetrachloroethane	0.319	0.298	0.010	-6.4	50.0
1,3-Dichlorobenzene	1.527	1.490	0.010	-2.4	50.0
1,4-Dichlorobenzene	1.520	1.480	0.010	-2.6	50.0
1,2-Dichlorobenzene	1.351	1.323	0.010	-2.1	50.0
1,2-Dibromo-3-chloropropane	0.099	0.090	0.010	-8.7	50.0
1,2,4-Trichlorobenzene	0.972	0.967	0.010	-0.4	50.0
1,2,3-Trichlorobenzene	0.844	0.837	0.010	-0.8	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-E Calibration Date: 06/11/2015 Time: 12:29

Lab File ID: EQ96S50 Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No.(VSTD#####): VSTD050W2 Init. Calib. Time(s): 16:45 18:25

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.332	0.312	0.010	-6.2	50.0
Chloroethane-d5	0.207	0.200	0.010	-3.1	50.0
1,1-Dichloroethene-d2	0.751	0.738	0.010	-1.7	50.0
2-Butanone-d5	0.137	0.131	0.010	-4.8	50.0
Chloroform-d	0.591	0.587	0.010	-0.8	50.0
1,2-Dichloroethane-d4	0.325	0.312	0.010	-4.0	50.0
Benzene-d6	1.457	1.352	0.010	-7.2	50.0
1,2-Dichloropropane-d6	0.427	0.396	0.010	-7.3	50.0
Toluene-d8	1.347	1.296	0.010	-3.7	50.0
trans-1,3-Dichloropropene-d4	0.472	0.437	0.010	-7.4	50.0
2-Hexanone-d5	0.111	0.100	0.010	-9.6	50.0
1,4-Dioxane-d8	0.0018	0.0017	0.0050	-9.6	50.0
1,1,2,2-Tetrachloroethane-d2	0.339	0.312	0.010	-8.1	50.0
1,2-Dichlorobenzene-d4	0.894	0.856	0.010	-4.3	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

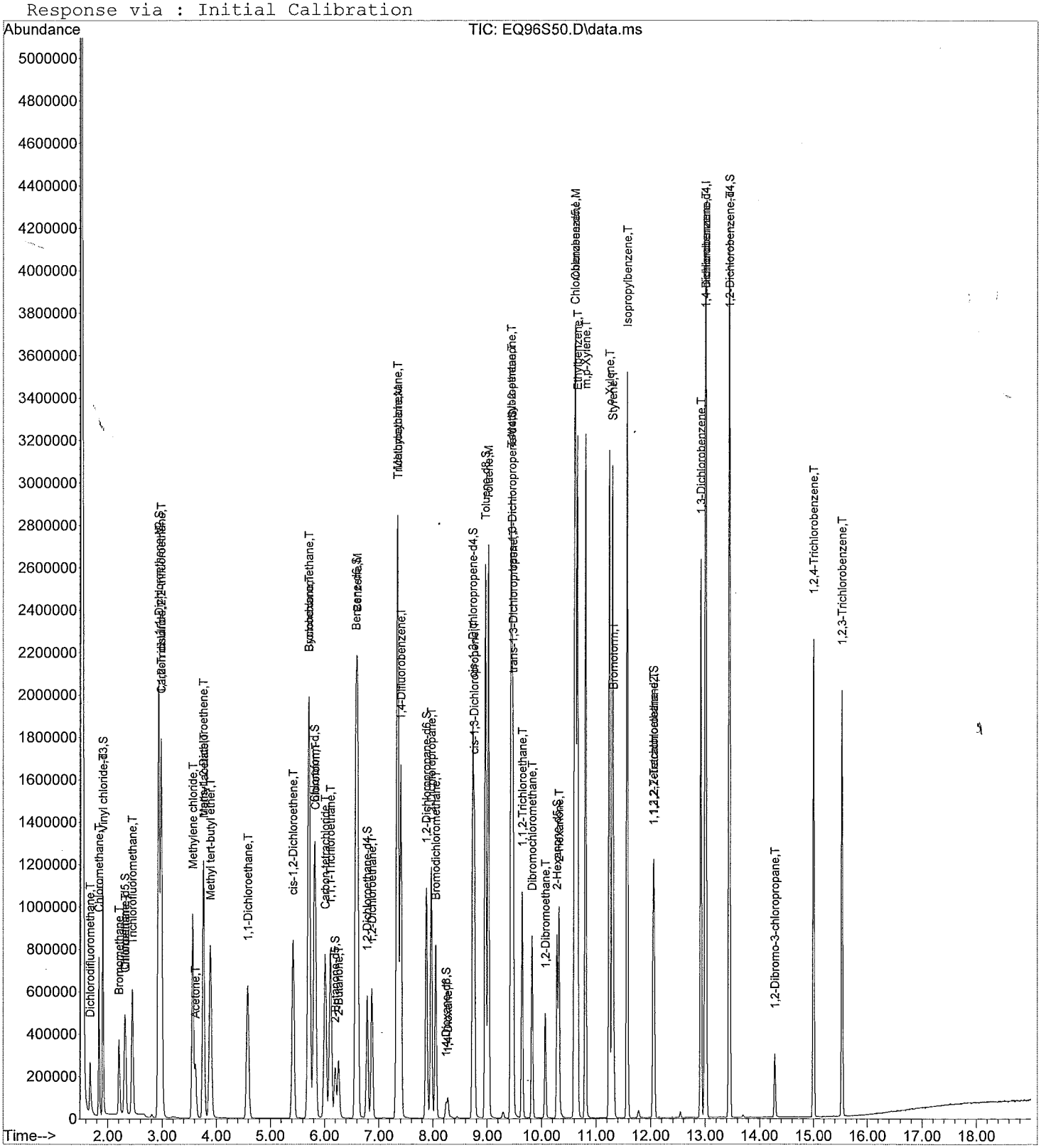
Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ96S50.D Vial: 10
Acq Time : 06/11/2015 12:29 Operator: RJH
Sample : VSTD050W2 VSTD050W2 Inst : 5975-E
Misc : 2.5 uL 28198, 28199 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 12:48:58 2015 Results File: ECLPSB4.RES

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri Jun 19 13:58:26 2015
Response via : Initial Calibration

MB 6/19/15



Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ96S50.D Vial: 10
Acq Time : 06/11/2015 12:29 Operator: RJH
Sample : VSTD050W2 VSTD050W2 Inst : 5975-E
Misc : 2.5 uL 28198, 28199 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 12:48:58 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1528685	50.0000	ug/Kg	85.50
30) Chlorobenzene-d5	10.60	117	1373664	50.0000	ug/Kg	89.81
62) 1,4-dichlorobenzene-d4	13.00	152	765932	50.0000	ug/Kg	88.14
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	476918	46.9200	ug/Kg	93.84%
8) Chloroethane-d5	2.31	69	306496	48.4731	ug/Kg	96.95%
11) 1,1-Dichloroethene-d2	2.93	63	1127738	49.1281	ug/Kg	98.26%
22) 2-Butanone-d5	6.19	46	399548	95.1550	ug/Kg	95.16%
25) Chloroform-d	5.81	84	896966	49.6068	ug/Kg	99.21%
27) 1,2-Dichloroethane-d4	6.78	65	477026	47.9955	ug/Kg	95.99%
29) 1,4-Dioxane-d8	8.24	96	51016	903.7200	ug/Kg	90.37%
35) Benzene-d6	6.58	84	1857432	46.3911	ug/Kg	92.78%
39) 1,2-Dichloropropane-d6	7.88	67	544209	46.3541	ug/Kg	92.71%
42) cis-1,3-Dichloropropene-d4	8.74	79	1000116	46.3357	ug/Kg	92.67%
44) trans-1,3-Dichloropropene-	9.46	79	600528	46.2853	ug/Kg	92.57%
49) Toluene-d8	8.97	98	1780662	48.1257	ug/Kg	96.25%
52) 2-Hexanone-d5	10.28	63	275829	90.4058	ug/Kg	90.41%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	427935	45.9449	ug/Kg	91.89%
67) 1,2-Dichlorobenzene-d4	13.44	152	655390	47.8630	ug/Kg	95.73%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	272366	46.7345	ug/Kg#	99
3) Chloromethane	1.84	50	618924	51.2662	ug/Kg	99
4) Vinyl chloride	1.91	62	511811	49.5252	ug/Kg	100
6) Bromomethane	2.21	94	218366	47.6810	ug/Kg	99
7) Chloroethane	2.33	64	275610	46.9388	ug/Kg	95
9) Trichlorofluoromethane	2.45	101	566997	47.5862	ug/Kg	99
10) 1,1-Dichloroethene	2.94	96	445785	48.8252	ug/Kg	99
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	451971	49.0320	ug/Kg	99
13) Acetone	3.61	43	382176	94.5808	ug/Kg	98
14) Carbon disulfide	2.98	76	1425786	48.8322	ug/Kg	98
15) Methyl acetate	3.77	43	306519	50.7902	ug/Kg	98
16) Methylene chloride	3.57	84	449349	47.1435	ug/Kg	95
17) trans-1,2-Dichloroethene	3.76	96	489274	48.9527	ug/Kg	99
18) Methyl tert-butyl ether	3.89	73	1049661	48.4478	ug/Kg	98
19) 1,1-Dichloroethane	4.59	63	972791	50.1345	ug/Kg	99
20) cis-1,2-Dichloroethene	5.42	96	521081	49.7752	ug/Kg	99
21) 2-Butanone	6.26	43	470945	94.8981	ug/Kg	97
23) Bromochloromethane	5.71	128	237791	49.7050	ug/Kg	96
24) Chloroform	5.83	83	816503	49.4204	ug/Kg	97
26) 1,2-Dichloroethane	6.87	62	609854	50.2862	ug/Kg	98
28) 1,4-Dioxane	8.28	88	63469	953.0866	ug/Kg	95
31) 1,1,1-Trichloroethane	6.11	97	754632	46.3365	ug/Kg	98
32) Cyclohexane	5.71	56	1149381	46.6953	ug/Kg	98
33) Carbon tetrachloride	6.01	117	711944	45.7577	ug/Kg	98
34) Benzene	6.61	78	1787226	46.6109	ug/Kg#	98
36) Trichloroethene	7.35	130	535684	46.5494	ug/Kg	100
37) Methylcyclohexane	7.33	83	930292	46.5864	ug/Kg	99
38) 1,2-Dichloropropane	7.97	63	528047	47.6688	ug/Kg	97

(#) = qualifier out of range (m) = manual integration

00094

Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ96S50.D Vial: 10
Acq Time : 06/11/2015 12:29 Operator: RJH
Sample : VSTD050W2 VSTD050W2 Inst : 5975-E
Misc : 2.5 uL 28198, 28199 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 12:48:58 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) Bromodichloromethane	8.05	83	583707	45.9631 ug/Kg	100
41) cis-1,3-Dichloropropene	8.77	75	762218	47.9775 ug/Kg	97
43) trans-1,3-Dichloropropene	9.48	75	655491	48.1171 ug/Kg	97
45) 1,1,2-Trichloroethane	9.64	97	352824	48.4718 ug/Kg	99
46) Dibromochloromethane	9.83	129	466507	47.5417 ug/Kg	98
47) 4-Methyl-2-pentanone	9.44	43	829718	97.5818 ug/Kg	97
48) Toluene	9.02	91	1976890	47.9785 ug/Kg	99
50) Tetrachloroethene	9.44	164	471729	48.3817 ug/Kg	100
51) 2-Hexanone	10.32	43	733246	95.6411 ug/Kg	97
53) 1,2-Dibromoethane	10.07	107	357648	48.1704 ug/Kg	100
54) Chlorobenzene	10.62	112	1360499	48.8104 ug/Kg	99
55) Ethylbenzene	10.66	91	2256118	48.5198 ug/Kg	100
56) m,p-Xylene	10.81	106	911227	48.1819 ug/Kg	99
57) o-Xylene	11.25	106	878385	47.8392 ug/Kg	99
58) Styrene	11.30	104	1399498	47.8967 ug/Kg	99
59) Isopropylbenzene	11.57	105	2341775	47.9940 ug/Kg	100
60) 1,1,2,2-Tetrachloroethane	12.06	83	409571	46.8065 ug/Kg	99
63) Bromoform	11.32	173	309762	46.4519 ug/Kg	99
64) 1,3-Dichlorobenzene	12.92	146	1141402	48.8078 ug/Kg	99
65) 1,4-Dichlorobenzene	13.01	146	1133878	48.7090 ug/Kg	99
66) 1,2-Dichlorobenzene	13.45	146	1013063	48.9589 ug/Kg	99
68) 1,2-Dibromo-3-chloropropan	14.28	75	68883	45.6431 ug/Kg	100
69) 1,2,4-Trichlorobenzene	15.00	180	740947	49.7855 ug/Kg	99
70) 1,2,3-Trichlorobenzene	15.53	180	641007	49.5845 ug/Kg	99

(#) = qualifier out of range (m) = manual integration

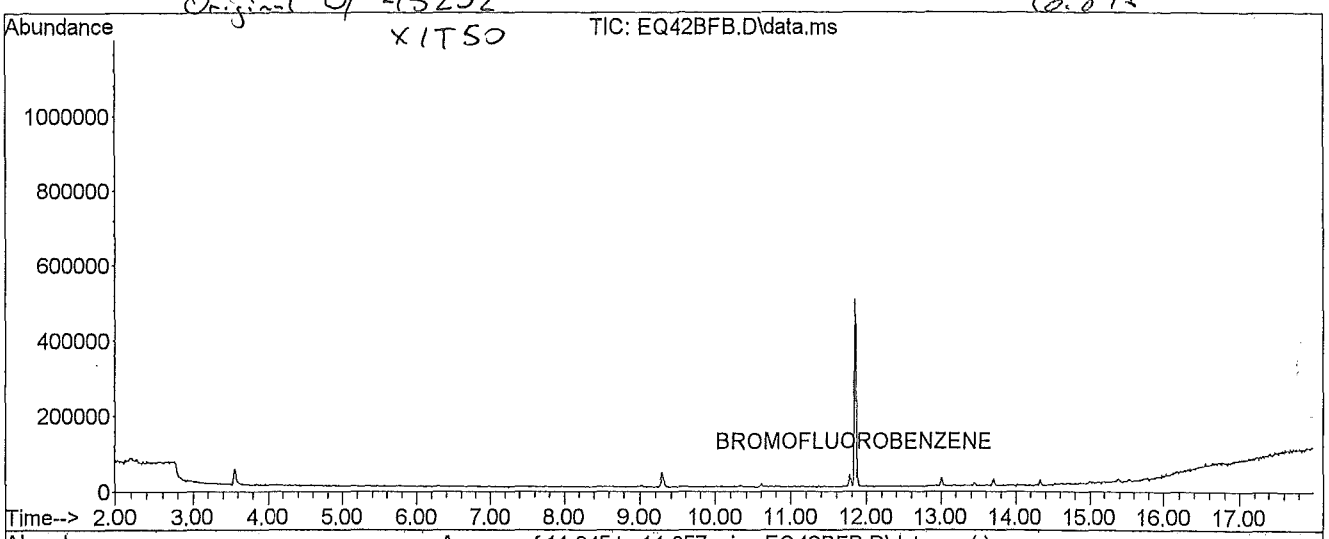
SOM01.2 BFB

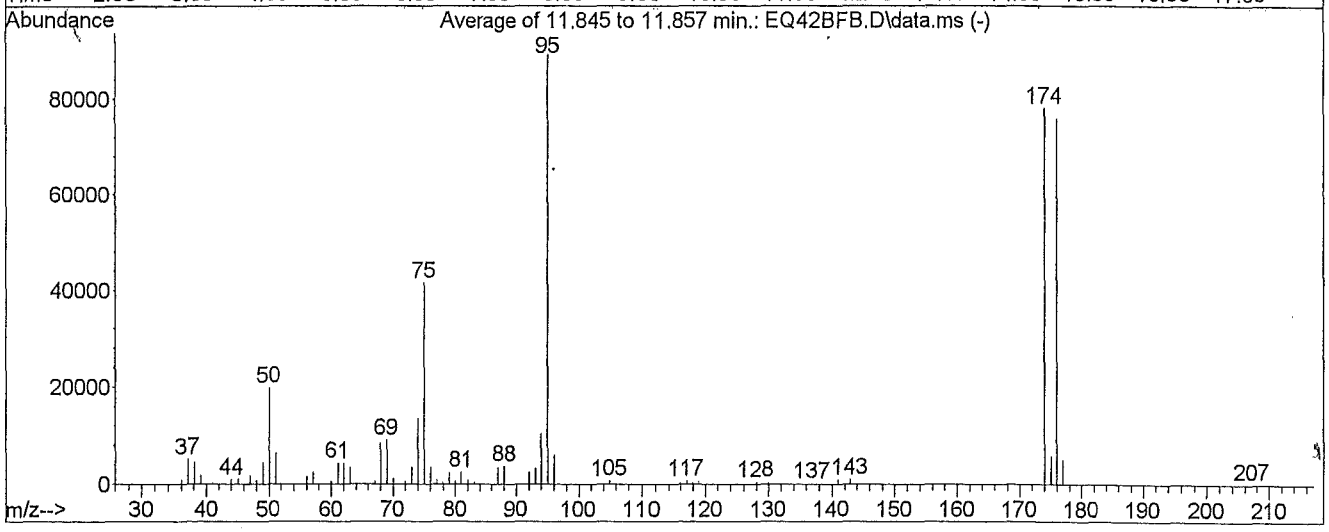
Data File : C:\msdchem\1\DATA\08JUN15E\EQ42BFB.D
Acq Time : 06/08/2015 16:21
Sample : BFBSE 50 ng BFB
Misc : 2.0 uL of 28268
MS Integration Params: rteint.p

Vial: 1
Operator: CQC
Inst : 5975-E
Multiplr: 1.00
Column ID: Rtx-VMS

Method : C:\msdchem\1\methods\BFB_SOM.M (RTE Integrator)
Title : VOA COMPOUND LIST

Original 0/ 45202 6.815
X1T50





Peak Apex is scan: 1700
Average of 3 Scans: 1699,1700,1701 minus Background scan: 1693

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.18	19824	PASS
75	95	30	80	46.42	41496	PASS
95	95	100	100	100.00	89384	PASS
96	95	5	9	6.59	5886	PASS
173	174	0.00	2	0.22	174	PASS
174	95	50	120	87.51	78224	PASS
175	174	5	9	7.41	5800	PASS
176	174	95	101	97.29	76107	PASS
177	176	5	9	6.64	5056	PASS

Data File : C:\msdchem\1\DATA\08JUN15E\EQ42BFB.D
Inject Time: 06/08/2015 16:21 Operator:CQC
Sample : BFBSE 5 Inst :5975-E
Misc : 2.0 uL of 28268

Average of 11.845 to 11.857 min.: EQ42BFB.D\data.ms
BFBSE 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	846	50.00	19824	64.00	200	77.95	346
37.10	5129	51.05	6366	67.05	575	79.00	2354
38.05	4452	52.00	148	68.00	8494	80.00	566
39.10	1754	55.05	103	69.00	9001	80.90	2443
41.05	263	56.00	1565	70.05	1100	81.95	707
43.05	208	57.00	2408	72.00	557	83.10	352
44.00	953	59.90	508	73.00	3585	87.00	3465
45.05	1100	60.10	409	74.00	13510	88.00	3674
47.00	1674	61.05	4324	75.00	41496	91.05	110
48.00	696	62.00	4252	76.00	3451	92.05	2500
49.05	4437	63.00	3508	77.05	919	93.00	3320

Average of 11.845 to 11.857 min.: EQ42BFB.D\data.ms
BFBSE 50 ng BFB
Modified:subtracted

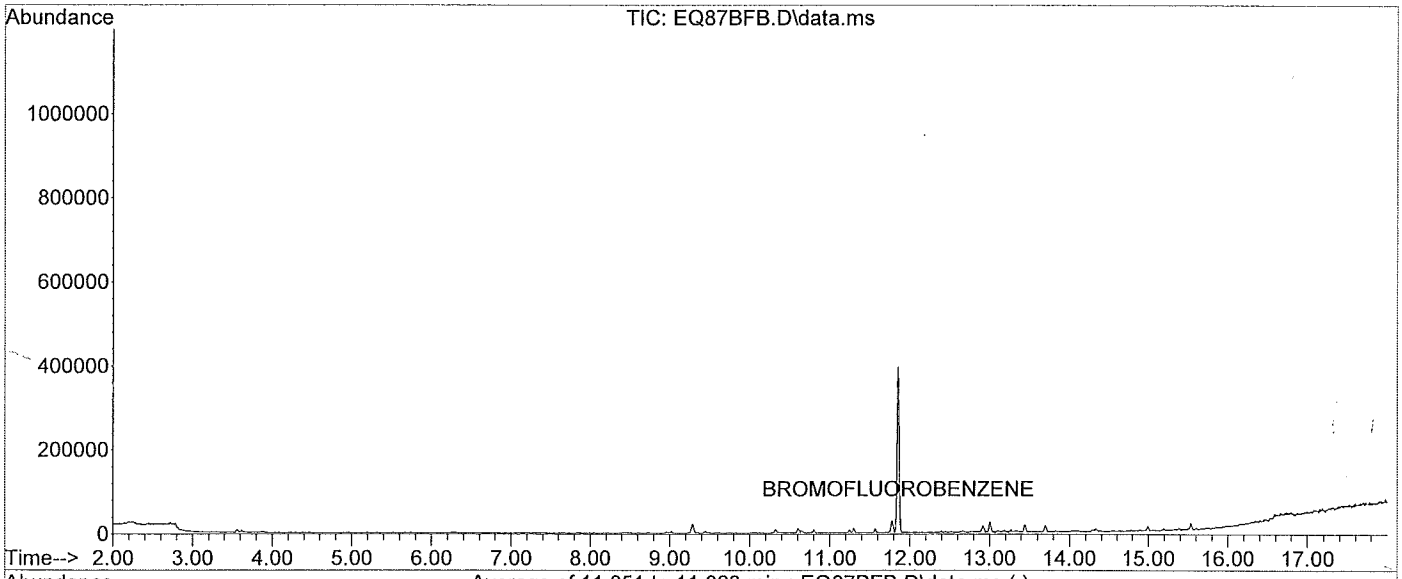
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	10413	130.00	316				
95.00	89384	136.90	148				
96.00	5886	140.95	865				
104.00	138	142.90	1056				
105.00	694	172.80	174				
105.90	143	174.00	78224				
115.85	279	175.00	5800				
116.95	673	175.95	76107				
117.90	315	176.95	5056				
118.90	557	207.20	182				
128.00	428						

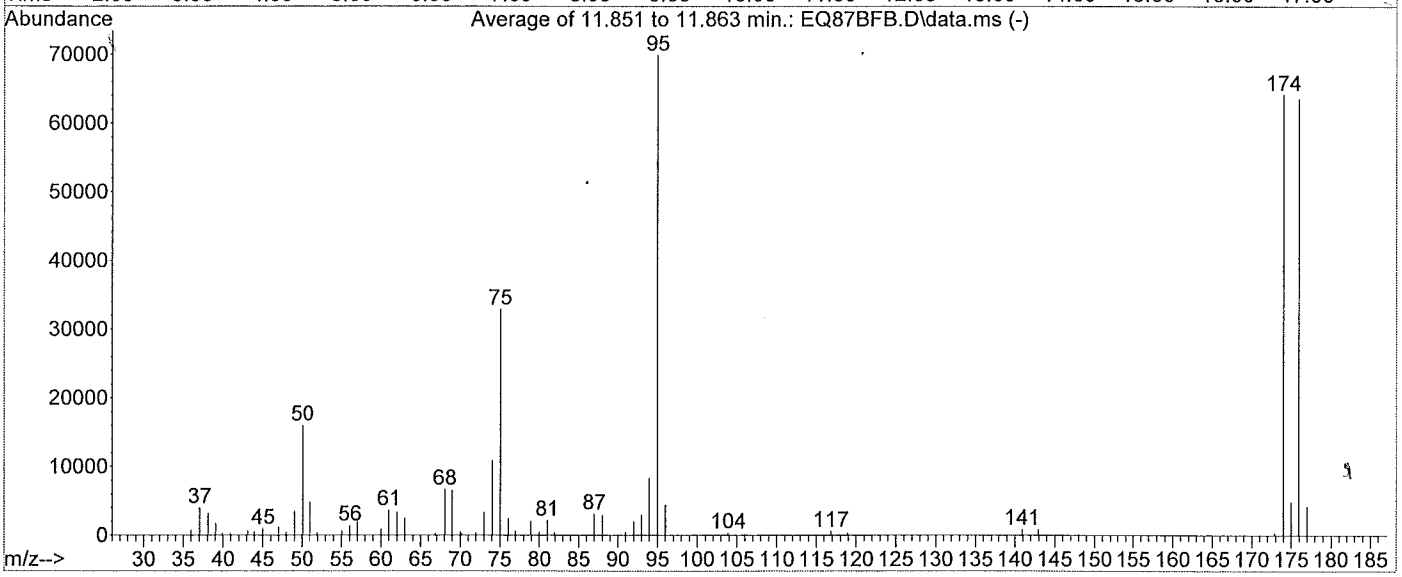
SOM01.2 BFB

Data File : C:\msdchem\1\DATA\11JUN15E\EQ87BFB.D Vial: 1
Acq Time : 06/11/2015 08:47 Operator: RJH
Sample : BFBW1 50 ng BFB Inst : 5975-E
Misc : 2.0 uL of 28268 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Method : C:\msdchem\1\methods\BFB_SOM.M (RTE Integrator)
Title : VOA COMPOUND LIST

6/19/15





Peak Apex is scan: 1701
Average of 3 Scans: 1700,1701,1702 minus Background scan: 1693

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.81	15933	PASS
75	95	30	80	47.07	32885	PASS
95	95	100	100	100.00	69859	PASS
96	95	5	9	6.31	4410	PASS
173	174	0.00	2	0.41	264	PASS
174	95	50	120	91.82	64144	PASS
175	174	5	9	7.51	4815	PASS
176	174	95	101	99.02	63515	PASS
177	176	5	9	6.58	4182	PASS

EQ87BFB.D BFB_SOM.M Fri Jun 19 13:40:08 2015

Data File : C:\msdchem\1\DATA\11JUN15E\EQ87BFB.D
Inject Time: 06/11/2015 08:47 Operator:RJH
Sample : BFBW1 5 Inst :5975-E
Misc : 2.0 uL of 28268

Average of 11.851 to 11.863 min.: EQ87BFB.D\data.ms
BFBW1 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	693	49.00	3476	66.90	224	78.95	2009
37.05	3969	50.05	15933	68.05	6630	80.00	410
38.10	3197	51.05	4818	69.00	6516	81.00	2143
39.05	1675	51.95	289	70.00	441	81.95	334
39.95	271	55.05	611	70.20	235	86.95	3055
40.95	198	56.05	1367	72.00	347	88.00	2839
43.15	557	57.00	1905	73.00	3267	91.00	433
44.00	428	60.00	861	74.05	10852	92.00	1938
45.05	918	61.00	3603	75.05	32885	93.00	2881
47.00	1179	62.00	3342	76.05	2416	94.00	8287
47.95	415	63.00	2432	76.95	575	95.00	69859

Average of 11.851 to 11.863 min.: EQ87BFB.D\data.ms
BFBW1 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	4410	175.95	63515				
103.90	288	177.00	4182				
106.00	140						
116.85	550						
117.80	163						
118.90	296						
140.90	796						
142.95	790						
172.90	264						
174.00	64144						
175.00	4815						

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 451200

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ89BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	1.1	J
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.17	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 451200

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ89BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	0.18	J
95-47-6	o-Xylene	0.16	J
179601-23-1	m,p-Xylene	0.18	J
100-42-5	Styrene	0.23	J
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	0.18	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	0.26	J
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.44	J
87-61-6	1,2,3-Trichlorobenzene	0.71	J

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 451200

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ89BLK

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

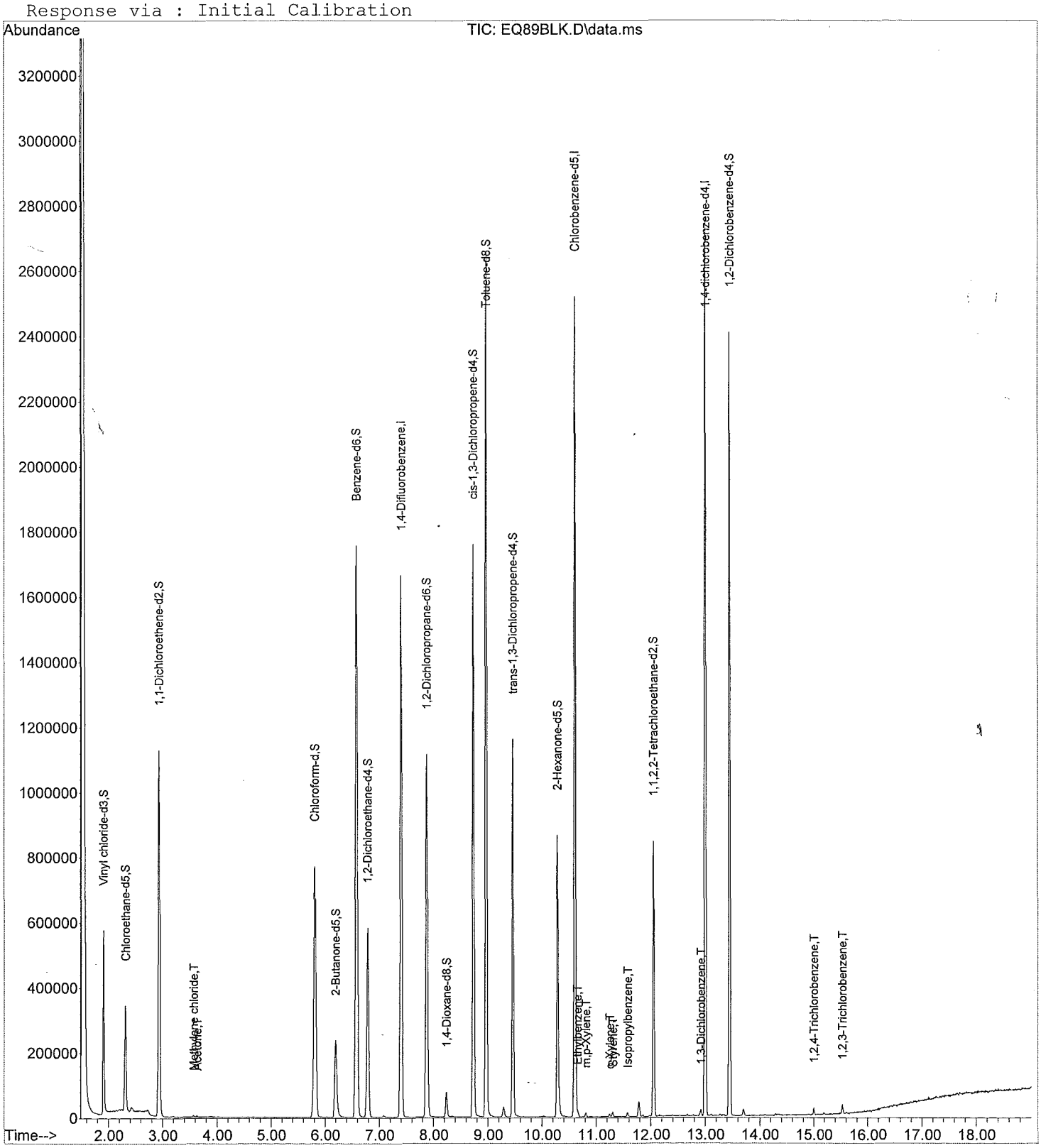
[1] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ89BLK.D Vial: 3
Acq Time : 06/11/2015 09:37 Operator: RJH
Sample : 451200 VBLKW1 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:51:20 2015 Results File: ECLPSB4.RES

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri Jun 19 13:58:26 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ89BLK.D Vial: 3
Acq Time : 06/11/2015 09:37 Operator: RJH
Sample : 451200 VBLKW1 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:51:20 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1537619	50.0000 ug/Kg	86.00
30) Chlorobenzene-d5	10.60	117	1384799	50.0000 ug/Kg	90.54
62) 1,4-dichlorobenzene-d4	13.00	152	768124	50.0000 ug/Kg	88.39
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	1.91	65	489446	47.8728 ug/Kg	95.75%
8) Chloroethane-d5	2.32	69	321961	50.6230 ug/Kg	101.25%
11) 1,1-Dichloroethene-d2	2.93	63	873684	37.8395 ug/Kg	75.68%
22) 2-Butanone-d5	6.19	46	410574	97.2128 ug/Kg	97.21%
25) Chloroform-d	5.81	84	869874	47.8289 ug/Kg	95.66%
27) 1,2-Dichloroethane-d4	6.78	65	487590	48.7734 ug/Kg	97.55%
29) 1,4-Dioxane-d8	8.24	96	55273	973.4414 ug/Kg	97.34%
35) Benzene-d6	6.58	84	1889639	46.8160 ug/Kg	93.63%
39) 1,2-Dichloropropane-d6	7.88	67	549951	46.4665 ug/Kg	92.93%
42) cis-1,3-Dichloropropene-d4	8.74	79	991255	45.5559 ug/Kg	91.11%
44) trans-1,3-Dichloropropene-	9.46	79	601049	45.9529 ug/Kg	91.91%
49) Toluene-d8	8.97	98	1775893	47.6109 ug/Kg	95.22%
52) 2-Hexanone-d5	10.28	63	277507	90.2244 ug/Kg	90.22%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	427359	45.5141 ug/Kg	91.03%
67) 1,2-Dichlorobenzene-d4	13.44	152	663558	48.3213 ug/Kg	96.64%
Target Compounds					**Qvalue**
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	4660	1.1466 ug/Kg	78
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	1670	0.1742 ug/Kg	65
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

00094

Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ89BLK.D Vial: 3
Acq Time : 06/11/2015 09:37 Operator: RJH
Sample : 451200 VBLKW1 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

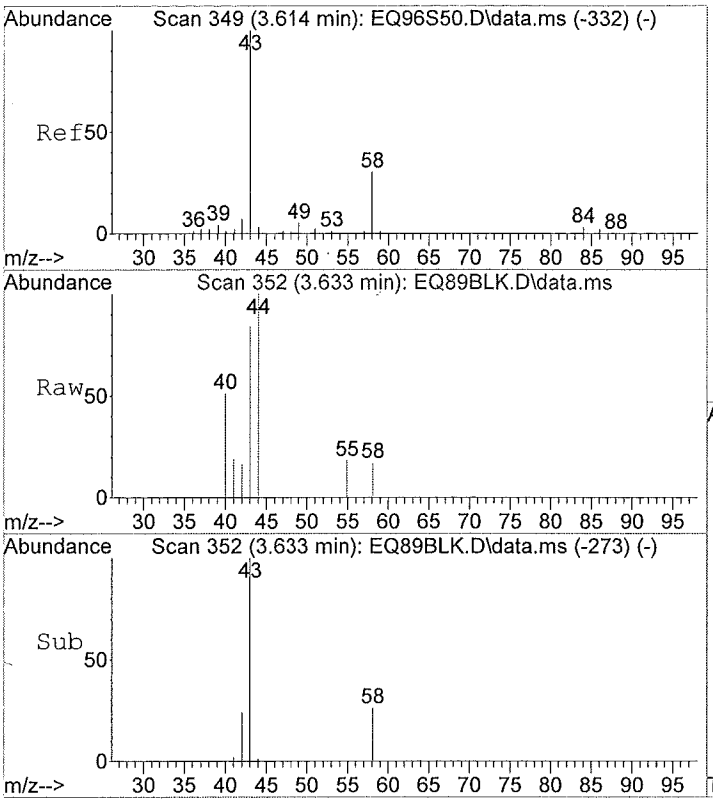
Quant Time: Jun 19 13:51:20 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	10.66	91	8455	0.1804 ug/Kg	96
56)	m,p-Xylene	10.81	106	3392	0.1779 ug/Kg	80
57)	o-Xylene	11.25	106	2928	0.1582 ug/Kg	83
58)	Styrene	11.30	104	6773	0.2299 ug/Kg	97
59)	Isopropylbenzene	11.57	105	9028	0.1835 ug/Kg	95
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	12.92	146	6011	0.2563 ug/Kg	96
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	15.00	180	6627	0.4440 ug/Kg	92
70)	1,2,3-Trichlorobenzene	15.53	180	9250	0.7135 ug/Kg	99

(#) = qualifier out of range (m) = manual integration

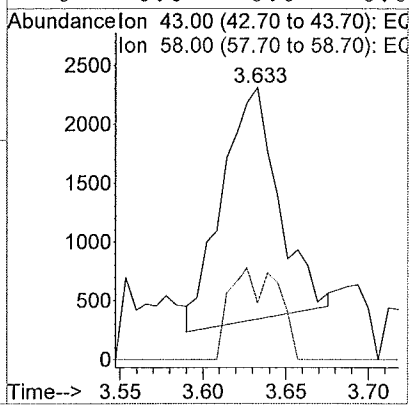
: 00095

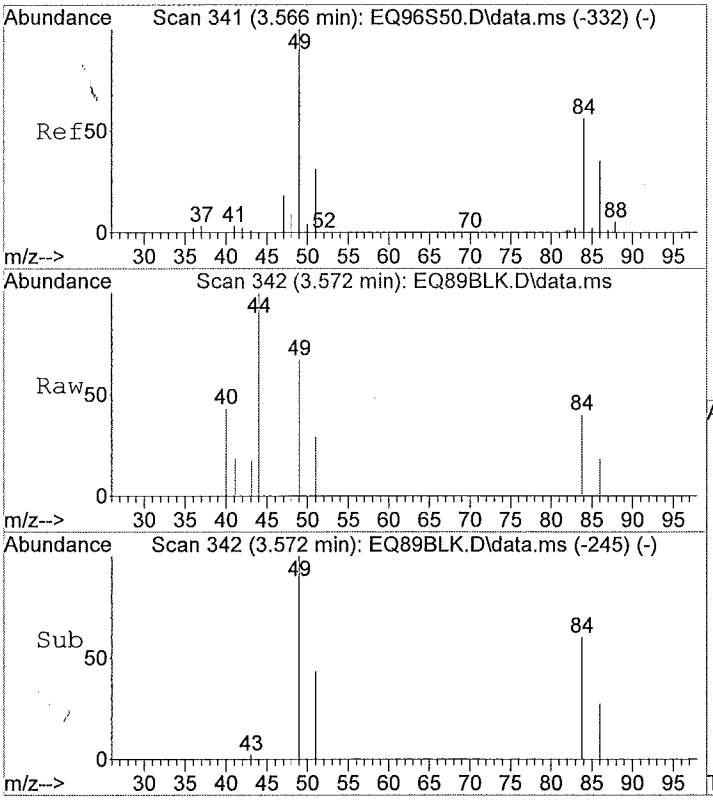


#13
Acetone
Concen: 1.15 ug/Kg
RT: 3.63 min Scan# 352
Delta R.T. 0.02 min
Lab File: EQ89BLK.D
Acq: 06/11/2015 09:37

Tgt Ion:43 Resp: 4660

Ion	Ratio	Lower	Upper
43	100		
58	19.5	15.8	47.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

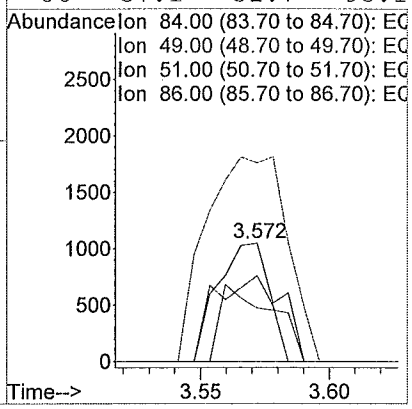


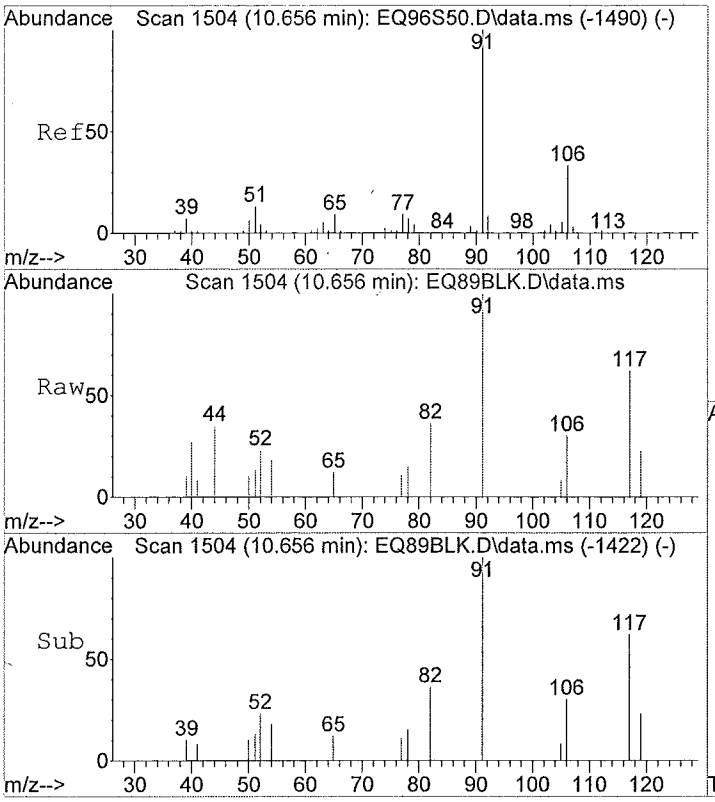


#16
Methylene chloride
Concen: 0.17 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. 0.01 min
Lab File: EQ89BLK.D
Acq: 06/11/2015 09:37

Tgt Ion:84 Resp: 1670

Ion	Ratio	Lower	Upper
84	100		
49	237.2	85.0	254.9
51	68.5	26.5	79.5
86	57.1	31.7	95.1

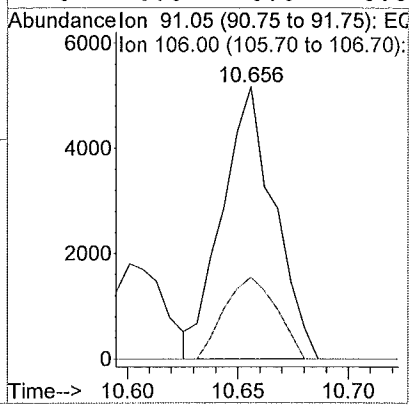


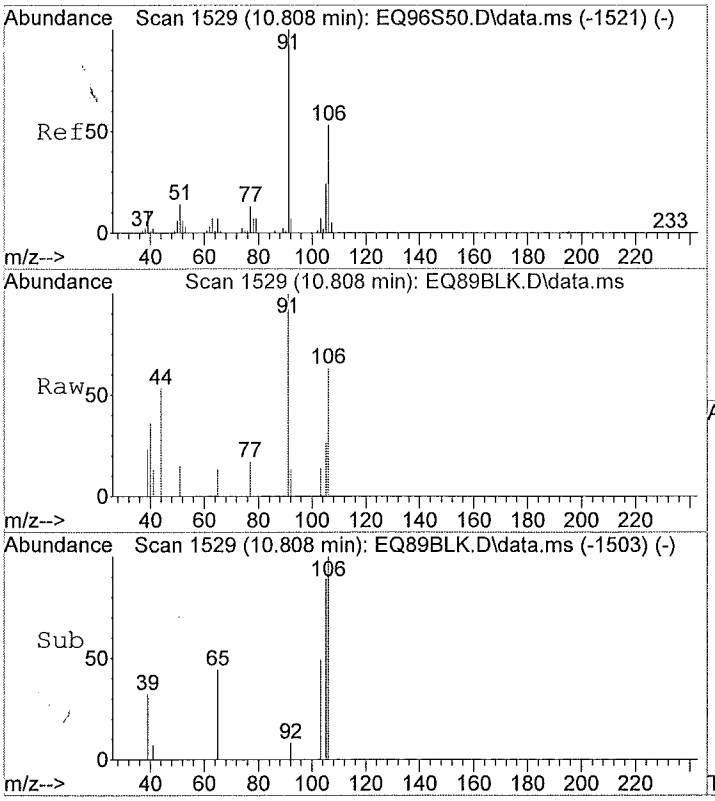


#55
Ethylbenzene
Concen: 0.18 ug/Kg
RT: 10.66 min Scan# 1504
Delta R.T. 0.00 min
Lab File: EQ89BLK.D
Acq: 06/11/2015 09:37

Tgt Ion:91.05 Resp: 8455

Ion	Ratio	Lower	Upper
91	100		
106	30.0	26.0	39.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

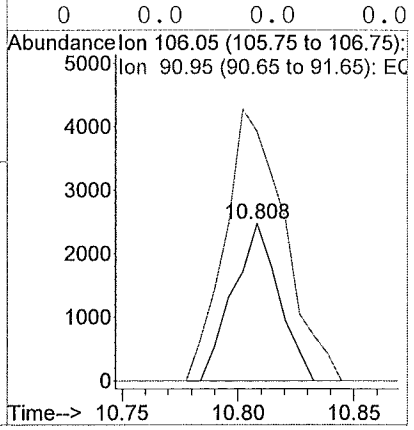


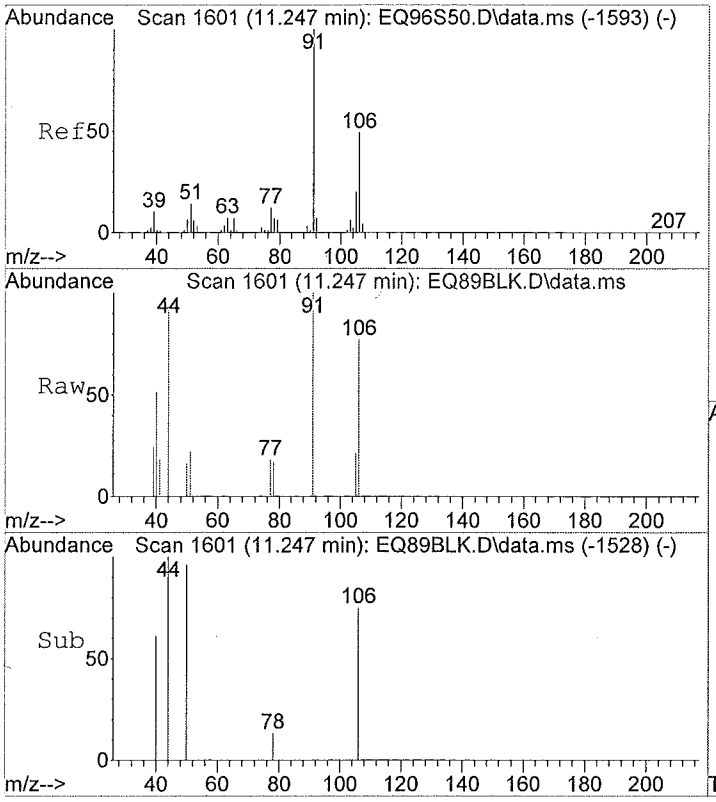


#56
m,p-Xylene
Concen: 0.18 ug/Kg
RT: 10.81 min Scan# 1529
Delta R.T. 0.00 min
Lab File: EQ89BLK.D
Acq: 06/11/2015 09:37

Tgt Ion:106.05 Resp: 3392

Ion	Ratio	Lower	Upper
106	100		
91	223.5	155.5	233.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

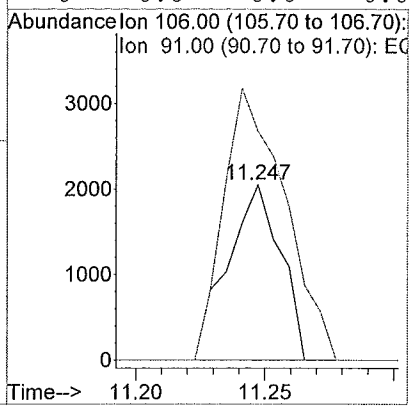


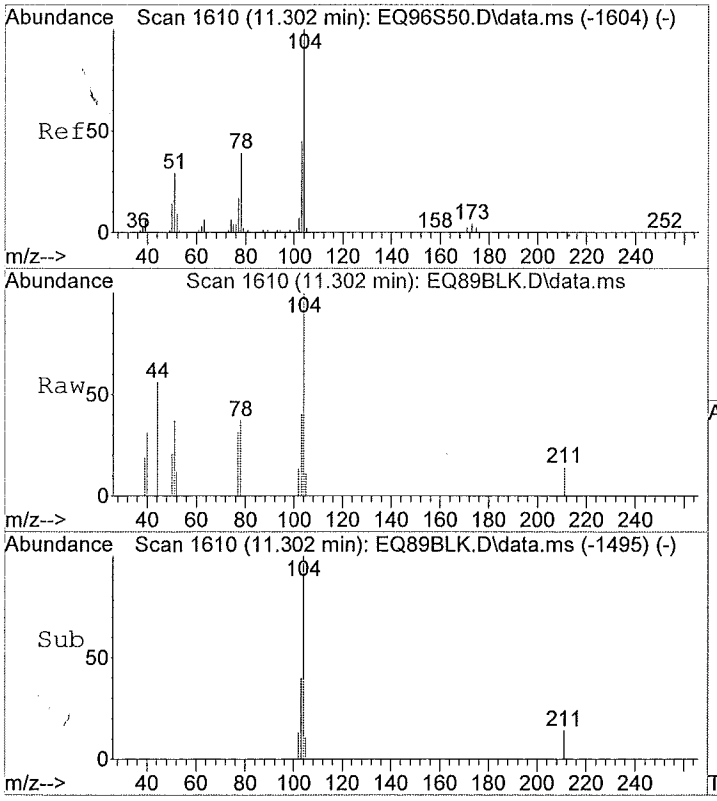


#57
o-Xylene
Concen: 0.16 ug/Kg
RT: 11.25 min Scan# 1601
Delta R.T. 0.00 min
Lab File: EQ89BLK.D
Acq: 06/11/2015 09:37

Tgt Ion:106 Resp: 2928

Ion	Ratio	Lower	Upper
106	100		
91	180.0	102.7	308.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

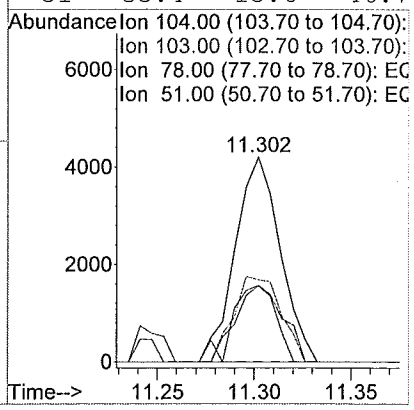


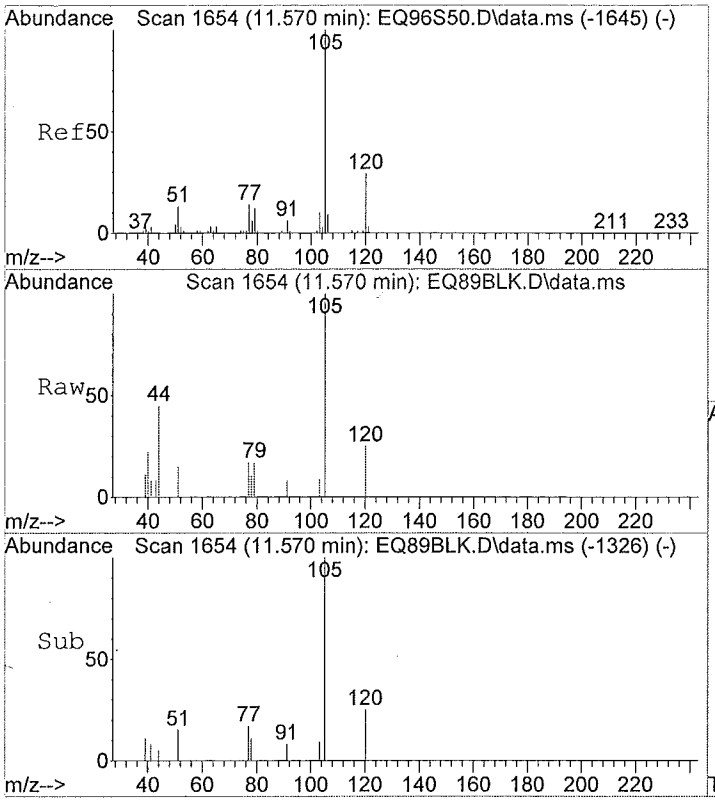


#58
Styrene
Concen: 0.23 ug/Kg
RT: 11.30 min Scan# 1610
Delta R.T. 0.00 min
Lab File: EQ89BLK.D
Acq: 06/11/2015 09:37

Tgt Ion:104 Resp: 6773

Ion	Ratio	Lower	Upper
104	100		
103	43.7	23.5	70.6
78	41.1	20.4	61.3
51	33.4	15.6	46.7

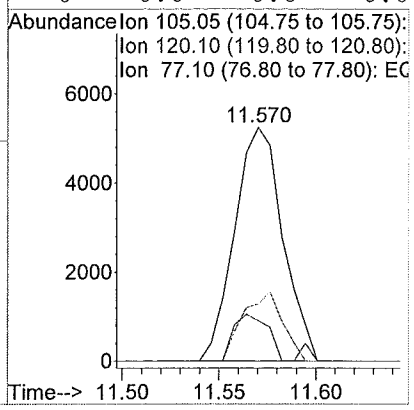


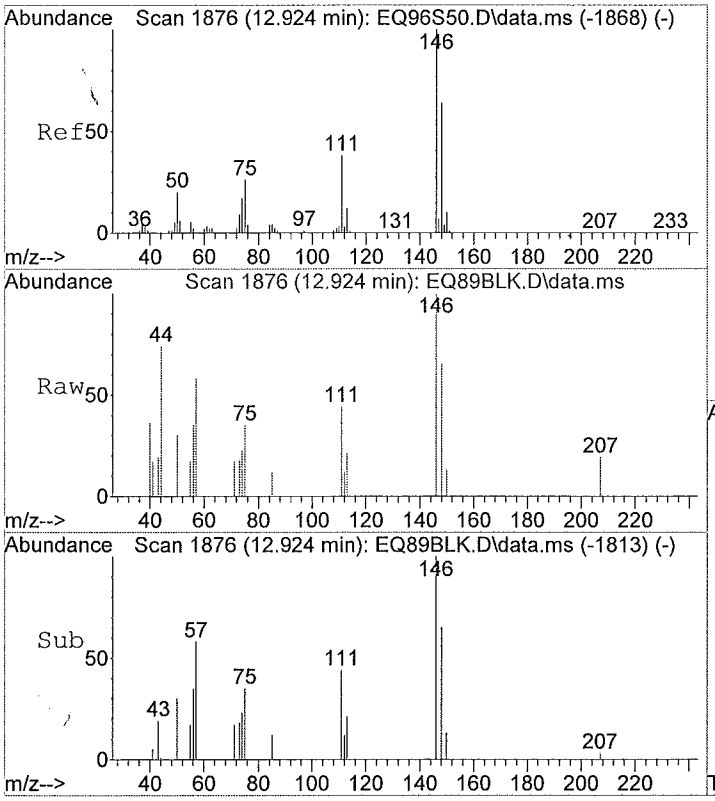


#59
Isopropylbenzene
Concen: 0.18 ug/Kg
RT: 11.57 min Scan# 1654
Delta R.T. 0.00 min
Lab File: EQ89BLK.D
Acq: 06/11/2015 09:37

Tgt Ion:105.05 Resp: 9028

Ion	Ratio	Lower	Upper
105	100		
120	24.4	22.6	34.0
77	14.3	11.6	17.4
0	0.0	0.0	0.0

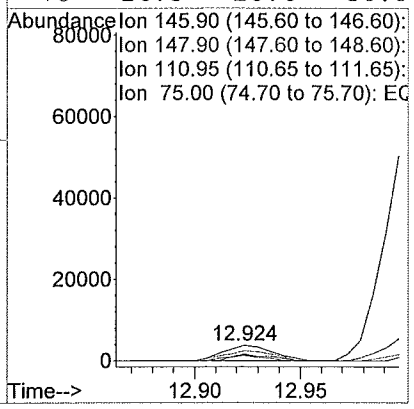


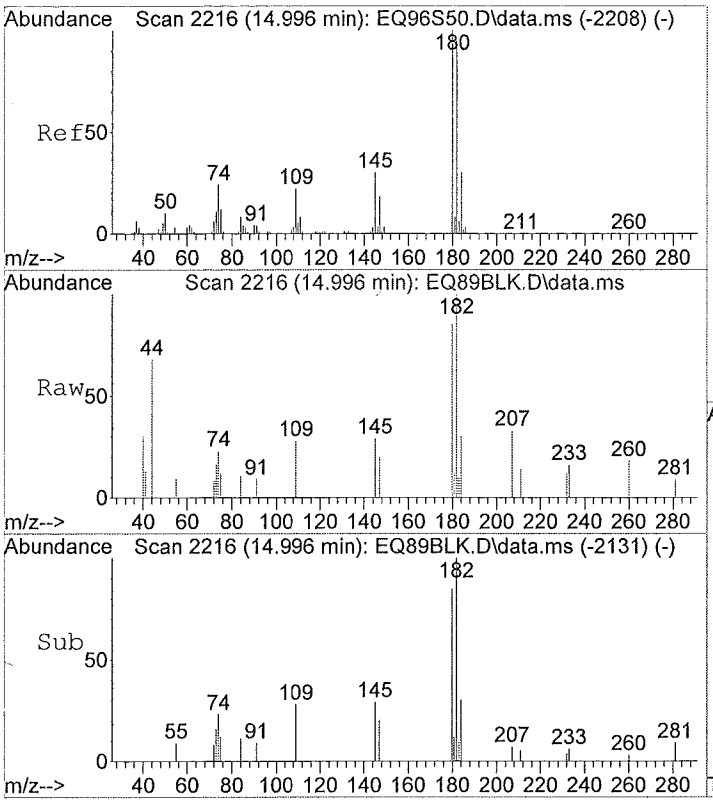


#64
1,3-Dichlorobenzene
Concen: 0.26 ug/Kg
RT: 12.92 min Scan# 1876
Delta R.T. 0.00 min
Lab File: EQ89BLK.D
Acq: 06/11/2015 09:37

Tgt Ion:145.9 Resp: 6011

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.4	77.0
111	32.0	30.7	46.1
75	26.3	20.6	30.8

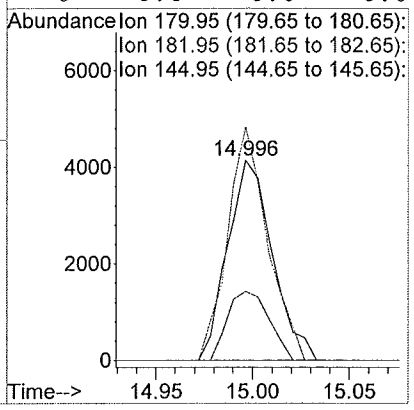


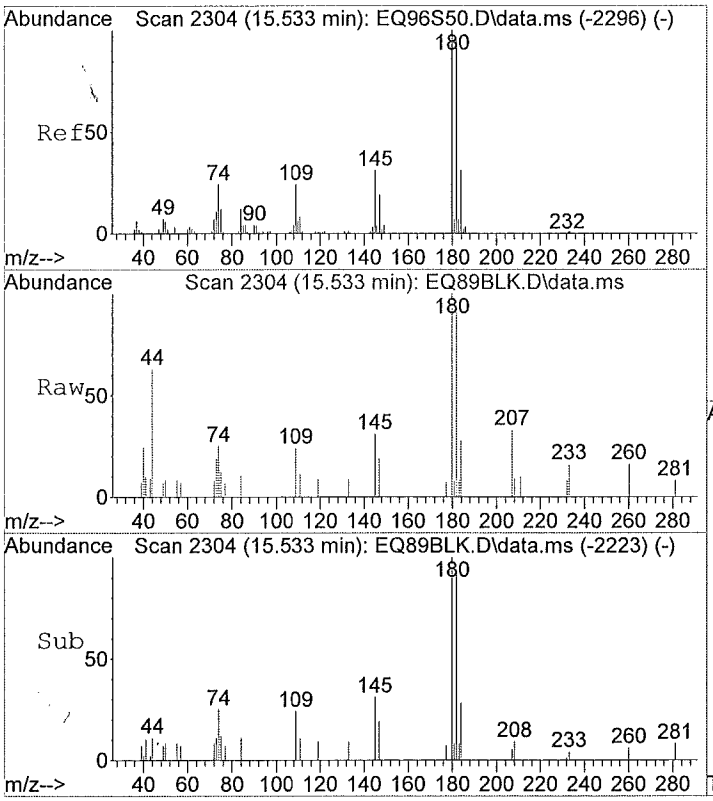


#69
1,2,4-Trichlorobenzene
Concen: 0.44 ug/Kg
RT: 15.00 min Scan# 2216
Delta R.T. 0.00 min
Lab File: EQ89BLK.D
Acq: 06/11/2015 09:37

Tgt Ion:179.95 Resp: 6627

Ion	Ratio	Lower	Upper
180	100		
182	104.2	76.6	114.8
145	32.0	23.6	35.4
0	0.0	0.0	0.0

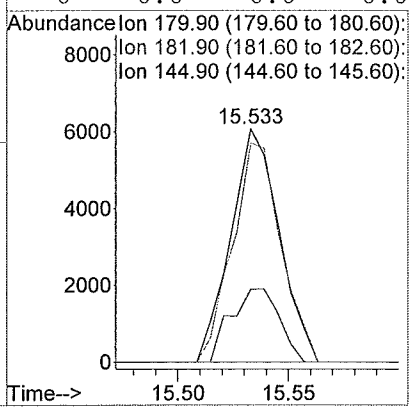




#70
1,2,3-Trichlorobenzene
Concen: 0.71 ug/Kg
RT: 15.53 min Scan# 2304
Delta R.T. 0.00 min
Lab File: EQ89BLK.D
Acq: 06/11/2015 09:37

Tgt Ion:179.9 Resp: 9250

Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.6	115.0
145	31.5	25.3	37.9
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 451199

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ95HBLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 451199

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ95HBLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 451199

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EQ95HBLK

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

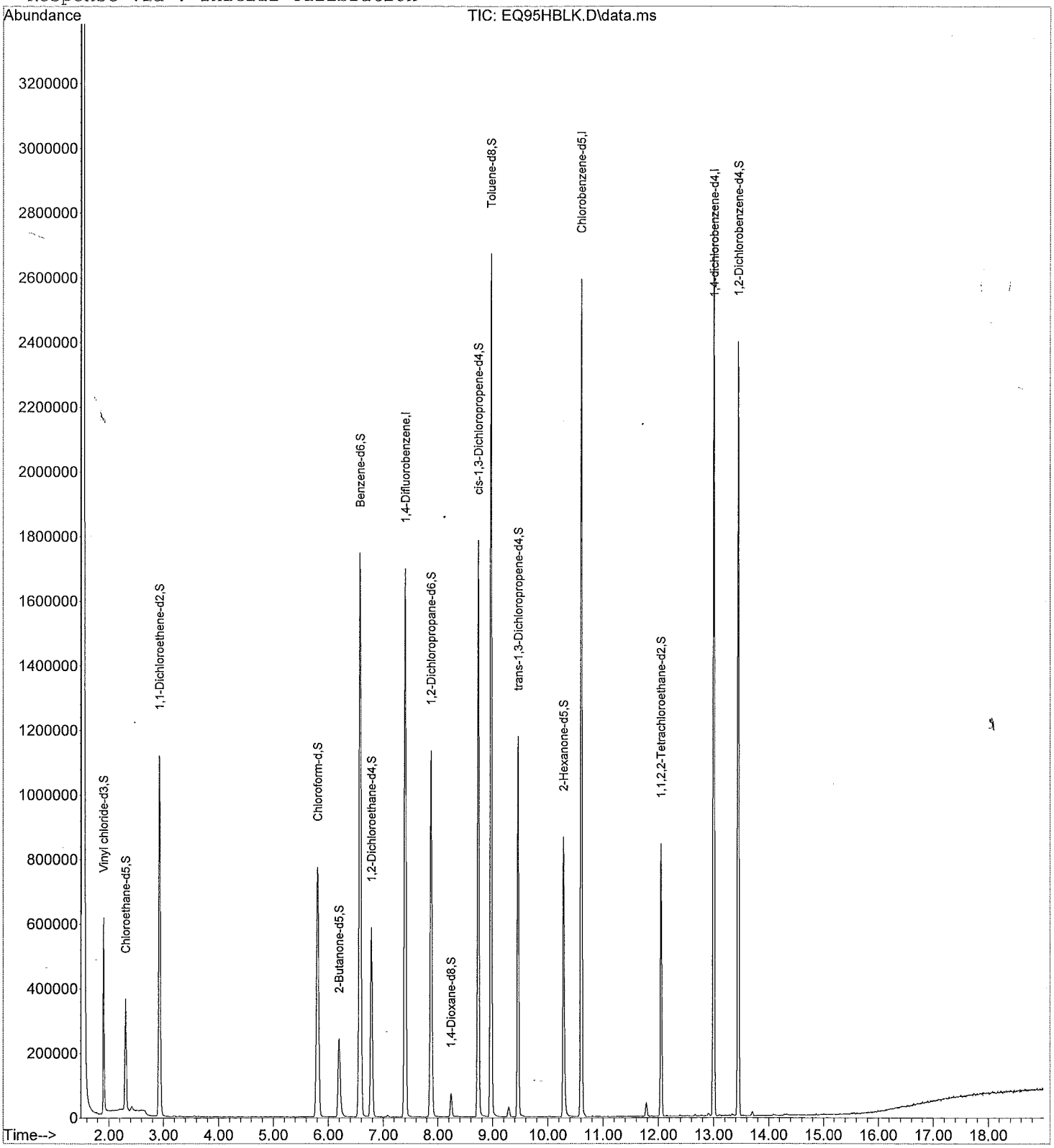
Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ95HBLK.D Vial: 9
Acq Time : 06/11/2015 12:05 Operator: RJH
Sample : 451199 VHBLKW1 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:58:17 2015 Results File: ECLPSB4.RES

10 of 6/19/15

Method : C:\msdchem\1\methods\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri Jun 19 13:58:26 2015
Response via : Initial Calibration



: 00104

Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ95HBLK.D Vial: 9
Acq Time : 06/11/2015 12:05 Operator: RJH
Sample : 451199 VHBLKW1 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:58:17 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1566601	50.0000 ug/Kg	87.62
30) Chlorobenzene-d5	10.60	117	1410554	50.0000 ug/Kg	92.23
62) 1,4-dichlorobenzene-d4	13.00	152	766532	50.0000 ug/Kg	88.21
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	490221	47.0615 ug/Kg	94.12%
8) Chloroethane-d5	2.30	69	315309	48.6600 ug/Kg	97.32%
11) 1,1-Dichloroethene-d2	2.93	63	879053	37.3677 ug/Kg	74.74%
22) 2-Butanone-d5	6.19	46	413600	96.1176 ug/Kg	96.12%
25) Chloroform-d	5.81	84	874026	47.1681 ug/Kg	94.34%
27) 1,2-Dichloroethane-d4	6.78	65	486807	47.7942 ug/Kg	95.59%
29) 1,4-Dioxane-d8	8.24	96	53999	933.4108 ug/Kg	93.34%
35) Benzene-d6	6.58	84	1897906	46.1623 ug/Kg	92.32%
39) 1,2-Dichloropropane-d6	7.88	67	553984	45.9526 ug/Kg	91.91%
42) cis-1,3-Dichloropropene-d4	8.74	79	1015180	45.8036 ug/Kg	91.61%
44) trans-1,3-Dichloropropene-	9.46	79	609073	45.7162 ug/Kg	91.43%
49) Toluene-d8	8.97	98	1812253	47.6986 ug/Kg	95.40%
52) 2-Hexanone-d5	10.28	63	281774	89.9390 ug/Kg	89.94%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	428994	44.8540 ug/Kg	89.71%
67) 1,2-Dichlorobenzene-d4	13.44	152	661196	48.2493 ug/Kg	96.50%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\11JUN15E\EQ95HBLK.D Vial: 9
Acq Time : 06/11/2015 12:05 Operator: RJH
Sample : 451199 VHBLKW1 Inst : 5975-E
Misc : 2.5 uL of 28198 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 19 13:58:17 2015 Results File: ECLPSB4.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB4.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Mon Jun 08 18:48:03 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB4.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

2G - FORM II SV-1
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	F9M47	81	74	78	81	80	83	79	84
02	F9M53	74	69	73	74	73	75	72	71
03	SBLK34	81	76	79	79	86	87	84	102
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
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15									
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29									
30									

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(39-106)
SDMC2 (BCE) = Bis(2-chloroethyl)ether-d8	(40-105)
SDMC3 (2CP) = 2-Chlorophenol-d4	(41-106)
SDMC4 (4MP) = 4-Methylphenol-d8	(25-111)
SDMC5 (NBZ) = Nitrobenzene-d5	(43-108)
SDMC6 (2NP) = 2-Nitrophenol-d4	(40-108)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(37-105)
SDMC8 (4CA) = 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

2H - FORM II SV-2
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	F9M47	90	85	93	86	81	91	91	93	0
02	F9M53	78	76	78	76	69	79	79	82	0
03	SBLK34	97	93	97	95	84	96	96	98	0
04										
05										
06										
07										
08										
09										
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29										
30										

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(47-114)
SDMC10 (ACY) = Acenaphthylene-d8	(41-107)
SDMC11 (4NP) = 4-Nitrophenol-d4	(33-116)
SDMC12 (FLR) = Fluorene-d10	(42-111)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(22-104)
SDMC14 (ANC) = Anthracene-d10	(44-110)
SDMC15 (PYR) = Pyrene-d10	(52-119)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(32-121)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Lab File ID: GBU02BLK Lab Sample ID: 450834

Instrument ID: 5975-G Date Extracted: 06/09/2015

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 06/18/2015

Level: (LOW/MED) LOW Time Analyzed: 17:26

Extraction: (Type) CONT GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9M47	1515629002	GBU03F02	06/18/2015
02	F9M53	1515629003	GBU04F03	06/18/2015
03				
04				
05				
06				
07				
08				
09				
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COMMENTS:

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPPGT

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Lab File ID: GBT01S20 DFTPP Injection Date: 06/18/2015

Instrument ID: 5975-G DFTPP Injection Time: 08:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.1
68	Less than 2.0% of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	44.8
70	Less than 2.0% of mass 69	0.0 (0.1) 1
127	10.0 - 80.0% of mass 198	45.6
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	18.3
365	Greater than 1.0% of mass 198	2.0
441	Present, but less than mass 443	9.0
442	50.0 - 100% of mass 198	59.0
443	15.0 - 24.0% of mass 442	11.3 (19.1) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020GT	SSTD020GT	GBT01S20	06/18/2015	08:29
02	SSTD005GT	SSTD005GT	GBT02S05	06/18/2015	09:03
03	SSTD010GT	SSTD010GT	GBT03S10	06/18/2015	09:36
04	SSTD040GT	SSTD040GT	GBT04S40	06/18/2015	10:09
05	SSTD080GT	SSTD080GT	GBT05S80	06/18/2015	10:43
06					
07					
08					
09					
10					
11					
12					
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14					
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17					
18					
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPPGU

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Lab File ID: GBU01S20 DFTPP Injection Date: 06/18/2015

Instrument ID: 5975-G DFTPP Injection Time: 16:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	60.3
68	Less than 2.0% of mass 69	0.7 (1.5) 1
69	Mass 69 relative abundance	46.3
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	45.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	18.6
365	Greater than 1.0% of mass 198	2.0
441	Present, but less than mass 443	8.8
442	50.0 - 100% of mass 198	59.6
443	15.0 - 24.0% of mass 442	11.3 (18.9) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020GU	SSTD020GU	GBU01S20	06/18/2015	16:50
02	SBLK34	450834	GBU02BLK	06/18/2015	17:26
03	F9M47	1515629002	GBU03F02	06/18/2015	18:00
04	F9M53	1515629003	GBU04F03	06/18/2015	18:34
05	SSTD020U1	SSTD020U1	GBU06S20	06/18/2015	19:42
06					
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8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 06/18/2015 06/18/2015

EPA Sample No.(SSTD020##): SSTD020GU Date Analyzed: 06/18/2015

Lab File ID (Standard): GBU01S20 Time Analyzed: 16:50

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	479673	4.96	1863350	6.37	1082706	9.03
	UPPER LIMIT	959346	5.46	3726700	6.87	2165412	9.53
	LOWER LIMIT	239837	4.46	931675	5.87	541353	8.53
	EPA SAMPLE NO.						
01	SBLK34	488209	4.96	1808926	6.37	1049807	9.02
02	F9M47	511945	4.96	1973427	6.37	1147813	9.02
03	F9M53	561757	4.96	2165762	6.37	1227954	9.02
04							
05							
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22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

EPA Sample No.(SSTD020##): SSTD020GU Date Analyzed: 06/18/2015

Lab File ID (Standard): GBU01S20 Time Analyzed: 16:50

Instrument ID: 5975-G GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1806425	11.66	1746099	15.84	1543890	18.27
	UPPER LIMIT	3612850	12.16	3492198	16.34	3087780	18.77
	LOWER LIMIT	903213	11.16	873050	15.34	771945	17.77
	EPA SAMPLE NO.						
01	SBLK34	1753830	11.66	1769546	15.83	1586159	18.27
02	F9M47	1874293	11.66	1905273	15.83	1711867	18.26
03	F9M53	1985165	11.65	1993051	15.83	1779240	18.26
04							
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21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M47

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515629002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GBU03F02

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/04/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	0.55	J
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M47

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515629002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GBU03F02

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/04/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.44	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M47

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515629002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GBU03F02

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/04/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	90-05-1	Phenol, 2-methoxy-	5.47	3.9	JN
02	134-62-3	Diethyltoluamide	9.73	43.	JN
03	77-93-0	Triethyl citrate	10.29	5.8	JN
04	82304-66-3	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-	12.46	2.1	JN
05					
06					
07					
08					
09					
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	E966796[2]	Total Alkanes	N/A	75.	J

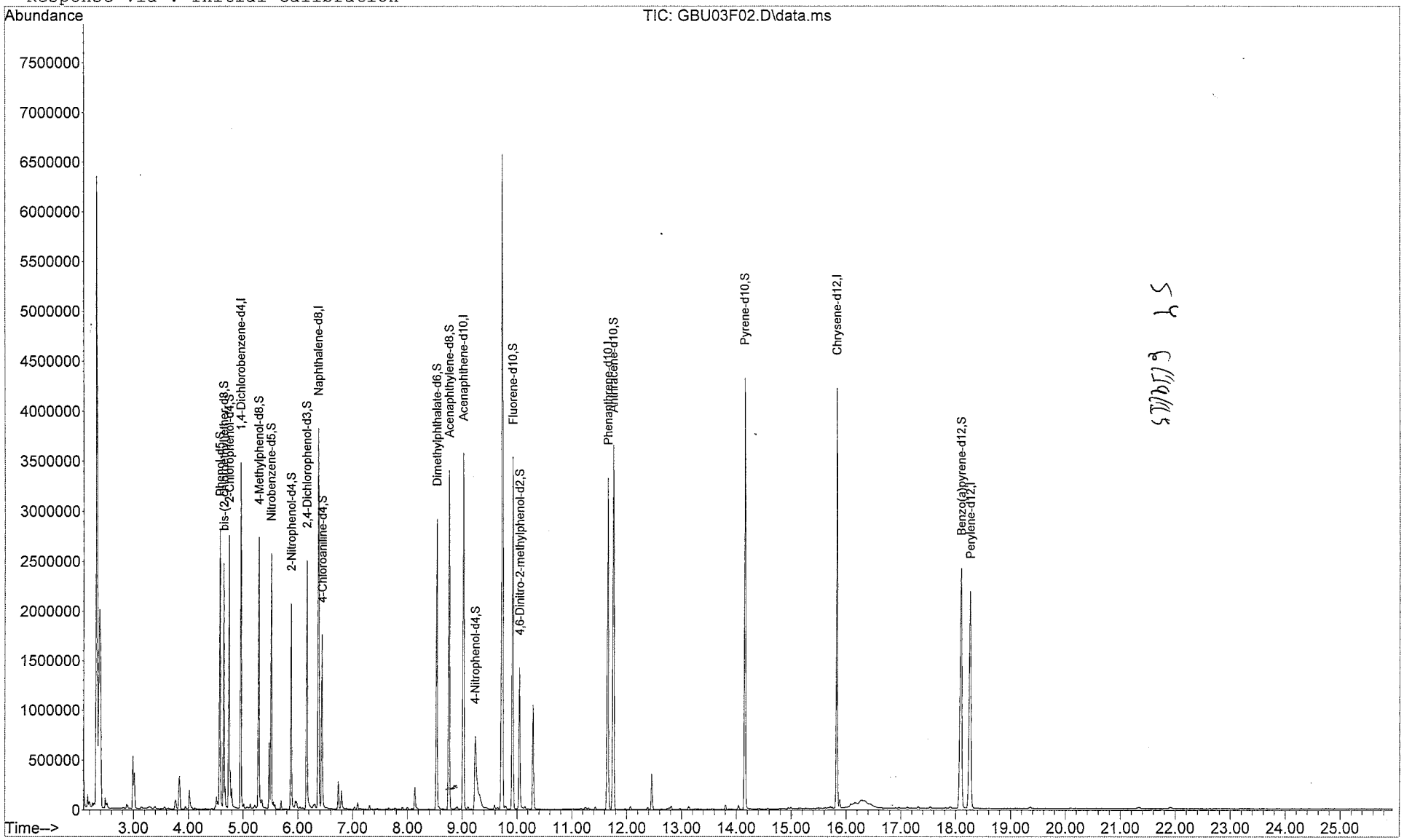
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 19 09:26:19 2015 Results File: GSOM01D5.RES

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 09:26:19 2015 Results File: GSOM01D5.RES

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	511945	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1973427	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	1147813	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1874293	20.00 ug/ml
73) Chrysene-d12	15.83	240	1905273	20.00 ug/ml
81) Perylene-d12	18.26	264	1711867	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	954705	32.339ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	674469	29.518ug/mL
7) 2-Chlorophenol-d4	4.75	132	781407	31.333ug/ml
13) 4-Methylphenol-d8	5.29	113	645891	32.405ug/mL
17) Nitrobenzene-d5	5.52	128	359886	32.119ug/ml
21) 2-Nitrophenol-d4	5.87	143	400153	33.038ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	588140	31.487ug/mL
28) 4-Chloroaniline-d4	6.44	131	630742	33.590ug/mL
42) Dimethylphthalate-d6	8.54	166	1629888	35.826ug/mL
45) Acenaphthylene-d8	8.76	160	2110606	33.949ug/mL
50) 4-Nitrophenol-d4	9.25	143	328133	37.005ug/mL
57) Fluorene-d10	9.92	176	1345915	34.341ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	253291	32.318ug/mL
69) Anthracene-d10	11.76	188	2260979	36.259ug/mL
75) Pyrene-d10	14.16	212	2175065	36.529ug/mL
86) Benzo(a)pyrene-d12	18.10	264	1891637	37.200ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	0.00	77		Not Detected	
4) Phenol	0.00	94		Not Detected	
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected	
8) 2-Chlorophenol	0.00	128		Not Detected	
9) 2-Methylphenol	0.00	108		Not Detected	
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected	
11) Acetophenone	5.35	105	18687	0.552ug/ml	82
12) 4-methylphenol	0.00	108		Not Detected	
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected	
15) Hexachloroethane	0.00	117		Not Detected	
18) Nitrobenzene	0.00	77		Not Detected	
19) Isophorone	0.00	82		Not Detected	
20) 2-Nitrophenol	0.00	139		Not Detected	
22) 2,4-Dimethylphenol	0.00	107		Not Detected	
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected	
24) 2,4-Dichlorophenol	0.00	162		Not Detected	
26) Naphthalene	0.00	128		Not Detected	
27) 4-Chloroaniline	0.00	127		Not Detected	
29) Hexachlorobutadiene	0.00	225		Not Detected	
30) Caprolactam	0.00	113		Not Detected	
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected	
32) 2-Methylnaphthalene	0.00	142		Not Detected	
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected	
35) Hexachlorocyclopentadiene	0.00	237		Not Detected	
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected	
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected	
38) 1,1'-Biphenyl	0.00	154		Not Detected	
39) 2-Chloronaphthalene	0.00	162		Not Detected	
40) 2-Nitroaniline	0.00	65		Not Detected	
41) Dimethylphthalate	0.00	163		Not Detected	
43) 2,6-Dinitrotoluene	0.00	165		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00118

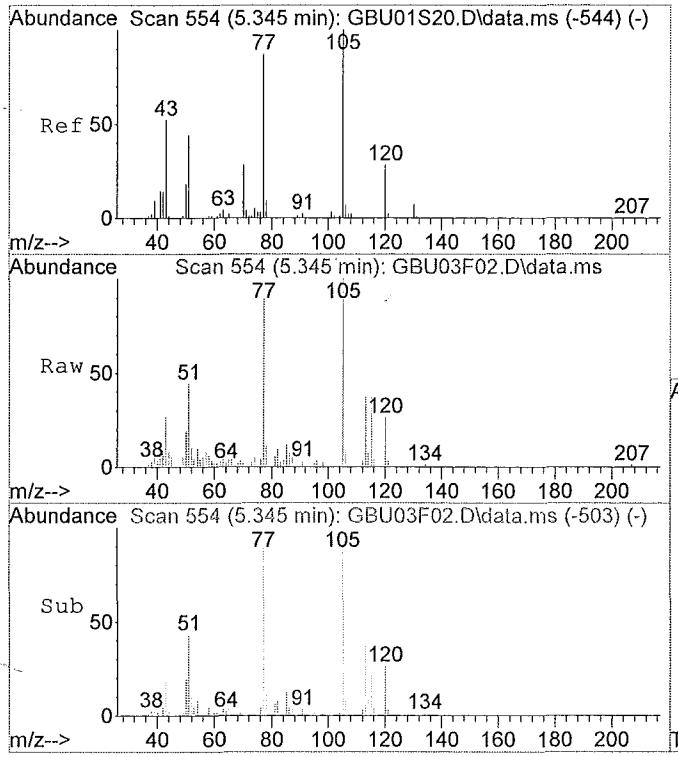
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 09:26:19 2015 Results File: GSOM01D5.RES

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	24993	0.435ug/ml	97
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

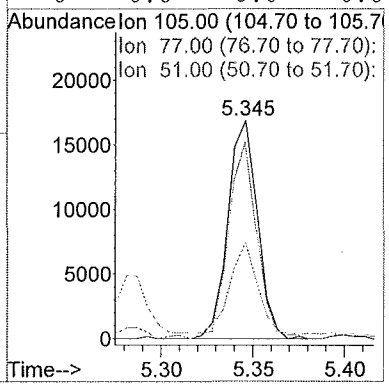
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

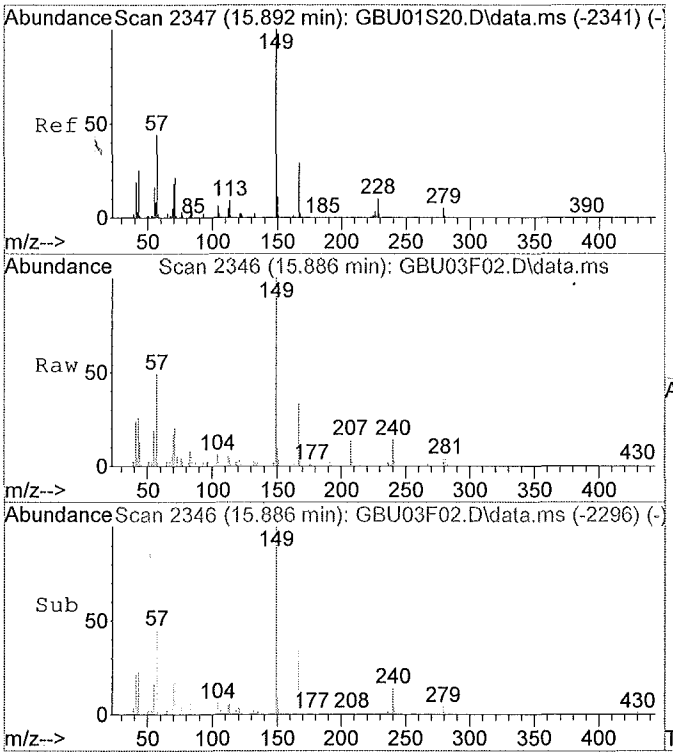


#11
Acetophenone
Concen: 0.55 ug/ml
RT: 5.35 min Scan# 554
Delta R.T. -0.00 min
Lab File: GBU03F02.D
Acq: 06/18/2015 18:00

Tgt Ion:105 Resp: 18687

Ion	Ratio	Lower	Upper
105	100		
77	86.8	51.1	94.9
51	40.2	19.7	36.7#
0	0.0	0.0	0.0

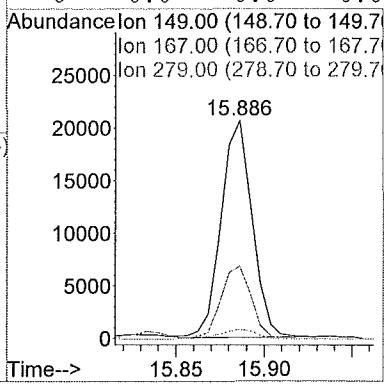




#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.44 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBU03F02.D
Acq: 06/18/2015 18:00

Tgt Ion:149 Resp: 24993

Ion	Ratio	Lower	Upper
149	100		
167	32.4	22.0	40.8
279	4.5	5.0	9.2#
0	0.0	0.0	0.0



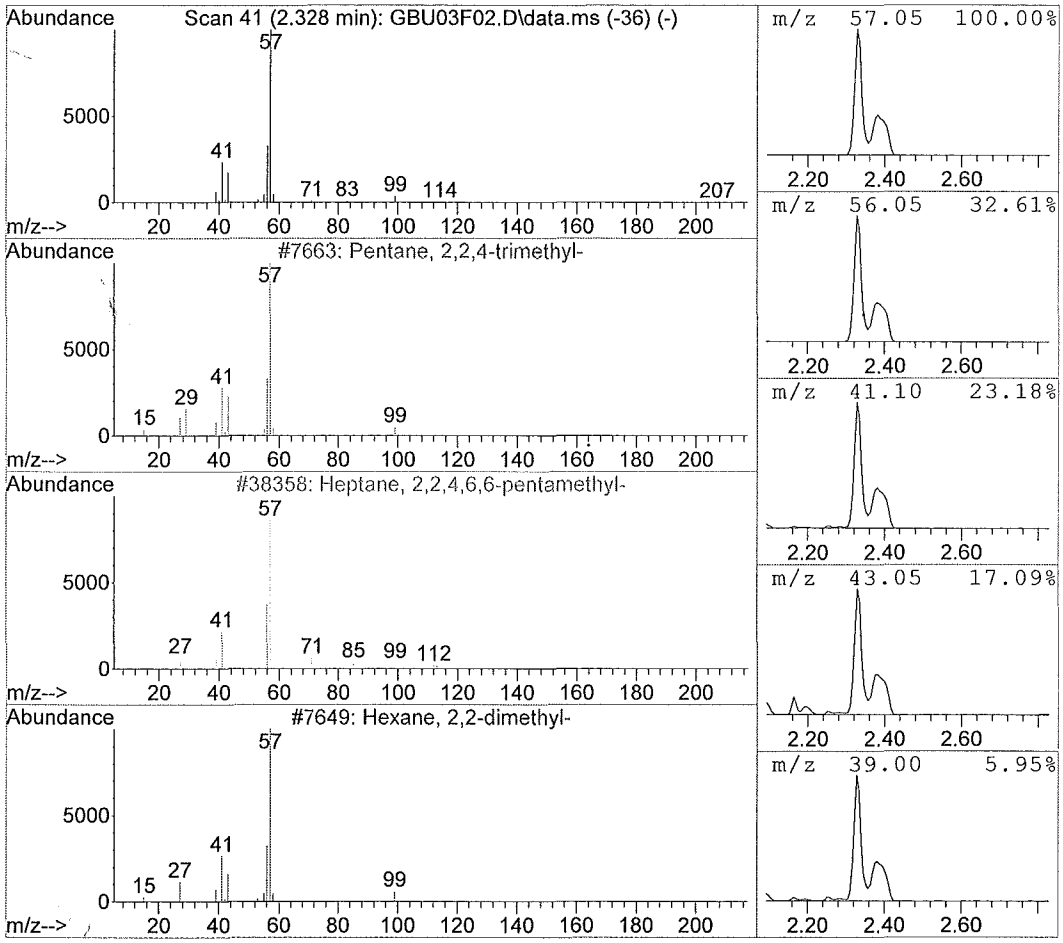
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.33	47.55 ug/ml	8432182	1,4-Dichlorobenzene-d4	3546372

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	7663	000540-84-1	83.00
2	Heptane, 2,2,4,6,6-pentamethyl- BA	38358	013475-82-6	83.00
3	Hexane, 2,2-dimethyl-	7649	000590-73-8	83.00
4	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	78.00
5	Hexane, 2,2,5-trimethyl-	12724	003522-94-9	64.00



00121

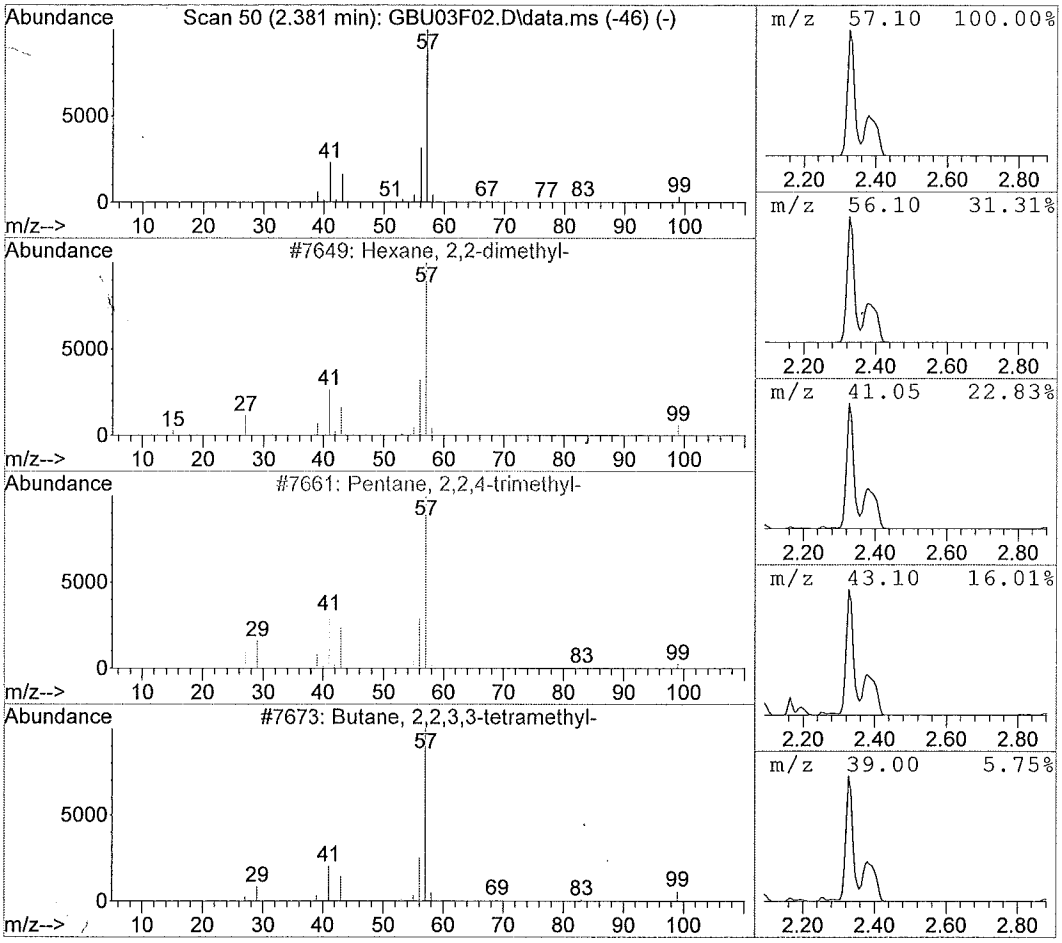
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.38	27.88 ug/ml	4943482	1,4-Dichlorobenzene-d4	3546372

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,2-dimethyl-	7649	000590-73-8	83.00
2	Pentane, 2,2,4-trimethyl- BA	7661	000540-84-1	78.00
3	Butane, 2,2,3,3-tetramethyl-	7673	000594-82-1	78.00
4	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	64.00
5	Pentane, 2,2,3-trimethyl-	7662	000564-02-3	64.00



: 00122

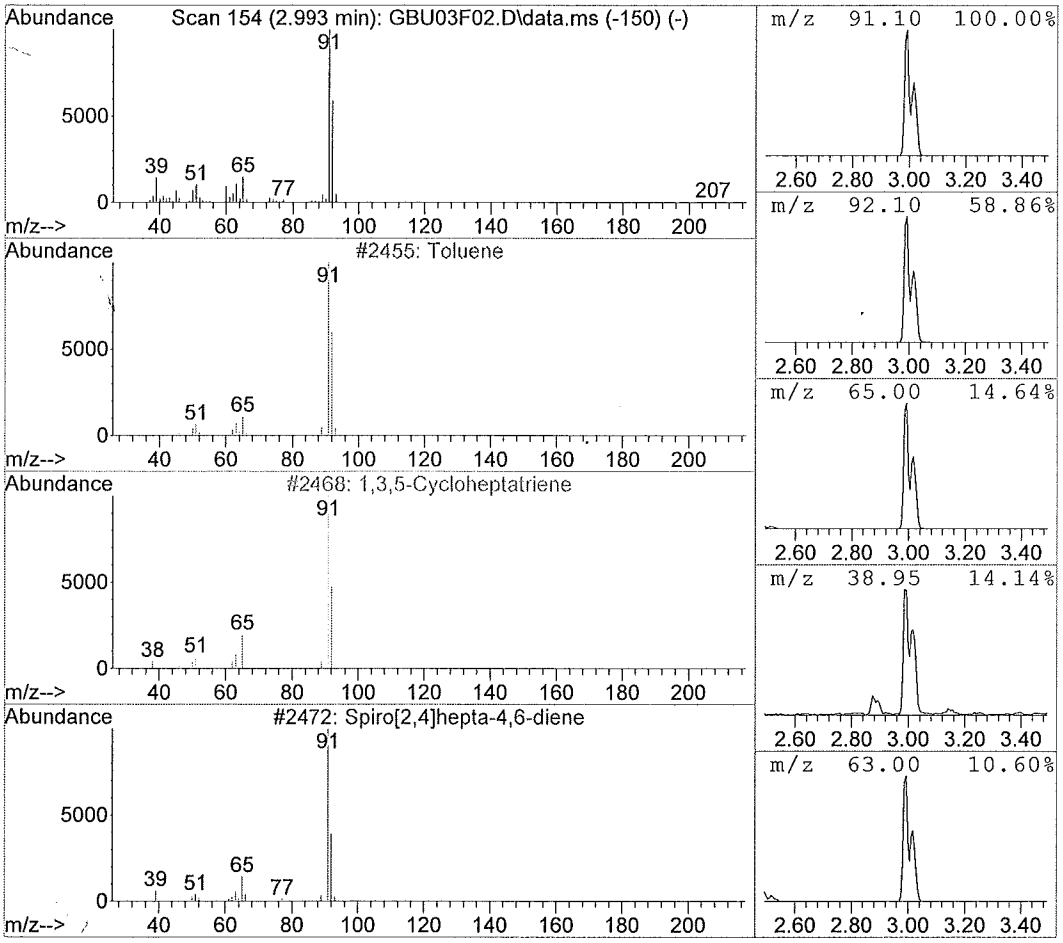
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.99	3.38 ug/ml	599320	1,4-Dichlorobenzene-d4	3546372

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Toluene	2455	000108-88-3	94.00
2	1,3,5-Cycloheptatriene VdA	2468	000544-25-2	87.00
3	Spiro[2,4]hepta-4,6-diene	2472	000765-46-8	86.00
4	2,5-Norbornadiene	2463	000121-46-0	74.00
5	Tetracyclo[3.2.0.0(2,7).0(4,6)]hept	2478	000278-06-8	47.00



Library Search Compound Report

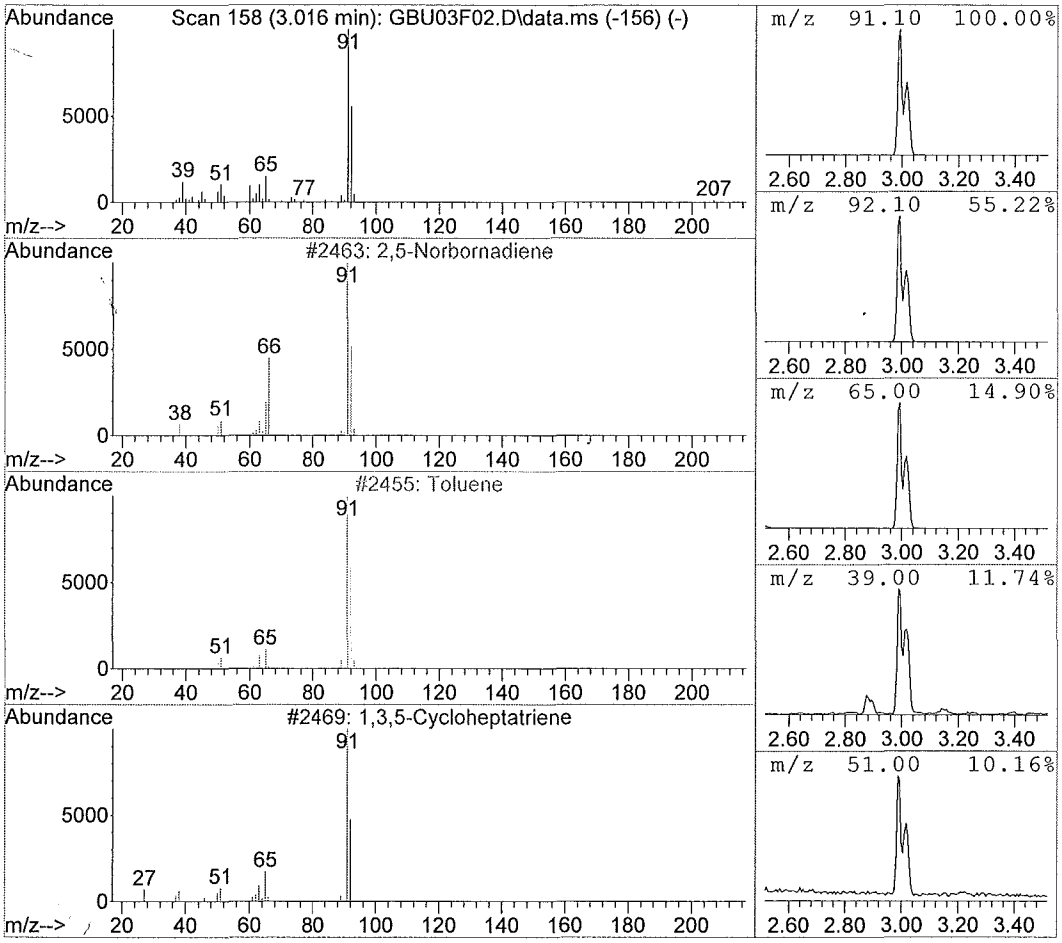
Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.02	2.47 ug/ml	438031	1,4-Dichlorobenzene-d4	3546372

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5-Norbornadiene	2463	000121-46-0	90.00
2	Toluene	2455	000108-88-3	90.00
3	1,3,5-Cycloheptatriene	2469	000544-25-2	87.00
4	Spiro[2,4]hepta-4,6-diene	2472	000765-46-8	83.00
5	Cyclobutene, 2-propenylidene-	2475	052097-85-5	64.00

VOA



Library Search Compound Report

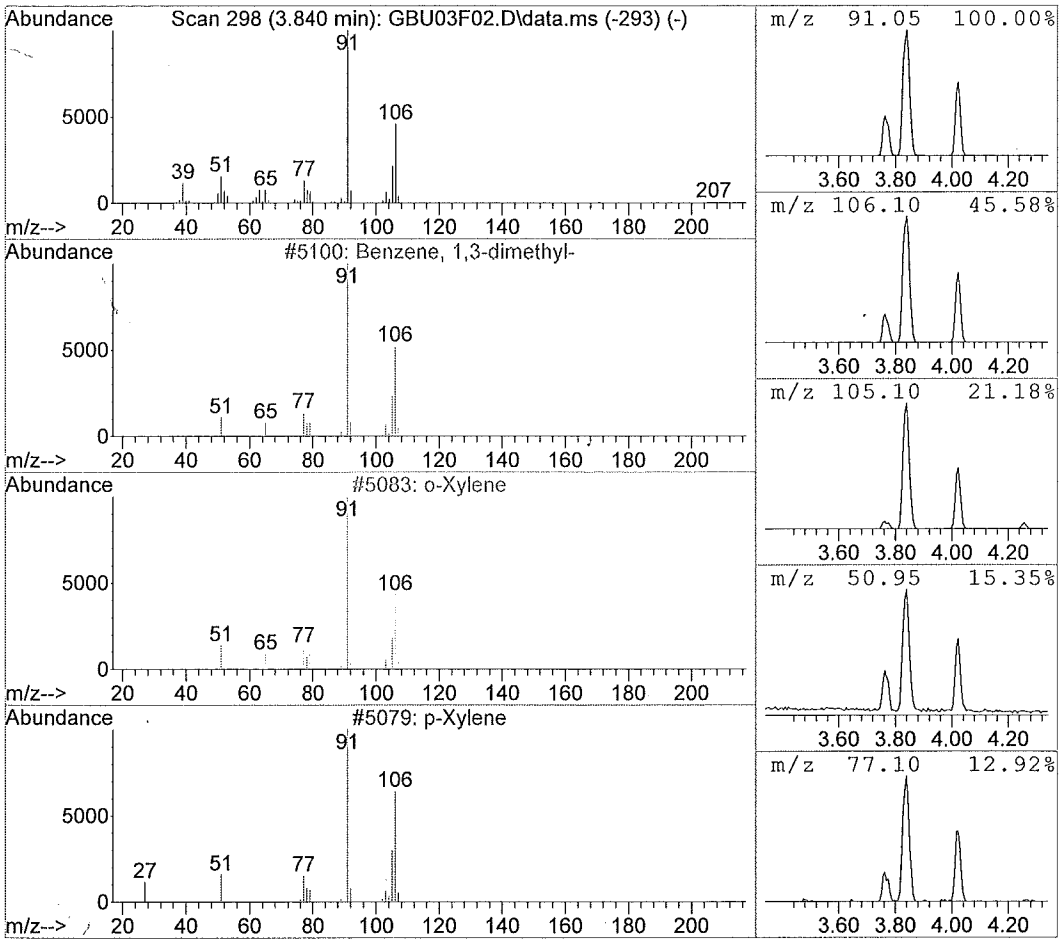
Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.84	3.08 ug/ml	545724	1,4-Dichlorobenzene-d4	3546372

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1,3-dimethyl-	5100	000108-38-3	97.00
2	o-Xylene	5083	000095-47-6	97.00
3	p-Xylene	5079	000106-42-3	95.00
4	1,3-Cyclopentadiene, 5-(1-methyleth	5117	002175-91-9	90.00
5	Cyclopentene, 1-ethenyl-3-methylene	5110	061142-07-2	86.00

VOA



00125

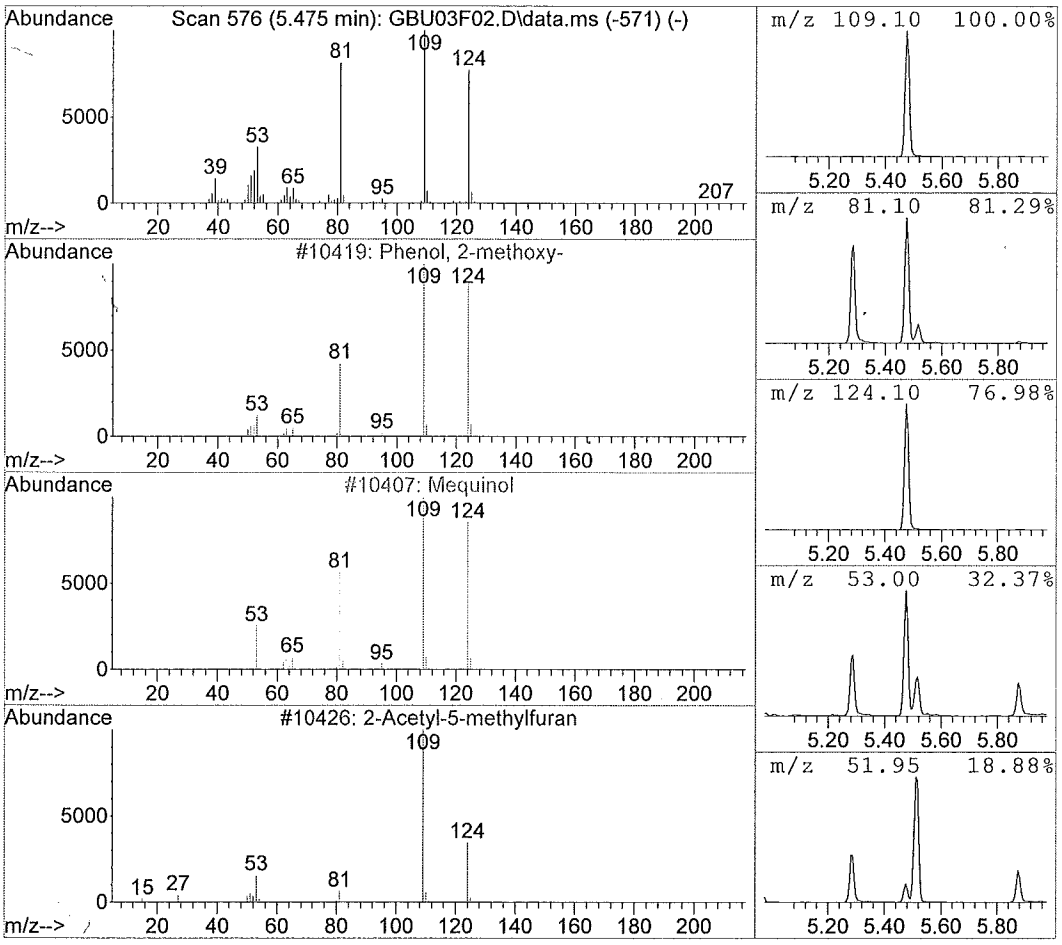
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.47	3.89 ug/ml	688951	1,4-Dichlorobenzene-d4	3546372

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenol, 2-methoxy-	10419	000090-05-1	97.00
2	Mequinol	10407	000150-76-5	91.00
3	2-Acetyl-5-methylfuran	10426	001193-79-9	52.00
4	Ethanone, 1-(2-methyl-1-cyclopenten	10586	003168-90-9	50.00
5	2-Oxo-2,3-dihydro-1H-imidazole-4-ca	5521	1000294-08-6	43.00



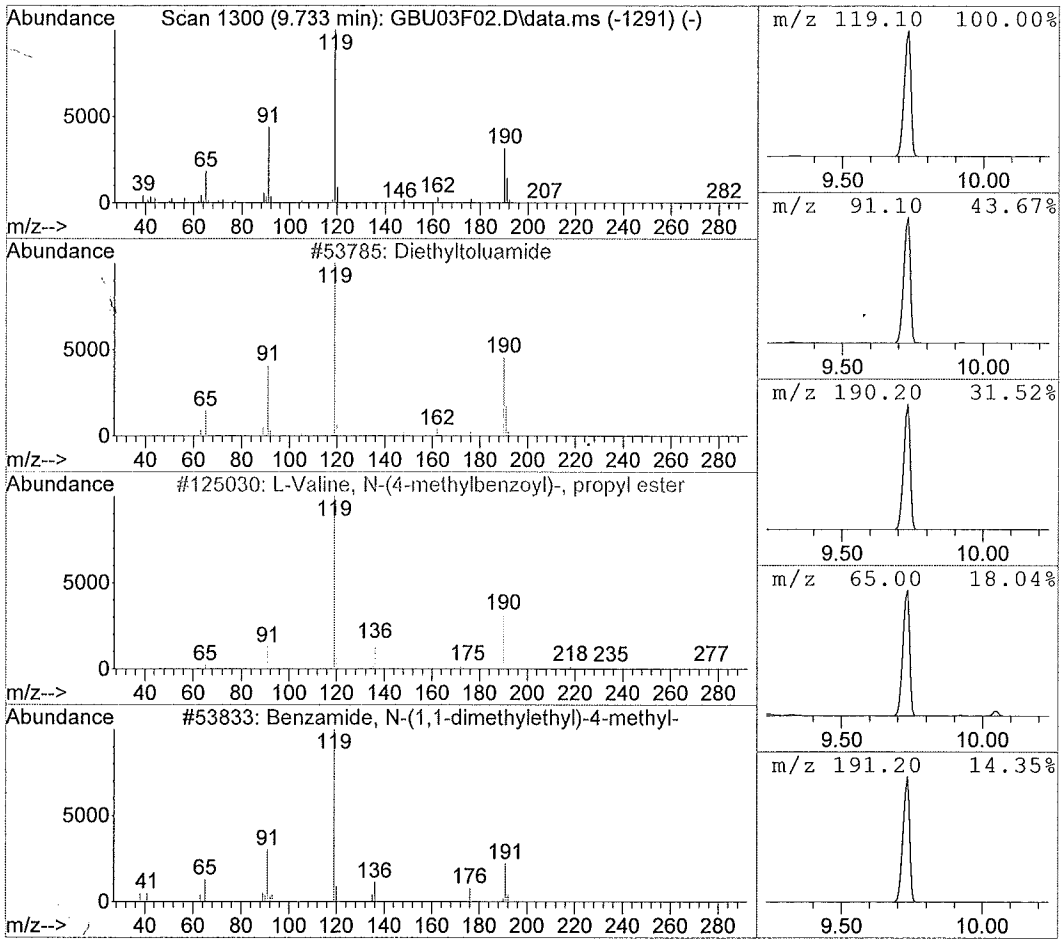
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.73	42.78 ug/ml	10518039	Acenaphthene-d10	4917178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Diethyltoluamide	53785	000134-62-3	97.00
2	L-Valine, N-(4-methylbenzoyl)-, pro	125030	1000346-63-8	72.00
3	Benzamide, N-(1,1-dimethylethyl)-4-	53833	042498-32-8	72.00
4	4-Methylbenzoic acid, pentafluoroph	145999	1000354-15-1	64.00
5	l-Alanine, N-(m-toluoyl)-, methyl e	78106	1000299-63-7	64.00



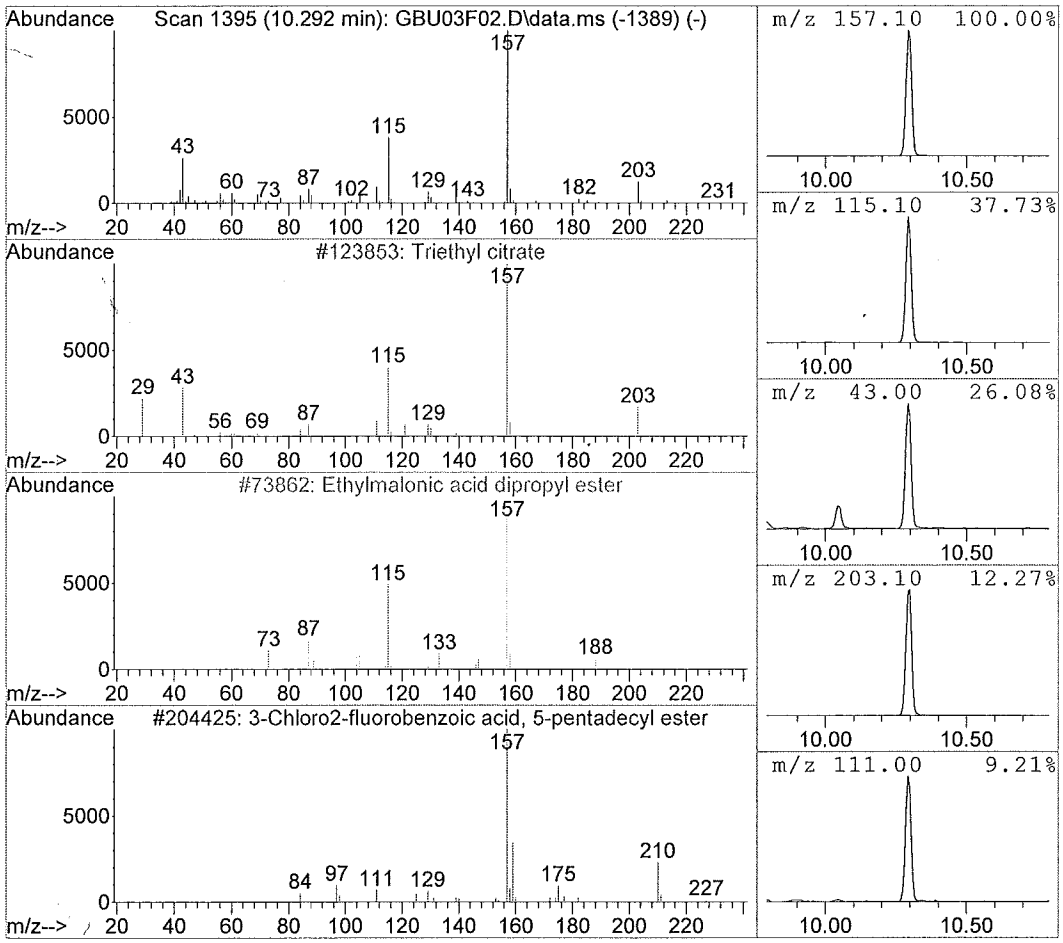
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.29	5.80 ug/ml	1425428	Acenaphthene-d10	4917178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Triethyl citrate	123853	000077-93-0	90.00
2	Ethylmalonic acid dipropyl ester	73862	001113-91-3	45.00
3	3-Chloro2-fluorobenzoic acid, 5-pen	204425	1000338-65-2	42.00
4	4-Fluoro-2-nitrophenol	29309	000394-33-2	40.00
5	3-Chloro2-fluorobenzoic acid, 4-tri	187867	1000338-64-4	36.00



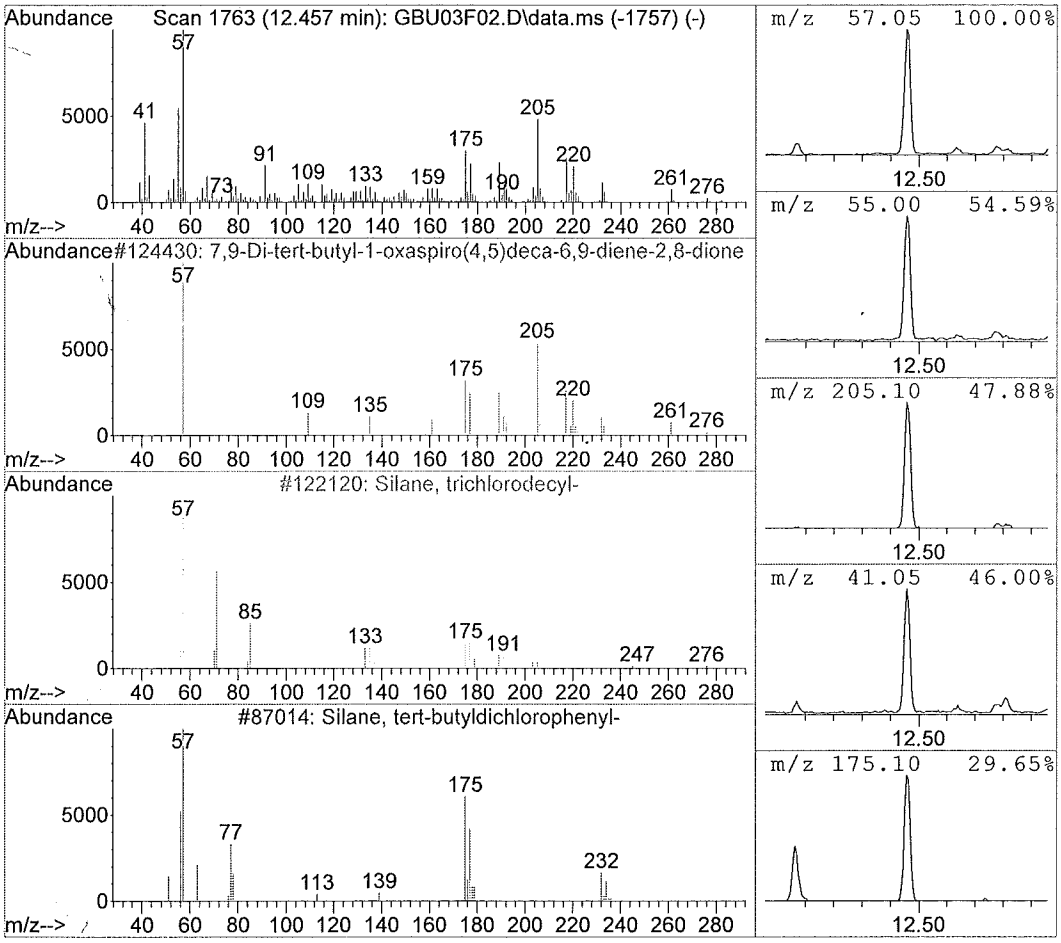
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU03F02.D Vial: 3
Acq On : 06/18/2015 18:00 Operator: TM
Sample : 1515629002 F9M47 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.46	2.08 ug/ml	522123	Phenanthrene-d10	5020683

Hit# of 14	Tentative ID	Ref#	CAS#	Qual
1	7,9-Di-tert-butyl-1-oxaspiro(4,5)de	124430	082304-66-3	99.00
2	Silane, trichlorodecyl-	122120	013829-21-5	25.00
3	Silane, tert-butyldichlorophenyl-	87014	017887-41-1	18.00
4	1,3,5-Cycloheptatriene, 2,4-di-t-bu	87793	1000160-92-5	15.00
5	Acetamide, N-(5-phenylpentyl)-	65220	053429-16-6	11.00



: 00129

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M53

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515629003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GBU04F03

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 06/04/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	0.52	J
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M53

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515629003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GBU04F03

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/04/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M53

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515629003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GBU04F03

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 06/04/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Propanone, 1-(acetyloxy)-	4.67	3.2	J
02	90-05-1	Phenol, 2-methoxy-	5.47	3.7	JN
03	77-93-0	Triethyl citrate	10.29	5.1	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	99.	J

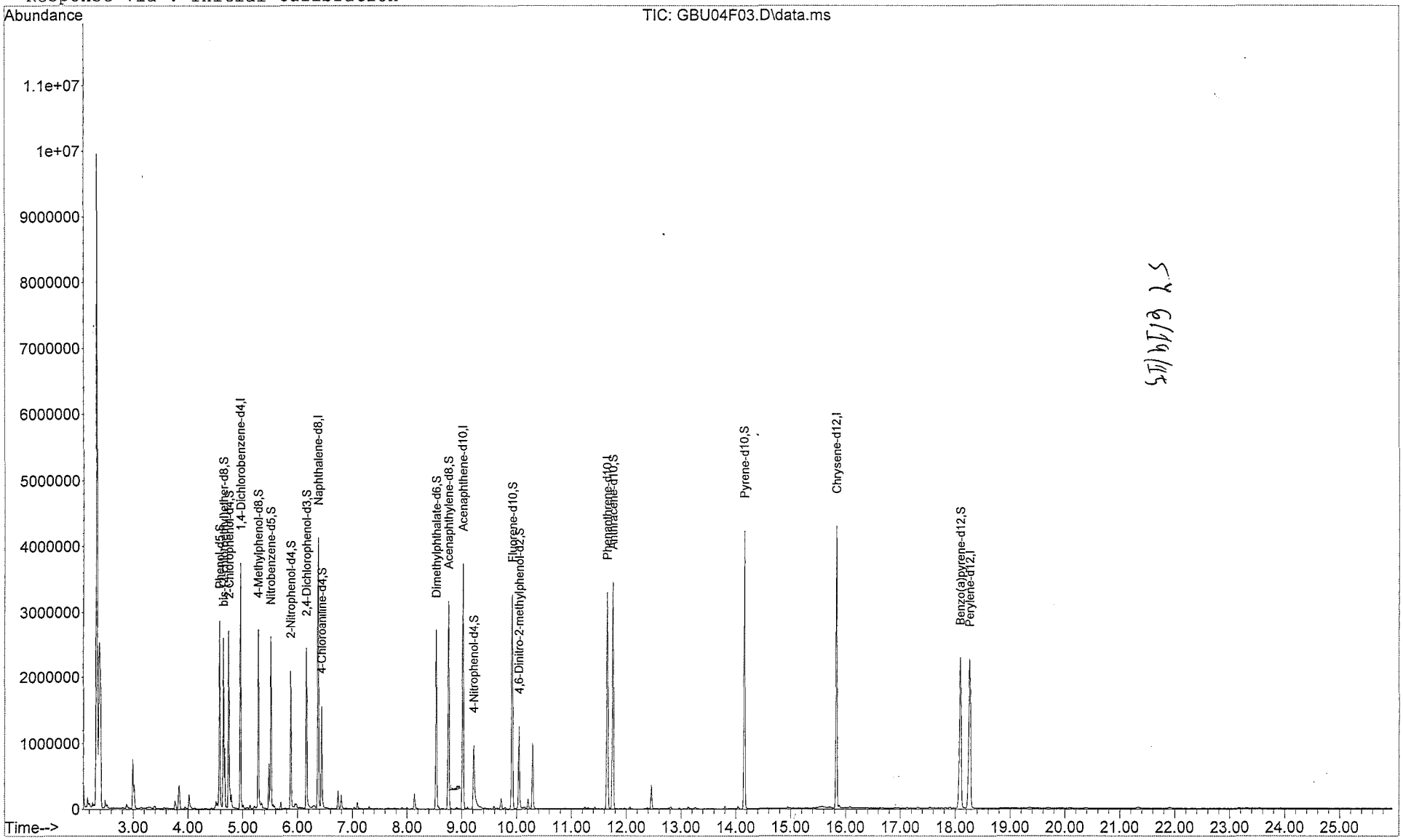
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU04F03.D Vial: 4
Acq On : 06/18/2015 18:34 Operator: TM
Sample : 1515629003 F9M53 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 19 09:26:35 2015 Results File: GSOM01D5.RES

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU04F03.D Vial: 4
Acq On : 06/18/2015 18:34 Operator: TM
Sample : 1515629003 F9M53 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 09:26:35 2015 Results File: GSOM01D5.RES

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	561757	20.00 ug/ml
16) Naphthalene-d8	6.37	136	2165762	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	1227954	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1985165	20.00 ug/ml
73) Chrysene-d12	15.83	240	1993051	20.00 ug/ml
81) Perylene-d12	18.26	264	1779240	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	963174	29.733ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	690540	27.542ug/mL
7) 2-Chlorophenol-d4	4.75	132	795279	29.062ug/ml
13) 4-Methylphenol-d8	5.29	113	645802	29.527ug/mL
17) Nitrobenzene-d5	5.51	128	361070	29.363ug/ml
21) 2-Nitrophenol-d4	5.87	143	396933	29.861ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	588246	28.696ug/mL
28) 4-Chloroaniline-d4	6.44	131	588710	28.567ug/mL
42) Dimethylphthalate-d6	8.53	166	1512011	31.066ug/mL
45) Acenaphthylene-d8	8.76	160	2025305	30.451ug/mL
50) 4-Nitrophenol-d4	9.22	143	294604	31.056ug/mL
57) Fluorene-d10	9.92	176	1271439	30.323ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	227950	27.461ug/mL
69) Anthracene-d10	11.76	188	2089815	31.642ug/mL
75) Pyrene-d10	14.16	212	1958785	31.448ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1728406	32.703ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	0.00	77		Not Detected	
4) Phenol	0.00	94		Not Detected	
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected	
8) 2-Chlorophenol	0.00	128		Not Detected	
9) 2-Methylphenol	0.00	108		Not Detected	
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected	
11) Acetophenone	5.35	105	19293	0.519ug/ml	83
12) 4-methylphenol	0.00	108		Not Detected	
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected	
15) Hexachloroethane	0.00	117		Not Detected	
18) Nitrobenzene	0.00	77		Not Detected	
19) Isophorone	0.00	82		Not Detected	
20) 2-Nitrophenol	0.00	139		Not Detected	
22) 2,4-Dimethylphenol	0.00	107		Not Detected	
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected	
24) 2,4-Dichlorophenol	0.00	162		Not Detected	
26) Naphthalene	0.00	128		Not Detected	
27) 4-Chloroaniline	0.00	127		Not Detected	
29) Hexachlorobutadiene	0.00	225		Not Detected	
30) Caprolactam	0.00	113		Not Detected	
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected	
32) 2-Methylnaphthalene	0.00	142		Not Detected	
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected	
35) Hexachlorocyclopentadiene	0.00	237		Not Detected	
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected	
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected	
38) 1,1'-Biphenyl	0.00	154		Not Detected	
39) 2-Chloronaphthalene	0.00	162		Not Detected	
40) 2-Nitroaniline	0.00	65		Not Detected	
41) Dimethylphthalate	0.00	163		Not Detected	
43) 2,6-Dinitrotoluene	0.00	165		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

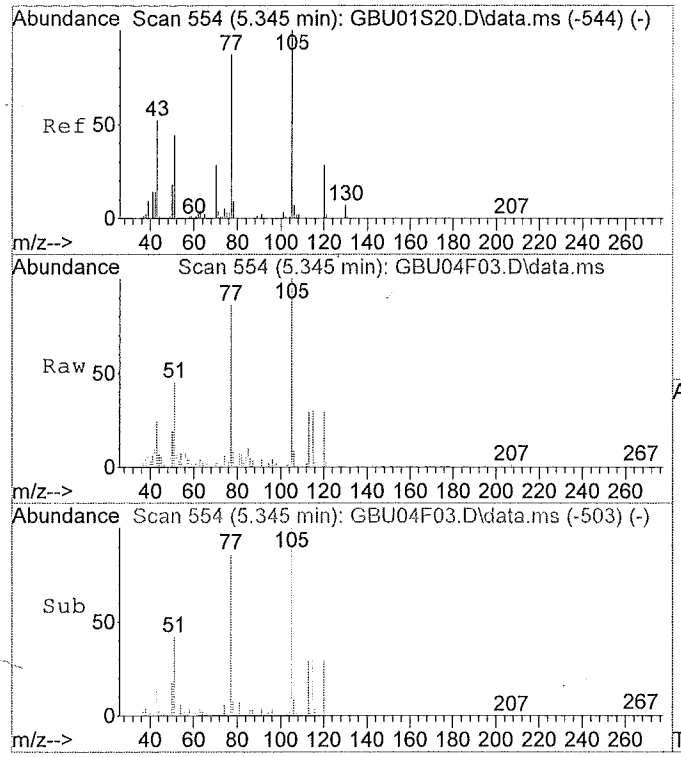
Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU04F03.D Vial: 4
Acq On : 06/18/2015 18:34 Operator: TM
Sample : 1515629003 F9M53 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 09:26:35 2015 Results File: GSOM01D5.RES

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

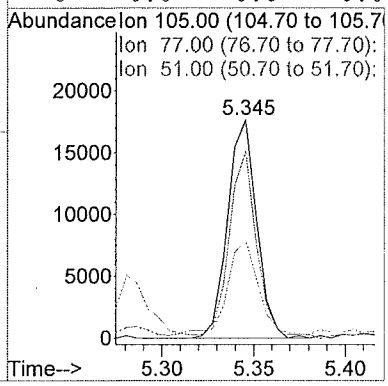
: 00135



#11
Acetophenone
Concen: 0.52 ug/ml
RT: 5.35 min Scan# 554
Delta R.T. -0.00 min
Lab File: GBU04F03.D
Acq: 06/18/2015 18:34

Tgt Ion:105 Resp: 19293

Ion	Ratio	Lower	Upper
105	100		
77	83.1	51.1	94.9
51	44.4	19.7	36.7#
0	0.0	0.0	0.0



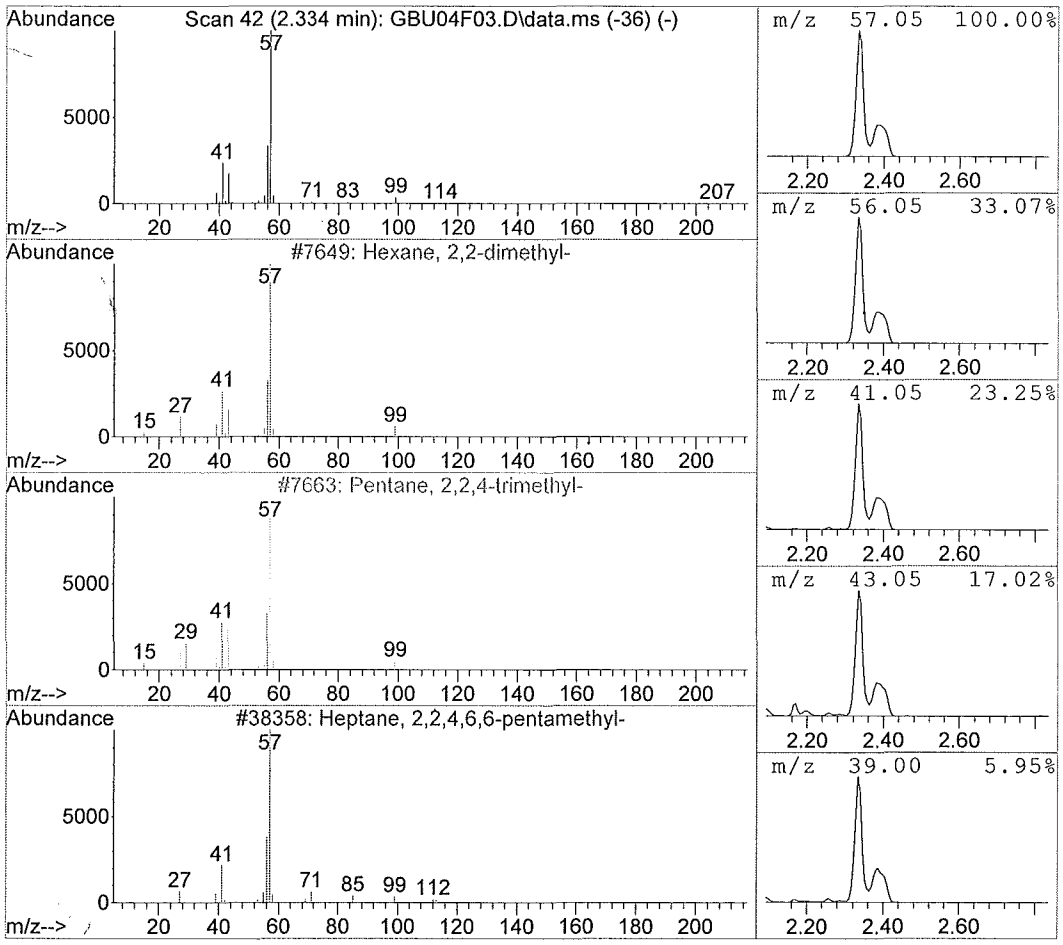
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU04F03.D Vial: 4
Acq On : 06/18/2015 18:34 Operator: TM
Sample : 1515629003 F9M53 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.33	68.21 ug/ml	13326895	1,4-Dichlorobenzene-d4	3907342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,2-dimethyl-	7649	000590-73-8	83.00
2	Pentane, 2,2,4-trimethyl- BA	7663	000540-84-1	83.00
3	Heptane, 2,2,4,6,6-pentamethyl-	38358	013475-82-6	83.00
4	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	78.00
5	Hexane, 2,2,5-trimethyl-	12724	003522-94-9	64.00



00137

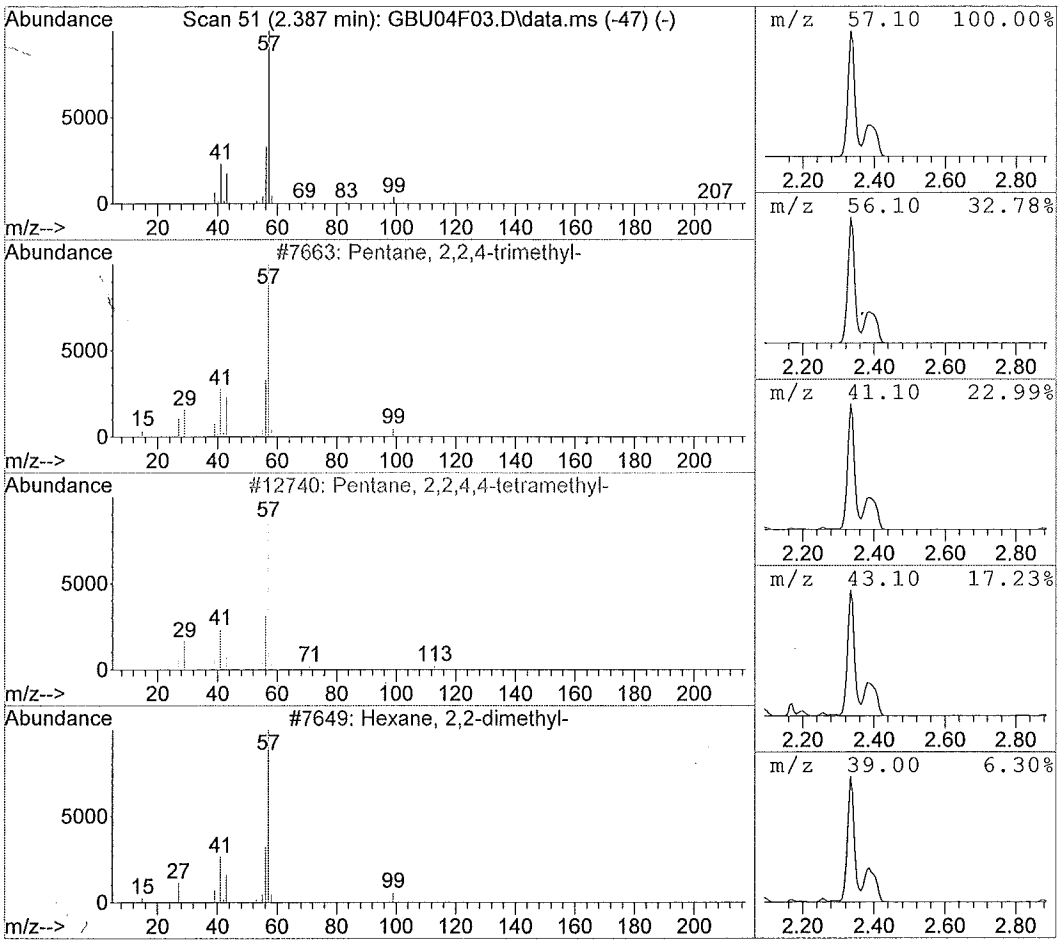
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU04F03.D Vial: 4
Acq On : 06/18/2015 18:34 Operator: TM
Sample : 1515629003 F9M53 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.39	30.41 ug/ml	5940780	1,4-Dichlorobenzene-d4	3907342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2,2,4-trimethyl- BA	7663	000540-84-1	83.00
2	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	78.00
3	Hexane, 2,2-dimethyl-	7649	000590-73-8	78.00
4	Butane, 2,2,3,3-tetramethyl-	7673	000594-82-1	74.00
5	Hexane, 2,2,4-trimethyl-	12720	016747-26-5	64.00



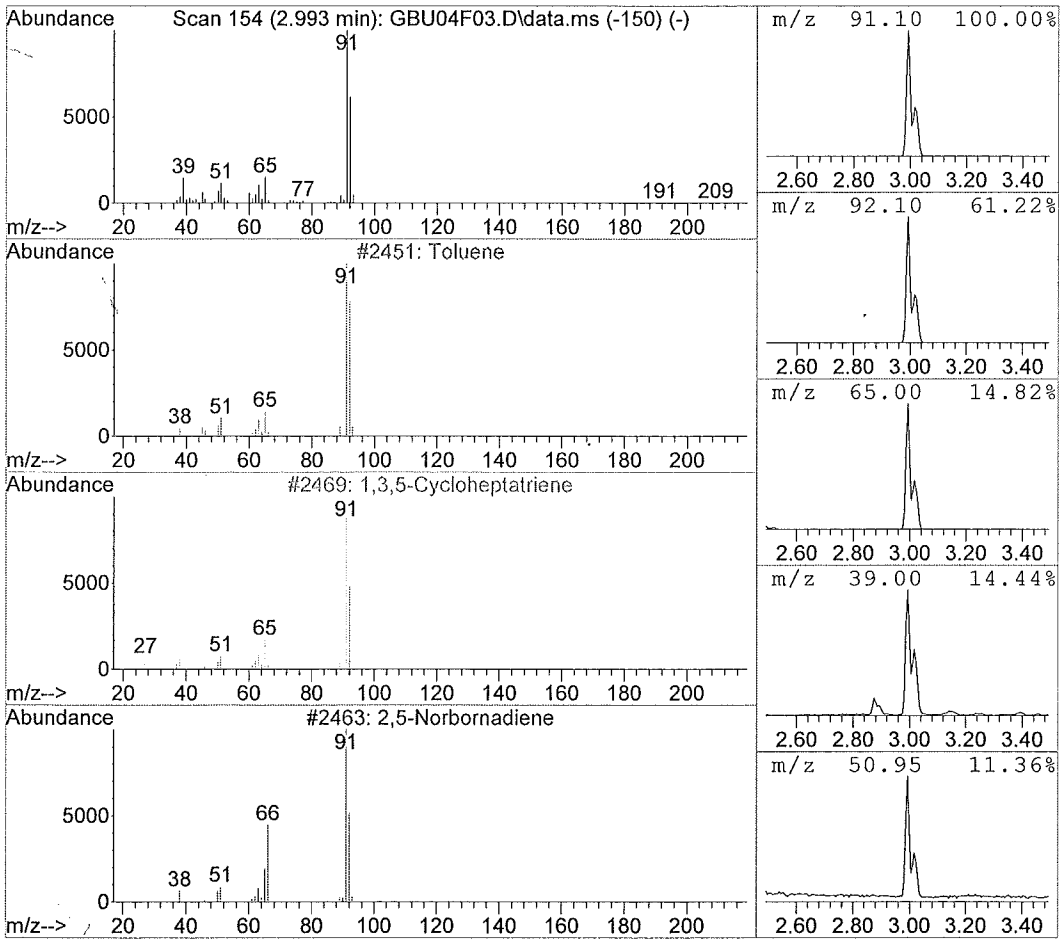
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU04F03.D Vial: 4
Acq On : 06/18/2015 18:34 Operator: TM
Sample : 1515629003 F9M53 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.99	3.61 ug/ml	705726	1,4-Dichlorobenzene-d4	3907342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Toluene VOA	2451	000108-88-3	95.00
2	1,3,5-Cycloheptatriene	2469	000544-25-2	87.00
3	2,5-Norbornadiene	2463	000121-46-0	83.00
4	Molybdenum, di-.mu.-chlorobis[(1,2,	237942	035625-66-2	64.00
5	Cyclobutene, 2-propenylidene-	2475	052097-85-5	50.00



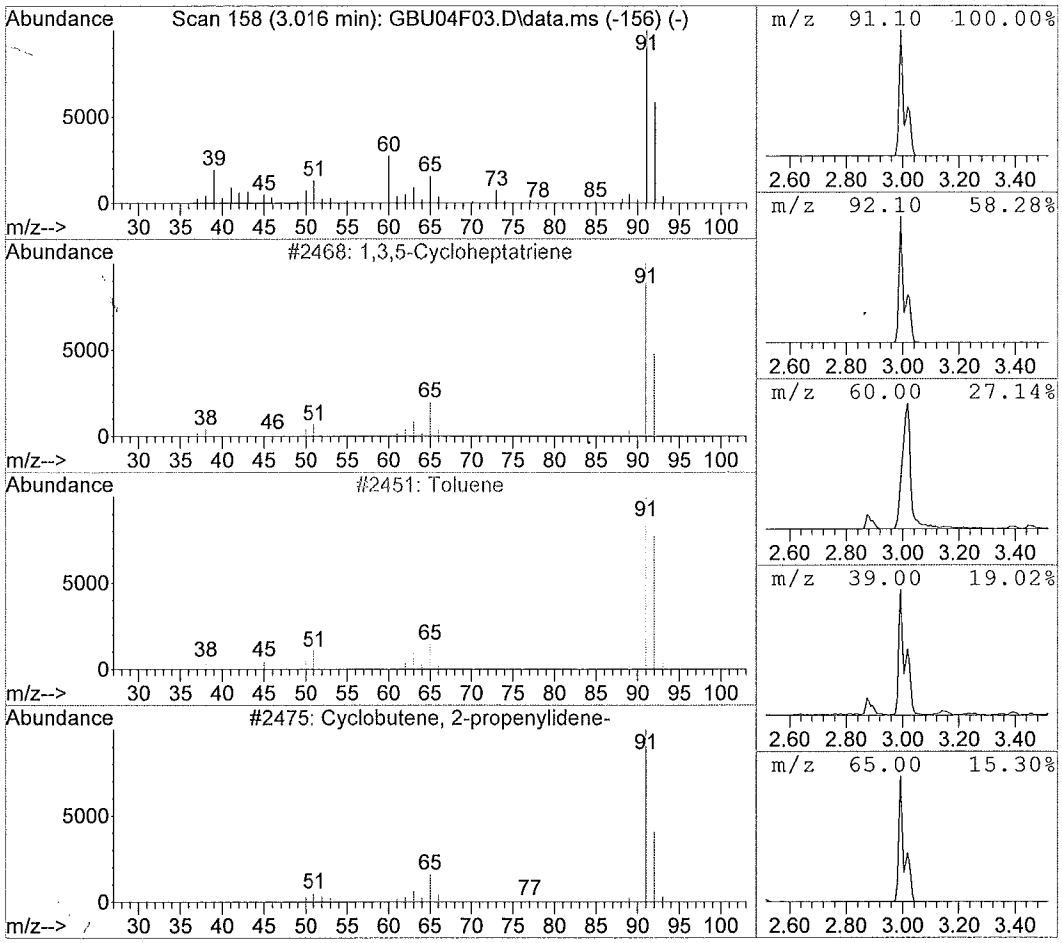
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU04F03.D Vial: 4
Acq On : 06/18/2015 18:34 Operator: TM
Sample : 1515629003 F9M53 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.02	2.27 ug/ml	443497	1,4-Dichlorobenzene-d4	3907342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3,5-Cycloheptatriene	2468	000544-25-2	76.00
2	Toluene VOA	2451	000108-88-3	76.00
3	Cyclobutene, 2-propenylidene-	2475	052097-85-5	64.00
4	Molybdenum, di-.mu.-chlorobis[(1,2,	237942	035625-66-2	59.00
5	1,5-Hexadien-3-yne, 2-methyl-	2474	000820-54-2	58.00



Library Search Compound Report

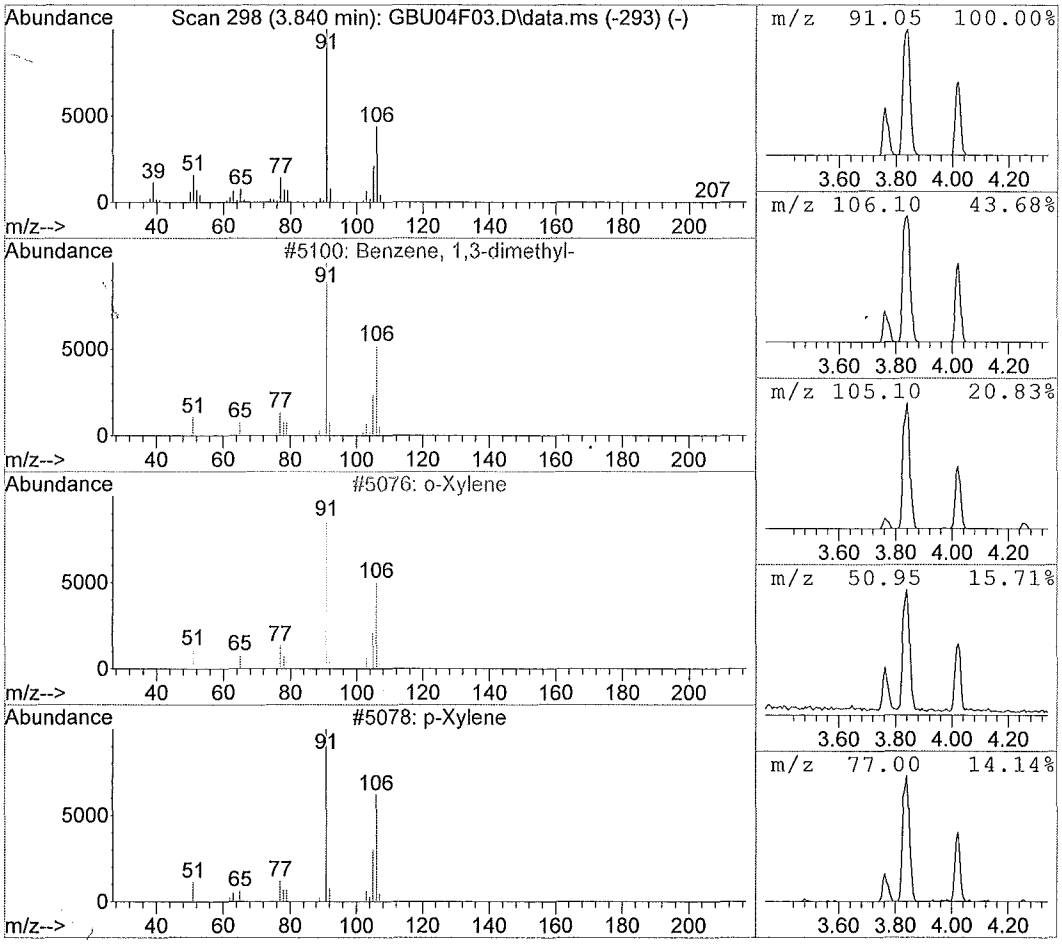
Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU04F03.D Vial: 4
Acq On : 06/18/2015 18:34 Operator: TM
Sample : 1515629003 F9M53 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.84	3.13 ug/ml	611571	1,4-Dichlorobenzene-d4	3907342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1,3-dimethyl-	5100	000108-38-3	97.00
2	o-Xylene	5076	000095-47-6	97.00
3	p-Xylene	5078	000106-42-3	95.00
4	Ethylbenzene	5087	000100-41-4	87.00
5	Cyclopentene, 1-ethenyl-3-methylene	5110	061142-07-2	86.00

VOA



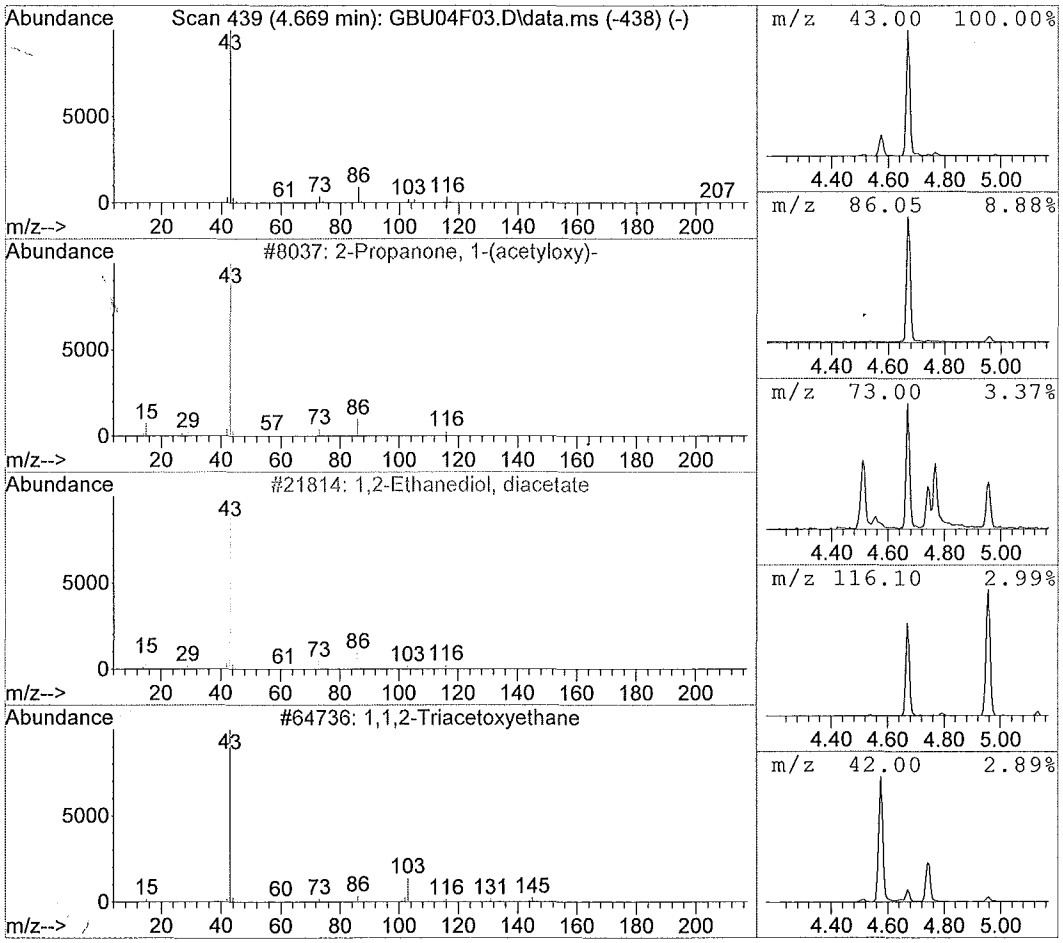
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU04F03.D Vial: 4
Acq On : 06/18/2015 18:34 Operator: TM
Sample : 1515629003 F9M53 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.67	3.22 ug/ml	629767	1,4-Dichlorobenzene-d4	3907342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-(acetyloxy)-	8037	000592-20-1	59.00
2	1,2-Ethanediol, diacetate	21814	000111-55-7	50.00
3	1,1,2-Triacetoxyethane	64736	002983-35-9	9.00
4	Ethanone, 1-oxiranyl-	1669	004401-11-0	5.00
5	2-Butanone, 3-methyl-	1769	000563-80-4	5.00



00142

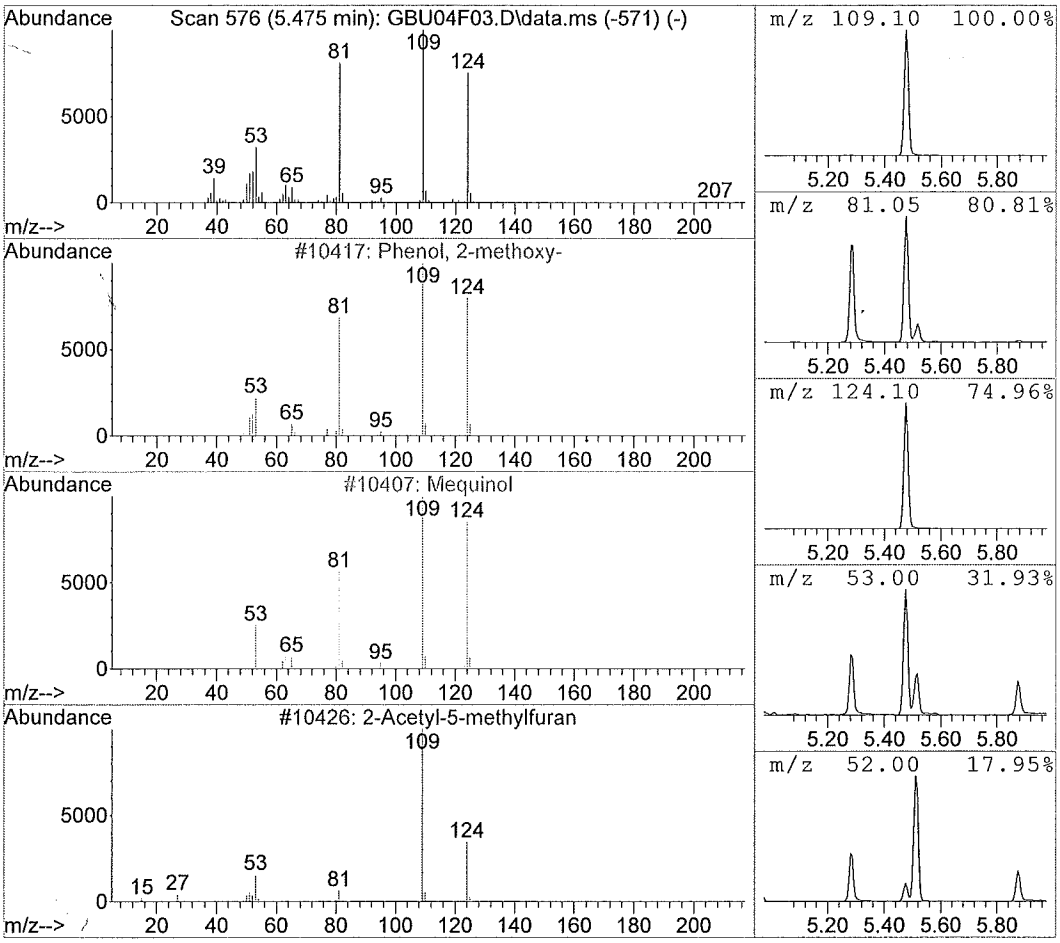
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU04F03.D Vial: 4
Acq On : 06/18/2015 18:34 Operator: TM
Sample : 1515629003 F9M53 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.47	3.70 ug/ml	722479	1,4-Dichlorobenzene-d4	3907342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenol, 2-methoxy-	10417	000090-05-1	95.00
2	Mequinol	10407	000150-76-5	90.00
3	2-Acetyl-5-methylfuran	10426	001193-79-9	52.00
4	2-Cyclopenten-1-one, 3,4,4-trimethy	10573	030434-65-2	47.00
5	3-Fluoro-o-xylene	10599	000443-82-3	43.00



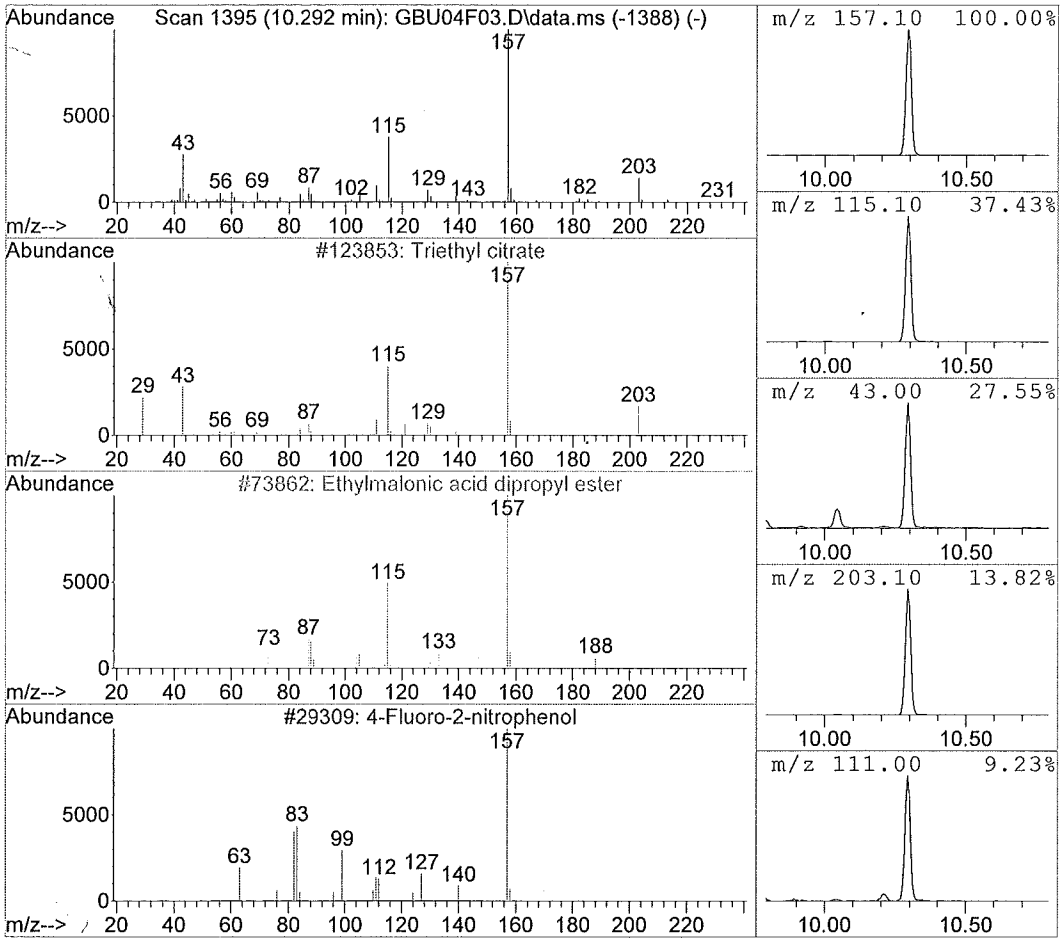
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU04F03.D Vial: 4
Acq On : 06/18/2015 18:34 Operator: TM
Sample : 1515629003 F9M53 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.29	5.09 ug/ml	1333326	Acenaphthene-d10	5244088

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Triethyl citrate	123853	000077-93-0	90.00
2	Ethylmalonic acid dipropyl ester	73862	001113-91-3	45.00
3	4-Fluoro-2-nitrophenol	29309	000394-33-2	40.00
4	Hexanedioic acid, 3-ethyl-, bis(1-m	132850	057983-54-7	39.00
5	1-Amino-2-methylnaphthalene	29219	002246-44-8	38.00



6E - FORM VI SV-1
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-G Calibration Date(s): 06/18/2015 06/18/2015

Calibration Time(s): 08:29 10:43

LAB FILE ID: RRF 5.0 = GBT02S05 RRF 10 = GBT03S10

RRF 20 = GBT01S20 RRF 40 = GBT04S40 RRF 80 = GBT05S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	0.844	0.908	0.892	0.823	0.529	0.799	19.4
Phenol	1.199	1.318	1.215	1.181	1.179	1.218	4.7
Bis(2-chloroethyl)ether	1.030	1.153	1.013	0.995	1.042	1.047	5.9
2-Chlorophenol	0.912	0.979	0.903	0.893	0.866	0.911	4.6
2-Methylphenol	0.910	0.952	0.904	0.842	0.834	0.889	5.6
2,2'-Oxybis(1-chloropropane)	2.489	2.645	2.514	2.400	2.400	2.490	4.1
Acetophenone	1.342	1.441	1.343	1.257	1.234	1.323	6.2
4-Methylphenol	0.913	1.009	0.946	0.880	0.894	0.928	5.5
N-Nitroso-di-n-propylamine	0.689	0.730	0.695	0.655	0.655	0.685	4.6
Hexachloroethane	0.476	0.505	0.476	0.456	0.457	0.474	4.2
Nitrobenzene	0.295	0.325	0.297	0.280	0.288	0.297	5.8
Isophorone	0.514	0.567	0.536	0.492	0.509	0.523	5.6
2-Nitrophenol	0.144	0.155	0.133	0.126	0.125	0.137	9.4
2,4-Dimethylphenol	0:252	0.269	0.251	0.242	0.248	0.253	4.0
Bis(2-chloroethoxy)methane	0.309	0.337	0.313	0.292	0.293	0.309	5.9
2,4-Dichlorophenol	0.192	0.212	0.198	0.190	0.191	0.196	4.7
Naphthalene	0.710	0.767	0.698	0.633	0.625	0.687	8.5
4-Chloroaniline	0.240	0.264	0.203	0.192	0.205	0.221	13.7
Hexachlorobutadiene	0.137	0.154	0.142	0.133	0.136	0.140	6.0
Caprolactam	0.070	0.081	0.077	0.073	0.078	0.076	5.6
4-Chloro-3-methylphenol	0.212	0.231	0.218	0.220	0.221	0.220	3.0
2-Methylnaphthalene	0.432	0.470	0.438	0.404	0.390	0.427	7.3
Hexachlorocyclopentadiene	0.202	0.260	0.255	0.251	0.253	0.244	9.8
2,4,6-Trichlorophenol	0.240	0.275	0.261	0.256	0.252	0.257	5.0
2,4,5-Trichlorophenol	0.240	0.290	0.277	0.259	0.261	0.266	7.3
1,1'-Biphenyl	0.895	1.009	0.918	0.849	0.819	0.898	8.2
2-Chloronaphthalene	0.743	0.826	0.759	0.703	0.678	0.742	7.7
2-Nitroaniline		0.318	0.300	0.291	0.298	0.302	3.8
Dimethylphthalate	0.814	0.886	0.865	0.785	0.780	0.826	5.8
2,6-Dinitrotoluene	0.183	0.202	0.197	0.185	0.184	0.190	4.5
Acenaphthylene	1.234	1.358	1.245	1.131	1.081	1.210	8.9
3-Nitroaniline		0.214	0.126	0.106	0.131	0.144	33.0
Acenaphthene	0.740	0.816	0.740	0.682	0.659	0.727	8.4
2,4-Dinitrophenol		0.099	0.109	0.119	0.132	0.115	12.4
4-Nitrophenol		0.118	0.119	0.120	0.124	0.120	2.2
Dibenzofuran	0.937	1.051	0.956	0.891	0.840	0.935	8.4

6F - FORM VI SV-2
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-G Calibration Date(s): 06/18/2015 06/18/2015

Calibration Time(s): 08:29 10:43

LAB FILE ID: RRF 5.0 = GBT02S05 RRF 10 = GBT03S10

RRF 20 = GBT01S20 RRF 40 = GBT04S40 RRF 80 = GBT05S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.247	0.279	0.263	0.243	0.238	0.254	6.5
Diethylphthalate	0.828	0.918	0.871	0.806	0.809	0.846	5.6
Fluorene	0.807	0.899	0.817	0.740	0.712	0.795	9.2
4-Chlorophenyl-phenylether	0.391	0.421	0.393	0.354	0.343	0.380	8.4
4-Nitroaniline		0.201	0.157	0.143	0.138	0.160	17.9
4,6-Dinitro-2-methylphenol		0.095	0.096	0.097	0.098	0.097	1.4
N-Nitrosodiphenylamine[1]	0.353	0.392	0.364	0.337	0.326	0.354	7.2
1,2,4,5-Tetrachlorobenzene	0.350	0.394	0.363	0.333	0.322	0.352	8.0
4-Bromophenyl-phenylether	0.128	0.143	0.134	0.128	0.125	0.131	5.6
Hexachlorobenzene	0.145	0.157	0.145	0.136	0.138	0.144	5.7
Atrazine	0.142	0.151	0.144	0.130	0.123	0.138	8.3
Pentachlorophenol		0.081	0.085	0.085	0.091	0.085	5.2
Phenanthrene	0.713	0.780	0.713	0.661	0.633	0.700	8.1
Anthracene	0.731	0.794	0.740	0.660	0.637	0.712	8.9
Carbazole	0.631	0.706	0.579	0.483	0.403	0.560	21.3
Di-n-butylphthalate	0.894	0.976	0.979	0.863	0.845	0.911	6.9
Fluoranthene	0.764	0.847	0.793	0.715	0.714	0.767	7.3
Pyrene	0.847	0.908	0.835	0.783	0.755	0.826	7.2
Butylbenzylphthalate	0.417	0.444	0.418	0.407	0.396	0.416	4.4
3,3'-Dichlorobenzidine	0.257	0.274	0.202	0.154	0.148	0.207	27.9
Benzo(a)anthracene	0.796	0.848	0.784	0.747	0.740	0.783	5.5
Chrysene	0.723	0.784	0.718	0.664	0.641	0.706	7.9
Bis(2-ethylhexyl)phthalate	0.615	0.679	0.620	0.574	0.527	0.603	9.4
Di-n-octylphthalate	1.200	1.332	1.237	1.162	1.124	1.211	6.6
Benzo(b)fluoranthene	0.780	0.893	0.824	0.776	0.797	0.814	5.9
Benzo(k)fluoranthene	0.778	0.847	0.778	0.722	0.720	0.769	6.8
Benzo(a)pyrene	0.766	0.840	0.780	0.731	0.733	0.770	5.8
Indeno(1,2,3-cd)pyrene	0.653	0.739	0.704	0.662	0.712	0.694	5.2
Dibenzo(a,h)anthracene	0.675	0.754	0.707	0.671	0.697	0.701	4.8
Benzo(g,h,i)perylene	0.667	0.752	0.705	0.664	0.687	0.695	5.2
2,3,4,6-Tetrachlorophenol	0.193	0.223	0.208	0.211	0.211	0.209	5.0

[1] Cannot be separated from Diphenylamine

6G - FORM VI SV-3
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-G Calibration Date(s): 06/18/2015 06/18/2015

Calibration Time(s): 08:29 10:43

LAB FILE ID: RRF 5.0 = GBT02S05 RRF 10 = GBT03S10

RRF 20 = GBT01S20 RRF 40 = GBT04S40 RRF 80 = GBT05S80

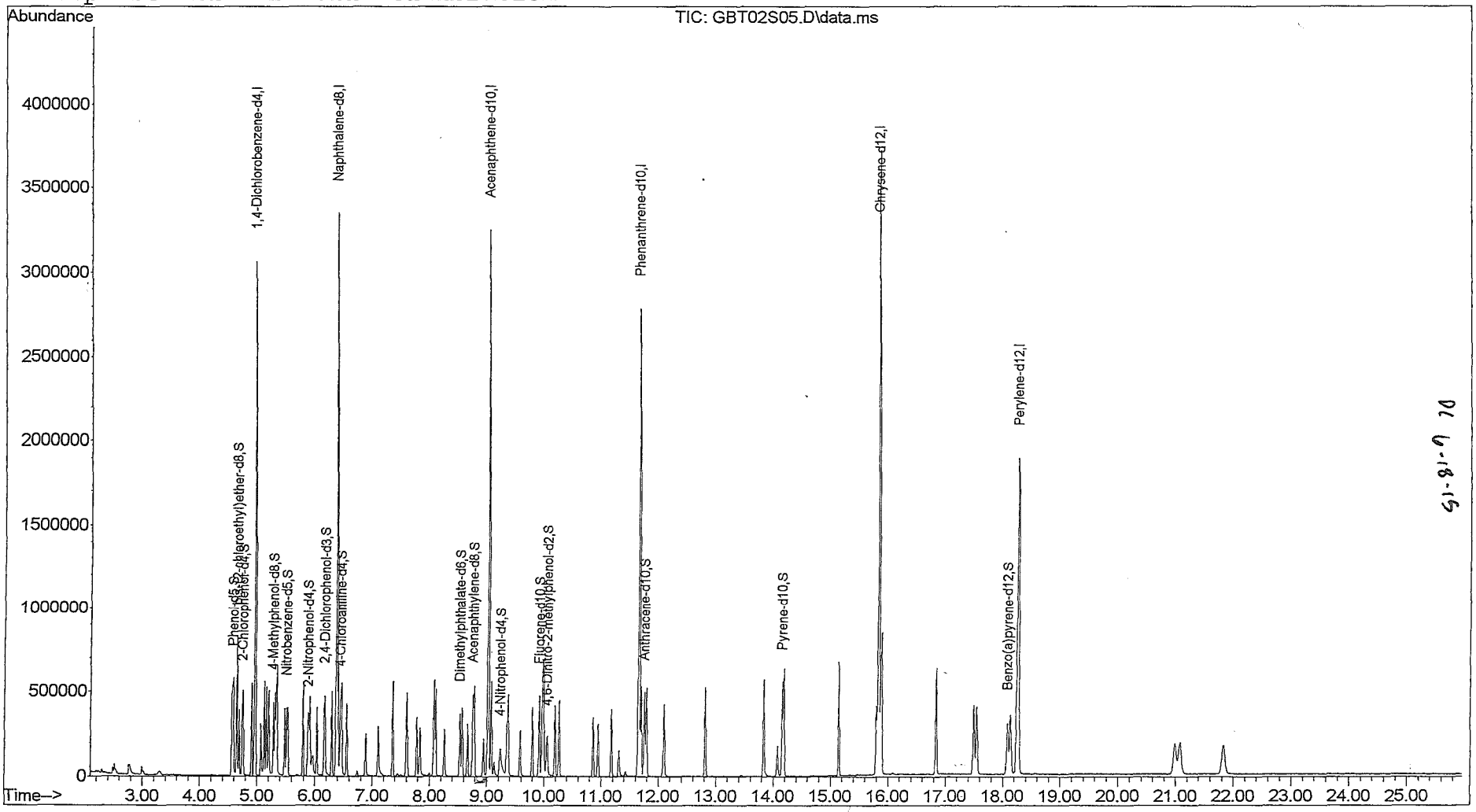
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.185	1.295	1.195	1.053	1.038	1.153	9.3
Bis(2-chloroethyl)ether-d8	0.938	0.994	0.896	0.809	0.826	0.893	8.6
2-Chlorophenol-d4	0.992	1.087	1.008	0.898	0.886	0.974	8.5
4-Methylphenol-d8	0.778	0.842	0.803	0.726	0.745	0.779	5.9
Nitrobenzene-d5	0.113	0.126	0.118	0.106	0.104	0.114	7.8
2-Nitrophenol-d4	0.134	0.134	0.127	0.108	0.110	0.123	10.6
2,4-Dichlorophenol-d3	0.195	0.211	0.196	0.172	0.172	0.189	9.0
4-Chloroaniline-d4	0.231	0.243	0.168	0.146	0.164	0.190	22.9
Dimethylphthalate-d6	0.785	0.886	0.830	0.735	0.728	0.793	8.4
Acenaphthylene-d8	1.111	1.208	1.138	0.993	0.967	1.083	9.3
4-Nitrophenol-d4		0.165	0.160	0.143	0.150	0.155	6.5
Fluorene-d10	0.680	0.776	0.716	0.629	0.614	0.683	9.7
4,6-Dinitro-2-methylphenol-d2		0.086	0.087	0.080	0.082	0.084	4.0
Anthracene-d10	0.686	0.750	0.692	0.605	0.594	0.665	9.8
Pyrene-d10	0.630	0.704	0.645	0.576	0.570	0.625	8.8
Benzo(a)pyrene-d12	0.595	0.660	0.608	0.549	0.558	0.594	7.5

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT02S05.D Vial: 2
Acq On : 06/18/2015 09:03 Operator: TM
Sample : SSTD005GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 12:35:41 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration



6-18-15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT02S05.D Vial: 2
Acq On : 06/18/2015 09:03 Operator: TM
Sample : SSTD005GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:41 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	462314	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1767799	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	1037483	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1695080	20.00 ug/ml
73) Chrysene-d12	15.83	240	1643116	20.00 ug/ml
81) Perylene-d12	18.26	264	1464269	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	136978	4.249ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	108377	5.490ug/mL
7) 2-Chlorophenol-d4	4.74	132	114620	3.621ug/ml
13) 4-Methylphenol-d8	5.28	113	89923	3.583ug/mL
17) Nitrobenzene-d5	5.51	128	50019	3.372ug/ml
21) 2-Nitrophenol-d4	5.87	143	59304	3.588ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	86233	3.561ug/mL
28) 4-Chloroaniline-d4	6.44	131	102181	3.890ug/mL
42) Dimethylphthalate-d6	8.53	166	203598	3.227ug/mL
45) Acenaphthylene-d8	8.76	160	288211	3.423ug/mL
50) 4-Nitrophenol-d4	9.23	143	34354	2.557ug/mL
57) Fluorene-d10	9.92	176	176285	3.217ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	26939	2.419ug/mL
69) Anthracene-d10	11.75	188	290684	3.390ug/mL
75) Pyrene-d10	14.15	212	258781	3.464ug/mL
86) Benzo(a)pyrene-d12	18.08	264	217962	3.282ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	97555	5.043ug/ml	87
4) Phenol	4.59	94	138615	4.250ug/ml	80
5) Bis(2-chloroethyl)ether	4.69	93	119054	4.377ug/ml	89
8) 2-Chlorophenol	4.76	128	105389	3.504ug/ml	83
9) 2-Methylphenol	5.16	108	105184	4.167ug/ml	95
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	287708	9.364ug/ml	100
11) Acetophenone	5.34	105	155120	4.284ug/ml	82
12) 4-methylphenol	5.31	108	105489	3.983ug/ml	96
14) N-Nitroso-di-n-propylamine	5.33	70	79675	5.016ug/ml	73
15) Hexachloroethane	5.47	117	55006	4.002ug/ml	99
18) Nitrobenzene	5.53	77	130195	4.768ug/ml	88
19) Isophorone	5.79	82	226964	4.797ug/ml	90
20) 2-Nitrophenol	5.89	139	63509	3.639ug/ml	77
22) 2,4-Dimethylphenol	5.91	107	111479	4.106ug/ml	82
23) Bis(2-chloroethoxy)methane	6.03	93	136557	4.361ug/ml	97
24) 2,4-Dichlorophenol	6.17	162	84652	3.516ug/ml	97
26) Naphthalene	6.40	128	313979	3.519ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT02S05.D Vial: 2
Acq On : 06/18/2015 09:03 Operator: TM
Sample : SSTD005GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:41 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.45	127	106193	3.600ug/ml	89
29)	Hexachlorobutadiene	6.55	225	60542	3.958ug/ml	98
30)	Caprolactam	6.89	113	31018	3.592ug/ml	37
31)	4-Chloro-3-methylphenol	7.10	107	93743	3.980ug/ml	92
32)	2-Methylnaphthalene	7.36	142	190908	3.351ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.60	216	90731	3.535ug/mL	98
35)	Hexachlorocyclopentadiene	7.59	237	52333	2.865ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	62129	3.408ug/ml	98
37)	2,4,5-Trichlorophenol	7.83	196	62125	3.173ug/ml	94
38)	1,1'-Biphenyl	8.07	154	232179	3.212ug/ml	97
39)	2-Chloronaphthalene	8.10	162	192690	3.437ug/ml	97
40)	2-Nitroaniline	8.26	65	71572	4.864ug/ml	78
41)	Dimethylphthalate	8.57	163	211029	3.261ug/ml	98
43)	2,6-Dinitrotoluene	8.66	165	47552	3.188ug/ml	93
44)	Acenaphthylene	8.78	152	319996	3.374ug/ml	99
46)	3-Nitroaniline	8.94	138	48424	4.531ug/ml	84
47)	Acenaphthene	9.07	153	191832	3.285ug/ml	93
48)	2,4-Dinitrophenol	9.12	184	15650	1.711ug/ml	100
49)	4-Nitrophenol	9.24	109	25149	3.163ug/ml	77
51)	Dibenzofuran	9.37	168	243126	3.171ug/ml	96
52)	2,4-Dinitrotoluene	9.35	165	64192	3.186ug/ml	49
53)	2,3,4,6-Tetrachlorophenol	9.58	232	50164	3.403ug/mL	98
54)	Diethylphthalate	9.79	149	214732	3.209ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	101377	3.358ug/ml	96
56)	Fluorene	9.97	166	209386	3.292ug/ml	98
58)	4-Nitroaniline	9.99	138	49749	4.027ug/ml	87
60)	4,6-Dinitro-2-methylphenol	10.06	198	31723	2.517ug/ml	93
62)	N-Nitrosodiphenylamine	10.19	169	149536	3.373ug/ml	95
63)	4-Bromophenyl-phenyl ether	10.86	248	54115	3.140ug/ml	100
64)	Hexachlorobenzene	10.94	284	61362	3.238ug/ml	89
65)	Atrazine	11.18	200	60041	3.704ug/ml	97
66)	Pentachlorophenol	11.31	266	28105	2.345ug/ml	98
67)	Phenanthrene	11.69	178	301952	3.257ug/ml	99
68)	Anthracene	11.79	178	309588	3.273ug/ml	100
70)	Carbazole	12.09	167	267446	4.674ug/mL	98
71)	Di-n-butylphthalate	12.81	149	379017	3.241ug/ml	100
72)	Fluoranthene	13.83	202	323801	3.387ug/ml	98
74)	Pyrene	14.18	202	348021	3.420ug/ml	97
76)	Butylbenzylphthalate	15.14	149	171199	3.177ug/ml	94
77)	3,3'-Dichlorobenzidine	15.79	252	105403	3.972ug/ml	98
78)	Benzo(a)anthracene	15.82	228	327092	3.503ug/ml	99
79)	Chrysene	15.87	228	297037	3.504ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	252516	3.184ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT02S05.D Vial: 2
Acq On : 06/18/2015 09:03 Operator: TM
Sample : SSTD005GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:41 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.83	149	439132	3.553ug/ml	97
83) Benzo(b)fluoranthene	17.49	252	285662	3.356ug/ml	97
84) Benzo(k)fluoranthene	17.54	252	284902	3.452ug/ml	97
85) Benzo(a)pyrene	18.13	252	280370	3.415ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.98	276	238970	2.969ug/ml	93
88) Dibenzo(a,h)anthracene	21.07	278	247060	2.992ug/ml	96
89) Benzo(g,h,i)perylene	21.83	276	244173	2.996ug/ml	95

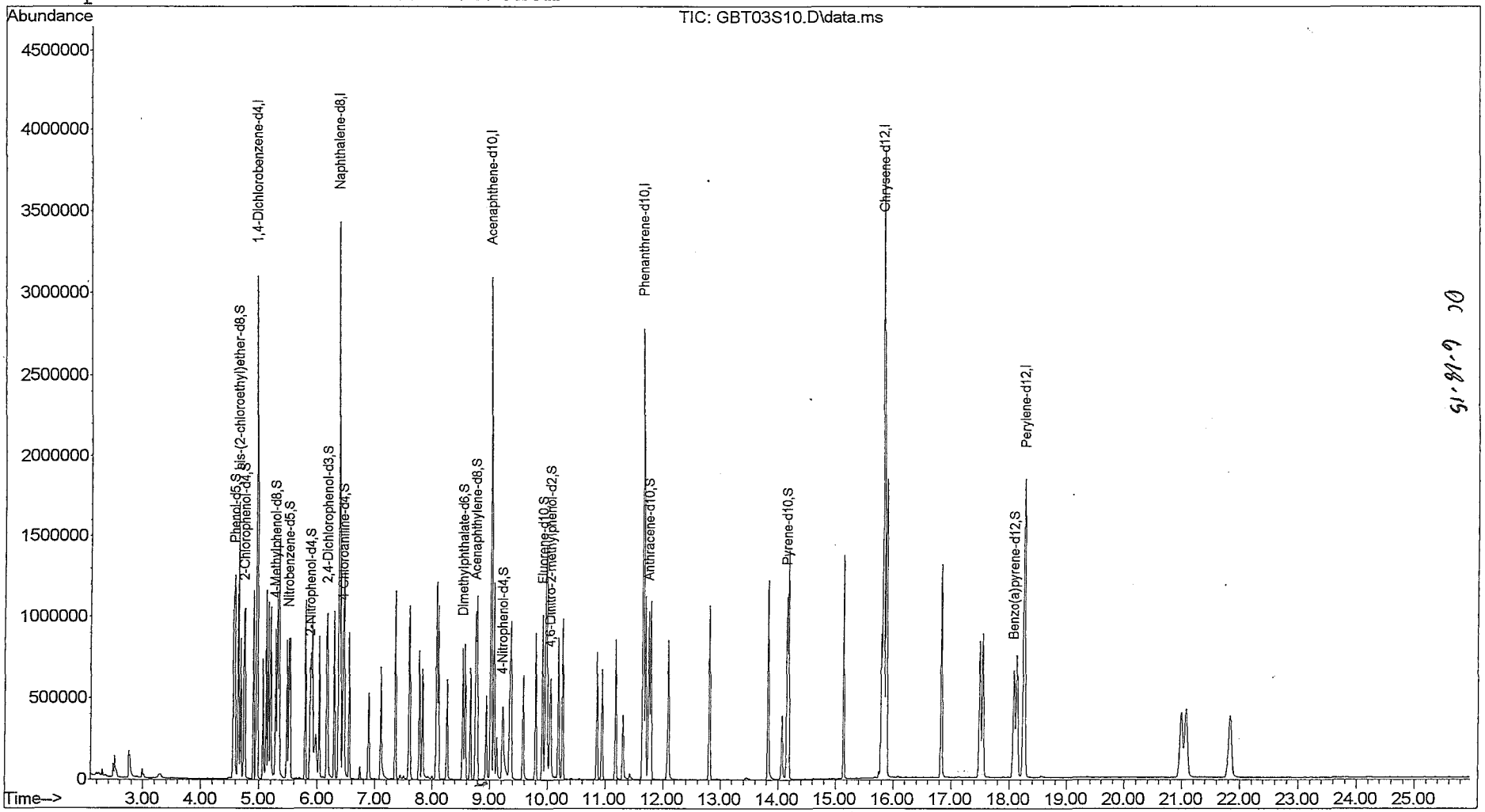
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT03S10.D Vial: 3
Acq On : 06/18/2015 09:36 Operator: TM
Sample : SSTD010GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 12:35:42 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration



6-18-15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT03S10.D Vial: 3
Acq On : 06/18/2015 09:36 Operator: TM
Sample : SSTD010GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:42 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	460665	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1724567	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	991798	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1645489	20.00 ug/ml
73) Chrysene-d12	15.83	240	1616881	20.00 ug/ml
81) Perylene-d12	18.26	264	1427026	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	298378	9.288ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	228957	11.640ug/mL
7) 2-Chlorophenol-d4	4.74	132	250347	7.937ug/ml
13) 4-Methylphenol-d8	5.28	113	193915	7.753ug/mL
17) Nitrobenzene-d5	5.51	128	108701	7.513ug/ml
21) 2-Nitrophenol-d4	5.87	143	115940	7.190ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	181946	7.702ug/mL
28) 4-Chloroaniline-d4	6.44	131	209176	8.163ug/mL
42) Dimethylphthalate-d6	8.53	166	439393	7.285ug/mL
45) Acenaphthylene-d8	8.76	160	598799	7.439ug/mL
50) 4-Nitrophenol-d4	9.22	143	81840	6.372ug/mL
57) Fluorene-d10	9.92	176	384924	7.347ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	70940	6.563ug/mL
69) Anthracene-d10	11.75	188	616960	7.412ug/mL
75) Pyrene-d10	14.15	212	569174	7.743ug/mL
86) Benzo(a)pyrene-d12	18.08	264	470984	7.276ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	209253	10.855ug/ml	86
4) Phenol	4.59	94	303602	9.342ug/ml	81
5) Bis(2-chloroethyl)ether	4.69	93	265601	9.800ug/ml	91
8) 2-Chlorophenol	4.76	128	225595	7.528ug/ml	84
9) 2-Methylphenol	5.16	108	219388	8.722ug/ml	98
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	609290	19.901ug/ml	100
11) Acetophenone	5.35	105	331878	9.199ug/ml	80
12) 4-methylphenol	5.31	108	232296	8.803ug/ml	100
14) N-Nitroso-di-n-propylamine	5.33	70	168223	10.629ug/ml	72
15) Hexachloroethane	5.47	117	116342	8.496ug/ml	98
18) Nitrobenzene	5.53	77	280610	10.534ug/ml	88
19) Isophorone	5.79	82	489243	10.600ug/ml	90
20) 2-Nitrophenol	5.89	139	133791	7.858ug/ml	75
22) 2,4-Dimethylphenol	5.91	107	231969	8.758ug/ml	83
23) Bis(2-chloroethoxy)methane	6.03	93	290595	9.513ug/ml	98
24) 2,4-Dichlorophenol	6.17	162	182693	7.779ug/ml	97
26) Naphthalene	6.40	128	661223	7.596ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT03S10.D Vial: 3
Acq On : 06/18/2015 09:36 Operator: TM
Sample : SSTD010GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:42 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	227892	7.920ug/ml	90
29)	Hexachlorobutadiene	6.55	225	133057	8.916ug/ml	98
30)	Caprolactam	6.89	113	69672	8.270ug/ml	43
31)	4-Chloro-3-methylphenol	7.10	107	198825	8.653ug/ml	93
32)	2-Methylnaphthalene	7.36	142	405303	7.293ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	195486	7.967ug/mL	98
35)	Hexachlorocyclopentadiene	7.59	237	128816	7.378ug/ml	98
36)	2,4,6-Trichlorophenol	7.77	196	136355	7.825ug/ml	99
37)	2,4,5-Trichlorophenol	7.83	196	143979	7.692ug/ml	99
38)	1,1'-Biphenyl	8.07	154	500545	7.245ug/ml	97
39)	2-Chloronaphthalene	8.10	162	409509	7.641ug/ml	95
40)	2-Nitroaniline	8.26	65	157850	11.220ug/ml	79
41)	Dimethylphthalate	8.57	163	439438	7.104ug/ml	100
43)	2,6-Dinitrotoluene	8.66	165	99972	7.010ug/ml	92
44)	Acenaphthylene	8.78	152	673394	7.428ug/ml	99
46)	3-Nitroaniline	8.94	138	105891	10.365ug/ml	84
47)	Acenaphthene	9.07	153	404548	7.246ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	49199	5.625ug/ml	100
49)	4-Nitrophenol	9.23	109	58338	7.676ug/ml	80
51)	Dibenzofuran	9.37	168	521207	7.111ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	138210	7.176ug/ml	47
53)	2,3,4,6-Tetrachlorophenol	9.58	232	110437	7.838ug/mL	99
54)	Diethylphthalate	9.80	149	455109	7.116ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	208915	7.239ug/ml	99
56)	Fluorene	9.97	166	446052	7.336ug/ml	98
58)	4-Nitroaniline	9.99	138	99536	8.428ug/ml	88
60)	4,6-Dinitro-2-methylphenol	10.06	198	78406	6.409ug/ml	92
62)	N-Nitrosodiphenylamine	10.19	169	322130	7.485ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.86	248	117579	7.028ug/ml	99
64)	Hexachlorobenzene	10.95	284	129256	7.025ug/ml	89
65)	Atrazine	11.18	200	124645	7.921ug/ml	99
66)	Pentachlorophenol	11.31	266	66294	5.699ug/ml	98
67)	Phenanthrene	11.69	178	641753	7.132ug/ml	100
68)	Anthracene	11.79	178	653518	7.116ug/ml	99
70)	Carbazole	12.09	167	580710	10.455ug/mL	99
71)	Di-n-butylphthalate	12.81	149	802810	7.071ug/ml	100
72)	Fluoranthene	13.83	202	696733	7.508ug/ml	97
74)	Pyrene	14.18	202	733729	7.328ug/ml	97
76)	Butylbenzylphthalate	15.14	149	359225	6.775ug/ml	92
77)	3,3'-Dichlorobenzidine	15.79	252	221463	8.481ug/ml	98
78)	Benzo(a)anthracene	15.82	228	685267	7.458ug/ml	98
79)	Chrysene	15.87	228	633918	7.600ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	548843	7.033ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT03S10.D Vial: 3
Acq On : 06/18/2015 09:36 Operator: TM
Sample : SSTD010GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:42 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.83	149	950157	7.889ug/ml	97
83) Benzo(b)fluoranthene	17.49	252	637349	7.683ug/ml	96
84) Benzo(k)fluoranthene	17.54	252	604239	7.512ug/ml	96
85) Benzo(a)pyrene	18.13	252	599158	7.488ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.99	276	527461	6.725ug/ml	92
88) Dibenzo(a,h)anthracene	21.07	278	538054	6.686ug/ml	96
89) Benzo(g,h,i)perylene	21.83	276	536908	6.759ug/ml	95

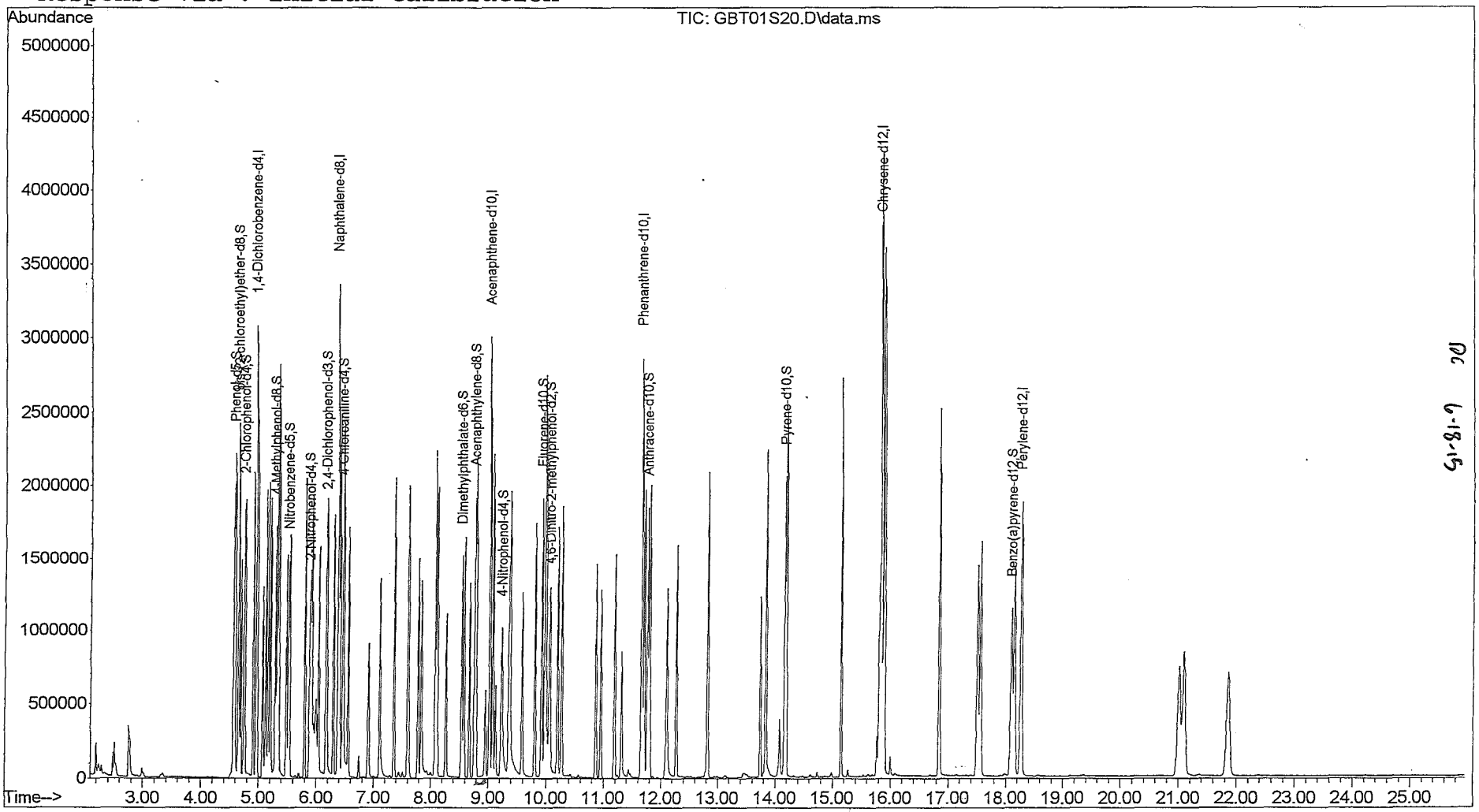
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT01S20.D Vial: 1
Acq On : 06/18/2015 08:29 Operator: TM
Sample : SSTD020GT DFTPPGT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 12:35:40 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT01S20.D Vial: 1
Acq On : 06/18/2015 08:29 Operator: TM
Sample : SSTD020GT DFTPPGT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:40 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	448534	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1719938	20.00 ug/ml
33) Acenaphthene-d10	9.03	164	1009212	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1666704	20.00 ug/ml
73) Chrysene-d12	15.84	240	1636641	20.00 ug/ml
81) Perylene-d12	18.27	264	1448969	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	535959	17.135ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	402013	20.991ug/mL
7) 2-Chlorophenol-d4	4.75	132	452310	14.729ug/ml
13) 4-Methylphenol-d8	5.29	113	360119	14.788ug/mL
17) Nitrobenzene-d5	5.52	128	202875	14.059ug/ml
21) 2-Nitrophenol-d4	5.88	143	218880	13.611ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	337883	14.342ug/mL
28) 4-Chloroaniline-d4	6.45	131	288565	11.292ug/mL
42) Dimethylphthalate-d6	8.54	166	837281	13.642ug/mL
45) Acenaphthylene-d8	8.76	160	1148779	14.025ug/mL
50) 4-Nitrophenol-d4	9.23	143	161768	12.377ug/mL
57) Fluorene-d10	9.92	176	722208	13.547ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	144392	13.189ug/mL
69) Anthracene-d10	11.76	188	1152738	13.673ug/mL
75) Pyrene-d10	14.16	212	1055409	14.184ug/mL
86) Benzo(a)pyrene-d12	18.10	264	881061	13.405ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	400171	21.321ug/ml	85
4) Phenol	4.59	94	544866	17.220ug/ml	81
5) Bis(2-chloroethyl)ether	4.69	93	454482	17.224ug/ml	88
8) 2-Chlorophenol	4.76	128	405079	13.883ug/ml	83
9) 2-Methylphenol	5.16	108	405448	16.556ug/ml	96
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	1127697	37.830ug/ml	100
11) Acetophenone	5.35	105	602221	17.145ug/ml	80
12) 4-methylphenol	5.32	108	424366	16.517ug/ml	97
14) N-Nitroso-di-n-propylamine	5.34	70	311565	20.218ug/ml	73
15) Hexachloroethane	5.48	117	213295	15.997ug/ml	97
18) Nitrobenzene	5.53	77	511326	19.246ug/ml	87
19) Isophorone	5.80	82	921110	20.011ug/ml	91
20) 2-Nitrophenol	5.89	139	229401	13.510ug/ml	67
22) 2,4-Dimethylphenol	5.92	107	432195	16.361ug/ml	82
23) Bis(2-chloroethoxy)methane	6.04	93	538014	17.659ug/ml	97
24) 2,4-Dichlorophenol	6.18	162	340695	14.546ug/ml	97
26) Naphthalene	6.40	128	1200597	13.830ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT01S20.D Vial: 1
Acq On : 06/18/2015 08:29 Operator: TM
Sample : SSTD020GT DFTPPGT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:40 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	348847	12.156ug/ml	91
29)	Hexachlorobutadiene	6.56	225	243630	16.369ug/ml	98
30)	Caprolactam	6.92	113	132648	15.787ug/ml	37
31)	4-Chloro-3-methylphenol	7.11	107	375486	16.386ug/ml	92
32)	2-Methylnaphthalene	7.36	142	753520	13.595ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	366601	14.684ug/mL	98
35)	Hexachlorocyclopentadiene	7.60	237	257761	14.508ug/ml	99
36)	2,4,6-Trichlorophenol	7.78	196	263442	14.857ug/ml	99
37)	2,4,5-Trichlorophenol	7.83	196	279709	14.686ug/ml	99
38)	1,1'-Biphenyl	8.08	154	926845	13.183ug/ml	99
39)	2-Chloronaphthalene	8.11	162	766146	14.050ug/ml	96
40)	2-Nitroaniline	8.27	65	302433	21.127ug/ml	78
41)	Dimethylphthalate	8.58	163	872715	13.866ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	198936	13.709ug/ml	91
44)	Acenaphthylene	8.79	152	1256820	13.625ug/ml	100
46)	3-Nitroaniline	8.95	138	127565	12.271ug/ml	84
47)	Acenaphthene	9.08	153	746347	13.137ug/ml	95
48)	2,4-Dinitrophenol	9.13	184	109969	12.357ug/ml	100
49)	4-Nitrophenol	9.24	109	119749	15.484ug/ml	80
51)	Dibenzofuran	9.37	168	964949	12.938ug/ml	97
52)	2,4-Dinitrotoluene	9.36	165	265642	13.555ug/ml	49
53)	2,3,4,6-Tetrachlorophenol	9.59	232	210385	14.674ug/mL	99
54)	Diethylphthalate	9.80	149	879245	13.510ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	396629	13.507ug/ml	98
56)	Fluorene	9.97	166	824483	13.325ug/ml	97
58)	4-Nitroaniline	10.00	138	158182	13.162ug/ml	70
60)	4,6-Dinitro-2-methylphenol	10.07	198	160720	12.971ug/ml	93
62)	N-Nitrosodiphenylamine	10.20	169	606616	13.917ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.86	248	224116	13.225ug/ml	99
64)	Hexachlorobenzene	10.95	284	242445	13.010ug/ml	90
65)	Atrazine	11.19	200	240646	15.097ug/ml	98
66)	Pentachlorophenol	11.32	266	141350	11.997ug/ml	98
67)	Phenanthrene	11.70	178	1187869	13.032ug/ml	100
68)	Anthracene	11.80	178	1233458	13.261ug/ml	100
70)	Carbazole	12.10	167	965623	17.164ug/mL	98
71)	Di-n-butylphthalate	12.82	149	1631225	14.185ug/ml	100
72)	Fluoranthene	13.84	202	1321569	14.061ug/ml	97
74)	Pyrene	14.19	202	1367287	13.491ug/ml	97
76)	Butylbenzylphthalate	15.14	149	684631	12.757ug/ml	91
77)	3,3'-Dichlorobenzidine	15.80	252	331280	12.533ug/ml	99
78)	Benzo(a)anthracene	15.83	228	1283746	13.803ug/ml	99
79)	Chrysene	15.87	228	1175094	13.918ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1014585	12.845ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT01S20.D Vial: 1
Acq On : 06/18/2015 08:29 Operator: TM
Sample : SSTD020GT DFTPPGT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:40 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	1792677	14.659ug/ml	97
83) Benzo(b)fluoranthene	17.50	252	1193744	14.173ug/ml	96
84) Benzo(k)fluoranthene	17.56	252	1126602	13.794ug/ml	96
85) Benzo(a)pyrene	18.15	252	1130675	13.917ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	21.02	276	1020406	12.812ug/ml	92
88) Dibenzo(a,h)anthracene	21.09	278	1024865	12.543ug/ml	96
89) Benzo(g,h,i)perylene	21.86	276	1022155	12.673ug/ml	94

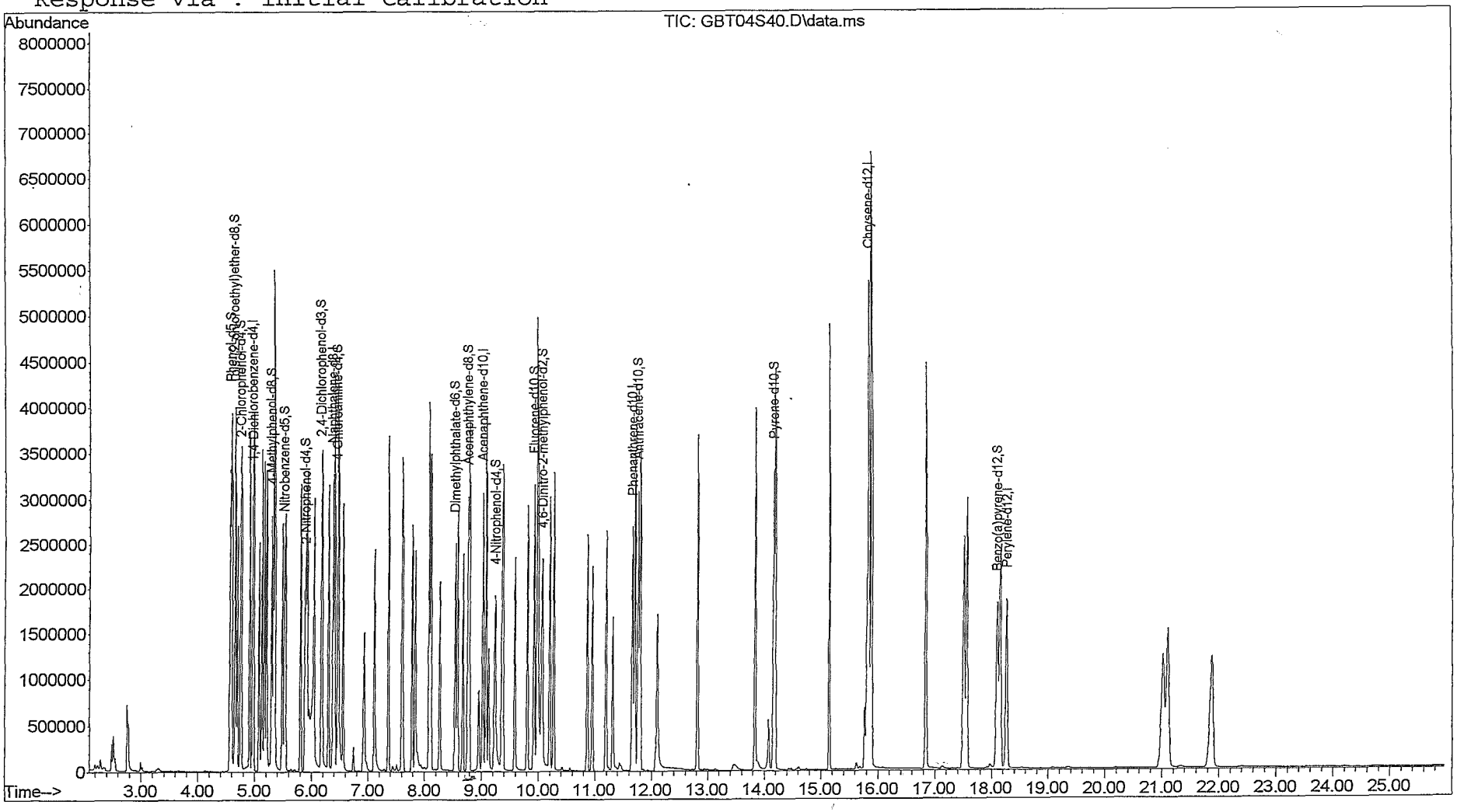
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT04S40.D Vial: 4
Acq On : 06/18/2015 10:09 Operator: TM
Sample : SSTD040GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 12:35:44 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT04S40.D Vial: 4
Acq On : 06/18/2015 10:09 Operator: TM
Sample : SSTD040GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:44 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	428522	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1658667	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	967049	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1607181	20.00 ug/ml
73) Chrysene-d12	15.84	240	1547612	20.00 ug/ml
81) Perylene-d12	18.27	264	1394236	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	902198	30.191ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	693196	37.885ug/mL
7) 2-Chlorophenol-d4	4.75	132	769604	26.231ug/ml
13) 4-Methylphenol-d8	5.29	113	621978	26.734ug/mL
17) Nitrobenzene-d5	5.52	128	352005	25.294ug/ml
21) 2-Nitrophenol-d4	5.88	143	357819	23.072ug/mL
25) 2,4-Dichlorophenol-d3	6.17	165	571076	25.136ug/mL
28) 4-Chloroaniline-d4	6.45	131	483125	19.603ug/mL
42) Dimethylphthalate-d6	8.54	166	1421462	24.170ug/mL
45) Acenaphthylene-d8	8.76	160	1919885	24.461ug/mL
50) 4-Nitrophenol-d4	9.23	143	276393	22.069ug/mL
57) Fluorene-d10	9.92	176	1216062	23.806ug/mL
61) 4,6-Dinitro-2-methylphenol	10.06	200	257057	24.350ug/mL
69) Anthracene-d10	11.76	188	1945903	23.935ug/mL
75) Pyrene-d10	14.16	212	1783335	25.346ug/mL
86) Benzo(a)pyrene-d12	18.10	264	1531569	24.217ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	705004	39.317ug/ml	84
4) Phenol	4.59	94	1012345	33.488ug/ml	83
5) Bis(2-chloroethyl)ether	4.69	93	853082	33.839ug/ml	89
8) 2-Chlorophenol	4.76	128	765068	27.445ug/ml	84
9) 2-Methylphenol	5.16	108	721894	30.853ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	2057290	72.237ug/ml	100
11) Acetophenone	5.35	105	1076972	32.092ug/ml	79
12) 4-methylphenol	5.32	108	754205	30.726ug/ml	98
14) N-Nitroso-di-n-propylamine	5.35	70	561376	38.129ug/ml	74
15) Hexachloroethane	5.48	117	390784	30.677ug/ml	98
18) Nitrobenzene	5.54	77	927760	36.211ug/ml	87
19) Isophorone	5.80	82	1631906	36.762ug/ml	90
20) 2-Nitrophenol	5.90	139	417172	25.476ug/ml	62
22) 2,4-Dimethylphenol	5.92	107	804184	31.567ug/ml	84
23) Bis(2-chloroethoxy)methane	6.04	93	969378	32.993ug/ml	100
24) 2,4-Dichlorophenol	6.18	162	630382	27.908ug/ml	97
26) Naphthalene	6.40	128	2101519	25.102ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

:00161

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT04S40.D Vial: 4
Acq On : 06/18/2015 10:09 Operator: TM
Sample : SSTD040GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:44 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	637047	23.018ug/ml	89
29)	Hexachlorobutadiene	6.56	225	441192	30.738ug/ml	99
30)	Caprolactam	6.93	113	241898	29.853ug/ml	35
31)	4-Chloro-3-methylphenol	7.11	107	728883	32.984ug/ml	89
32)	2-Methylnaphthalene	7.36	142	1340102	25.071ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	643662	26.905ug/mL	98
35)	Hexachlorocyclopentadiene	7.60	237	485122	28.495ug/ml	99
36)	2,4,6-Trichlorophenol	7.78	196	495418	29.158ug/ml	99
37)	2,4,5-Trichlorophenol	7.83	196	501574	27.482ug/ml	98
38)	1,1'-Biphenyl	8.08	154	1641777	24.370ug/ml	98
39)	2-Chloronaphthalene	8.11	162	1358734	26.003ug/ml	96
40)	2-Nitroaniline	8.27	65	563610	41.088ug/ml	78
41)	Dimethylphthalate	8.58	163	1517580	25.163ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	357900	25.738ug/ml	92
44)	Acenaphthylene	8.79	152	2186860	24.741ug/ml	99
46)	3-Nitroaniline	8.96	138	204536	20.533ug/ml	87
47)	Acenaphthene	9.08	153	1318268	24.215ug/ml	94
48)	2,4-Dinitrophenol	9.13	184	229566	26.920ug/ml	100
49)	4-Nitrophenol	9.25	109	231684	31.263ug/ml	81
51)	Dibenzofuran	9.37	168	1722583	24.103ug/ml	96
52)	2,4-Dinitrotoluene	9.36	165	469426	24.998ug/ml	45
53)	2,3,4,6-Tetrachlorophenol	9.59	232	407843	29.686ug/mL	99
54)	Diethylphthalate	9.80	149	1559640	25.009ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	684462	24.325ug/ml	99
56)	Fluorene	9.97	166	1431899	24.151ug/ml	98
58)	4-Nitroaniline	10.01	138	275963	23.964ug/ml	70
60)	4,6-Dinitro-2-methylphenol	10.07	198	312791	26.179ug/ml	91
62)	N-Nitrosodiphenylamine	10.20	169	1081672	25.734ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.86	248	410747	25.135ug/ml	97
64)	Hexachlorobenzene	10.95	284	438574	24.405ug/ml	89
65)	Atrazine	11.19	200	416875	27.122ug/ml	99
66)	Pentachlorophenol	11.31	266	272045	23.945ug/ml	98
67)	Phenanthrene	11.70	178	2123858	24.164ug/ml	100
68)	Anthracene	11.80	178	2121525	23.653ug/ml	99
70)	Carbazole	12.10	167	1552504	28.618ug/mL	99
71)	Di-n-butylphthalate	12.82	149	2773070	25.007ug/ml	100
72)	Fluoranthene	13.84	202	2299691	25.374ug/ml	98
74)	Pyrene	14.19	202	2423723	25.291ug/ml	97
76)	Butylbenzylphthalate	15.14	149	1258456	24.798ug/ml	92
77)	3,3'-Dichlorobenzidine	15.80	252	475487	19.024ug/ml	99
78)	Benzo(a)anthracene	15.83	228	2312028	26.289ug/ml	99
79)	Chrysene	15.87	228	2054732	25.736ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1778187	23.807ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT04S40.D Vial: 4
Acq On : 06/18/2015 10:09 Operator: TM
Sample : SSTD040GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:35:44 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	3241106	27.544ug/ml	97
83) Benzo(b)fluoranthene	17.51	252	2164337	26.705ug/ml	96
84) Benzo(k)fluoranthene	17.56	252	2012418	25.607ug/ml	96
85) Benzo(a)pyrene	18.15	252	2039406	26.087ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	21.02	276	1847001	24.101ug/ml	94
88) Dibenzo(a,h)anthracene	21.10	278	1871427	23.803ug/ml	96
89) Benzo(g,h,i)perylene	21.88	276	1852393	23.868ug/ml	95

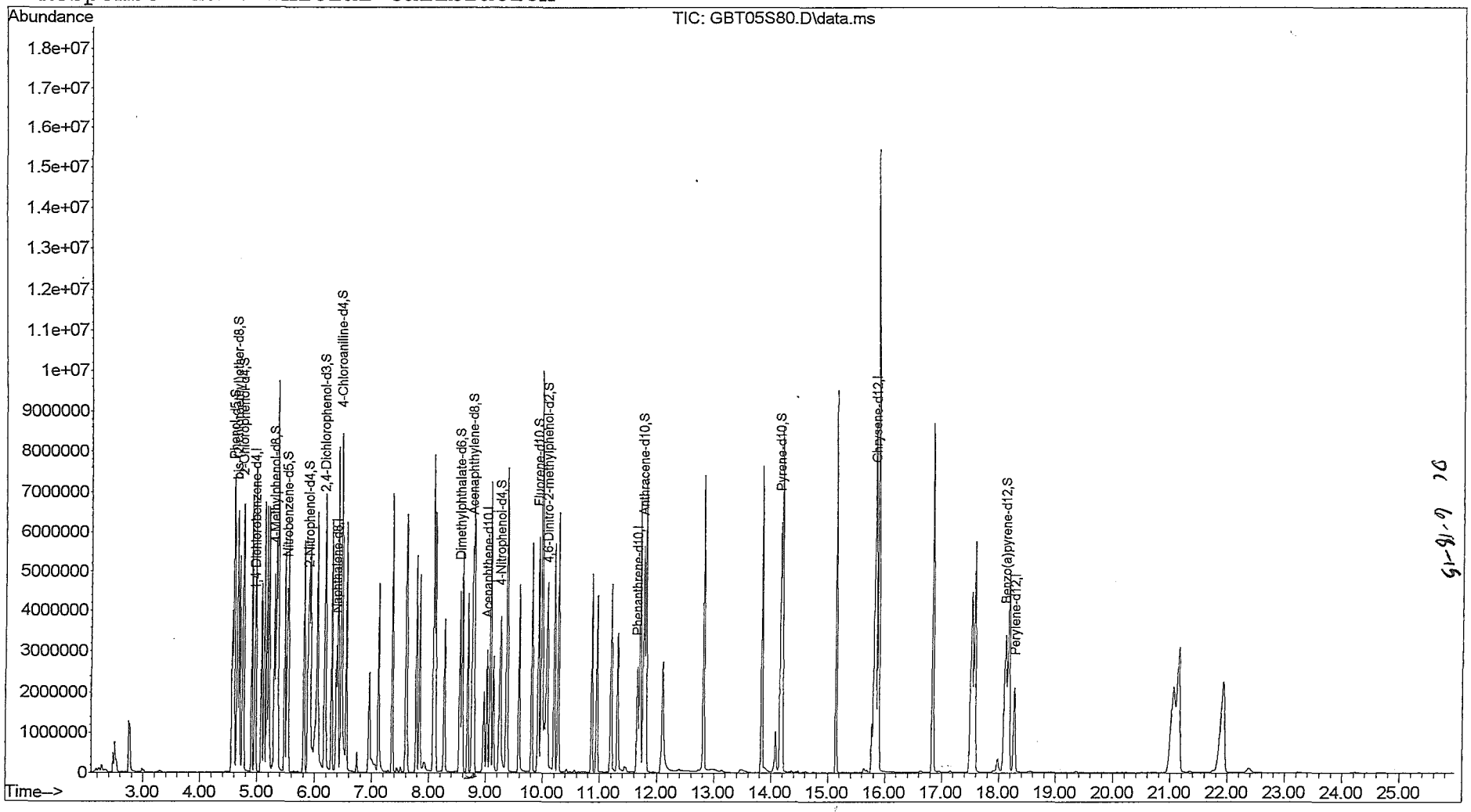
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT05S80.D Vial: 5
Acq On : 06/18/2015 10:43 Operator: TM
Sample : SSTD080GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 12:42:07 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration



GBT05S80.D GSOM01D5.M Thu Jun 18 13:00:40 2015 Page 4

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT05S80.D Vial: 5
Acq On : 06/18/2015 10:43 Operator: TM
Sample : SSTD080GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:42:07 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	427065	20.00 ug/ml
16) Naphthalene-d8	6.38	136	1661957	20.00 ug/ml
33) Acenaphthene-d10	9.03	164	1001440	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1700582	20.00 ug/ml
73) Chrysene-d12	15.85	240	1661897	20.00 ug/ml
81) Perylene-d12	18.28	264	1519057	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.59	99	1773941	59.566ug/ml
6) bis-(2-chloroethyl)ether-d	4.66	67	1411650	77.414ug/mL
7) 2-Chlorophenol-d4	4.75	132	1514119	51.783ug/ml
13) 4-Methylphenol-d8	5.30	113	1272375	54.877ug/mL
17) Nitrobenzene-d5	5.52	128	694560	49.811ug/ml
21) 2-Nitrophenol-d4	5.89	143	731177	47.053ug/mL
25) 2,4-Dichlorophenol-d3	6.17	165	1142072	50.169ug/mL
28) 4-Chloroaniline-d4	6.46	131	1092425	44.239ug/mL
42) Dimethylphthalate-d6	8.55	166	2916284	47.884ug/mL
45) Acenaphthylene-d8	8.77	160	3872687	47.646ug/mL
50) 4-Nitrophenol-d4	9.26	143	600036	46.266ug/mL
57) Fluorene-d10	9.93	176	2460945	46.521ug/mL
61) 4,6-Dinitro-2-methylphenol	10.07	200	555689	49.746ug/mL
69) Anthracene-d10	11.77	188	4041293	46.979ug/mL
75) Pyrene-d10	14.17	212	3790141	50.165ug/mL
86) Benzo(a)pyrene-d12	18.12	264	3388332	49.175ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	903258	50.545ug/ml	88
4) Phenol	4.60	94	2014209	66.857ug/ml	83
5) Bis(2-chloroethyl)ether	4.70	93	1780510	70.868ug/ml	83
8) 2-Chlorophenol	4.76	128	1479186	53.242ug/ml	81
9) 2-Methylphenol	5.17	108	1424990	61.111ug/ml	99
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	4099973	144.453ug/ml	100
11) Acetophenone	5.36	105	2107809	63.024ug/ml	44
12) 4-methylphenol	5.33	108	1526780	62.412ug/ml	98
14) N-Nitroso-di-n-propylamine	5.36	70	1118232	76.210ug/ml	77
15) Hexachloroethane	5.48	117	779844	61.427ug/ml	99
18) Nitrobenzene	5.55	77	1914500	74.575ug/ml	86
19) Isophorone	5.82	82	3382676	76.052ug/ml	90
20) 2-Nitrophenol	5.90	139	828682	50.507ug/ml	60
22) 2,4-Dimethylphenol	5.93	107	1646033	64.484ug/ml	83
23) Bis(2-chloroethoxy)methane	6.05	93	1949831	66.232ug/ml	100
24) 2,4-Dichlorophenol	6.19	162	1267827	56.017ug/ml	96
26) Naphthalene	6.41	128	4154625	49.527ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT05S80.D Vial: 5
Acq On : 06/18/2015 10:43 Operator: TM
Sample : SSTD080GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:42:07 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.47	127	1362336	49.127ug/ml	87
29) Hexachlorobutadiene	6.56	225	904871	62.918ug/ml	99
30) Caprolactam	6.97	113	518880	63.908ug/ml m	33
31) 4-Chloro-3-methylphenol	7.13	107	1467260	66.266ug/ml	90
32) 2-Methylnaphthalene	7.37	142	2592539	48.407ug/ml	94
34) 1,2,4,5-Tetrachlorobenzene	7.62	216	1289269	52.041ug/mL	98
35) Hexachlorocyclopentadiene	7.60	237	1015205	57.583ug/ml	100
36) 2,4,6-Trichlorophenol	7.79	196	1010488	57.431ug/ml	99
37) 2,4,5-Trichlorophenol	7.85	196	1046328	55.362ug/ml	99
38) 1,1'-Biphenyl	8.09	154	3280202	47.018ug/ml	97
39) 2-Chloronaphthalene	8.12	162	2717747	50.225ug/ml	96
40) 2-Nitroaniline	8.28	65	1192144	83.925ug/ml	77
41) Dimethylphthalate	8.59	163	3125471	50.043ug/ml	99
43) 2,6-Dinitrotoluene	8.69	165	736842	51.170ug/ml	91
44) Acenaphthylene	8.80	152	4330405	47.309ug/ml	99
46) 3-Nitroaniline	8.97	138	525197	50.913ug/ml	83
47) Acenaphthene	9.09	153	2638121	46.795ug/ml	94
48) 2,4-Dinitrophenol	9.14	184	530634	60.087ug/ml	100
49) 4-Nitrophenol	9.27	109	495417	64.555ug/ml	79
51) Dibenzofuran	9.39	168	3365533	45.474ug/ml	94
52) 2,4-Dinitrotoluene	9.37	165	955135	49.117ug/ml	45
53) 2,3,4,6-Tetrachlorophenol	9.59	232	845997	59.463ug/mL	99
54) Diethylphthalate	9.82	149	3240988	50.185ug/ml	96
55) 4-Chlorophenyl-phenylether	10.00	204	1373395	47.133ug/ml	99
56) Fluorene	9.99	166	2850885	46.433ug/ml	99
58) 4-Nitroaniline	10.03	138	554208	46.473ug/ml	76
60) 4,6-Dinitro-2-methylphenol	10.09	198	669241	52.935ug/ml	90
62) N-Nitrosodiphenylamine	10.21	169	2216868	49.844ug/ml	94
63) 4-Bromophenyl-phenyl ether	10.87	248	847654	49.022ug/ml	98
64) Hexachlorobenzene	10.96	284	939004	49.383ug/ml	88
65) Atrazine	11.21	200	838459	51.554ug/ml	98
66) Pentachlorophenol	11.32	266	621616	51.708ug/ml	98
67) Phenanthrene	11.71	178	4307462	46.316ug/ml	99
68) Anthracene	11.81	178	4336082	45.688ug/ml	99
70) Carbazole	12.10	167	2742743	47.781ug/mL	98
71) Di-n-butylphthalate	12.82	149	5745049	48.962ug/ml	100
72) Fluoranthene	13.84	202	4855510	50.631ug/ml	97
74) Pyrene	14.20	202	5016932	48.751ug/ml	96
76) Butylbenzylphthalate	15.15	149	2629809	48.256ug/ml	91
77) 3,3'-Dichlorobenzidine	15.80	252	981558	36.571ug/ml	98
78) Benzo(a)anthracene	15.83	228	4917596	52.070ug/ml	98
79) Chrysene	15.89	228	4262767	49.720ug/ml	100
80) Bis-(2-ethylhexyl)phthalat	15.89	149	3502117	43.663ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBT05S80.D Vial: 5
Acq On : 06/18/2015 10:43 Operator: TM
Sample : SSTD080GT Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:42:07 2015 Results File: GSOM01D5.RES

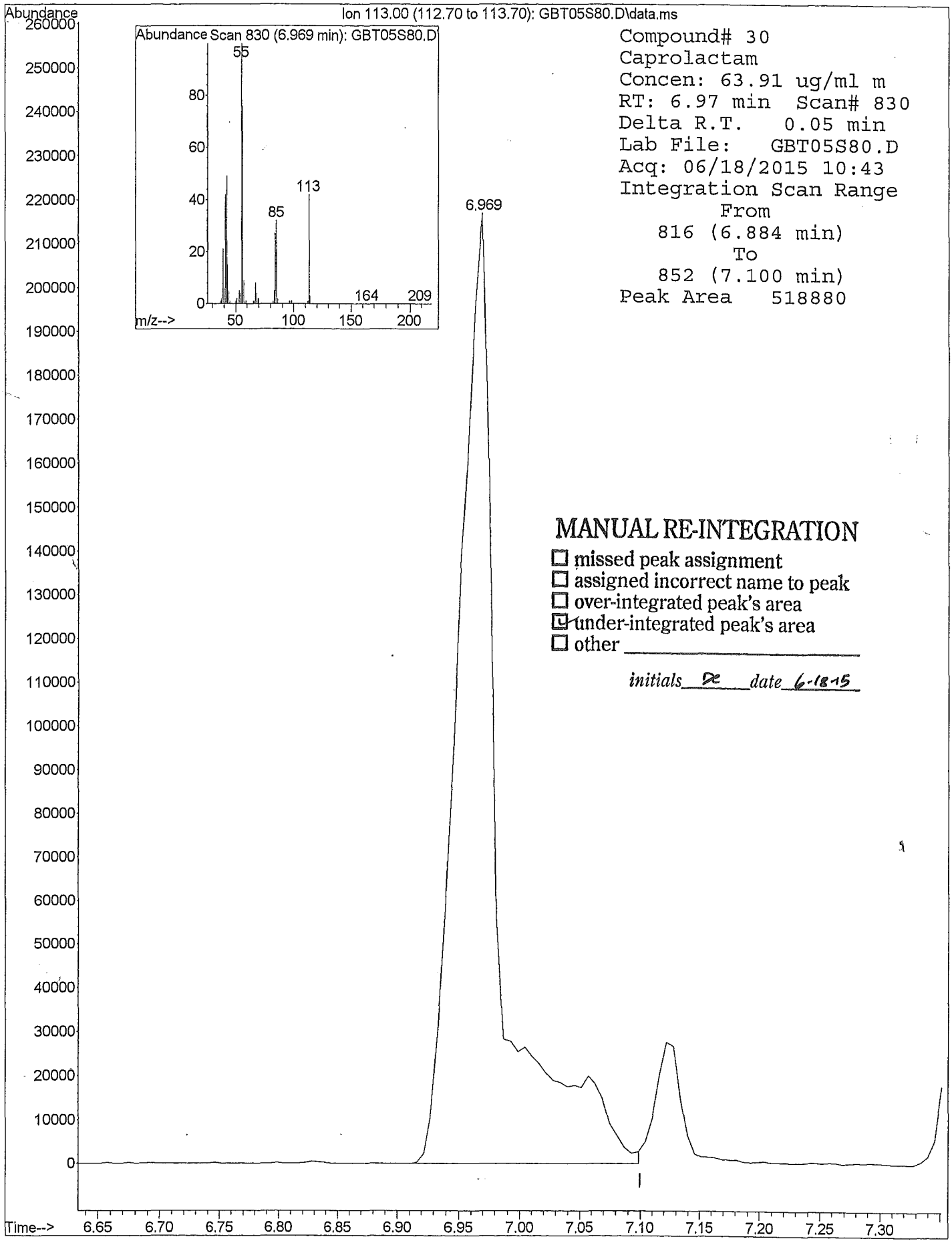
Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	6832673	53.295ug/ml	97
83) Benzo(b)fluoranthene	17.53	252	4844594	54.865ug/ml	96
84) Benzo(k)fluoranthene	17.59	252	4373857	51.083ug/ml	96
85) Benzo(a)pyrene	18.18	252	4451607	52.264ug/ml	95
87) Indeno(1,2,3-c,d)pyrene	21.06	276	4326280	51.815ug/ml	90
88) Dibenzo(a,h)anthracene	21.16	278	4236951	49.462ug/ml	95
89) Benzo(g,h,i)perylene	21.93	276	4177106	49.398ug/ml	94

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00167

M A N U A L I N T E G R A T I O N FOR Caprolactam



GSOM01D5.M 5975-G GSOM01D5.M SSTD080GT . X06/19/15

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-G Calibration Date: 06/18/2015 Time: 16:50

Lab File ID: GBU01S20 Init. Calib. Date(s): 06/18/2015 06/18/2015

EPA Sample No.(SSTD020##): SSTD020GU Init. Calib. Time(s): 08:29 10:43

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.799	0.887	0.010	11.0	40.0
Phenol	1.218	1.220	0.800	0.2	25.0
Bis(2-chloroethyl)ether	1.047	1.032	0.700	-1.4	25.0
2-Chlorophenol	0.911	0.917	0.800	0.7	25.0
2-Methylphenol	0.889	0.906	0.700	1.9	25.0
2,2'-Oxybis(1-chloropropane)	2.490	2.505	0.010	0.6	40.0
Acetophenone	1.323	1.373	0.010	3.8	40.0
4-Methylphenol	0.928	0.986	0.600	6.2	25.0
N-Nitroso-di-n-propylamine	0.685	0.715	0.500	4.5	25.0
Hexachloroethane	0.474	0.493	0.300	4.0	25.0
Nitrobenzene	0.297	0.306	0.200	3.0	25.0
Isophorone	0.523	0.526	0.400	0.5	25.0
2-Nitrophenol	0.137	0.133	0.100	-2.9	25.0
2,4-Dimethylphenol	0.253	0.248	0.200	-2.0	25.0
Bis(2-chloroethoxy)methane	0.309	0.318	0.300	3.1	25.0
2,4-Dichlorophenol	0.196	0.200	0.200	2.0	25.0
Naphthalene	0.687	0.706	0.700	2.8	25.0
4-Chloroaniline	0.221	0.193	0.010	-12.8	40.0
Hexachlorobutadiene	0.140	0.143	0.010	1.7	40.0
Caprolactam	0.076	0.077	0.010	1.8	40.0
4-Chloro-3-methylphenol	0.220	0.219	0.200	-0.5	25.0
2-Methylnaphthalene	0.427	0.437	0.400	2.4	25.0
Hexachlorocyclopentadiene	0.244	0.237	0.010	-2.8	40.0
2,4,6-Trichlorophenol	0.257	0.264	0.200	2.7	25.0
2,4,5-Trichlorophenol	0.266	0.277	0.200	4.3	25.0
1,1'-Biphenyl	0.898	0.927	0.010	3.2	40.0
2-Chloronaphthalene	0.742	0.766	0.800	3.3	25.0
2-Nitroaniline	0.302	0.310	0.010	2.8	40.0
Dimethylphthalate	0.826	0.849	0.010	2.8	40.0
2,6-Dinitrotoluene	0.190	0.198	0.200	4.1	25.0
Acenaphthylene	1.210	1.235	0.900	2.0	25.0
3-Nitroaniline	0.144	0.140	0.010	-3.1	40.0
Acenaphthene	0.727	0.751	0.900	3.3	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-G Calibration Date: 06/18/2015 Time: 16:50

Lab File ID: GBU01S20 Init. Calib. Date(s): 06/18/2015 06/18/2015

EPA Sample No.(SSTD020##): SSTD020GU Init. Calib. Time(s): 08:29 10:43

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.115	0.107	0.010	-6.8	40.0
4-Nitrophenol	0.120	0.119	0.010	-0.6	40.0
Dibenzofuran	0.935	0.958	0.800	2.5	25.0
2,4-Dinitrotoluene	0.254	0.259	0.200	2.0	25.0
Diethylphthalate	0.846	0.863	0.010	2.0	40.0
Fluorene	0.795	0.825	0.900	3.8	25.0
4-Chlorophenyl-phenylether	0.380	0.392	0.400	2.9	25.0
4-Nitroaniline	0.160	0.178	0.010	11.6	40.0
4,6-Dinitro-2-methylphenol	0.097	0.091	0.010	-5.7	40.0
N-Nitrosodiphenylamine (1)	0.354	0.366	0.010	3.3	40.0
1,2,4,5-Tetrachlorobenzene	0.352	0.367	0.010	4.2	40.0
4-Bromophenyl-phenylether	0.131	0.135	0.100	2.4	25.0
Hexachlorobenzene	0.144	0.146	0.100	1.3	25.0
Atrazine	0.138	0.142	0.010	3.0	40.0
Pentachlorophenol	0.085	0.082	0.050	-4.0	25.0
Phenanthrene	0.700	0.719	0.700	2.7	25.0
Anthracene	0.712	0.732	0.700	2.7	25.0
Carbazole	0.560	0.593	0.010	5.8	40.0
Di-n-butylphthalate	0.911	0.935	0.010	2.6	40.0
Fluoranthene	0.767	0.784	0.600	2.2	25.0
Pyrene	0.826	0.844	0.600	2.2	25.0
Butylbenzylphthalate	0.416	0.423	0.010	1.7	40.0
3,3'-Dichlorobenzidine	0.207	0.210	0.010	1.5	40.0
Benzo(a)anthracene	0.783	0.792	0.800	1.1	25.0
Chrysene	0.706	0.716	0.700	1.4	25.0
Bis(2-ethylhexyl)phthalate	0.603	0.620	0.010	2.8	40.0
Di-n-octylphthalate	1.211	1.231	0.010	1.6	40.0
Benzo(b)fluoranthene	0.814	0.813	0.700	-0.1	25.0
Benzo(k)fluoranthene	0.769	0.790	0.700	2.7	25.0
Benzo(a)pyrene	0.770	0.782	0.700	1.6	25.0
Indeno(1,2,3-cd)pyrene	0.694	0.700	0.500	0.9	25.0
Dibenzo(a,h)anthracene	0.701	0.698	0.400	-0.5	25.0
Benzo(g,h,i)perylene	0.695	0.691	0.500	-0.6	25.0
2,3,4,6-Tetrachlorophenol	0.209	0.214	0.100	2.1	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

Instrument ID: 5975-G Calibration Date: 06/18/2015 Time: 16:50

Lab File ID: GBU01S20 Init. Calib. Date(s): 06/18/2015 06/18/2015

EPA Sample No.(SSTD020##): SSTD020GU Init. Calib. Time(s): 08:29 10:43

GC Column: DB5MS ID: 0.32 (mm)

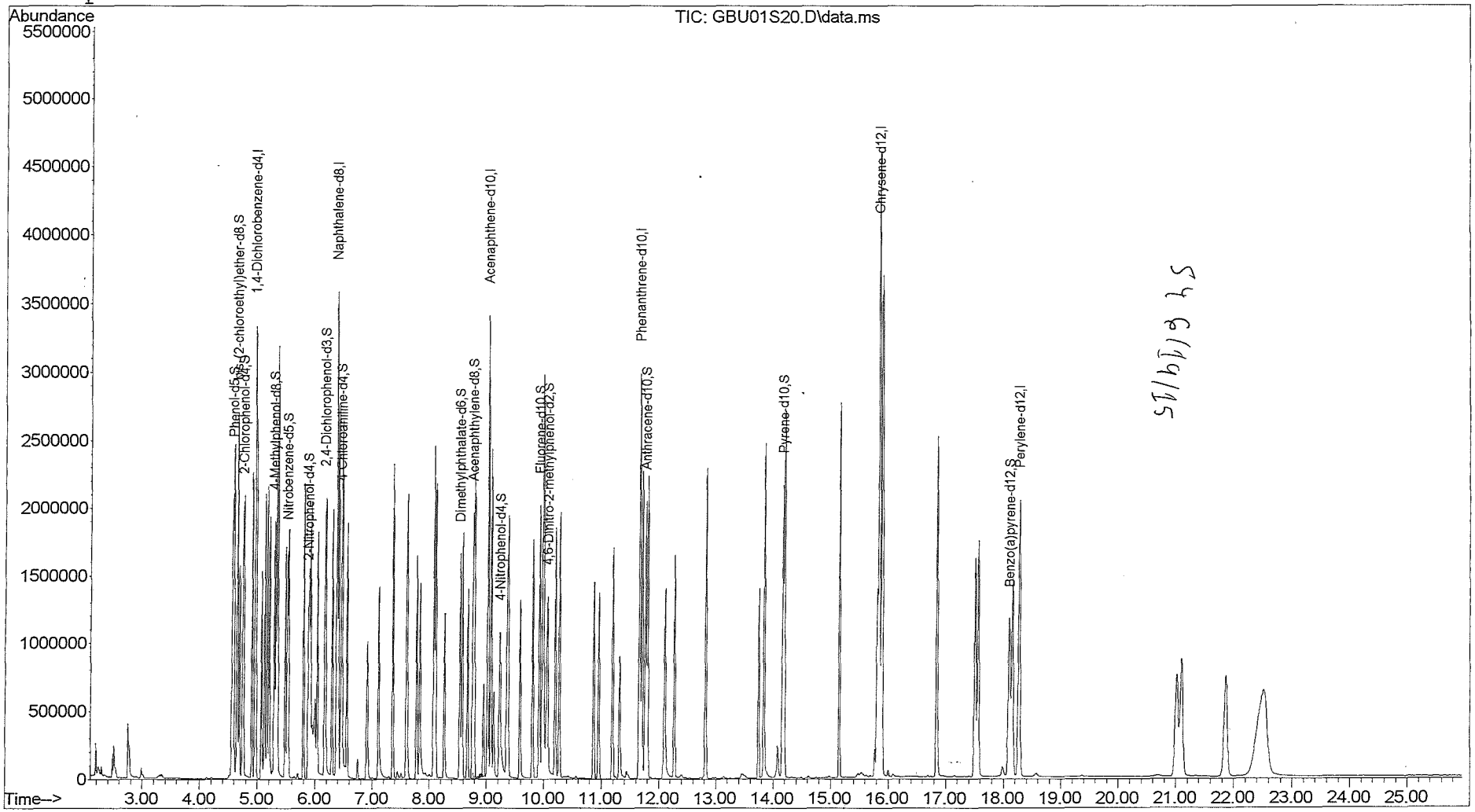
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.153	1.192	0.010	3.4	25.0
Bis(2-chloroethyl)ether-d8	0.893	0.919	0.010	2.9	25.0
2-Chlorophenol-d4	0.974	1.002	0.010	2.8	25.0
4-Methylphenol-d8	0.779	0.831	0.010	6.7	25.0
Nitrobenzene-d5	0.114	0.119	0.010	5.0	25.0
2-Nitrophenol-d4	0.123	0.126	0.010	2.4	25.0
2,4-Dichlorophenol-d3	0.189	0.199	0.010	5.1	25.0
4-Chloroaniline-d4	0.190	0.168	0.010	-11.7	40.0
Dimethylphthalate-d6	0.793	0.839	0.010	5.8	40.0
Acenaphthylene-d8	1.083	1.139	0.010	5.2	25.0
4-Nitrophenol-d4	0.155	0.162	0.010	5.1	40.0
Fluorene-d10	0.683	0.715	0.010	4.7	25.0
4,6-Dinitro-2-methylphenol-d2	0.084	0.083	0.010	-0.6	40.0
Anthracene-d10	0.665	0.694	0.010	4.2	25.0
Pyrene-d10	0.625	0.641	0.010	2.5	25.0
Benzo(a)pyrene-d12	0.594	0.619	0.010	4.1	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBU01S20.D Vial: 1
Acq On : 06/18/2015 16:50 Operator: TM
Sample : SSTD020GU DFTPPGU Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 17:16:54 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 17:22:21 2015
Response via : Initial Calibration



5y 6/19/15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBU01S20.D Vial: 1
Acq On : 06/18/2015 16:50 Operator: TM
Sample : SSTD020GU DFTPPGU Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 17:16:54 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 17:22:21 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	479673	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1863350	20.00 ug/ml
33) Acenaphthene-d10	9.03	164	1082706	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1806425	20.00 ug/ml
73) Chrysene-d12	15.84	240	1746099	20.00 ug/ml
81) Perylene-d12	18.27	264	1543890	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	571976	20.678ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	440656	20.583ug/mL
7) 2-Chlorophenol-d4	4.75	132	480412	20.560ug/ml
13) 4-Methylphenol-d8	5.29	113	398518	21.339ug/mL
17) Nitrobenzene-d5	5.52	128	222126	20.995ug/ml
21) 2-Nitrophenol-d4	5.88	143	234187	20.477ug/mL
25) 2,4-Dichlorophenol-d3	6.17	165	370796	21.024ug/mL
28) 4-Chloroaniline-d4	6.45	131	313248	17.667ug/mL
42) Dimethylphthalate-d6	8.54	166	907971	21.158ug/mL
45) Acenaphthylene-d8	8.76	160	1233615	21.036ug/mL
50) 4-Nitrophenol-d4	9.23	143	175806	21.019ug/mL
57) Fluorene-d10	9.92	176	774410	20.947ug/mL
61) 4,6-Dinitro-2-methylphenol	10.06	200	150119	19.874ug/mL
69) Anthracene-d10	11.76	188	1252788	20.846ug/mL
75) Pyrene-d10	14.16	212	1118876	20.504ug/mL
86) Benzo(a)pyrene-d12	18.10	264	955105	20.826ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	425590	22.203ug/ml	85
4) Phenol	4.59	94	585417	20.032ug/ml	80
5) Bis(2-chloroethyl)ether	4.69	93	495233	19.725ug/ml	89
8) 2-Chlorophenol	4.76	128	439885	20.142ug/ml	84
9) 2-Methylphenol	5.16	108	434461	20.386ug/ml	98
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	1201467	20.120ug/ml	100
11) Acetophenone	5.35	105	658751	20.757ug/ml	81
12) 4-methylphenol	5.32	108	472855	21.240ug/ml	99
14) N-Nitroso-di-n-propylamine	5.34	70	343203	20.897ug/ml	74
15) Hexachloroethane	5.48	117	236351	20.799ug/ml	99
18) Nitrobenzene	5.53	77	570208	20.607ug/ml	87
19) Isophorone	5.80	82	980603	20.107ug/ml	90
20) 2-Nitrophenol	5.90	139	247044	19.422ug/ml	65
22) 2,4-Dimethylphenol	5.92	107	461244	19.606ug/ml	83
23) Bis(2-chloroethoxy)methane	6.04	93	593144	20.612ug/ml	98
24) 2,4-Dichlorophenol	6.18	162	373348	20.399ug/ml	98
26) Naphthalene	6.40	128	1314991	20.552ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBU01S20.D Vial: 1
Acq On : 06/18/2015 16:50 Operator: TM
Sample : SSTD020GU DFTPPGU Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 17:16:54 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 17:22:21 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	359045	17.448ug/ml	87
29)	Hexachlorobutadiene	6.56	225	266013	20.335ug/ml	99
30)	Caprolactam	6.92	113	143769	20.354ug/ml	39
31)	4-Chloro-3-methylphenol	7.11	107	408388	19.898ug/ml	92
32)	2-Methylnaphthalene	7.36	142	813999	20.470ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	397670	20.846ug/mL	98
35)	Hexachlorocyclopentadiene	7.60	237	256964	19.435ug/ml	99
36)	2,4,6-Trichlorophenol	7.78	196	285438	20.533ug/ml	99
37)	2,4,5-Trichlorophenol	7.84	196	299857	20.862ug/ml	98
38)	1,1'-Biphenyl	8.08	154	1003960	20.649ug/ml	98
39)	2-Chloronaphthalene	8.11	162	829643	20.661ug/ml	96
40)	2-Nitroaniline	8.27	65	335848	20.560ug/ml	77
41)	Dimethylphthalate	8.58	163	918889	20.553ug/ml	100
43)	2,6-Dinitrotoluene	8.67	165	214456	20.827ug/ml	92
44)	Acenaphthylene	8.79	152	1336640	20.410ug/ml	99
46)	3-Nitroaniline	8.95	138	151238	19.374ug/ml	87
47)	Acenaphthene	9.08	153	813172	20.661ug/ml	94
48)	2,4-Dinitrophenol	9.13	184	115874	18.639ug/ml	100
49)	4-Nitrophenol	9.24	109	129110	19.884ug/ml	82
51)	Dibenzofuran	9.38	168	1037225	20.490ug/ml	96
52)	2,4-Dinitrotoluene	9.36	165	280760	20.409ug/ml	46
53)	2,3,4,6-Tetrachlorophenol	9.59	232	231346	20.415ug/mL	98
54)	Diethylphthalate	9.80	149	934474	20.393ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	423928	20.587ug/ml	98
56)	Fluorene	9.97	166	893483	20.757ug/ml	97
58)	4-Nitroaniline	10.00	138	192825	22.314ug/ml	71
60)	4,6-Dinitro-2-methylphenol	10.07	198	164991	18.860ug/ml	91
62)	N-Nitrosodiphenylamine	10.20	169	660942	20.662ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.87	248	243354	20.490ug/ml	97
64)	Hexachlorobenzene	10.95	284	264153	20.258ug/ml	89
65)	Atrazine	11.19	200	256853	20.592ug/ml	99
66)	Pentachlorophenol	11.32	266	147995	19.198ug/ml	97
67)	Phenanthrene	11.70	178	1298315	20.539ug/ml	100
68)	Anthracene	11.80	178	1321996	20.543ug/ml	99
70)	Carbazole	12.10	167	1071322	21.162ug/mL	99
71)	Di-n-butylphthalate	12.82	149	1688822	20.519ug/ml	100
72)	Fluoranthene	13.84	202	1415685	20.445ug/ml	97
74)	Pyrene	14.19	202	1473522	20.443ug/ml	98
76)	Butylbenzylphthalate	15.15	149	739193	20.337ug/ml	91
77)	3,3'-Dichlorobenzidine	15.80	252	366728	20.308ug/ml	99
78)	Benzo(a)anthracene	15.83	228	1382528	20.224ug/ml	98
79)	Chrysene	15.87	228	1250464	20.286ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1082555	20.564ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBU01S20.D Vial: 1
Acq On : 06/18/2015 16:50 Operator: TM
Sample : SSTD020GU DFTPPGU Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 17:16:54 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 17:22:21 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	1900427	20.328ug/ml	97
83) Benzo(b)fluoranthene	17.51	252	1255796	19.981ug/ml	96
84) Benzo(k)fluoranthene	17.56	252	1219045	20.540ug/ml	96
85) Benzo(a)pyrene	18.16	252	1207268	20.311ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	21.01	276	1081133	20.177ug/ml	91
88) Dibenzo(a,h)anthracene	21.10	278	1076900	19.902ug/ml	96
89) Benzo(g,h,i)perylene	21.87	276	1066657	19.872ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-G Calibration Date: 06/18/2015 Time: 19:42

Lab File ID: GBU06S20 Init. Calib. Date(s): 06/18/2015 06/18/2015

EPA Sample No.(SSTD020##): SSTD020U1 Init. Calib. Time(s): 08:29 10:43

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.799	0.845	0.010	5.8	50.0
Phenol	1.218	1.215	0.010	-0.3	50.0
Bis(2-chloroethyl)ether	1.047	1.023	0.010	-2.3	50.0
2-Chlorophenol	0.911	0.897	0.010	-1.5	50.0
2-Methylphenol	0.889	0.880	0.010	-0.9	50.0
2,2'-Oxybis(1-chloropropane)	2.490	2.503	0.010	0.5	50.0
Acetophenone	1.323	1.332	0.010	0.7	50.0
4-Methylphenol	0.928	0.946	0.010	1.9	50.0
N-Nitroso-di-n-propylamine	0.685	0.693	0.010	1.2	50.0
Hexachloroethane	0.474	0.476	0.010	0.5	50.0
Nitrobenzene	0.297	0.306	0.010	3.0	50.0
Isophorone	0.523	0.541	0.010	3.3	50.0
2-Nitrophenol	0.137	0.133	0.010	-2.9	50.0
2,4-Dimethylphenol	0.253	0.247	0.010	-2.0	50.0
Bis(2-chloroethoxy)methane	0.309	0.319	0.010	3.1	50.0
2,4-Dichlorophenol	0.196	0.201	0.010	2.5	50.0
Naphthalene	0.687	0.701	0.010	2.1	50.0
4-Chloroaniline	0.221	0.257	0.010	16.3	50.0
Hexachlorobutadiene	0.140	0.143	0.010	1.6	50.0
Caprolactam	0.076	0.079	0.010	4.8	50.0
4-Chloro-3-methylphenol	0.220	0.223	0.010	1.4	50.0
2-Methylnaphthalene	0.427	0.439	0.010	2.9	50.0
Hexachlorocyclopentadiene	0.244	0.222	0.010	-8.9	50.0
2,4,6-Trichlorophenol	0.257	0.258	0.010	0.6	50.0
2,4,5-Trichlorophenol	0.266	0.280	0.010	5.4	50.0
1,1'-Biphenyl	0.898	0.924	0.010	2.8	50.0
2-Chloronaphthalene	0.742	0.762	0.010	2.7	50.0
2-Nitroaniline	0.302	0.311	0.010	3.0	50.0
Dimethylphthalate	0.826	0.846	0.010	2.4	50.0
2,6-Dinitrotoluene	0.190	0.195	0.010	2.5	50.0
Acenaphthylene	1.210	1.235	0.010	2.1	50.0
3-Nitroaniline	0.144	0.196	0.010	36.0	50.0
Acenaphthene	0.727	0.744	0.010	2.3	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-G Calibration Date: 06/18/2015 Time: 19:42

Lab File ID: GBU06S20 Init. Calib. Date(s): 06/18/2015 06/18/2015

EPA Sample No.(SSTD020##): SSTD020U1 Init. Calib. Time(s): 08:29 10:43

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.115	0.105	0.010	-8.8	50.0
4-Nitrophenol	0.120	0.120	0.010	0.0	50.0
Dibenzofuran	0.935	0.960	0.010	2.7	50.0
2,4-Dinitrotoluene	0.254	0.262	0.010	3.0	50.0
Diethylphthalate	0.846	0.865	0.010	2.2	50.0
Fluorene	0.795	0.825	0.010	3.7	50.0
4-Chlorophenyl-phenylether	0.380	0.396	0.010	4.1	50.0
4-Nitroaniline	0.160	0.191	0.010	19.9	50.0
4,6-Dinitro-2-methylphenol	0.097	0.093	0.010	-4.3	50.0
N-Nitrosodiphenylamine (1)	0.354	0.373	0.010	5.2	50.0
1,2,4,5-Tetrachlorobenzene	0.352	0.359	0.010	2.0	50.0
4-Bromophenyl-phenylether	0.131	0.135	0.010	2.8	50.0
Hexachlorobenzene	0.144	0.147	0.010	2.1	50.0
Atrazine	0.138	0.146	0.010	5.6	50.0
Pentachlorophenol	0.085	0.084	0.010	-1.9	50.0
Phenanthrene	0.700	0.719	0.010	2.7	50.0
Anthracene	0.712	0.736	0.010	3.3	50.0
Carbazole	0.560	0.623	0.010	11.1	50.0
Di-n-butylphthalate	0.911	0.939	0.010	3.1	50.0
Fluoranthene	0.767	0.791	0.010	3.2	50.0
Pyrene	0.826	0.829	0.010	0.4	50.0
Butylbenzylphthalate	0.416	0.428	0.010	2.9	50.0
3,3'-Dichlorobenzidine	0.207	0.236	0.010	14.2	50.0
Benzo(a)anthracene	0.783	0.794	0.010	1.4	50.0
Chrysene	0.706	0.720	0.010	2.0	50.0
Bis(2-ethylhexyl)phthalate	0.603	0.625	0.010	3.7	50.0
Di-n-octylphthalate	1.211	1.236	0.010	2.1	50.0
Benzo(b)fluoranthene	0.814	0.823	0.010	1.1	50.0
Benzo(k)fluoranthene	0.769	0.784	0.010	2.0	50.0
Benzo(a)pyrene	0.770	0.788	0.010	2.3	50.0
Indeno(1,2,3-cd)pyrene	0.694	0.677	0.010	-2.4	50.0
Dibenzo(a,h)anthracene	0.701	0.692	0.010	-1.3	50.0
Benzo(g,h,i)perylene	0.695	0.687	0.010	-1.2	50.0
2,3,4,6-Tetrachlorophenol	0.209	0.210	0.010	0.1	50.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-G Calibration Date: 06/18/2015 Time: 19:42

Lab File ID: GBU06S20 Init. Calib. Date(s): 06/18/2015 06/18/2015

EPA Sample No.(SSTD020##): SSTD020U1 Init. Calib. Time(s): 08:29 10:43

GC Column: DB5MS ID: 0.32 (mm)

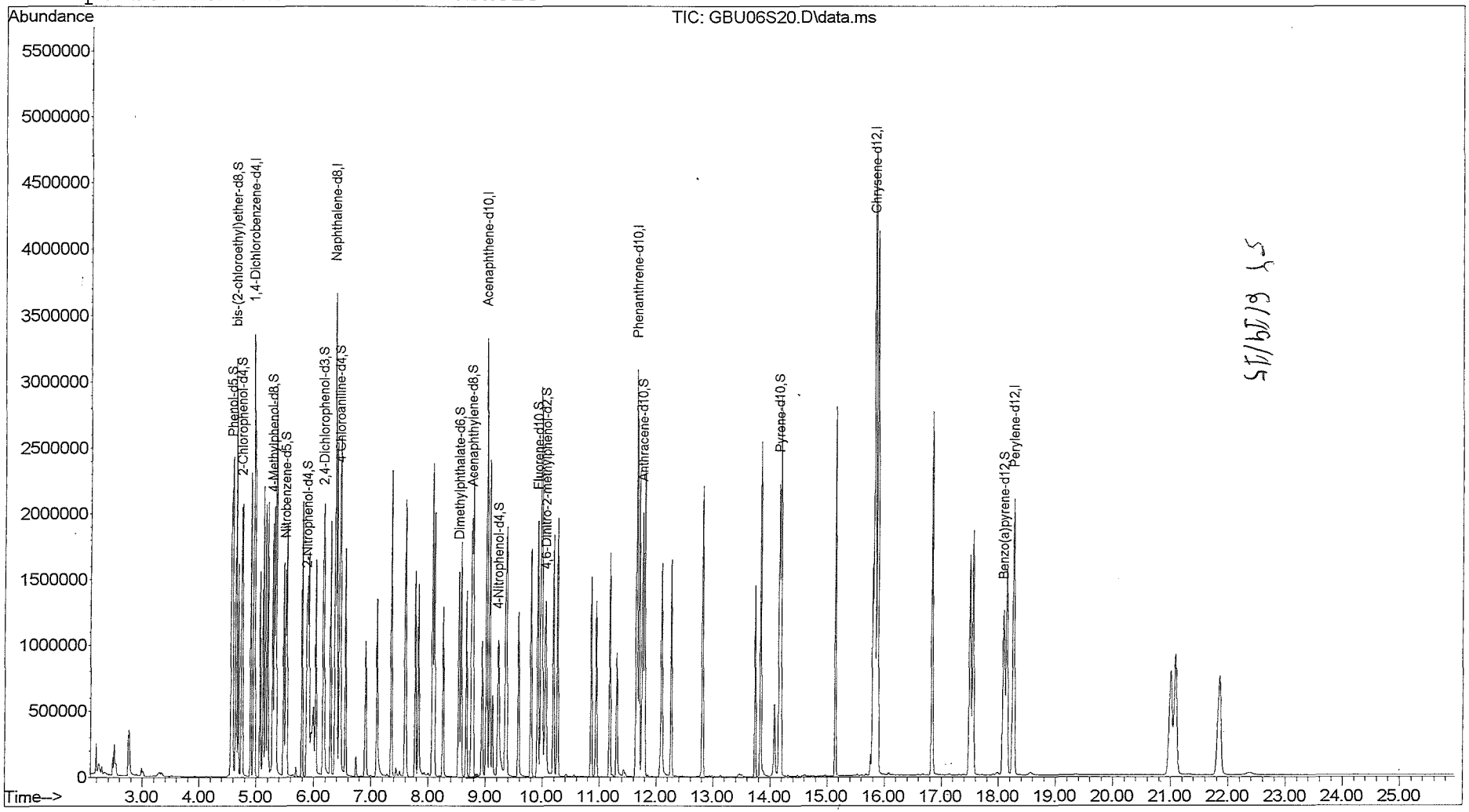
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.153	1.186	0.010	2.8	50.0
Bis(2-chloroethyl)ether-d8	0.893	0.910	0.010	1.9	50.0
2-Chlorophenol-d4	0.974	1.011	0.010	3.8	50.0
4-Methylphenol-d8	0.779	0.802	0.010	3.0	50.0
Nitrobenzene-d5	0.114	0.118	0.010	4.2	50.0
2-Nitrophenol-d4	0.123	0.124	0.010	1.3	50.0
2,4-Dichlorophenol-d3	0.189	0.198	0.010	4.6	50.0
4-Chloroaniline-d4	0.190	0.225	0.010	18.4	50.0
Dimethylphthalate-d6	0.793	0.830	0.010	4.7	50.0
Acenaphthylene-d8	1.083	1.142	0.010	5.4	50.0
4-Nitrophenol-d4	0.155	0.163	0.010	5.7	50.0
Fluorene-d10	0.683	0.716	0.010	4.8	50.0
4,6-Dinitro-2-methylphenol-d2	0.084	0.083	0.010	-1.1	50.0
Anthracene-d10	0.665	0.694	0.010	4.3	50.0
Pyrene-d10	0.625	0.631	0.010	1.0	50.0
Benzo(a)pyrene-d12	0.594	0.611	0.010	2.9	50.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBU06S20.D Vial: 1
Acq On : 06/18/2015 19:42 Operator: TM
Sample : SSTD020U1 DFTPPU1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 20:08:46 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri Jun 19 08:08:27 2015
Response via : Initial Calibration



GBU06S20.D GSOM01D5.M Fri Jun 19 08:08:52 2015 Page 4

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBU06S20.D Vial: 1
Acq On : 06/18/2015 19:42 Operator: TM
Sample : SSTD020U1 DFTPPU1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 20:08:46 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri Jun 19 08:08:27 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	485427	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1823846	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	1077292	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1805866	20.00 ug/ml
73) Chrysene-d12	15.84	240	1814362	20.00 ug/ml
81) Perylene-d12	18.26	264	1616448	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	575539	20.560ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	441586	20.382ug/mL
7) 2-Chlorophenol-d4	4.75	132	490774	20.754ug/ml
13) 4-Methylphenol-d8	5.29	113	389484	20.608ug/mL
17) Nitrobenzene-d5	5.52	128	215817	20.841ug/ml
21) 2-Nitrophenol-d4	5.87	143	226880	20.268ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	361021	20.913ug/mL
28) 4-Chloroaniline-d4	6.45	131	410816	23.672ug/mL
42) Dimethylphthalate-d6	8.54	166	894305	20.944ug/mL
45) Acenaphthylene-d8	8.76	160	1230596	21.090ug/mL
50) 4-Nitrophenol-d4	9.22	143	176006	21.148ug/mL
57) Fluorene-d10	9.92	176	771073	20.962ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	149407	19.786ug/mL
69) Anthracene-d10	11.76	188	1253525	20.864ug/mL
75) Pyrene-d10	14.16	212	1145061	20.194ug/mL
86) Benzo(a)pyrene-d12	18.09	264	987781	20.572ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	410405	21.157ug/ml 87
4) Phenol	4.59	94	589558	19.935ug/ml 81
5) Bis(2-chloroethyl)ether	4.69	93	496671	19.548ug/ml 89
8) 2-Chlorophenol	4.76	128	435548	19.707ug/ml 82
9) 2-Methylphenol	5.16	108	427366	19.815ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	1214991	20.105ug/ml 100
11) Acetophenone	5.35	105	646821	20.140ug/ml 81
12) 4-methylphenol	5.32	108	459340	20.389ug/ml 100
14) N-Nitroso-di-n-propylamine	5.33	70	336532	20.248ug/ml 74
15) Hexachloroethane	5.48	117	231049	20.091ug/ml 98
18) Nitrobenzene	5.53	77	558129	20.608ug/ml 87
19) Isophorone	5.80	82	986273	20.662ug/ml 90
20) 2-Nitrophenol	5.89	139	241862	19.426ug/ml 64
22) 2,4-Dimethylphenol	5.92	107	451357	19.601ug/ml 81
23) Bis(2-chloroethoxy)methane	6.04	93	580979	20.627ug/ml 97
24) 2,4-Dichlorophenol	6.18	162	367220	20.498ug/ml 97
26) Naphthalene	6.40	128	1278865	20.420ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBU06S20.D Vial: 1
Acq On : 06/18/2015 19:42 Operator: TM
Sample : SSTD020U1 DFTPPU1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 20:08:46 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri Jun 19 08:08:27 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	468669	23.268ug/ml	90
29)	Hexachlorobutadiene	6.56	225	260098	20.313ug/ml	99
30)	Caprolactam	6.91	113	144956	20.966ug/ml	39
31)	4-Chloro-3-methylphenol	7.11	107	407429	20.282ug/ml	91
32)	2-Methylnaphthalene	7.36	142	800969	20.579ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	387215	20.400ug/mL	98
35)	Hexachlorocyclopentadiene	7.59	237	239597	18.212ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	278268	20.118ug/ml	100
37)	2,4,5-Trichlorophenol	7.83	196	301380	21.073ug/ml	98
38)	1,1'-Biphenyl	8.07	154	995081	20.569ug/ml	99
39)	2-Chloronaphthalene	8.11	162	820930	20.546ug/ml	96
40)	2-Nitroaniline	8.26	65	334963	20.609ug/ml	77
41)	Dimethylphthalate	8.57	163	910944	20.477ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	210055	20.502ug/ml	92
44)	Acenaphthylene	8.78	152	1330866	20.424ug/ml	99
46)	3-Nitroaniline	8.95	138	211344	27.210ug/ml	87
47)	Acenaphthene	9.07	153	801105	20.457ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	112876	18.248ug/ml	100
49)	4-Nitrophenol	9.23	109	129264	20.008ug/ml	80
51)	Dibenzofuran	9.37	168	1034432	20.538ug/ml	97
52)	2,4-Dinitrotoluene	9.35	165	281984	20.601ug/ml	46
53)	2,3,4,6-Tetrachlorophenol	9.59	232	225703	20.017ug/mL	98
54)	Diethylphthalate	9.80	149	931941	20.440ug/ml	96
55)	4-Chlorophenyl-phenylether	9.99	204	426391	20.811ug/ml	98
56)	Fluorene	9.97	166	888424	20.743ug/ml	97
58)	4-Nitroaniline	10.00	138	206112	23.972ug/ml	86
60)	4,6-Dinitro-2-methylphenol	10.06	198	167315	19.132ug/ml	91
62)	N-Nitrosodiphenylamine	10.19	169	672697	21.036ug/ml	93
63)	4-Bromophenyl-phenyl ether	10.86	248	244023	20.553ug/ml	98
64)	Hexachlorobenzene	10.95	284	266215	20.422ug/ml	88
65)	Atrazine	11.19	200	263354	21.119ug/ml	98
66)	Pentachlorophenol	11.31	266	151274	19.629ug/ml	98
67)	Phenanthrene	11.70	178	1298011	20.541ug/ml	99
68)	Anthracene	11.79	178	1328991	20.658ug/ml	99
70)	Carbazole	12.10	167	1124194	22.213ug/mL	99
71)	Di-n-butylphthalate	12.82	149	1696430	20.618ug/ml	100
72)	Fluoranthene	13.83	202	1428341	20.635ug/ml	98
74)	Pyrene	14.19	202	1503534	20.075ug/ml	98
76)	Butylbenzylphthalate	15.14	149	777025	20.574ug/ml	92
77)	3,3'-Dichlorobenzidine	15.80	252	428441	22.832ug/ml	98
78)	Benzo(a)anthracene	15.82	228	1440866	20.285ug/ml	99
79)	Chrysene	15.87	228	1307068	20.406ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1133988	20.731ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00191

Quantitation Report

Data File : C:\msdchem\1\data\20...15\18JUN15\GBU06S20.D Vial: 1
Acq On : 06/18/2015 19:42 Operator: TM
Sample : SSTD020U1 DFTPPU1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 20:08:46 2015 Results File: GSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri Jun 19 08:08:27 2015
Response via : Initial Calibration

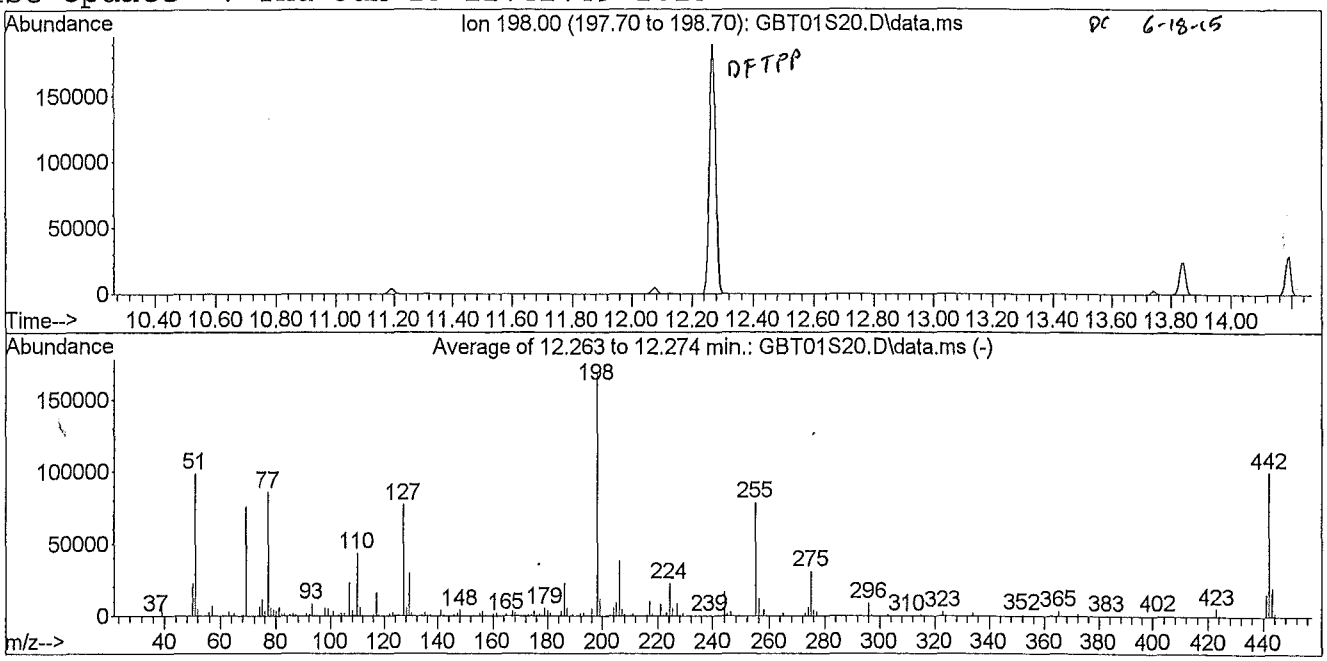
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	1998473	20.417ug/ml	97
83) Benzo(b)fluoranthene	17.50	252	1330675	20.222ug/ml	96
84) Benzo(k)fluoranthene	17.55	252	1267764	20.402ug/ml	97
85) Benzo(a)pyrene	18.14	252	1273119	20.457ug/ml	95
87) Indeno(1,2,3-c,d)pyrene	21.00	276	1094813	19.515ug/ml	91
88) Dibenzo(a,h)anthracene	21.09	278	1118763	19.748ug/ml	96
89) Benzo(g,h,i)perylene	21.86	276	1110758	19.765ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Data Path : C:\msdchem\1\data\2015\JUN15\18JUN15\
Data File : GBT01S20.D
Acq On : 06/18/2015 08:29
Operator : TM
Sample : SSTD020GT DFTPPGT
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D5.M
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015



Average of Scans 1730, 1731, 1732; Background corrected with Scan 1719

Spectrum Information: Average of 12.263 to 12.274 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.1	98597	PASS
68	69	0.00	2	1.4	1087	PASS
69	198	0.00	100	44.8	75884	PASS
70	69	0.00	2	0.1	64	PASS
127	198	10	80	45.6	77307	PASS
197	198	0.00	2	0.3	435	PASS
198	198	100	100	100.0	169557	PASS
199	198	5	9	6.7	11422	PASS
275	198	10	60	18.3	31037	PASS
365	198	1	100	2.0	3346	PASS
441	443	0.01	100	79.9	15270	PASS
442	198	50	100	59.0	99968	PASS
443	442	15	24	19.1	19107	PASS

Average of 12.263 to 12.274 min.: GBT01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	67	52.00	5025	65.00	1866	78.00	5681
36.95	332	53.05	287	66.00	96	79.00	4435
37.95	668	54.90	199	67.10	160	80.00	3928
39.00	6234	55.10	76	68.05	1087	81.00	5868
39.95	281	55.95	2521	69.00	75884	82.00	1497
40.95	146	57.00	6711	70.10	64	83.00	1573
43.95	34	57.95	352	72.95	397	84.00	210
44.80	76	60.90	827	73.95	6573	84.95	996
48.90	446	62.00	770	75.00	11192	86.05	1451
50.00	22438	62.95	2899	76.00	3720	87.05	833
50.95	98597	63.95	534	77.05	85900	87.95	167

Average of 12.263 to 12.274 min.: GBT01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.95	297	99.90	290	110.00	43432	124.00	1004
90.95	1268	100.10	125	111.00	6090	125.05	1029
92.05	1283	101.00	3250	112.00	798	125.80	104
93.00	8079	102.00	205	116.00	1150	126.10	259
93.95	544	102.95	865	117.00	16296	127.05	77307
94.90	317	104.00	1889	118.05	1247	128.05	5547
95.95	457	105.00	2000	118.90	126	129.00	29387
96.70	76	106.00	734	119.90	223	130.00	2262
97.10	291	107.00	22941	121.00	57	130.95	465
98.00	5571	108.00	3541	122.00	1338	131.95	288
99.00	5144	109.05	928	123.05	2151	132.80	58

Average of 12.263 to 12.274 min.: GBT01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
133.00	64	145.95	756	155.05	1794	164.95	1227
134.00	905	147.05	1935	156.05	3237	166.00	144
135.05	2055	148.00	3841	157.05	790	167.10	3229
136.00	1070	149.00	804	157.95	623	168.05	2083
137.05	1167	150.10	194	159.00	402	169.10	791
137.85	78	151.00	271	159.20	130	170.00	262
141.05	3583	151.20	256	160.05	1226	171.00	457
141.95	1139	151.90	281	161.05	1833	171.95	740
143.00	823	153.00	1061	162.00	531	172.95	889
143.95	267	153.90	222	163.00	58	174.00	1662
145.05	213	154.10	657	164.00	130	175.05	3080

Average of 12.263 to 12.274 min.: GBT01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.00	999	185.00	3102	195.10	317	204.05	5745
177.10	1253	186.10	22333	196.00	4928	205.05	9039
177.95	579	187.05	5437	196.70	435	206.10	38168
179.00	5336	188.00	593	197.00	417	207.00	4805
180.00	3695	189.00	1094	198.00	169557	208.05	1386
181.00	1919	189.90	173	199.00	11422	208.95	527
181.80	65	191.00	549	200.00	658	210.25	413
181.95	233	191.95	1552	200.80	74	210.95	1456
183.10	77	193.05	1868	201.55	732	211.75	213
183.70	108	194.00	466	202.05	304	213.90	51
183.95	326	194.80	118	203.00	1188	215.05	477

Average of 12.263 to 12.274 min.: GBT01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
216.00	947	227.00	8614	238.95	439	250.10	53
217.00	10003	228.00	1286	239.95	194	250.90	186
218.00	1380	229.00	1863	241.05	391	252.05	324
218.95	127	230.00	149	242.00	1156	253.15	433
219.90	83	231.00	834	242.95	1067	254.00	540
221.05	8234	232.05	274	244.10	16400	255.00	78453
221.90	1084	232.95	167	245.05	1988	256.05	11645
223.00	2413	234.00	502	246.05	2850	257.00	947
224.10	22275	235.00	739	247.05	705	258.00	4093
225.05	5522	235.95	358	247.95	234	258.95	664
226.00	562	236.95	801	249.00	687	259.90	54

Average of 12.263 to 12.274 min.: GBT01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
263.70	65	274.00	5740	293.80	122	310.00	55
263.90	61	275.05	31037	294.00	65	313.80	125
265.00	1690	276.00	4061	295.10	144	314.05	249
266.00	257	277.05	2856	296.00	8607	314.95	1012
270.05	138	277.90	369	296.95	1091	316.05	543
270.60	84	281.10	52	298.00	51	320.90	243
271.10	126	282.95	295	300.90	54	321.10	110
271.50	52	283.95	309	302.00	145	322.00	159
271.85	121	285.00	541	302.95	916	323.05	2862
272.10	80	292.00	144	304.00	286	323.95	556
273.00	2039	293.00	489	308.00	61	326.95	448

Average of 12.263 to 12.274 min.: GBT01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

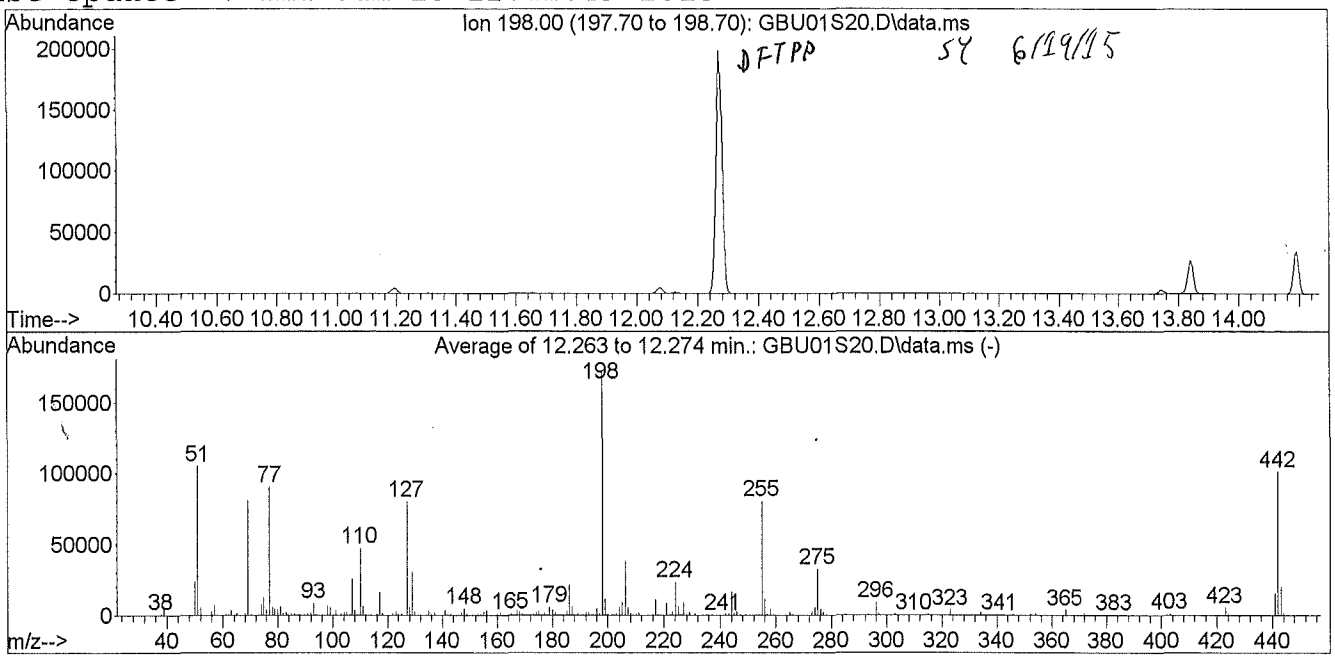
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
327.90	240	354.00	757	390.00	59	433.90	52
331.90	126	355.00	124	390.90	68	435.00	85
333.00	234	365.05	3346	391.10	66	435.50	68
334.05	1757	365.80	161	401.95	743	435.70	178
334.95	388	365.95	417	402.95	691	436.70	50
335.90	65	371.00	169	404.00	322	437.50	68
341.05	281	372.05	1548	420.95	781	441.05	15270
342.10	63	372.95	252	422.00	814	442.00	99968
346.00	336	373.20	149	423.00	5287	443.10	19107
352.05	950	383.00	396	423.95	958	444.00	1823
353.05	608	384.00	50	432.10	54		

DFTPP

Data Path : C:\msdchem\1\data\2015\JUN15\18JUN15\
Data File : GBU01S20.D
Acq On : 06/18/2015 16:50
Operator : TM
Sample : SSTD020GU DFTPPGU
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D5.M
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015



Average of scans 1730, 1731, 1732 Background corrected with scan 1718

Spectrum Information: Average of 12.263 to 12.274 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	60.9	105036	PASS
68	69	0.00	2	1.5	1188	PASS
69	198	0.00	100	46.8	80765	PASS
70	69	0.00	2	0.6	459	PASS
127	198	10	80	46.4	80037	PASS
197	198	0.00	2	0.6	996	PASS
198	198	100	100	100.0	172565	PASS
199	198	5	9	6.6	11449	PASS
275	198	10	60	18.7	32355	PASS
365	198	1	100	2.0	3522	PASS
441	443	0.01	100	78.4	15301	PASS
442	198	50	100	58.7	101293	PASS
443	442	15	24	19.3	19509	PASS

Average of 12.263 to 12.274 min.: GBU01S20.D\data.ms
SSTD020GU DFTPPGU
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	59	52.00	5268	63.00	3199	73.00	441
37.05	296	53.00	166	64.00	577	74.00	7121
38.00	744	53.20	76	65.05	1558	74.95	12114
39.00	6158	54.90	297	66.00	59	76.00	4109
40.00	211	56.00	2798	67.00	62	77.05	90295
41.05	296	57.00	6831	67.20	50	78.10	5818
44.95	276	58.05	356	68.05	1188	79.00	4973
48.95	375	59.10	54	69.00	80765	80.00	3681
49.20	121	60.00	58	70.10	459	81.00	6153
50.00	24148	61.00	1038	70.85	121	82.00	1563
51.00	105036	62.00	1012	71.10	83	83.00	1714

Average of 12.263 to 12.274 min.: GBU01S20.D\data.ms
SSTD020GU DFTPPGU
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.75	364	96.00	490	103.95	1993	112.95	63
84.95	1134	97.00	122	105.00	2003	113.90	59
86.00	1166	97.20	94	105.90	133	114.95	81
87.00	699	98.00	6474	106.10	426	116.00	977
87.95	435	99.00	5457	107.00	25659	117.00	15757
89.10	56	99.90	150	108.00	3741	117.95	1290
91.00	1316	100.05	434	108.80	138	118.80	75
91.95	1357	101.00	3298	108.95	454	119.90	251
93.00	8315	101.80	109	110.00	47149	120.10	107
93.95	731	102.00	251	111.00	6553	121.95	1281
94.95	192	103.00	994	111.95	783	123.00	2071

Average of 12.263 to 12.274 min.: GBU01S20.D\data.ms
SSTD020GU DFTPPGU
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.00	1136	134.05	735	144.80	56	152.95	1083
125.00	1033	135.00	2726	144.95	181	154.00	915
125.90	138	136.00	876	146.05	733	155.05	2330
126.15	280	137.00	1355	147.00	2018	156.05	3267
127.05	80037	137.80	80	148.00	4574	157.05	733
128.00	6179	138.05	82	148.95	934	157.95	822
129.00	30197	140.00	273	149.80	94	158.80	156
130.00	2670	141.05	3250	150.10	320	159.00	385
131.05	580	142.00	1219	150.95	328	160.00	1123
132.05	353	143.05	796	151.60	346	161.05	1823
133.10	68	143.90	255	152.20	69	162.05	491

Average of 12.263 to 12.274 min.: GBU01S20.D\data.ms
SSTD020GU DFTPPGU
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
163.05	184	172.00	719	182.05	263	193.05	2110
164.00	181	173.05	945	183.95	710	194.05	575
165.00	1109	174.05	1844	185.05	2673	194.85	277
166.05	512	175.05	3015	186.05	21096	195.10	136
167.10	3384	176.10	679	187.05	6184	196.05	4790
168.05	2388	177.05	1486	188.00	673	197.00	996
169.00	797	178.05	574	189.00	978	198.00	172565
169.85	262	179.00	5819	189.80	75	199.00	11449
170.30	56	180.00	3871	190.05	135	199.95	883
170.70	104	181.05	1933	190.95	561	200.90	75
171.05	401	181.90	71	192.05	1635	201.40	163

Average of 12.263 to 12.274 min.: GBU01S20.D\data.ms
SSTD020GU DFTPPGU
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
201.55	493	211.60	190	223.05	2202	233.95	459
202.00	109	212.00	67	224.10	23373	234.80	79
203.00	1053	213.90	50	225.10	5882	235.05	556
204.05	5483	215.00	390	226.05	620	235.95	491
205.05	8968	216.00	864	227.00	8555	237.00	802
206.10	38021	217.00	10682	228.00	1300	238.70	56
207.05	5552	218.00	1300	228.95	1851	239.05	293
208.00	1252	219.05	165	229.90	154	239.95	267
209.00	427	219.80	57	231.05	793	240.90	136
210.05	734	221.00	8307	232.00	102	241.05	355
211.05	1387	222.00	807	233.00	158	242.05	1133

Average of 12.263 to 12.274 min.: GBU01S20.D\data.ms
SSTD020GU DFTPPGU
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
243.05	1055	252.00	391	263.80	62	276.05	4170
244.10	16461	252.70	79	265.05	1851	277.00	2531
245.05	2118	253.05	500	265.95	295	278.00	395
245.95	2513	253.95	559	268.10	81	282.95	312
247.00	631	255.00	80413	270.00	54	283.95	267
248.00	122	256.05	11237	271.00	84	285.05	557
248.80	257	257.00	869	271.80	146	290.05	114
249.05	470	258.00	4477	272.15	232	292.90	163
249.80	120	258.90	175	272.95	2222	293.05	414
250.95	190	259.05	535	274.05	5483	293.90	90
251.20	61	259.95	110	275.05	32355	295.05	126

Average of 12.263 to 12.274 min.: GBU01S20.D\data.ms
SSTD020GU DFTPPGU
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
296.05	8692	314.00	357	332.95	290	355.10	213
297.00	1431	314.95	987	334.05	1747	365.00	3522
301.00	127	316.05	582	335.05	512	365.95	619
301.80	72	317.20	63	341.05	445	370.10	53
302.10	67	320.95	307	345.85	312	371.05	282
302.95	1183	322.00	69	346.10	237	371.80	281
304.15	296	323.05	3553	347.00	56	372.05	1350
308.00	152	323.95	566	351.10	50	373.10	395
310.00	60	326.95	522	352.05	872	382.95	379
312.80	76	328.00	283	352.95	702	389.95	213
313.00	57	332.00	66	354.05	954	391.90	50

Average of 12.263 to 12.274 min.: GBU01S20.D\data.ms
SSTD020GU DFTPPGU
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
401.95	605	435.50	143				
403.05	1007	437.00	74				
403.95	314	437.40	66				
420.95	690	437.90	55				
422.00	751	438.10	76				
423.00	5319	441.05	15301				
424.00	1148	442.05	101293				
425.05	115	443.05	19509				
433.70	60	444.05	1797				
434.30	51						
434.85	119						

:00199

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 450834

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GBU02BLK

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 450834

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GBU02BLK

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 450834

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GBU02BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.76	2.3	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	68.	J

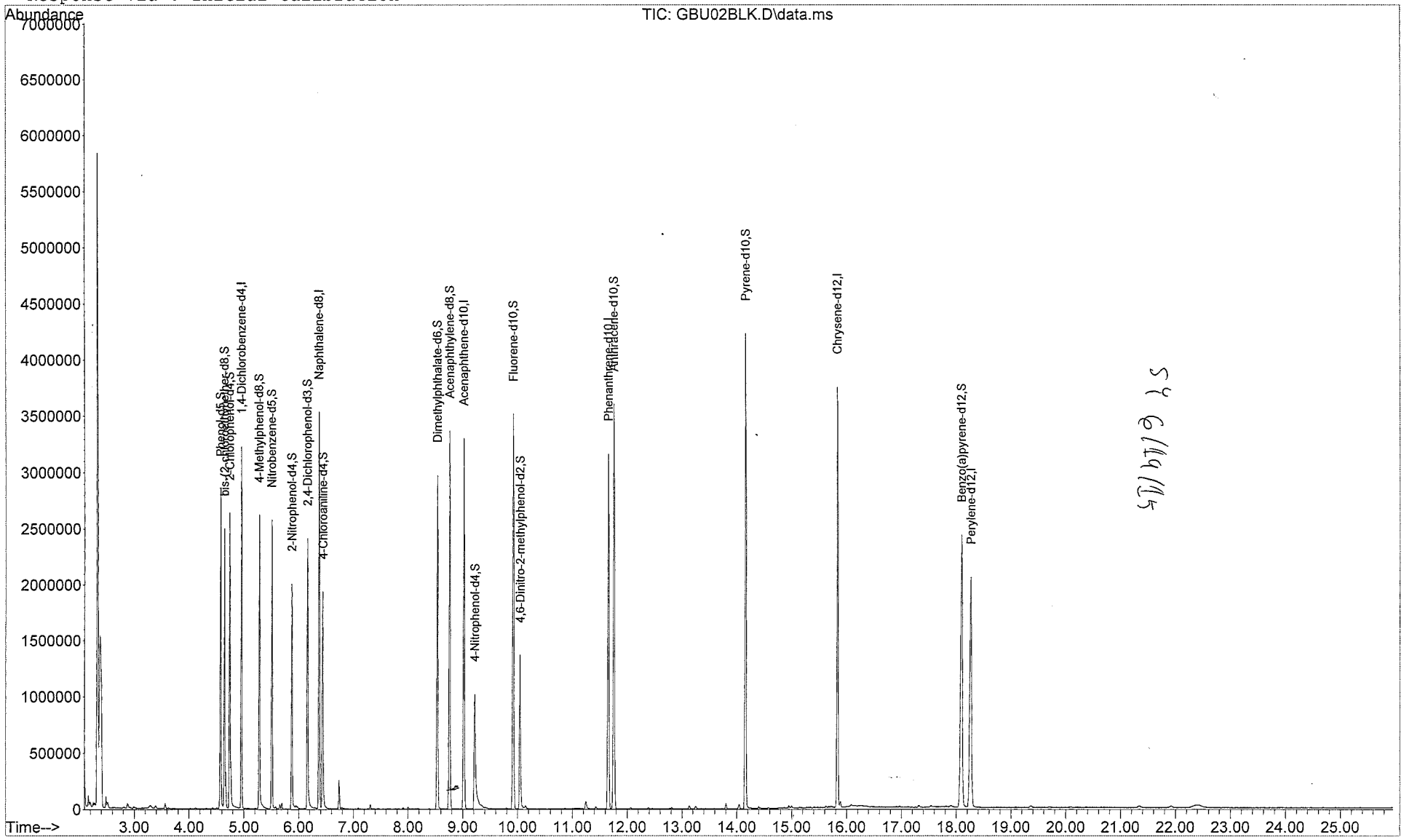
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU02BLK.D Vial: 2
Acq On : 06/18/2015 17:26 Operator: TM
Sample : 450834 SBLK34 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 19 09:25:21 2015 Results File: GSOM01D5.RES

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration



SY GBLK/LCS

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU02BLK.D Vial: 2
Acq On : 06/18/2015 17:26 Operator: TM
Sample : 450834 SBLK34 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 09:25:21 2015 Results File: GSOM01D5.RES

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	488209	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1808926	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	1049807	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1753830	20.00 ug/ml
73) Chrysene-d12	15.83	240	1769546	20.00 ug/ml
81) Perylene-d12	18.27	264	1586159	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	911583	32.379ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	658120	30.203ug/mL
7) 2-Chlorophenol-d4	4.74	132	751207	31.587ug/ml
13) 4-Methylphenol-d8	5.28	113	601288	31.634ug/mL
17) Nitrobenzene-d5	5.51	128	353600	34.428ug/ml
21) 2-Nitrophenol-d4	5.87	143	386309	34.795ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	578580	33.792ug/mL
28) 4-Chloroaniline-d4	6.44	131	700428	40.693ug/mL
42) Dimethylphthalate-d6	8.54	166	1618371	38.893ug/mL
45) Acenaphthylene-d8	8.76	160	2118427	37.256ug/mL
50) 4-Nitrophenol-d4	9.22	143	314579	38.789ug/mL
57) Fluorene-d10	9.92	176	1362751	38.016ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	244966	33.403ug/mL
69) Anthracene-d10	11.76	188	2243420	38.448ug/mL
75) Pyrene-d10	14.16	212	2116399	38.270ug/mL
86) Benzo(a)pyrene-d12	18.10	264	1848992	39.243ug/mL

Target Compounds				Qvalue
3) Benzaldehyde	0.00	77	Not Detected	
4) Phenol	0.00	94	Not Detected	
5) Bis(2-chloroethyl)ether	0.00	93	Not Detected	
8) 2-Chlorophenol	0.00	128	Not Detected	
9) 2-Methylphenol	0.00	108	Not Detected	
10) 2,2'-Oxybis-(1-chloropropa	0.00	45	Not Detected	
11) Acetophenone	0.00	105	Not Detected	
12) 4-methylphenol	0.00	108	Not Detected	
14) N-Nitroso-di-n-propylamine	0.00	70	Not Detected	
15) Hexachloroethane	0.00	117	Not Detected	
18) Nitrobenzene	0.00	77	Not Detected	
19) Isophorone	0.00	82	Not Detected	
20) 2-Nitrophenol	0.00	139	Not Detected	
22) 2,4-Dimethylphenol	0.00	107	Not Detected	
23) Bis(2-chloroethoxy)methane	0.00	93	Not Detected	
24) 2,4-Dichlorophenol	0.00	162	Not Detected	
26) Naphthalene	0.00	128	Not Detected	
27) 4-Chloroaniline	0.00	127	Not Detected	
29) Hexachlorobutadiene	0.00	225	Not Detected	
30) Caprolactam	0.00	113	Not Detected	
31) 4-Chloro-3-methylphenol	0.00	107	Not Detected	
32) 2-Methylnaphthalene	0.00	142	Not Detected	
34) 1,2,4,5-Tetrachlorobenzene	0.00	216	Not Detected	
35) Hexachlorocyclopentadiene	0.00	237	Not Detected	
36) 2,4,6-Trichlorophenol	0.00	196	Not Detected	
37) 2,4,5-Trichlorophenol	0.00	196	Not Detected	
38) 1,1'-Biphenyl	0.00	154	Not Detected	
39) 2-Chloronaphthalene	0.00	162	Not Detected	
40) 2-Nitroaniline	0.00	65	Not Detected	
41) Dimethylphthalate	0.00	163	Not Detected	
43) 2,6-Dinitrotoluene	0.00	165	Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00193

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU02BLK.D Vial: 2
Acq On : 06/18/2015 17:26 Operator: TM
Sample : 450834 SBLK34 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 09:25:21 2015 Results File: GSOM01D5.RES

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 12:42:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

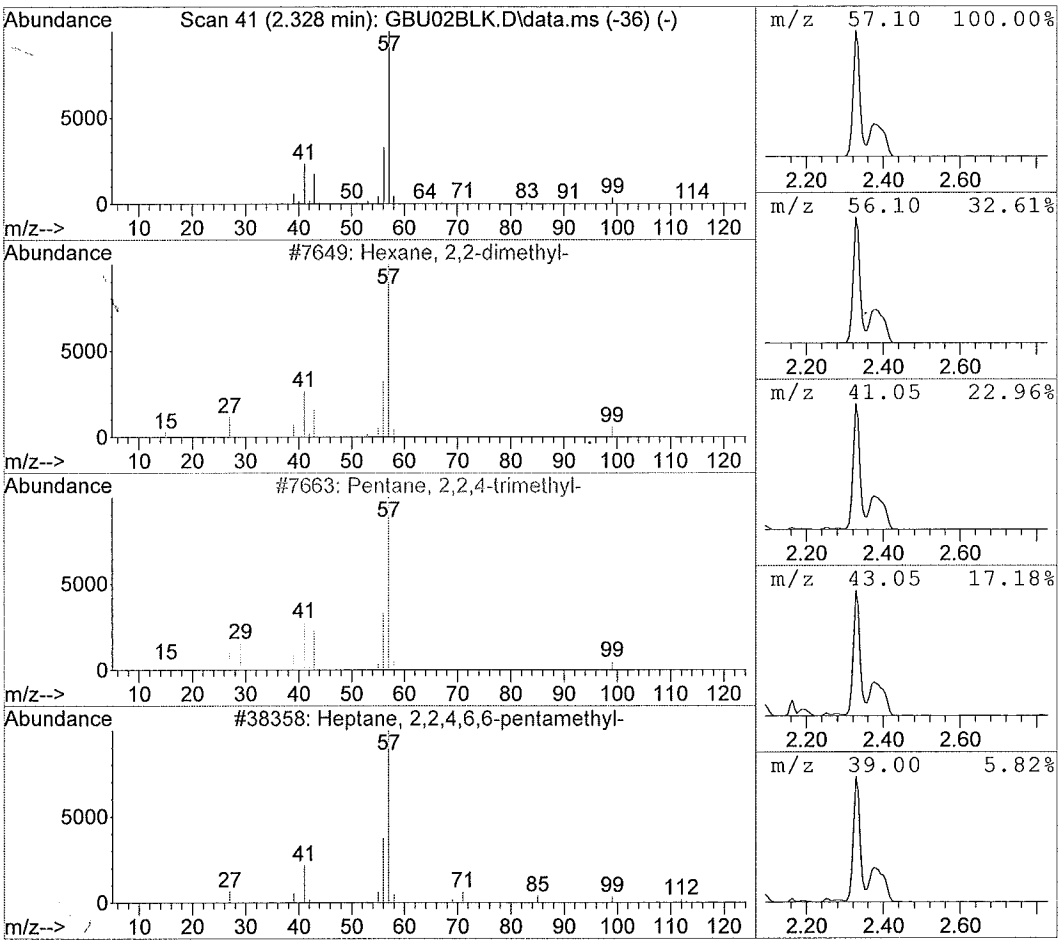
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU02BLK.D Vial: 2
Acq On : 06/18/2015 17:26 Operator: TM
Sample : 450834 SBLK34 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.33	44.29 ug/ml	7244314	1,4-Dichlorobenzene-d4	3270959

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,2-dimethyl-	7649	000590-73-8	83.00
2	Pentane, 2,2,4-trimethyl- BA	7663	000540-84-1	83.00
3	Heptane, 2,2,4,6,6-pentamethyl-	38358	013475-82-6	83.00
4	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	78.00
5	Butane, 2,2,3,3-tetramethyl-	7673	000594-82-1	64.00



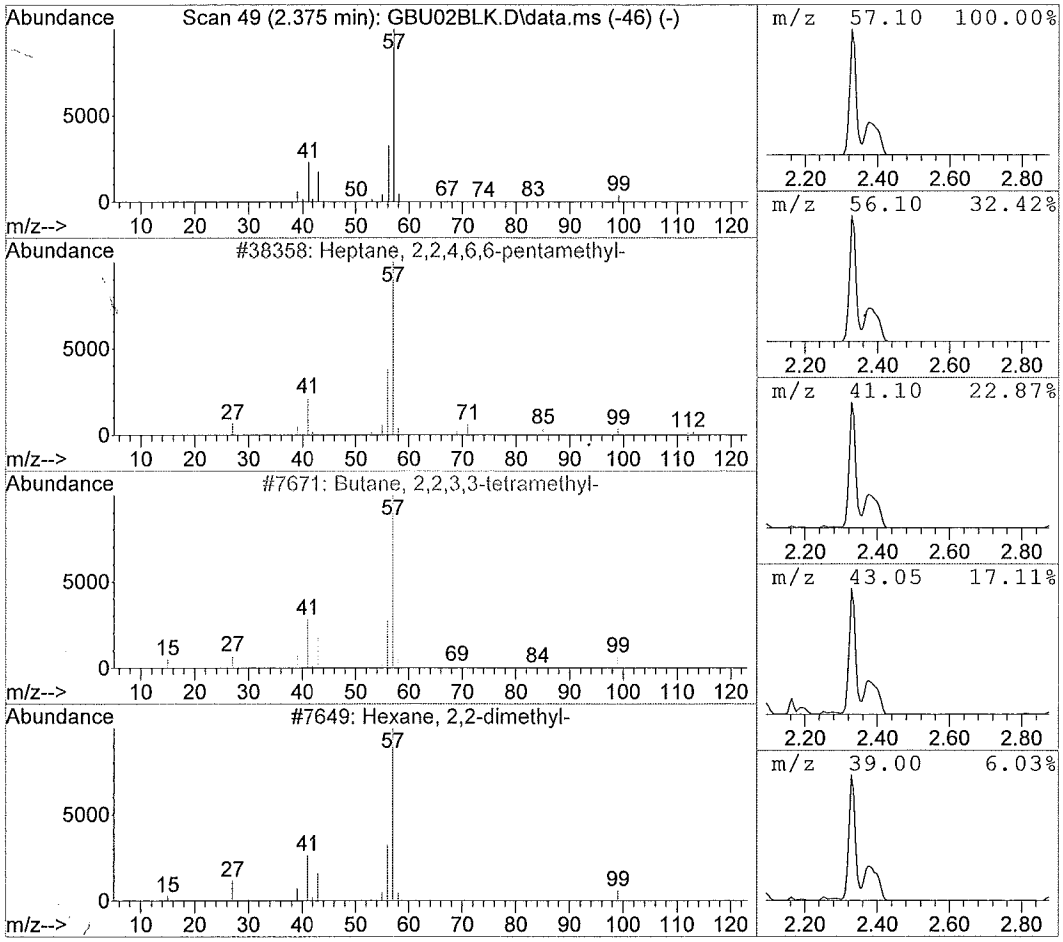
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU02BLK.D Vial: 2
Acq On : 06/18/2015 17:26 Operator: TM
Sample : 450834 SBLK34 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.38	24.11 ug/ml	3942379	1,4-Dichlorobenzene-d4	3270959

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,2,4,6,6-pentamethyl-	38358	013475-82-6	83.00
2	Butane, 2,2,3,3-tetramethyl- BA	7671	000594-82-1	83.00
3	Hexane, 2,2-dimethyl-	7649	000590-73-8	83.00
4	Pentane, 2,2,4-trimethyl-	7663	000540-84-1	83.00
5	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	78.00



00196

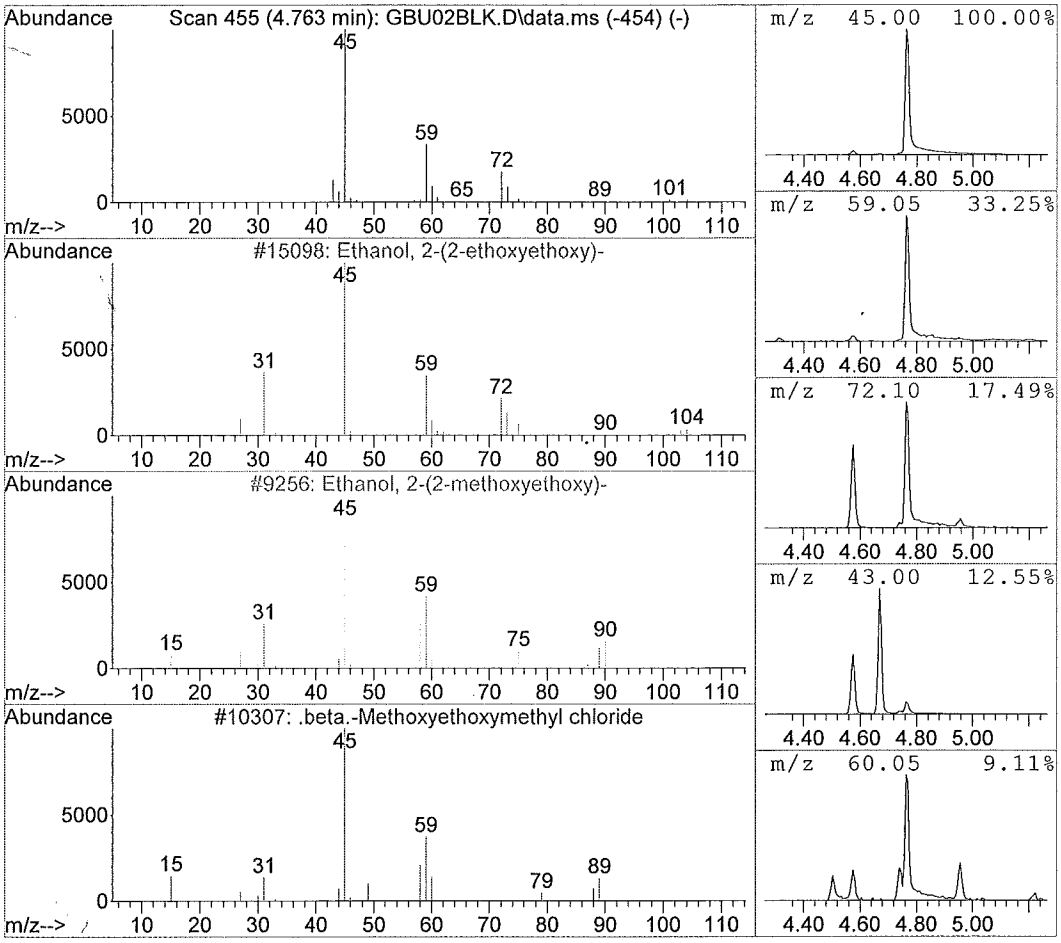
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\18JUN15\GBU02BLK.D Vial: 2
Acq On : 06/18/2015 17:26 Operator: TM
Sample : 450834 SBLK34 Inst : 5975-G
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.76	2.27 ug/ml	371931	1,4-Dichlorobenzene-d4	3270959

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15098	000111-90-0	64.00
2	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
3	.beta.-Methoxyethoxymethyl chloride	10307	003970-21-6	39.00
4	Methoxyacetic acid, pentyl ester	31250	168920-35-2	36.00
5	2-Propanol, 1-ethoxy-	4768	001569-02-4	9.00



2L - FORM II SV-SIM1

WATER SEMIVOLATILE SIM DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	F9M47	94	76	0
02	F9M53	78	70	0
03	SBLK34	87	79	0
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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16				
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19				
20				
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22				
23				
24				
25				
26				
27				
28				
29				
30				

	QC LIMITS
SDMC17 (FLN) = Fluoranthene-d10	(50-150)
SDMC18 (2MN) = 2-Methylnaphthalene-d10	(50-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

4D - FORM IV SV-SIM
SEMIVOLATILE SIM METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Lab File ID: DEG11BLK Lab Sample ID: 450834

Instrument ID: 5975-D Date Extracted: 06/09/2015

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 06/18/2015

Time Analyzed: 16:42 Extraction: (Type) CONT GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9M47	1515629002	DEG12F02	06/18/2015
02	F9M53	1515629003	DEG13F03	06/18/2015
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5B - FORM V SV
SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

SSTD0.1DG

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Lab File ID: DDG01SP1 DFTPP Injection Date: 03/25/2015

Instrument ID: 5975-D DFTPP Injection Time: 09:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
	DFTPP is not required for SIM analysis	

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0.1DG	SSTD0.1DG	DDG01SP1	03/25/2015	09:26
02	SSTD0.2DG	SSTD0.2DG	DDG02SP2	03/25/2015	09:55
03	SSTD0.4DG	SSTD0.4DG	DDG03SP4	03/25/2015	10:25
04	SSTD0.8DG	SSTD0.8DG	DDG04SP8	03/25/2015	10:55
05	SSTD001DG	SSTD001DG	DDG05S01	03/25/2015	11:25
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

SSTD0.4G1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Lab File ID: DEG03SP4 DFTPP Injection Date: 06/18/2015

Instrument ID: 5975-D DFTPP Injection Time: 12:18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
	DFTPP is not required for SIM analysis	

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0.4G1	SSTD0.4G1	DEG03SP4	06/18/2015	12:18
02	SBLK34	450834	DEG11BLK	06/18/2015	16:42
03	F9M47	1515629002	DEG12F02	06/18/2015	17:12
04	F9M53	1515629003	DEG13F03	06/18/2015	17:43
05	SSTD0.4G2	SSTD0.4G2	DEG15SP4	06/18/2015	18:44
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

8E - FORM VIII SV-SIM1
SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4G1 Date Analyzed: 06/18/2015

Lab File ID (Standard): DEG03SP4 Time Analyzed: 12:18

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			262062	6.07	165515	8.72
	UPPER LIMIT			524124	6.57	331030	9.22
	LOWER LIMIT			131031	5.57	82758	8.22
	EPA SAMPLE NO.						
01	SBLK34			197060	6.07	140405	8.73
02	F9M47			227424	6.07	149933	8.73
03	F9M53			213728	6.07	139542	8.73
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8F - FORM VIII SV-SIM2
SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

EPA Sample No.(SSTD0.4##): SSTD0.4G1 Date Analyzed: 06/18/2015

Lab File ID (Standard): DEG03SP4 Time Analyzed: 12:18

Instrument ID: 5975-D GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	292698	11.36	314035	15.52	290695	18.01
	UPPER LIMIT	585396	11.86	628070	16.02	581390	18.51
	LOWER LIMIT	146349	10.86	157018	15.02	145348	17.51
	EPA SAMPLE NO.						
01	SBLK34	228449	11.36	243321	15.52	246513	18.02
02	F9M47	228819	11.36	250561	15.52	278025	18.02
03	F9M53	226657	11.36	234467	15.51	257175	18.01
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M47

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515629002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DEG12F02

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/04/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

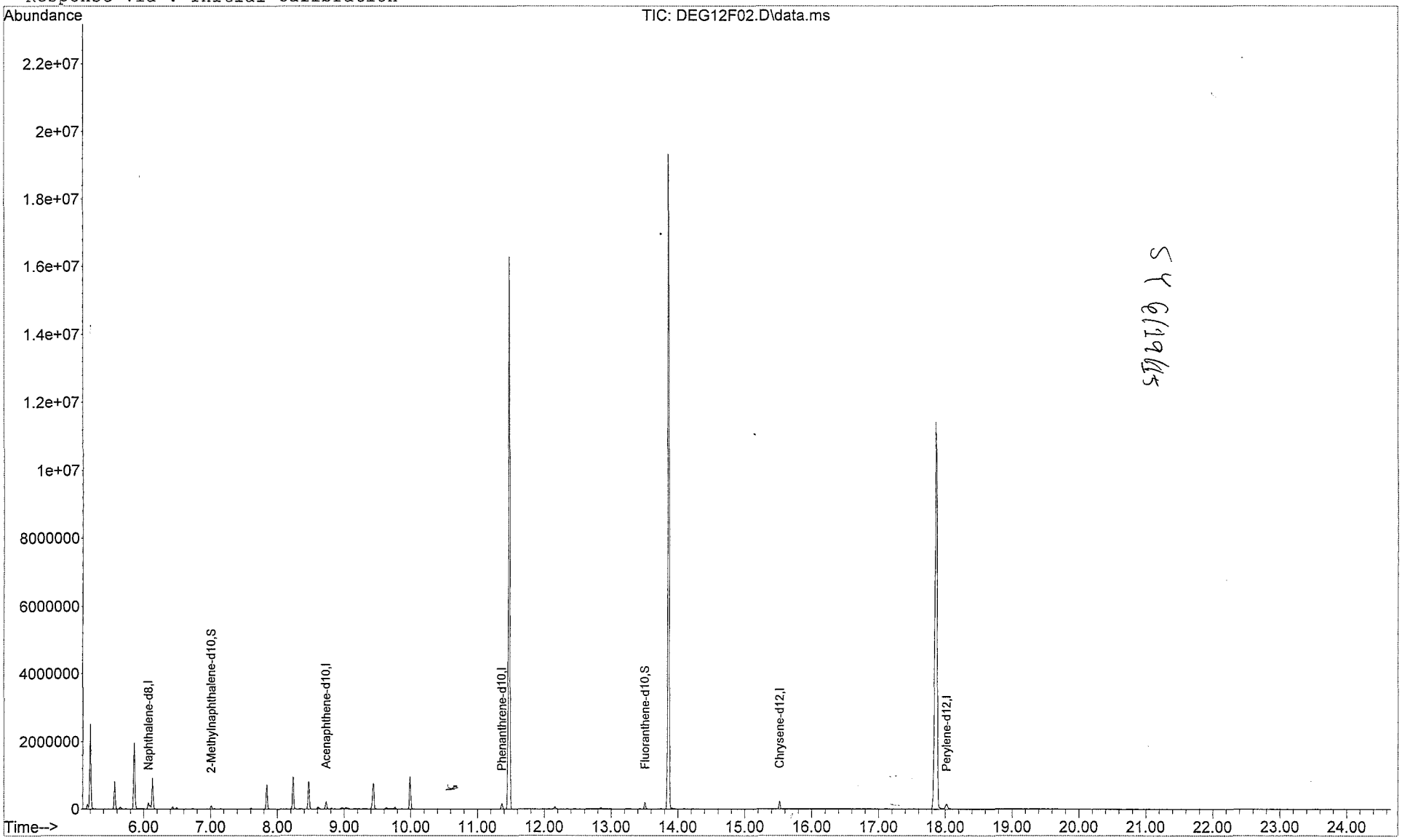
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	Naphthalene	0.13	
91-57-6	2-Methylnaphthalene	0.10	U
208-96-8	Acenaphthylene	0.10	U
83-32-9	Acenaphthene	0.052	J
86-73-7	Fluorene	0.10	U
87-86-5	Pentachlorophenol	0.20	U
85-01-8	Phenanthrene	0.10	U
120-12-7	Anthracene	0.10	U
206-44-0	Fluoranthene	0.10	U
129-00-0	Pyrene	0.10	U
56-55-3	Benzo(a)anthracene	0.10	U
218-01-9	Chrysene	0.10	U
205-99-2	Benzo(b)fluoranthene	0.10	U
207-08-9	Benzo(k)fluoranthene	0.10	U
50-32-8	Benzo(a)pyrene	0.080	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U
53-70-3	Dibenzo(a,h)anthracene	0.10	U
191-24-2	Benzo(g,h,i)perylene	0.10	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG12F02.D Vial: 11
Acq On : 06/18/2015 17:12 Operator: DJC
Sample : 1515629002 F9M47 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 19 09:03:58 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



SY 6/19/15

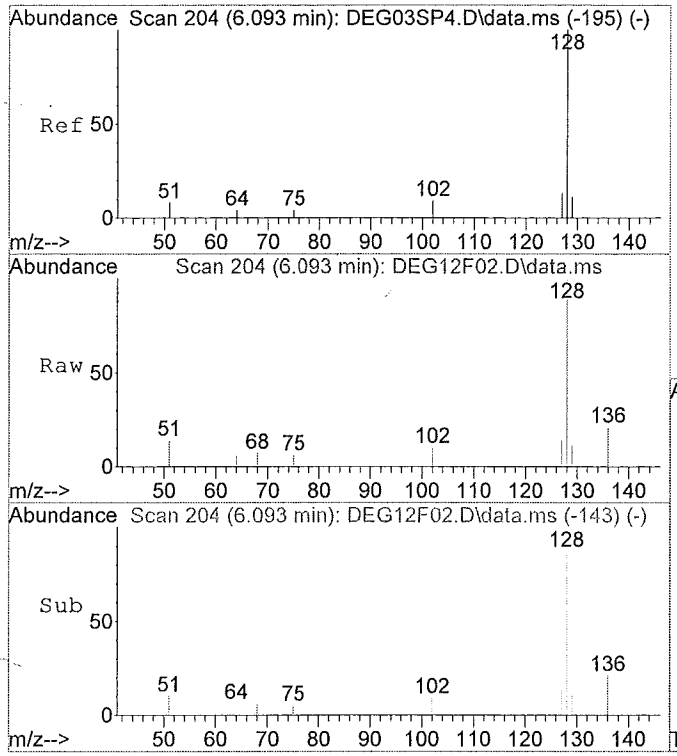
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG12F02.D Vial: 11
Acq On : 06/18/2015 17:12 Operator: DJC
Sample : 1515629002 F9M47 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 09:03:58 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	227424	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	149933	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	228819	0.40 ug/ml	
15) Chrysene-d12	15.52	240	250561	0.40 ug/ml	
19) Perylene-d12	18.02	264	278025	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	111860	0.305ug/mL	
13) Fluoranthene-d10	13.50	212	234683	0.375ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	76226	0.129ug/ml	94
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.81	153	21862	0.052ug/ml	23
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	0.00	202		Not Detected	
16) Pyrene	0.00	202		Not Detected	
17) Benzo(a)anthracene	0.00	228		Not Detected	
18) Chrysene	0.00	228		Not Detected	
20) Benzo(b)fluoranthene	0.00	252		Not Detected	
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.86	252	66632	0.080ug/ml	71
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

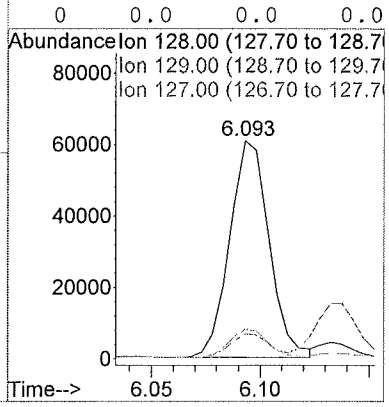
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

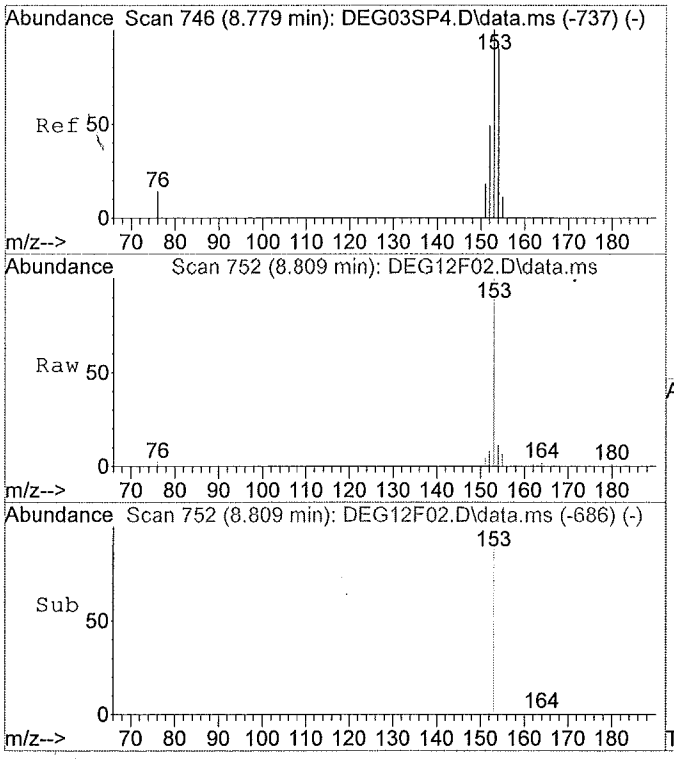


#2
Naphthalene
Concen: 0.13 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DEG12F02.D
Acq: 06/18/2015 17:12

Tgt Ion:128 Resp: 76226

Ion	Ratio	Lower	Upper
128	100		
129	11.0	0.0	0.0#
127	13.3	11.1	20.5
0	0.0	0.0	0.0

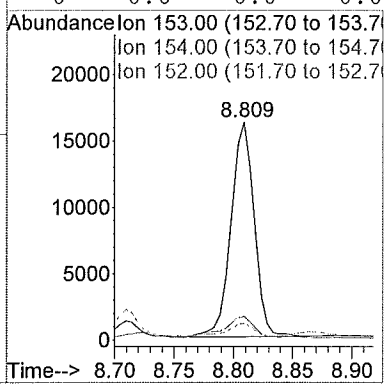


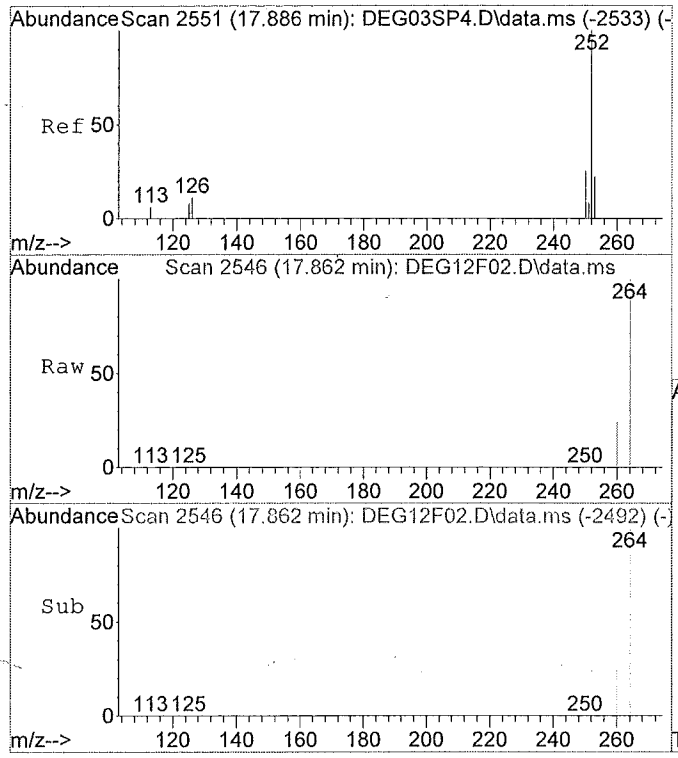


#7
Acenaphthene
Concen: 0.05 ug/ml
RT: 8.81 min Scan# 752
Delta R.T. 0.02 min
Lab File: DEG12F02.D
Acq: 06/18/2015 17:12

Tgt Ion:153 Resp: 21862

Ion	Ratio	Lower	Upper
153	100		
154	12.5	65.1	120.9#
152	6.4	35.2	65.4#
0	0.0	0.0	0.0

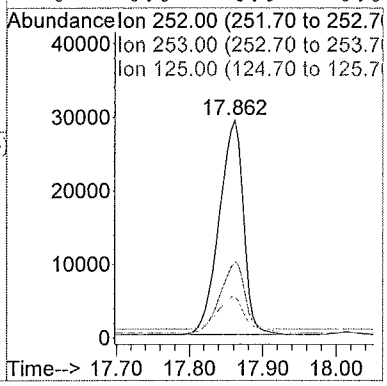




#22
Benzo(a)pyrene
Concen: 0.08 ug/ml
RT: 17.86 min Scan# 2546
Delta R.T. -0.03 min
Lab File: DEG12F02.D
Acq: 06/18/2015 17:12

Tgt Ion:252 Resp: 66632

Ion	Ratio	Lower	Upper
252	100		
253	35.1	15.0	27.8#
125	16.1	0.0	0.0#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M53

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1515629003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DEG13F03

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/04/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

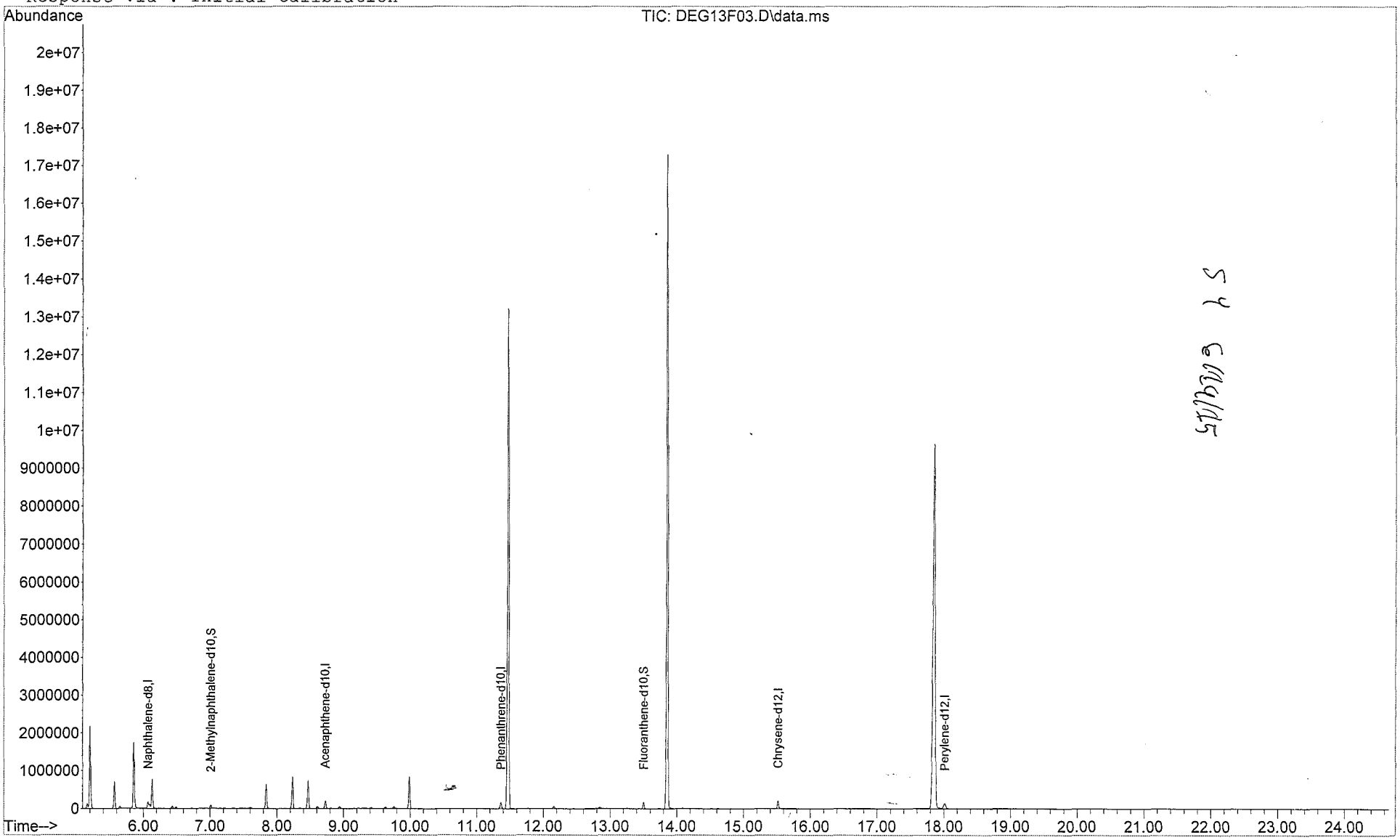
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	Naphthalene	0.13	
91-57-6	2-Methylnaphthalene	0.10	U
208-96-8	Acenaphthylene	0.10	U
83-32-9	Acenaphthene	0.049	J
86-73-7	Fluorene	0.10	U
87-86-5	Pentachlorophenol	0.20	U
85-01-8	Phenanthrene	0.10	U
120-12-7	Anthracene	0.10	U
206-44-0	Fluoranthene	0.10	U
129-00-0	Pyrene	0.10	U
56-55-3	Benzo(a)anthracene	0.10	U
218-01-9	Chrysene	0.10	U
205-99-2	Benzo(b)fluoranthene	0.10	U
207-08-9	Benzo(k)fluoranthene	0.10	U
50-32-8	Benzo(a)pyrene	0.073	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U
53-70-3	Dibenzo(a,h)anthracene	0.10	U
191-24-2	Benzo(g,h,i)perylene	0.10	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG13F03.D Vial: 12
Acq On : 06/18/2015 17:43 Operator: DJC
Sample : 1515629003 F9M53 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 19 09:05:04 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



5 ng equals

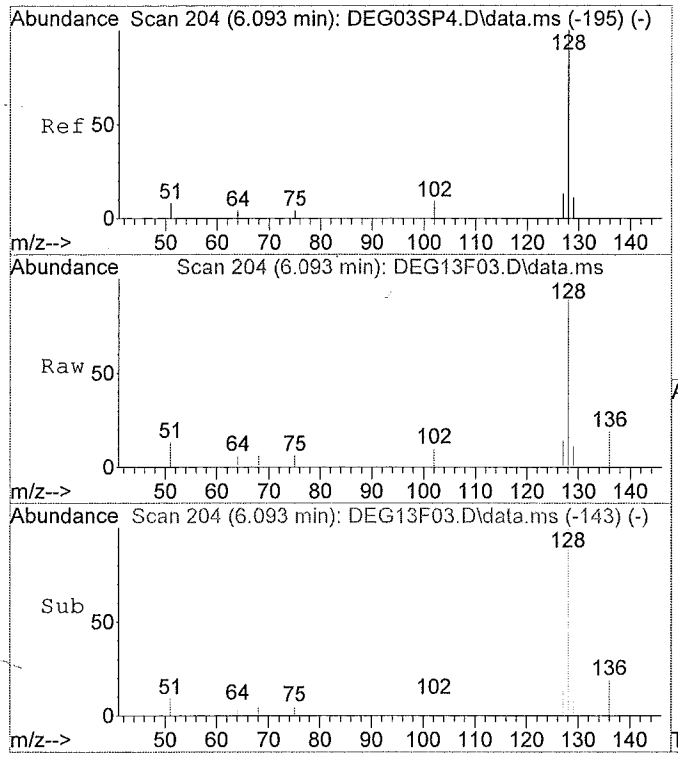
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG13F03.D Vial: 12
Acq On : 06/18/2015 17:43 Operator: DJC
Sample : 1515629003 F9M53 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 09:05:04 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	213728	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	139542	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	226657	0.40 ug/ml	
15) Chrysene-d12	15.51	240	234467	0.40 ug/ml	
19) Perylene-d12	18.01	264	257175	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	97125	0.282ug/mL	
13) Fluoranthene-d10	13.50	212	193728	0.313ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	70952	0.127ug/ml	94
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.81	153	19226	0.049ug/ml	22
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	0.00	202		Not Detected	
16) Pyrene	0.00	202		Not Detected	
17) Benzo(a)anthracene	0.00	228		Not Detected	
18) Chrysene	0.00	228		Not Detected	
20) Benzo(b)fluoranthene	0.00	252		Not Detected	
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.85	252	55918	0.073ug/ml	73
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

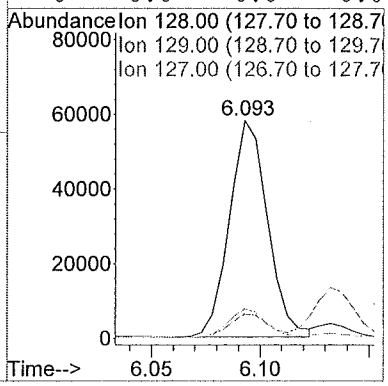
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

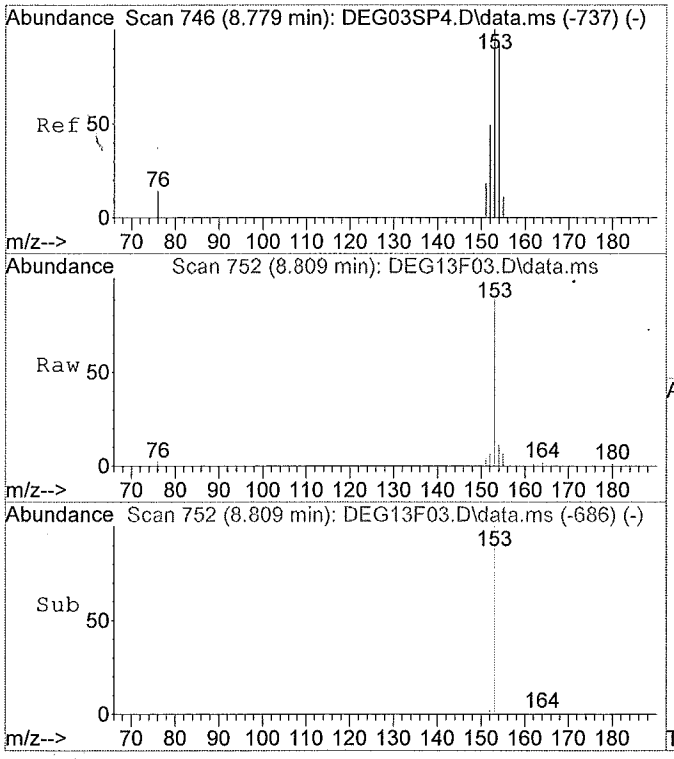


#2
Naphthalene
Concen: 0.13 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DEG13F03.D
Acq: 06/18/2015 17:43

Tgt Ion:128 Resp: 70952

Ion	Ratio	Lower	Upper
128	100		
129	11.0	0.0	0.0#
127	13.4	11.1	20.5
0	0.0	0.0	0.0

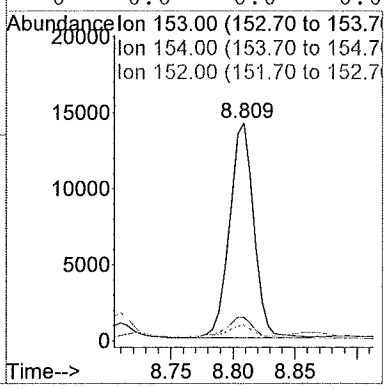


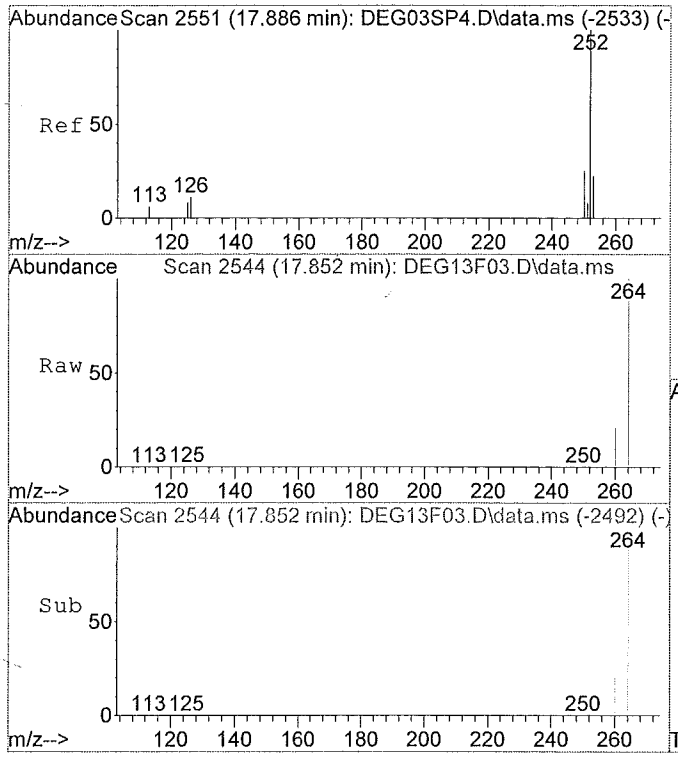


#7
Acenaphthene
Concen: 0.05 ug/ml
RT: 8.81 min Scan# 752
Delta R.T. 0.02 min
Lab File: DEG13F03.D
Acq: 06/18/2015 17:43

Tgt Ion:153 Resp: 19226

Ion	Ratio	Lower	Upper
153	100		
154	11.8	65.1	120.9#
152	5.7	35.2	65.4#
0	0.0	0.0	0.0

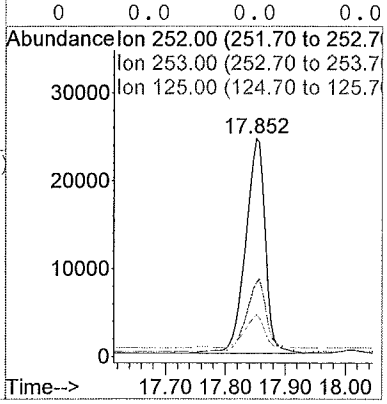




#22
Benzo(a)pyrene
Concen: 0.07 ug/ml
RT: 17.85 min Scan# 2544
Delta R.T. -0.04 min
Lab File: DEG13F03.D
Acq: 06/18/2015 17:43

Tgt Ion:252 Resp: 55918

Ion	Ratio	Lower	Upper
252	100		
253	34.4	15.0	27.8#
125	14.9	0.0	0.0#
0	0.0	0.0	0.0



6H - FORM VI SV-SIM
SEMIVOLATILE ORGANICS SIM INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-D Calibration Date(s): 03/25/2015 03/25/2015

Calibration Time(s): 09:26 11:25

LAB FILE ID: RRF 0.1 = DDG01SP1 RRF 0.2 = DDG02SP2
RRF 0.4 = DDG03SP4 RRF 0.8 = DDG04SP8 RRF 1.0 = DDG05S01

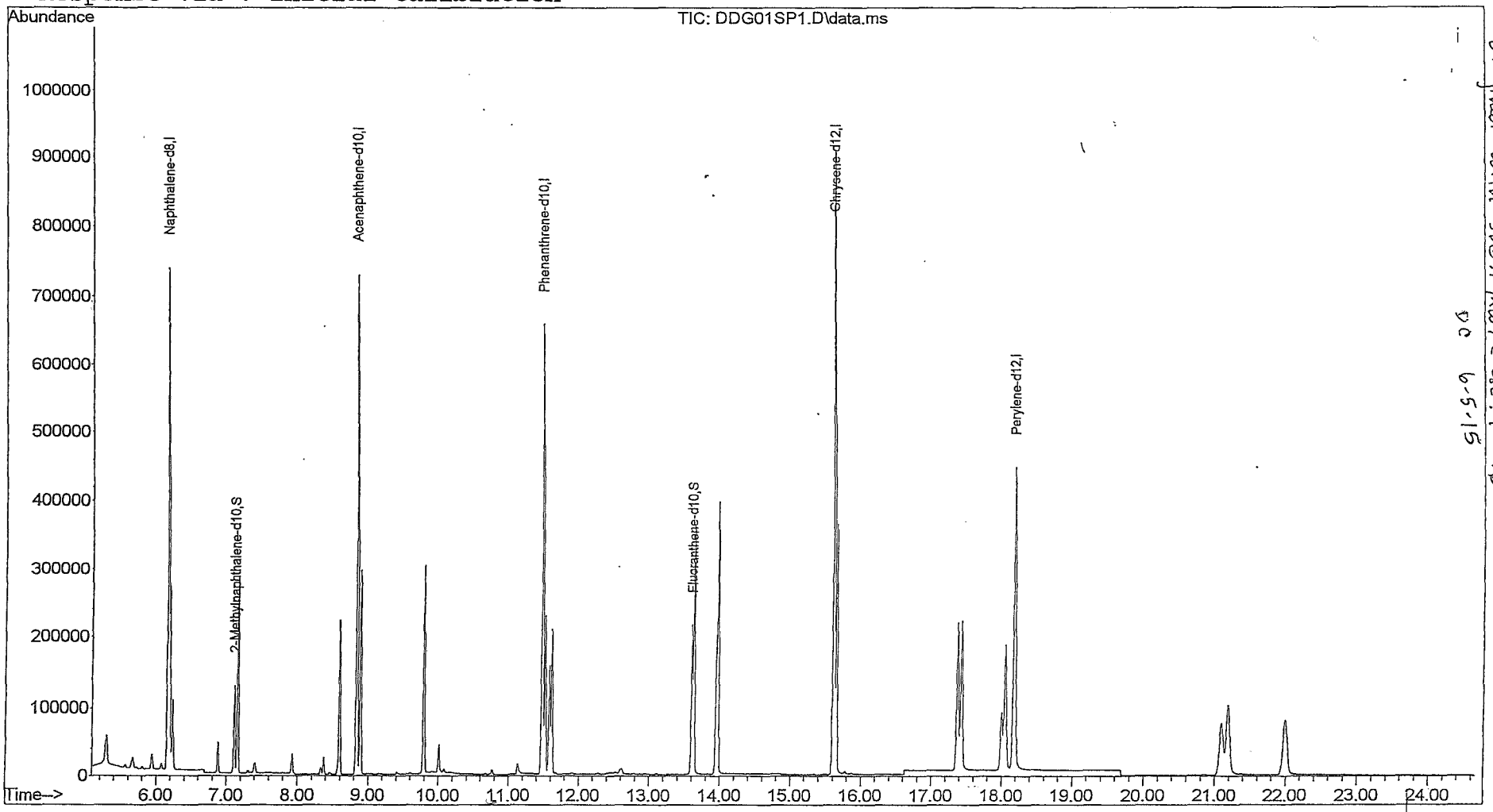
COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	%RSD
Naphthalene	1.070	1.060	1.047	1.004	1.034	1.043	2.5
2-Methylnaphthalene	0.678	0.680	0.672	0.652	0.676	0.672	1.7
Acenaphthylene	1.712	1.721	1.747	1.737	1.836	1.750	2.8
Acenaphthene	1.121	1.125	1.118	1.093	1.144	1.120	1.6
Fluorene	1.280	1.294	1.298	1.276	1.346	1.299	2.1
Pentachlorophenol		0.056	0.056	0.061	0.068	0.060	9.2
Phenanthrene	1.131	1.155	1.151	1.137	1.185	1.152	1.8
Anthracene	1.055	1.099	1.118	1.135	1.193	1.120	4.5
Fluoranthene	1.292	1.281	1.291	1.320	1.370	1.311	2.8
Pyrene	1.283	1.240	1.247	1.229	1.277	1.255	1.9
Benzo(a)anthracene	1.071	1.062	1.060	1.047	1.093	1.067	1.6
Chrysene	1.126	1.135	1.131	1.101	1.143	1.127	1.4
Benzo(b)fluoranthene	1.217	1.236	1.239	1.236	1.306	1.247	2.8
Benzo(k)fluoranthene	1.226	1.279	1.305	1.295	1.353	1.292	3.6
Benzo(a)pyrene	1.103	1.165	1.201	1.211	1.276	1.191	5.3
Indeno(1,2,3-cd)pyrene	0.970	1.023	1.043	1.058	1.119	1.043	5.2
Dibenzo(a,h)anthracene	1.077	1.103	1.168	1.179	1.241	1.153	5.6
Benzo(g,h,i)perylene	1.118	1.158	1.177	1.174	1.236	1.172	3.6
Fluoranthene-d10	1.098	1.079	1.076	1.082	1.134	1.094	2.2
2-Methylnaphthalene-d10	0.656	0.654	0.647	0.624	0.646	0.645	1.9

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Original with SDG:F9KW7 Case:45316
DC 6-5-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	826415	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	500325	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	876849	0.40 ug/ml	
15) Chrysene-d12	15.61	240	937520	0.40 ug/ml	
19) Perylene-d12	18.17	264	804866	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	135515	0.100ug/mL	
13) Fluoranthene-d10	13.60	212	240674	0.100ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	221005	0.100ug/ml	93
4) 2-Methylnaphthalene	7.16	142	140108	0.100ug/ml	97
6) Acenaphthylene	8.59	152	214086	0.100ug/ml	96
7) Acenaphthene	8.89	153	140194	0.100ug/ml	98
8) Fluorene	9.79	166	160159	0.100ug/ml	100
10) Pentachlorophenol	0.00	266		No Calib #	
11) Phenanthrene	11.52	178	247892	0.100ug/ml	98
12) Anthracene	11.61	178	231218	0.100ug/ml	96
14) Fluoranthene	13.63	202	283310	0.100ug/ml	91
16) Pyrene	13.97	202	300663	0.100ug/ml	92
17) Benzo(a)anthracene	15.60	228	251019	0.100ug/ml	99
18) Chrysene	15.65	228	263840	0.100ug/ml	98
20) Benzo(b)fluoranthene	17.37	252	244834	0.100ug/ml	100
21) Benzo(k)fluoranthene	17.42	252	246626	0.100ug/ml	99
22) Benzo(a)pyrene	18.05	252	221886	0.100ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.09	276	195170	0.100ug/ml	100
24) Dibenzo(a,h)anthracene	21.19	278	216701	0.100ug/ml	99
25) Benzo(g,h,i)perylene	21.99	276	224998	0.100ug/ml	72

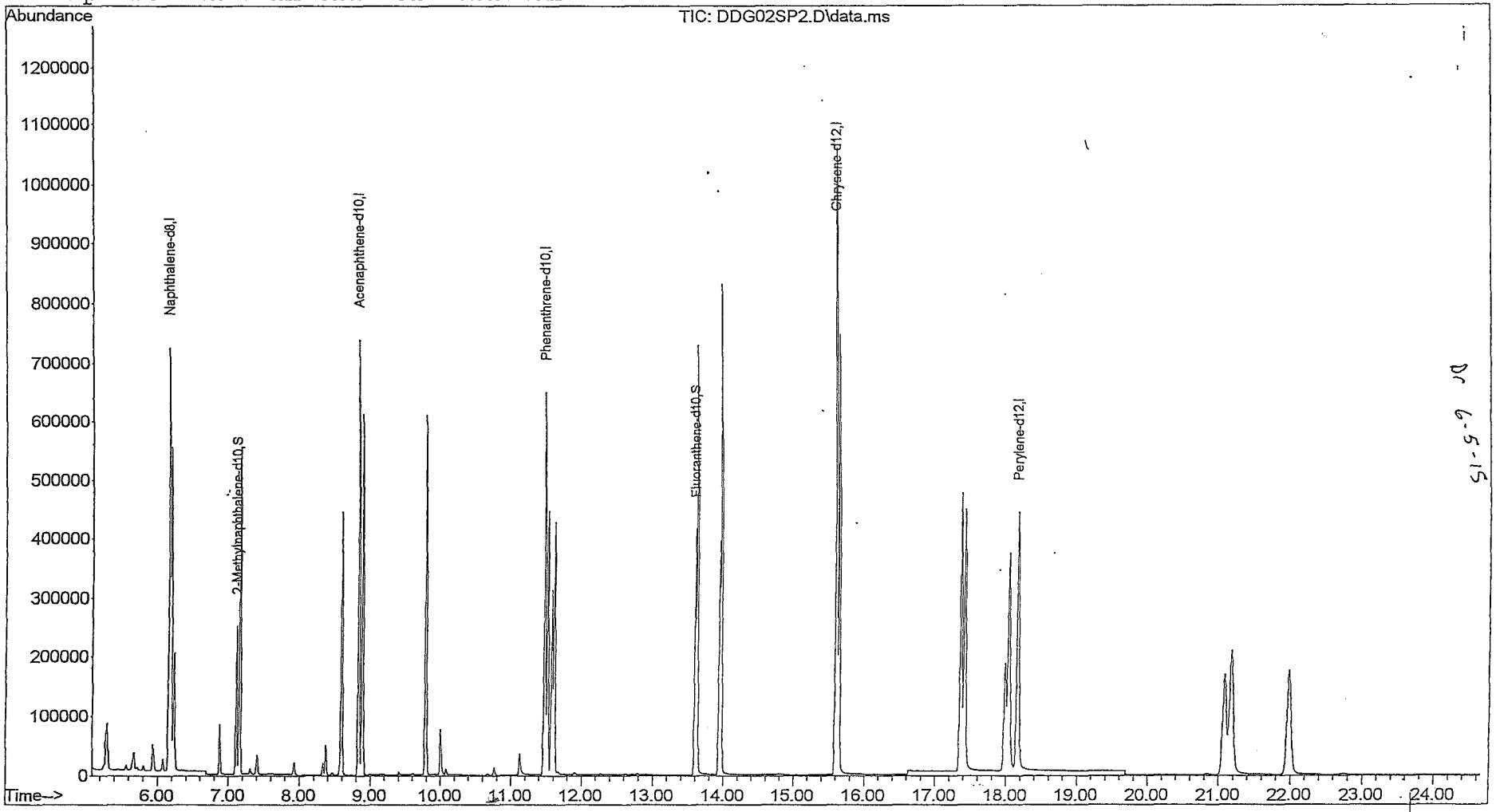
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG02SP2.D Vial: 2
Acq On : 03/25/2015 09:55 Operator: DJC
Sample : SSTD0.2DG 27492 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:22:59 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



DJ 6-5-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG02SP2.D Vial: 2
Acq On : 03/25/2015 09:55 Operator: DJC
Sample : SSTD0.2DG 27492 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:22:59 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	829500	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	499450	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	862919	0.40 ug/ml	
15) Chrysene-d12	15.61	240	943009	0.40 ug/ml	
19) Perylene-d12	18.16	264	803959	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	271205	0.200ug/mL	
13) Fluoranthene-d10	13.60	212	465423	0.198ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	439776	0.199ug/ml	93
4) 2-Methylnaphthalene	7.16	142	282058	0.200ug/ml	97
6) Acenaphthylene	8.59	152	429820	0.201ug/ml	96
7) Acenaphthene	8.89	153	281062	0.200ug/ml	98
8) Fluorene	9.79	166	323083	0.201ug/ml	98
10) Pentachlorophenol	11.12	266	24051	0.200ug/ml	100
11) Phenanthrene	11.52	178	498239	0.202ug/ml	97
12) Anthracene	11.61	178	474196	0.204ug/ml	96
14) Fluoranthene	13.62	202	552655	0.199ug/ml	91
16) Pyrene	13.97	202	584822	0.197ug/ml	92
17) Benzo(a)anthracene	15.59	228	500525	0.199ug/ml	99
18) Chrysene	15.64	228	535322	0.201ug/ml	99
20) Benzo(b)fluoranthene	17.36	252	496663	0.202ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	513953	0.204ug/ml	100
22) Benzo(a)pyrene	18.04	252	468152	0.205ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.09	276	411348	0.205ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	443264	0.202ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	465413	0.203ug/ml	72

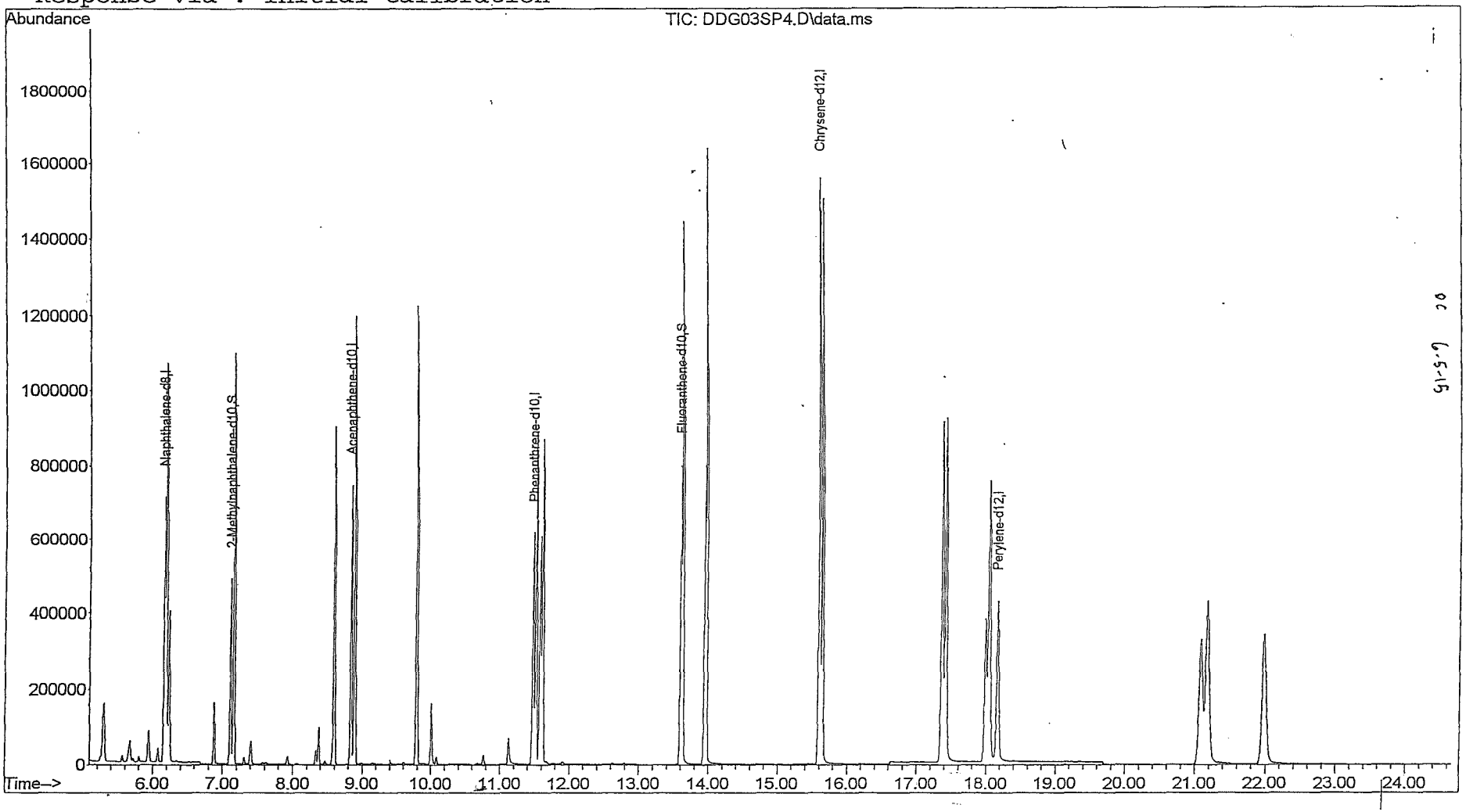
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG03SP4.D Vial: 3
Acq On : 03/25/2015 10:25 Operator: DJC
Sample : SSTD0.4DG 27493 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:53:15 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG03SP4.D Vial: 3
Acq On : 03/25/2015 10:25 Operator: DJC
Sample : SSTD0.4DG 27493 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:53:15 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	829952	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	496519	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	848812	0.40 ug/ml	
15) Chrysene-d12	15.61	240	931096	0.40 ug/ml	
19) Perylene-d12	18.16	264	790297	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	536757	0.395ug/mL	
13) Fluoranthene-d10	13.59	212	913687	0.396ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	868862	0.393ug/ml	93
4) 2-Methylnaphthalene	7.16	142	557588	0.396ug/ml	97
6) Acenaphthylene	8.59	152	867224	0.407ug/ml	96
7) Acenaphthene	8.89	153	555337	0.398ug/ml	98
8) Fluorene	9.79	166	644612	0.403ug/ml	98
10) Pentachlorophenol	11.12	266	47584	0.402ug/ml	100
11) Phenanthrene	11.51	178	976988	0.403ug/ml	97
12) Anthracene	11.61	178	948693	0.415ug/ml	96
14) Fluoranthene	13.62	202	1095908	0.401ug/ml	91
16) Pyrene	13.97	202	1160679	0.395ug/ml	92
17) Benzo(a)anthracene	15.59	228	986511	0.397ug/ml	99
18) Chrysene	15.64	228	1052641	0.400ug/ml	98
20) Benzo(b)fluoranthene	17.36	252	978791	0.404ug/ml	98
21) Benzo(k)fluoranthene	17.41	252	1031697	0.417ug/ml	99
22) Benzo(a)pyrene	18.04	252	949466	0.424ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	824139	0.419ug/ml	100
24) Dibenzo(a,h)anthracene	21.18	278	922854	0.429ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	930201	0.414ug/ml	72

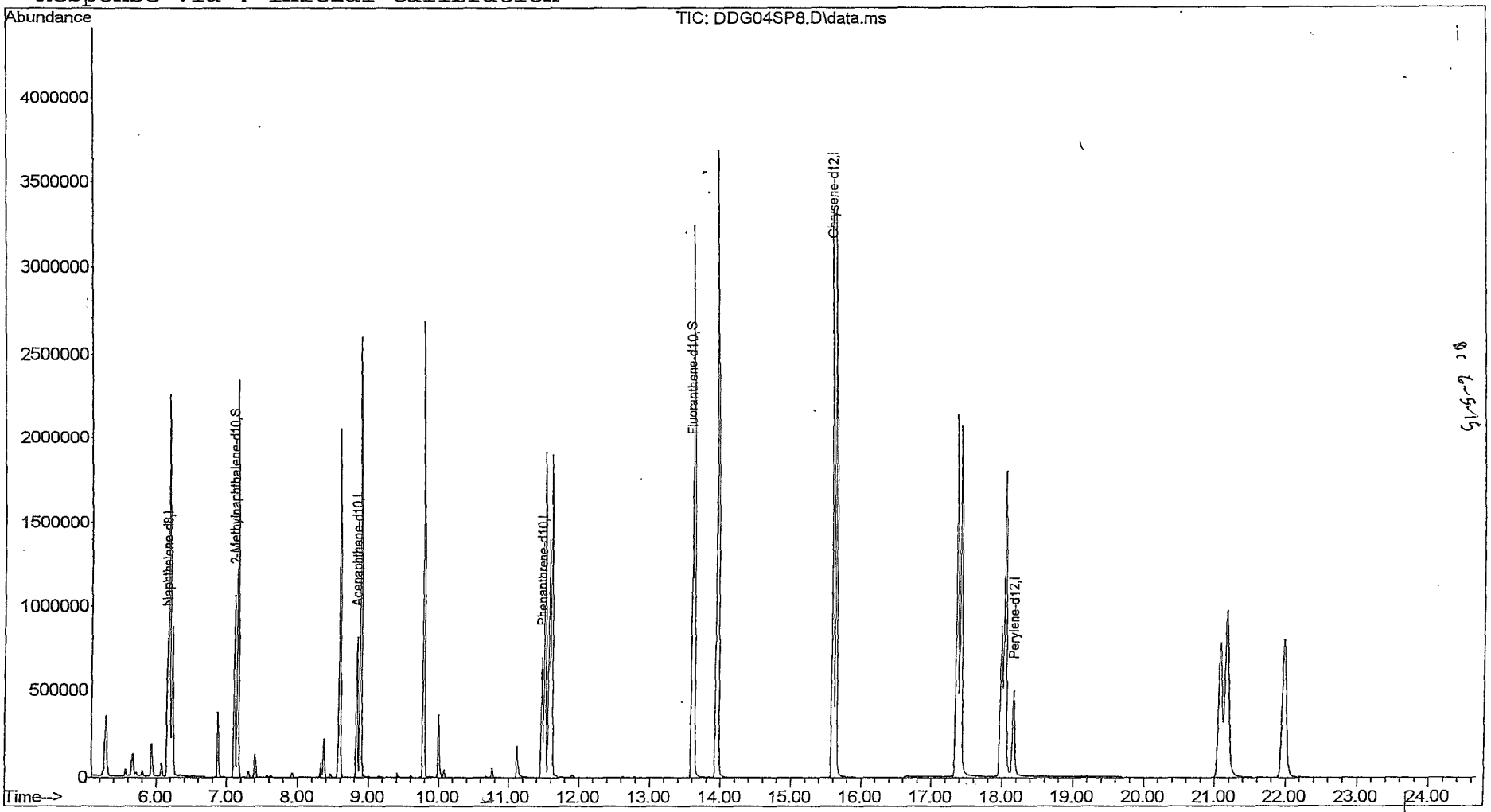
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG04SP8.D Vial: 4
Acq On : 03/25/2015 10:55 Operator: DJC
Sample : SSTD0.8DG 27494 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 11:20:22 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG04SP8.D Vial: 4
Acq On : 03/25/2015 10:55 Operator: DJC
Sample : SSTD0.8DG 27494 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 11:20:22 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	920941	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	551221	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	930295	0.40 ug/ml	
15) Chrysene-d12	15.61	240	1059796	0.40 ug/ml	
19) Perylene-d12	18.16	264	900237	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	1150033	0.766ug/mL	
13) Fluoranthene-d10	13.60	212	2013973	0.799ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	1849404	0.759ug/ml	93
4) 2-Methylnaphthalene	7.16	142	1201438	0.771ug/ml	97
6) Acenaphthylene	8.59	152	1914904	0.805ug/ml	96
7) Acenaphthene	8.89	153	1204425	0.779ug/ml	98
8) Fluorene	9.79	166	1407005	0.791ug/ml	97
10) Pentachlorophenol	11.12	266	113063	0.870ug/ml	100
11) Phenanthrene	11.51	178	2115316	0.794ug/ml	97
12) Anthracene	11.61	178	2112202	0.833ug/ml	96
14) Fluoranthene	13.62	202	2456577	0.820ug/ml	91
16) Pyrene	13.97	202	2604313	0.782ug/ml	91
17) Benzo(a)anthracene	15.59	228	2220157	0.788ug/ml	99
18) Chrysene	15.64	228	2333590	0.779ug/ml	99
20) Benzo(b)fluoranthene	17.36	252	2225635	0.804ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	2331572	0.816ug/ml	100
22) Benzo(a)pyrene	18.04	252	2180024	0.838ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	1904485	0.836ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	2122556	0.845ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	2112907	0.816ug/ml	72

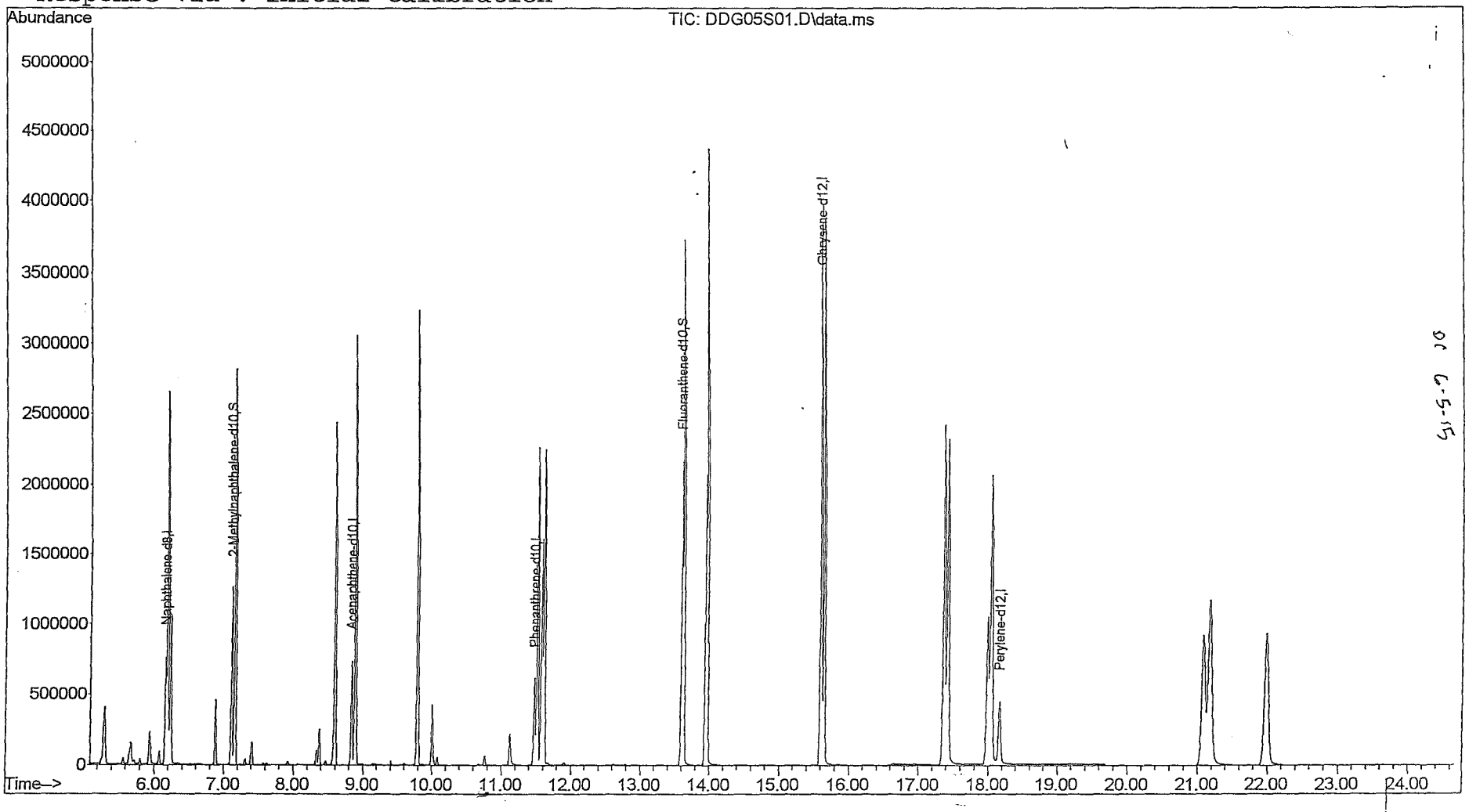
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG05S01.D Vial: 5
Acq On : 03/25/2015 11:25 Operator: DJC
Sample : SSTD001DG 27495 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 11:50:19 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



6-5-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG05S01.D Vial: 5
Acq On : 03/25/2015 11:25 Operator: DJC
Sample : SSTD001DG 27495 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 11:50:19 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	848708	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	499984	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	848866	0.40 ug/ml	
15) Chrysene-d12	15.61	240	967696	0.40 ug/ml	
19) Perylene-d12	18.16	264	809238	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	1370896	1.001ug/mL	
13) Fluoranthene-d10	13.59	212	2406449	1.046ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	2194653	0.990ug/ml	93
4) 2-Methylnaphthalene	7.16	142	1433760	1.008ug/ml	97
6) Acenaphthylene	8.59	152	2294412	1.062ug/ml	96
7) Acenaphthene	8.89	153	1429745	1.026ug/ml	98
8) Fluorene	9.79	166	1682594	1.046ug/ml	97
10) Pentachlorophenol	11.12	266	143501	1.176ug/ml	100
11) Phenanthrene	11.51	178	2514177	1.036ug/ml	97
12) Anthracene	11.61	178	2532691	1.083ug/ml	96
14) Fluoranthene	13.62	202	2908132	1.057ug/ml	91
16) Pyrene	13.97	202	3088951	1.022ug/ml	91
17) Benzo(a)anthracene	15.59	228	2644584	1.031ug/ml	99
18) Chrysene	15.64	228	2764927	1.018ug/ml	98
20) Benzo(b)fluoranthene	17.36	252	2644337	1.061ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	2738771	1.061ug/ml	99
22) Benzo(a)pyrene	18.04	252	2582631	1.091ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	2264899	1.094ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	2511813	1.097ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	2501128	1.069ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-D Calibration Date: 06/18/2015 Time: 12:18

Lab File ID: DEG03SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4G1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

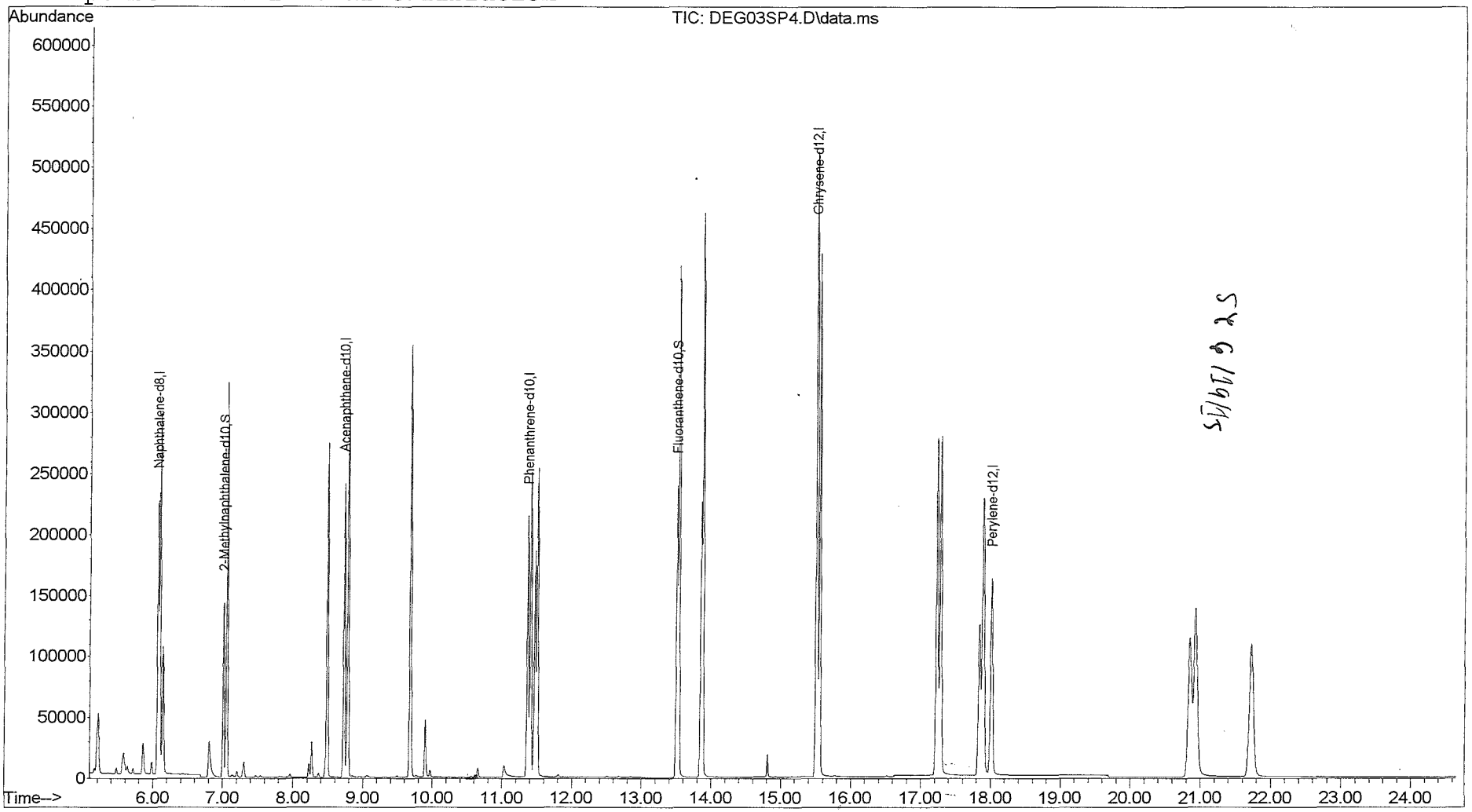
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.915	0.700	-12.3	25.0
2-Methylnaphthalene	0.672	0.609	0.400	-9.3	25.0
Acenaphthylene	1.750	1.569	0.900	-10.4	25.0
Acenaphthene	1.120	1.000	0.900	-10.7	25.0
Fluorene	1.299	1.143	0.900	-12.0	25.0
Pentachlorophenol	0.060	0.042	0.050	-29.6	25.0
Phenanthrene	1.152	0.971	0.700	-15.6	25.0
Anthracene	1.120	0.954	0.700	-14.8	25.0
Fluoranthene	1.311	1.112	0.600	-15.2	25.0
Pyrene	1.255	1.099	0.600	-12.5	25.0
Benzo(a)anthracene	1.067	0.987	0.800	-7.5	25.0
Chrysene	1.127	0.965	0.700	-14.4	25.0
Benzo(b)fluoranthene	1.247	1.028	0.700	-17.5	25.0
Benzo(k)fluoranthene	1.292	1.062	0.700	-17.8	25.0
Benzo(a)pyrene	1.191	0.996	0.700	-16.4	25.0
Indeno(1,2,3-cd)pyrene	1.043	0.965	0.500	-7.5	25.0
Dibenzo(a,h)anthracene	1.153	0.993	0.400	-13.9	25.0
Benzo(g,h,i)perylene	1.172	1.005	0.500	-14.3	25.0
Fluoranthene-d10	1.094	0.957	0.010	-12.5	25.0
2-Methylnaphthalene-d10	0.645	0.599	0.010	-7.2	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\18JUN15\DEG03SP4.D Vial: 1
Acq On : 06/18/2015 12:18 Operator: DJC
Sample : SSTD0.4G1 28416 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 12:43:07 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 19 07:55:33 2015
Response via : Initial Calibration



SV 6/19/15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\18JUN15\DEG03SP4.D Vial: 1
Acq On : 06/18/2015 12:18 Operator: DJC
Sample : SSTD0.4G1 28416 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 12:43:07 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 19 07:55:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	262062	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	165515	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	292698	0.40 ug/ml	
15) Chrysene-d12	15.52	240	314035	0.40 ug/ml	
19) Perylene-d12	18.01	264	290695	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	156993	0.371ug/mL	
13) Fluoranthene-d10	13.50	212	280000	0.350ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	239702	0.351ug/ml	95
4) 2-Methylnaphthalene	7.05	142	159659	0.363ug/ml	99
6) Acenaphthylene	8.49	152	259707	0.359ug/ml	97
7) Acenaphthene	8.78	153	165548	0.357ug/ml	99
8) Fluorene	9.68	166	189131	0.352ug/ml	100
10) Pentachlorophenol	11.03	266	12376	0.282ug/ml	100
11) Phenanthrene	11.40	178	284345	0.337ug/ml	98
12) Anthracene	11.50	178	279286	0.341ug/ml	97
14) Fluoranthene	13.53	202	325518	0.339ug/ml	88
16) Pyrene	13.88	202	345054	0.350ug/ml	88
17) Benzo(a)anthracene	15.50	228	309857	0.370ug/ml	98
18) Chrysene	15.55	228	302988	0.342ug/ml	97
20) Benzo(b)fluoranthene	17.23	252	298890	0.330ug/ml	98
21) Benzo(k)fluoranthene	17.28	252	308579	0.329ug/ml	99
22) Benzo(a)pyrene	17.89	252	289417	0.334ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.85	276	280476	0.370ug/ml	100
24) Dibenzo(a,h)anthracene	20.93	278	288798	0.344ug/ml	98
25) Benzo(g,h,i)perylene	21.73	276	292152	0.343ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Instrument ID: 5975-D Calibration Date: 06/18/2015 Time: 18:44

Lab File ID: DEG15SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4G2 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

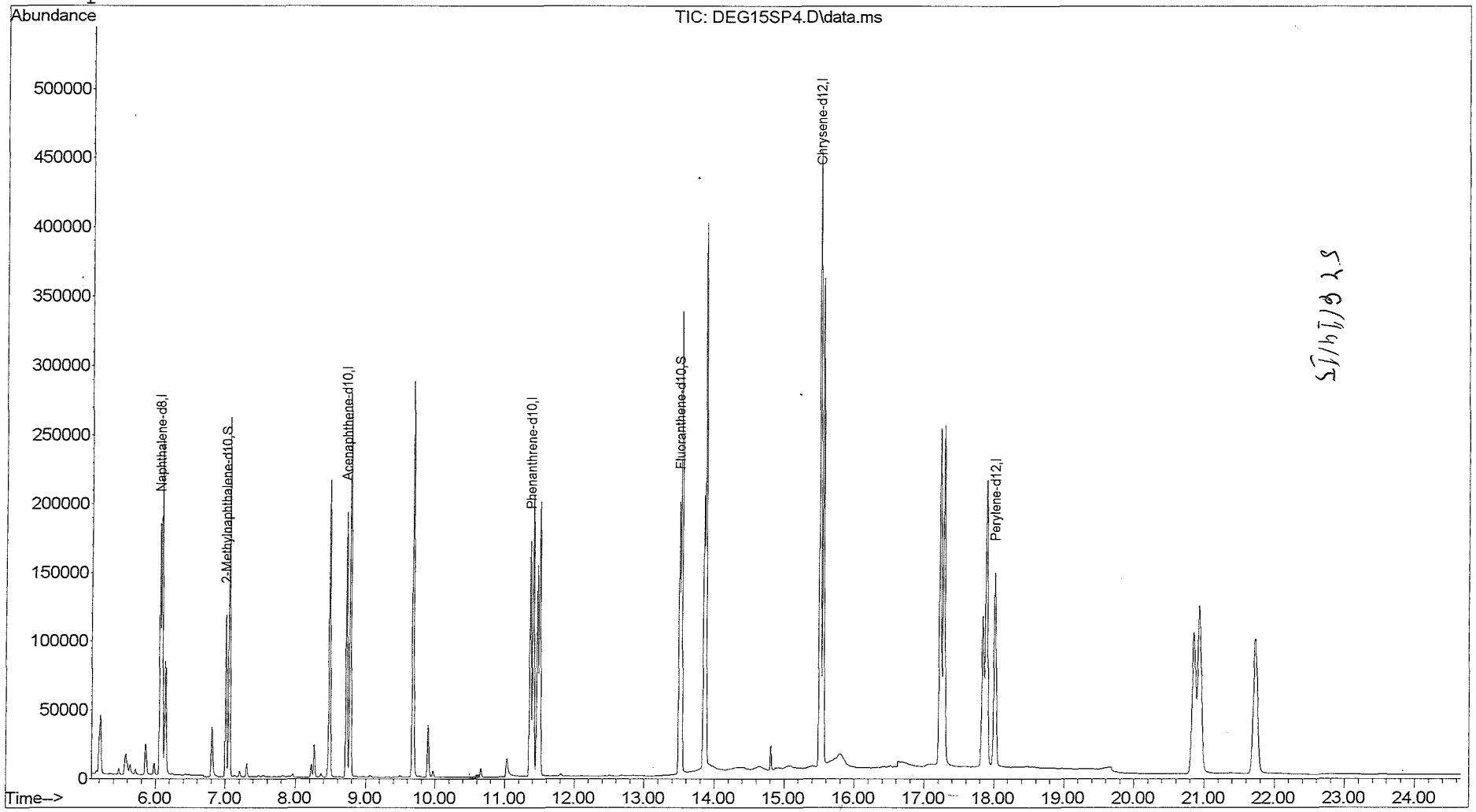
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.914	0.010	-12.4	50.0
2-Methylnaphthalene	0.672	0.607	0.010	-9.7	50.0
Acenaphthylene	1.750	1.585	0.010	-9.4	50.0
Acenaphthene	1.120	1.002	0.010	-10.5	50.0
Fluorene	1.299	1.145	0.010	-11.8	50.0
Pentachlorophenol	0.060	0.057	0.010	-4.4	50.0
Phenanthrene	1.152	0.962	0.010	-16.5	50.0
Anthracene	1.120	0.951	0.010	-15.1	50.0
Fluoranthene	1.311	1.127	0.010	-14.1	50.0
Pyrene	1.255	1.126	0.010	-10.3	50.0
Benzo(a)anthracene	1.067	1.027	0.010	-3.7	50.0
Chrysene	1.127	0.950	0.010	-15.7	50.0
Benzo(b)fluoranthene	1.247	1.063	0.010	-14.7	50.0
Benzo(k)fluoranthene	1.292	1.023	0.010	-20.8	50.0
Benzo(a)pyrene	1.191	0.992	0.010	-16.7	50.0
Indeno(1,2,3-cd)pyrene	1.043	0.984	0.010	-5.6	50.0
Dibenzo(a,h)anthracene	1.153	1.009	0.010	-12.5	50.0
Benzo(g,h,i)perylene	1.172	1.026	0.010	-12.5	50.0
Fluoranthene-d10	1.094	0.984	0.010	-10.0	50.0
2-Methylnaphthalene-d10	0.645	0.599	0.010	-7.3	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\18JUN15\DEG15SP4.D Vial: 1
Acq On : 06/18/2015 18:44 Operator: DJC
Sample : SSTD0.4G2 28416 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 19:09:31 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 19 07:56:52 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\18JUN15\DEG15SP4.D Vial: 1
Acq On : 06/18/2015 18:44 Operator: DJC
Sample : SSTD0.4G2 28416 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 18 19:09:31 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 19 07:56:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	214144	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	133774	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	237476	0.40 ug/ml	
15) Chrysene-d12	15.52	240	260183	0.40 ug/ml	
19) Perylene-d12	18.01	264	254332	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	128178	0.371ug/mL	
13) Fluoranthene-d10	13.50	212	233708	0.360ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	195770	0.351ug/ml	95
4) 2-Methylnaphthalene	7.05	142	129913	0.361ug/ml	98
6) Acenaphthylene	8.49	152	212067	0.362ug/ml	97
7) Acenaphthene	8.78	153	134050	0.358ug/ml	99
8) Fluorene	9.68	166	153213	0.353ug/ml	100
10) Pentachlorophenol	11.03	266	13638	0.383ug/ml	100
11) Phenanthrene	11.40	178	228446	0.334ug/ml	99
12) Anthracene	11.50	178	225783	0.340ug/ml	97
14) Fluoranthene	13.53	202	267551	0.344ug/ml	89
16) Pyrene	13.88	202	292906	0.359ug/ml	88
17) Benzo(a)anthracene	15.50	228	267149	0.385ug/ml	98
18) Chrysene	15.55	228	247289	0.337ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	270458	0.341ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	260076	0.317ug/ml	99
22) Benzo(a)pyrene	17.89	252	252203	0.333ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.85	276	250375	0.378ug/ml	100
24) Dibenzo(a,h)anthracene	20.93	278	256554	0.350ug/ml	99
25) Benzo(g,h,i)perylene	21.74	276	260879	0.350ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L96

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 450834

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DEG11BLK

Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

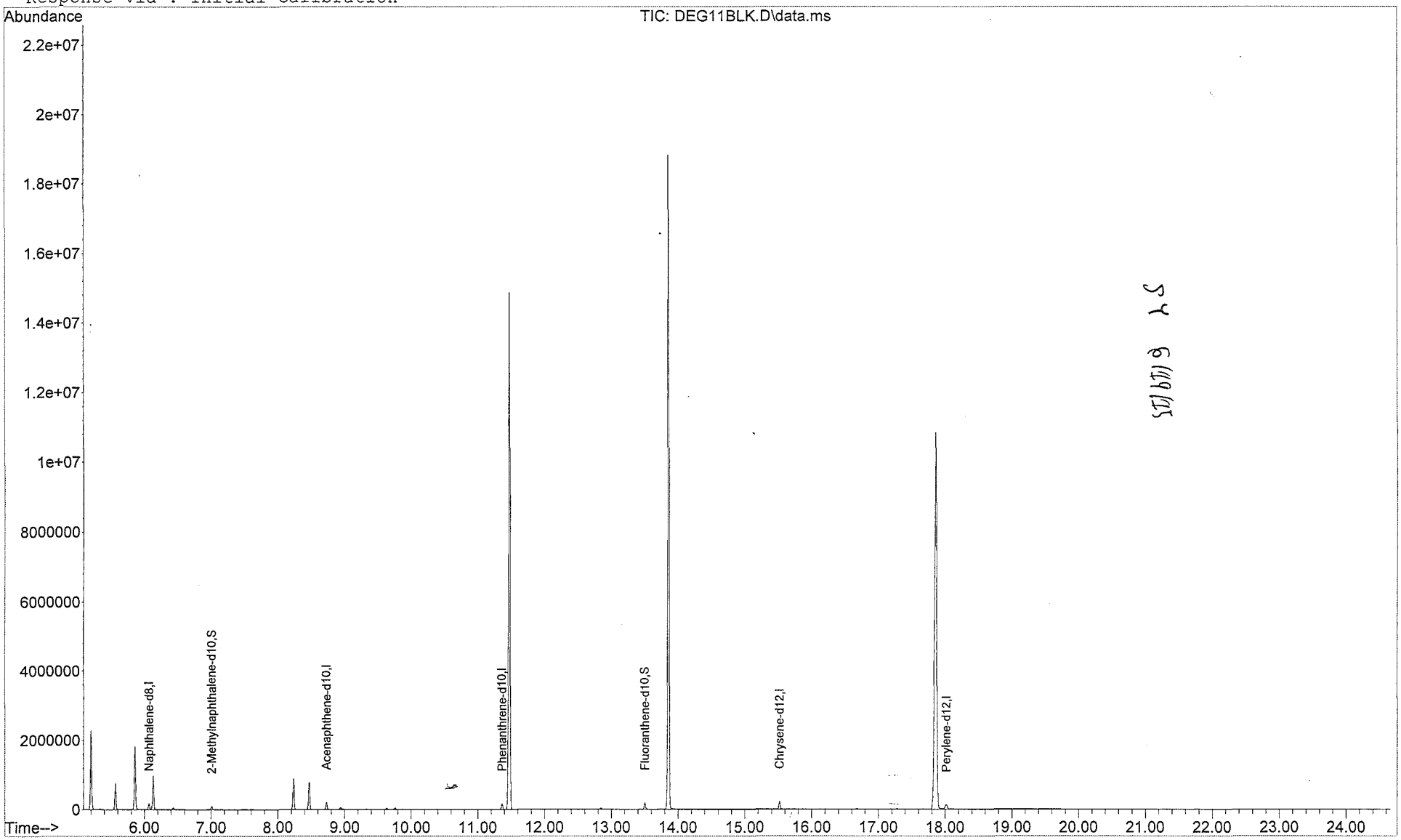
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	Naphthalene	0.10	U
91-57-6	2-Methylnaphthalene	0.10	U
208-96-8	Acenaphthylene	0.10	U
83-32-9	Acenaphthene	0.10	U
86-73-7	Fluorene	0.10	U
87-86-5	Pentachlorophenol	0.20	U
85-01-8	Phenanthrene	0.10	U
120-12-7	Anthracene	0.10	U
206-44-0	Fluoranthene	0.10	U
129-00-0	Pyrene	0.10	U
56-55-3	Benzo(a)anthracene	0.10	U
218-01-9	Chrysene	0.10	U
205-99-2	Benzo(b)fluoranthene	0.10	U
207-08-9	Benzo(k)fluoranthene	0.10	U
50-32-8	Benzo(a)pyrene	0.10	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U
53-70-3	Dibenzo(a,h)anthracene	0.10	U
191-24-2	Benzo(g,h,i)perylene	0.10	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG11BLK.D Vial: 10
Acq On : 06/18/2015 16:42 Operator: DJC
Sample : 450834 SBLK34 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 19 09:03:02 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG11BLK.D Vial: 10
Acq On : 06/18/2015 16:42 Operator: DJC
Sample : 450834 SBLK34 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 09:03:02 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	197060	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	140405	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	228449	0.40 ug/ml
15) Chrysene-d12	15.52	240	243321	0.40 ug/ml
19) Perylene-d12	18.02	264	246513	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	99965	0.314ug/mL
13) Fluoranthene-d10	13.50	212	216179	0.346ug/mL

Target Compounds				Qvalue
2) Naphthalene	0.00	128	Not Detected	
4) 2-Methylnaphthalene	0.00	142	Not Detected	
6) Acenaphthylene	0.00	152	Not Detected	
7) Acenaphthene	0.00	153	Not Detected	
8) Fluorene	0.00	166	Not Detected	
10) Pentachlorophenol	0.00	266	Not Detected	
11) Phenanthrene	0.00	178	Not Detected	
12) Anthracene	0.00	178	Not Detected	
14) Fluoranthene	0.00	202	Not Detected	
16) Pyrene	0.00	202	Not Detected	
17) Benzo(a)anthracene	0.00	228	Not Detected	
18) Chrysene	0.00	228	Not Detected	
20) Benzo(b)fluoranthene	0.00	252	Not Detected	
21) Benzo(k)fluoranthene	0.00	252	Not Detected	
22) Benzo(a)pyrene	0.00	252	Not Detected	
23) Indeno(1,2,3-c,d)pyrene	0.00	276	Not Detected	
24) Dibenzo(a,h)anthracene	0.00	278	Not Detected	
25) Benzo(g,h,i)perylene	0.00	276	Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00233

Batch Worklist

Batch: EVO/ 5678 Created: 6/11/2015 11:43 Instrument: 5975-E HBN: 150366
Rule: SOM VOA, Water Analyst: R. Haynes Status: WP

Workorder: 1515386 SDG: F9L96 Case: 45316
Workorder: 1515556 SDG: F9L96 Case: 45316
Workorder: 1515629 SDG: F9L96 Case: 45316
Workorder: 1515739 SDG: F9L96 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451199	HB for HBN 150366 [EVO/5678]				HB	3		SOMVOAW..3	6188	6/21/2015	6/12/2015	6/11/2015
2	451200	MB for HBN 150366 [EVO/5678]				MB	3		SOMVOAW..3	6188	6/21/2015	6/12/2015	6/11/2015
3	1515386001	F9L96				FLDQC	3	1515386001-A	S12VOAW..3	5936	6/12/2015	6/12/2015	6/11/2015
4	1515556001	F9M46				FLDQC	3	1515556001-A	S12VOAW..3	5936	6/13/2015	6/13/2015	6/11/2015
5	1515629001	F9M80				FLDQC	3	1515629001-A	S12VOAW..3	5936	6/14/2015	6/14/2015	6/11/2015
6	1515739001	F9K01				FLDQC	3	1515739001-A	S12VOAW..3	5936	6/15/2015	6/15/2015	6/11/2015

ALS Laboratory Group GC/MS Volatile Organic Analysis			
DCL Ref ID:	Samples:	Date Received:	Date Analyzed:
1515386	1	6/2/2015	6/11/2015
1515556	1	6/3/2015	6/11/2015
1515629	1	6/4/2015	6/11/2015
1515739	1	6/5/2015	6/11/2015
Sample Matrix: Water			
Method: EPA CLP SOM01.2 Low Water			
Instrument: 5975-E			
Column: Rtx-VMS 30 m 0.250 mm			
Temp. Program: 45° C (5.0 min) 15°C /min ramp to 200°C (0 min) 30°C /min ramp to 230°C (2.67 min). Run Time = 19.0 min.			
Carrier Gas: Helium			
Purge/Trap: OI Analytical Eclipse 4660/#10 Trap; Varian Archon Autosampler.			
Purge/Trap Conditions: Purge Time: 11 min. (1 min. dry purge); Desorb Time: 0.8 min. @ 190° C.			
Purge Gas: Helium			
Purge Flow: ~35 mL/min. Sample heated to 40° C.			
Trap Temp: < 35° C			
Initial Calibration Curve: The calibration curve is ECLPSB4 analyzed on 06-08-15.			
Initial Calibration Standards for ECLPSB2: VSTD005SE, 010SE, 050SE, 100SE, 200SE - 26268, 28196, 97, 99.			
Calibration Verification Standards VSTD050W1, VSTD050W2 - 28268, 28198, 28199.			
All analyses meet established QC acceptance criteria.			
Results reported in units of ug/L.	All pH readings were less than 2.		RJH

EPA Sample Receipt History

DUE Wed 6/24

Client: U. S. EPA Region 6 **Contract:** EPW11037 **Case:** 45316 **SDG:** F9L96 **Mod:** None

Due to Client: Fri, Jun 26, 2015 **TAT:** 21 **Date Reported:** Not Reported **Status:** CLOSED

Workorder Information **Program:** SOM01.2 **Region:** 6 **EDD Level:** 3 HBN: 150366 / 5678

Work Order	Received	PR	Fractions
1515386	06/02/15 9:04 AM	No	Volatiles Low 11JUN15 E
1515556	06/03/15 10:07 AM	No	Volatiles Low
1515629	06/04/15 9:15 AM	No	Semivolatiles, Semivolatiles SIM, Volatiles Low
1515739	06/05/15 10:09 AM	No	Volatiles Low

Sample Information

Lab ID	Client ID	Type	Matrix	ARO	PEST	BNA	BNASIM	VT	VOASIM	VLM
pH<2 ✓ 1515739001 (F)	F9K01	FLDQC	Water	☐	☐	☐	☐	☐	☐	☒
✓ 1515386001 (F)	F9L96	FLDQC	Water	☐	☐	☐	☐	☐	☐	☒
✓ 1515556001 (F)	F9M46	FLDQC	Water	☐	☐	☐	☐	☐	☐	☒
1515629002	F9M47	FLDQC	Water[P]	☐	☐	☒	☒	☐	☐	☐
1515629003	F9M53	FLDQC	Water[P]	☐	☐	☒	☒	☐	☐	☐
✓ 1515629001 (F)	F9M80	FLDQC	Water	☐	☐	☐	☐	☐	☐	☒
Field Samples: 6		**MS:** 0	**MSD:** 0	**MD:** 0	**PE:** 0					

EQ 87 DFBTW1
88 5050 TW1
89 BLK W1
90
91
92
94
95 HBLKT1
96 5050 W2

Report Parameters = SDG:<NULL> Case:<NULL> Region:<NULL>
Mod:<NULL> Workorder:1515739 BeginDate:<NULL> EndDate:<NULL>
OpenSummary:No SortBy:Case

DATACHEM LABORATORIES - GC\MS VOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-E

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPARGER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)	ISTD #1 AREA
EQ42BFB	06/08/2015 16:21	CQC	ECLPSB4	1	19.00	1	SOIL	BFBSE	50 ng BFB	0
	COMMENTS: 2.0 uL of 28268									
EQ43S05	06/08/2015 16:45	CQC	ECLPSB4	2	19.00	1	SOIL	VSTD005SE	VSTD005SE 5.0	1806560
	COMMENTS: 2.5 uL of 28196; 0.25 uL of 28197, 99; 2.0 uL									
EQ44S10	06/08/2015 17:09	CQC	ECLPSB4	3	19.00	1	SOIL	VSTD010SE	VSTD010SE 10 u	1727853
	COMMENTS: 2.5 uL of 28196; 0.5 uL of 28197, 99									
EQ45S50	06/08/2015 17:37	CQC	ECLPSB4	4	19.00	1	SOIL	VSTD050SE	VSTD050SE 50 u	1787958
	COMMENTS: 2.5 uL of 28196; 2.5 uL of 28197, 99									
EQ46S100	06/08/2015 18:01	CQC	ECLPSB4	5	19.00	1	SOIL	VSTD100SE	VSTD100SE 100	1843623
	COMMENTS: 2.5 uL of 28196; 5.0 uL of 28197, 99									
EQ47S200	06/08/2015 18:25	CQC	ECLPSB4	6	19.00	1	SOIL	VSTD200SE	VSTD200SE 200	1832480
	COMMENTS: 2.5 uL of 28196; 10 uL of 28197, 99									
EQ48BLK	06/08/2015 18:49	CQC	ECLPSB4	7	19.00	1	SOIL	System Blank		1728982
	COMMENTS: 2.5 uL of 28198									
EQ49BLK	06/08/2015 19:19	CQC	ECLPMB1	8	19.00	1	SOIL	System Blank		1670359
	COMMENTS: 2.5 uL of 28198									
EQ50BFB	06/08/2015 19:43	CQC	ECLPMB1	9	19.00	1	SOIL	BFBME	50 ng BFB	0
	COMMENTS: 2.0 uL of 28268									
EQ51S05	06/08/2015 20:20	CQC	ECLPMB1	10	19.00	1	SOIL	VSTD005MX	VSTD005MX 5.0	1607548
	COMMENTS: 2.5 uL of 28196; 0.25 uL of 28197, 99; 2.0 uL									
EQ52S10	06/08/2015 20:44	CQC	ECLPMB1	11	19.00	1	SOIL	VSTD010ME	VSTD010ME 10 u	1687232
	COMMENTS: 2.5 uL of 28196; 0.5 uL of 28197, 99									
EQ53S50	06/08/2015 21:16	CQC	ECLPMB1	12	19.00	1	SOIL	VSTD050ME	VSTD050ME 50 u	1601251
	COMMENTS: 2.5 uL of 28196; 2.5 uL of 28197, 99									
EQ54S100	06/08/2015 21:40	CQC	ECLPMB1	13	19.00	1	SOIL	VSTD100ME	VSTD100ME 100	1705739
	COMMENTS: 2.5 uL of 28196; 5.0 uL of 28197, 99									
EQ55S200	06/08/2015 22:04	CQC	ECLPMB1	14	19.00	1	SOIL	VSTD200ME	VSTD200ME 200	1675825
	COMMENTS: 2.5 uL of 28196; 10 uL of 28197, 99									
EQ56BLK	06/08/2015 22:27	CQC	ECLPMB1	15	19.00	1	SOIL	System Blank		1573609
	COMMENTS: 2.5 uL of 28198									
EQ57BLK	06/08/2015 22:51	CQC	ECLPMB1	16	19.00	1	SOIL	System Blank		1582167
	COMMENTS: 2.5 uL of 28198									
EQ51R05	06/08/2015 23:54	CQC	ECLPMB1	17	19.00	1	SOIL	VSTD005ME	VSTD005ME 5.0	1559291
	COMMENTS: 2.5 uL of 28196; 0.25 uL of 28197, 99; 2.0 uL									

DATACHEM LABORATORIES - GC\MS VOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-E

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPAR GER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)	ISTD #1 AREA
EQ87BFB	06/11/2015 08:47	RJH	ECLPSB4	1	19.00	1	WATER	BFBW1	50 ng BFB	0
	COMMENTS: 2.0 uL of 28268									
EQ88S50	06/11/2015 09:11	RJH	ECLPSB4	2	19.00	1	WATER	VSTD050W1	VSTD050W1 50 u	1492439
	COMMENTS: BFBT1 2.5uL 28198, 99; 2uL 28268									
EQ89BLK	06/11/2015 09:37	RJH	ECLPSB4	3	19.00	1	WATER	XXXXXX	VBLKW1	1537619
	COMMENTS: 2.5 uL of 28198									
EQ90FK01	06/11/2015 10:03	RJH	ECLPSB4	4	19.00	1	WATER	1515739001	F9K01	1532371
	COMMENTS: 2.5 uL of 28198									
EQ91FM46	06/11/2015 10:27	RJH	ECLPSB4	5	19.00	1	WATER	1515556001	F9M46	1529221
	COMMENTS: 2.5 uL of 28198									
EQ92FM80	06/11/2015 10:51	RJH	ECLPSB4	6	19.00	1	WATER	1515629001	F9M80	1566406
	COMMENTS: 2.5 uL of 28198									
EQ93FM96	06/11/2015 11:15	RJH	ECLPSB4	7	19.00	5	WATER	1515386001DL	F9L96DL (5)	1529214
	COMMENTS: 2.5 uL of 28198 1:5 DILUTION									
EQ94FM96	06/11/2015 11:39	RJH	ECLPSB4	8	19.00	1	WATER	1515386001	F9L96	1490420
	COMMENTS: 2.5 uL of 28198									
EQ95HBLK	06/11/2015 12:05	RJH	ECLPSB4	9	19.00	1	WATER	XXXXXX	VHBLKW1	1566601
	COMMENTS: 2.5 uL of 28198									
EQ96S50	06/11/2015 12:29	RJH	ECLPSB4	10	19.00	1	WATER	VSTD050W2	VSTD050W2	1528685
	COMMENTS: 2.5 uL 28198, 28199									
EQ97S50	06/11/2015 12:54	RJH	ECLPSB4	11	19.00	1	WATER	VSTD050W2	VSTD050W2	1521155
	COMMENTS: 2.5 uL 28198, 28199									

STANDARD REPORT

Working Standard - 4-BFB

4-BFB — Description - 4-Bromofluorobenzene

Standard: 27660 | Created By: C. Coleman | Amount: 5 mL
MFG: | Create Date: 04/06/2015 | Expires: 06/07/2015
MFG Lot: CH-3248 | Lab Lot: 4-BFB CH-3248 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	25 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22119	BFB	Bromofluorobenzene Stock	BFB CH-3248	62.5 uL	11/30/2015
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	4.9375 mL	12/05/2025

STANDARD REPORT

Constituent

Stock Standard - BFB

BFB — Description - Bromofluorobenzene Stock

Standard: 22119 | Created By: C. Coleman | Amount:
MFG: Ultra Scientific | Create Date: 1/22/2014 | Expires: 11/30/2015
MFG Lot: CH-3248 | Lab Lot: BFB CH-3248 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	2000 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol — Description - Purge & Trap Methanol Solvent

Standard: 26311 | Created By: C. Coleman | Amount: 235 mL
MFG: B&J | Create Date: 12/5/2014 | Expires: 12/5/2025
MFG Lot: DJ-239 | Lab Lot: P&T MeOH DJ-239 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Working Standard - 4-BFB

4-BFB — Description - 4-Bromofluorobenzene

Standard: 28268 | Created By: C. Coleman | Amount: 5 mL
MFG: | Create Date: 06/06/2015 | Expires: 08/06/2015
MFG Lot: CH-3248 | Lab Lot: 4-BFB CH-3248 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	25 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22119	BFB	Bromofluorobenzene Stock	BFB CH-3248	62.5 uL	11/30/2015
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	4.9375 mL	12/05/2025

STANDARD REPORT

Constituent

Stock Standard - BFB

BFB		Description - Bromofluorobenzene Stock
Standard: 22119	Created By: C. Coleman	Amount:
MFG: Ultra Scientific	Create Date: 1/22/2014	Expires: 11/30/2015
MFG Lot: CH-3248	Lab Lot: BFB CH-3248	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	2000 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Working Standard - CLPIstdOnly

CLPIstdOnly		Description - CLP Internal Standard Only
Standard: 28196	Created By: C. Coleman	Amount: 2 mL
MFG:	Create Date: 05/29/2015	Expires: 06/29/2015
MFG Lot:	Lab Lot: CLP Istd Only	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	100 ug/mL
2	3114-55-4	Chlorobenzene-d5	100 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13356	CLP ISTD	EPA CLP Istd Stock	CLP Istd 080811	80 uL	08/08/2016
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.92 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP ISTD

CLP ISTD		Description - EPA CLP Istd Stock
Standard: 13356	Created By: C. Coleman	Amount:
MFG: ABSOLUTE STANDARDS,	Create Date: 8/8/2011	Expires: 8/8/2016
MFG Lot: 080811	Lab Lot: CLP Istd 080811	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	2500 ug/mL
2	3114-55-4	Chlorobenzene-d5	2500 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	2500 ug/mL

STANDARD REPORT

Working Standard - CLPDMCOnly

CLPDMCOnly		Description - CLP DMC Only
Standard: 28197	Created By: C. Coleman	Amount: 2 mL
MFG:	Create Date: 05/29/2015	Expires: 06/29/2015
MFG Lot:	Lab Lot: CLP DMC Only	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	17647-74-4	1,4-Dioxane-d8	2000 ug/mL
2	1076-43-3	Benzene-d6	100 ug/mL
3	865-49-6	Chloroform-d	100 ug/mL
4	2199-69-1	1,2-Dichlorobenzene-d4	100 ug/mL
5	17060-07-0	1,2-Dichloroethane-d4	100 ug/mL
6	22280-73-5	1,1-Dichloroethene-d2	100 ug/mL
7	78-87-5(d6)	1,2-Dichloropropane-d6	100 ug/mL
8	93951-86-1	trans-1,3-Dichloropropene-d4	100 ug/mL
9	33685-54-0	1,1,2,2-Tetrachloroethane-d2	100 ug/mL
10	2037-26-5	Toluene-d8	100 ug/mL
11	24313-50-6	2-Butanone-d5	200 ug/mL
12	4840-82-8	2-Hexanone-d5	200 ug/mL
13	19199-91-8	Chloroethane-d5	100 ug/mL
14	6745-35-3	Vinyl Chloride-d3	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22415	CLP DMC	EPA CLP DMC Liquids Stock	CLP DMC 011614	100 uL	01/16/2017
26068	CLP DMC KET	EPA CLP DMC Ketones Stock	CLP DMC Ket 080414	160 uL	08/04/2017
26069	CLP 14Dioxd8	EPA CLP 1,4-Dioxane-d8 Stock	CLP 14Dioxd8 080414	128 uL	08/04/2017
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.512 mL	12/05/2025
27293	CLP DMC Gas	EPA CLP DMC Gases Stock	CLP DMC Gas 022315	100 uL	02/23/2016

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxd8

CLP 14Dioxd8		Description - EPA CLP 1,4-Dioxane-d8 Stock
Standard: 26069	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 11/20/2014	Expires: 8/4/2017
MFG Lot: 080414	Lab Lot: CLP 14Dioxd8 080414	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	17647-74-4	1,4-Dioxane-d8	31250 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP DMC Gas

CLP DMC Gas	Description - EPA CLP DMC Gases Stock	
Standard: 27293	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 3/3/2015	Expires: 2/23/2018
MFG Lot: 022315	Lab Lot: CLP DMC Gas 022315	Usable: Yes
Part ID: 94168		

Pos.	Analyte	Name	Concentration
1	19199-91-8	Chloroethane-d5	2000 ug/mL
2	6745-35-3	Vinyl Chloride-d3	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC

CLP DMC	Description - EPA CLP DMC Liquids Stock	
Standard: 22415	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 2/11/2014	Expires: 1/16/2017
MFG Lot: 011614	Lab Lot: CLP DMC 011614	Usable: Yes
Part ID: 94155		

Pos.	Analyte	Name	Concentration
1	1076-43-3	Benzene-d6	2000 ug/mL
2	865-49-6	Chloroform-d	2000 ug/mL
3	2199-69-1	1,2-Dichlorobenzene-d4	2000 ug/mL
4	17060-07-0	1,2-Dichloroethane-d4	2000 ug/mL
5	22280-73-5	1,1-Dichloroethene-d2	2000 ug/mL
6	78-87-5(d6)	1,2-Dichloropropane-d6	2000 ug/mL
7	93951-86-1	trans-1,3-Dichloropropene-d4	2000 ug/mL
8	33685-54-0	1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
9	2037-26-5	Toluene-d8	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC KET

CLP DMC KET	Description - EPA CLP DMC Ketones Stock	
Standard: 26068	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 11/20/2014	Expires: 8/4/2017
MFG Lot: 080414	Lab Lot: CLP DMC Ket 080414	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	24313-50-6	2-Butanone-d5	2500 ug/mL
2	4840-82-8	2-Hexanone-d5	2500 ug/mL

STANDARD REPORT

Working Standard - CLPIstd/DMC

CLPIstd/DMC	Description - CLP Internal Standard/DMC	
Standard: 28198	Created By: C. Coleman	Amount: 2 mL
MFG:	Create Date: 05/29/2015	Expires: 06/29/2015
MFG Lot:	Lab Lot: CLP Istd/DMC	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	100 ug/mL
2	3114-55-4	Chlorobenzene-d5	100 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	100 ug/mL
4	17647-74-4	1,4-Dioxane-d8	2000 ug/mL
5	1076-43-3	Benzene-d6	100 ug/mL
6	865-49-6	Chloroform-d	100 ug/mL
7	2199-69-1	1,2-Dichlorobenzene-d4	100 ug/mL
8	17060-07-0	1,2-Dichloroethane-d4	100 ug/mL
9	22280-73-5	1,1-Dichloroethene-d2	100 ug/mL
10	78-87-5(d6)	1,2-Dichloropropane-d6	100 ug/mL
11	93951-86-1	trans-1,3-Dichloropropene-d4	100 ug/mL
12	33685-54-0	1,1,2,2-Tetrachloroethane-d2	100 ug/mL
13	2037-26-5	Toluene-d8	100 ug/mL
14	24313-50-6	2-Butanone-d5	200 ug/mL
15	4840-82-8	2-Hexanone-d5	200 ug/mL
16	19199-91-8	Chloroethane-d5	100 ug/mL
17	6745-35-3	Vinyl Chloride-d3	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13356	CLP ISTD	EPA CLP Istd Stock	CLP Istd 080611	80 uL	08/08/2016
22415	CLP DMC	EPA CLP DMC Liquids Stock	CLP DMC 011614	100 uL	01/16/2017
26068	CLP DMC KET	EPA CLP DMC Ketones Stock	CLP DMC Ket 080414	160 uL	08/04/2017
26069	CLP 14Dioxd8	EPA CLP 1,4-Dioxane-d8 Stock	CLP 14Dioxd8 080414	128 uL	08/04/2017
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.432 mL	12/05/2025
27293	CLP DMC Gas	EPA CLP DMC Gases Stock	CLP DMC Gas 022315	100 uL	02/23/2018

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxd8

CLP 14Dioxd8		Description - EPA CLP 1,4-Dioxane-d8 Stock
Standard: 26069	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 11/20/2014	Expires: 8/4/2017
MFG Lot: 080414	Lab Lot: CLP 14Dioxd8 080414	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	17647-74-4	1,4-Dioxane-d8	31250 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP ISTD

CLP ISTD		Description - EPA CLP Istd Stock
Standard: 13356	Created By: C. Coleman	Amount:
MFG: ABSOLUTE STANDARDS,	Create Date: 8/8/2011	Expires: 8/8/2016
MFG Lot: 080811	Lab Lot: CLP Istd 080811	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	2500 ug/mL
2	3114-55-4	Chlorobenzene-d5	2500 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	2500 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC Gas

CLP DMC Gas		Description - EPA CLP DMC Gases Stock
Standard: 27293	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 3/3/2015	Expires: 2/23/2016
MFG Lot: 022315	Lab Lot: CLP DMC Gas 022315	Usable: Yes
Part ID: 94156		

Pos.	Analyte	Name	Concentration
1	19199-91-8	Chloroethane-d5	2000 ug/mL
2	6745-35-3	Vinyl Chloride-d3	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC

CLP DMC — Description - EPA CLP DMC Liquids Stock

Standard: 22415 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 2/11/2014 | Expires: 1/16/2017
MFG Lot: 011614 | Lab Lot: CLP DMC 011614 | Usable: Yes
Part ID: 94165

Pos.	Analyte	Name	Concentration
1	1076-43-3	Benzene-d6	2000 ug/mL
2	865-49-6	Chloroform-d	2000 ug/mL
3	2199-69-1	1,2-Dichlorobenzene-d4	2000 ug/mL
4	17060-07-0	1,2-Dichloroethane-d4	2000 ug/mL
5	22280-73-5	1,1-Dichloroethene-d2	2000 ug/mL
6	78-87-5(d6)	1,2-Dichloropropane-d6	2000 ug/mL
7	93951-86-1	trans-1,3-Dichloropropene-d4	2000 ug/mL
8	33685-54-0	1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
9	2037-26-5	Toluene-d8	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC KET

CLP DMC KET — Description - EPA CLP DMC Ketones Stock

Standard: 26068 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 11/20/2014 | Expires: 8/4/2017
MFG Lot: 080414 | Lab Lot: CLP DMC Ket 080414 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	24313-50-6	2-Butanone-d5	2500 ug/mL
2	4840-82-8	2-Hexanone-d5	2500 ug/mL

STANDARD REPORT

Working Standard - CLP VOA

CLP VOA — Description - CLP VOA

Standard: 28199 | Created By: C. Coleman | Amount: 2 mL
MFG: | Create Date: 05/29/2015 | Expires: 06/29/2015
MFG Lot: | Lab Lot: CLP VOA | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	123-91-1	1,4-Dioxane	2000 ug/mL
2	71-43-2	Benzene	100 ug/mL
3	108-88-3	Toluene	100 ug/mL
4	100-41-4	Ethyl benzene	100 ug/mL
5	95-47-6	o-Xylene	100 ug/mL
6	108-38-3	m-Xylene	50 ug/mL
7	106-42-3	p-Xylene	50 ug/mL
8	75-27-4	Bromodichloromethane	100 ug/mL
9	124-48-1	Dibromochloromethane	100 ug/mL
10	75-35-4	1,1-Dichloroethene	100 ug/mL
11	156-59-2	cis-1,2-Dichloroethene	100 ug/mL
12	156-60-5	trans-1,2-Dichloroethene	100 ug/mL
13	75-09-2	Methylene chloride	100 ug/mL
14	74-97-5	Bromochloromethane	100 ug/mL
15	75-25-2	Bromoform	100 ug/mL
16	56-23-5	Carbon tetrachloride	100 ug/mL
17	67-66-3	Chloroform	100 ug/mL
18	75-34-3	1,1-Dichloroethane	100 ug/mL
19	127-18-4	Tetrachloroethene	100 ug/mL
20	71-55-6	1,1,1-Trichloroethane	100 ug/mL
21	96-12-8	1,2-Dibromo-3-Chloropropane	100 ug/mL
22	106-93-4	1,2-Dibromoethane	100 ug/mL
23	107-06-2	1,2-Dichloroethane	100 ug/mL
24	78-87-5	1,2-Dichloropropane	100 ug/mL
25	10061-01-5	cis-1,3-Dichloropropene	100 ug/mL
26	10061-02-6	trans-1,3-Dichloropropene	100 ug/mL
27	79-34-5	1,1,2,2-Tetrachloroethane	100 ug/mL
28	79-00-5	1,1,2-Trichloroethane	100 ug/mL
29	79-01-6	Trichloroethene	100 ug/mL
30	108-90-7	Chlorobenzene	100 ug/mL
31	95-50-1	1,2-Dichlorobenzene	100 ug/mL
32	541-73-1	1,3-Dichlorobenzene	100 ug/mL
33	106-46-7	1,4-Dichlorobenzene	100 ug/mL
34	98-82-8	Cumene	100 ug/mL
35	100-42-5	Styrene	100 ug/mL
36	87-61-6	1,2,3-Trichlorobenzene	100 ug/mL
37	120-82-1	1,2,4-Trichlorobenzene	100 ug/mL
38	75-15-0	Carbon disulfide	100 ug/mL
39	110-82-7	Cyclohexane	100 ug/mL

STANDARD REPORT

Working Standard - CLP VOA

CLP VOA — Description - CLP VOA

Standard: 28199 | Created By: C. Coleman | Amount: 2 mL
MFG: | Create Date: 05/29/2015 | Expires: 06/29/2015
MFG Lot: | Lab Lot: CLP VOA | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
40	79-20-9	Methyl Acetate	100 ug/mL
41	108-87-2	Methylcyclohexane	100 ug/mL
42	1634-04-4	Methyl t-butyl ether	100 ug/mL
43	76-13-1	Freon 113	100 ug/mL
44	67-64-1	Acetone	200 ug/mL
45	78-93-3	Methyl ethyl ketone	200 ug/mL
46	108-10-1	Methyl isobutyl ketone	200 ug/mL
47	591-78-6	2-Hexanone	200 ug/mL
48	75-71-8	Dichlorodifluoromethane	100 ug/mL
49	74-87-3	Methyl chloride	100 ug/mL
50	75-01-4	Vinyl chloride	100 ug/mL
51	74-83-9	Bromomethane	100 ug/mL
52	75-00-3	Ethyl chloride	100 ug/mL
53	76-69-4	Freon 11	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
19269	CLP 14Dioxan	CLP 1,4-Dioxane Stock	CLP 14Dlox 121410	200 uL	12/14/2015
20026	CLP VOA	EPA CLP VOA Stock	CLP VOA 040213	100 uL	04/02/2016
22414	CLP Ketones	EPA CLP Ketones Stock	CLP Ketones 092713	20 uL	09/27/2016
23090	CLP Gases	EPA CLP Gases Stock	CLP Gases 010213	100 uL	01/02/2016
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.58 mL	12/05/2025

STANDARD REPORT

Constituent

Stock Standard - CLP VOA

CLP VOA — Description - EPA CLP VOA Stock

Standard: 20026 | Created By: J. Gress | Amount: 2
MFG: ABSOLUTE STANDARDS, | Create Date: 7/22/2013 | Expires: 4/2/2016
MFG Lot: 040213 | Lab Lot: CLP VOA 040213 | Usable: Yes
Part ID: 94159

Pos.	Analyte	Name	Concentration
1	71-43-2	Benzene	2000 ug/mL
2	108-88-3	Toluene	2000 ug/mL
3	100-41-4	Ethyl benzene	2000 ug/mL
4	95-47-6	o-Xylene	2000 ug/mL
5	108-38-3	m-Xylene	1000 ug/mL
6	106-42-3	p-Xylene	1000 ug/mL
7	75-27-4	Bromodichloromethane	2000 ug/mL
8	124-48-1	Dibromochloromethane	2000 ug/mL
9	75-35-4	1,1-Dichloroethene	2000 ug/mL
10	156-59-2	cis-1,2-Dichloroethene	2000 ug/mL
11	156-60-5	trans-1,2-Dichloroethene	2000 ug/mL
12	75-09-2	Methylene chloride	2000 ug/mL
13	74-97-5	Bromochloromethane	2000 ug/mL
14	75-25-2	Bromoform	2000 ug/mL
15	56-23-5	Carbon tetrachloride	2000 ug/mL
16	67-66-3	Chloroform	2000 ug/mL
17	75-34-3	1,1-Dichloroethane	2000 ug/mL
18	127-18-4	Tetrachloroethene	2000 ug/mL
19	71-55-6	1,1,1-Trichloroethane	2000 ug/mL
20	96-12-8	1,2-Dibromo-3-Chloropropane	2000 ug/mL
21	106-93-4	1,2-Dibromoethane	2000 ug/mL
22	107-06-2	1,2-Dichloroethane	2000 ug/mL
23	78-87-5	1,2-Dichloropropane	2000 ug/mL
24	10061-01-5	cis-1,3-Dichloropropene	2000 ug/mL
25	10061-02-6	trans-1,3-Dichloropropene	2000 ug/mL
26	79-34-5	1,1,2,2-Tetrachloroethane	2000 ug/mL
27	79-00-5	1,1,2-Trichloroethane	2000 ug/mL
28	79-01-6	Trichloroethene	2000 ug/mL
29	108-90-7	Chlorobenzene	2000 ug/mL
30	95-50-1	1,2-Dichlorobenzene	2000 ug/mL
31	541-73-1	1,3-Dichlorobenzene	2000 ug/mL
32	106-46-7	1,4-Dichlorobenzene	2000 ug/mL
33	98-82-8	Cumene	2000 ug/mL
34	100-42-5	Styrene	2000 ug/mL
35	87-61-6	1,2,3-Trichlorobenzene	2000 ug/mL
36	120-82-1	1,2,4-Trichlorobenzene	2000 ug/mL
37	75-15-0	Carbon disulfide	2000 ug/mL
38	110-82-7	Cyclohexane	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP VOA

CLP VOA — Description - EPA CLP VOA Stock

Standard: 20026 | Created By: J. Gress | Amount: 2
MFG: ABSOLUTE STANDARDS, | Create Date: 7/22/2013 | Expires: 4/2/2016
MFG Lot: 040213 | Lab Lot: CLP VOA 040213 | Usable: Yes
Part ID: 94159

Pos.	Analyte	Name	Concentration
39	79-20-9	Methyl Acetate	2000 ug/mL
40	108-87-2	Methylcyclohexane	2000 ug/mL
41	1634-04-4	Methyl t-butyl ether	2000 ug/mL
42	76-13-1	Freon 113	2000 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol — Description - Purge & Trap Methanol Solvent

Standard: 26311 | Created By: C. Coleman | Amount: 235 mL
MFG: B&J | Create Date: 12/5/2014 | Expires: 12/5/2025
MFG Lot: DJ-239 | Lab Lot: P&T MeOH DJ-239 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP Ketones

CLP Ketones — Description - EPA CLP Ketones Stock

Standard: 22414 | Created By: C. Coleman | Amount:
MFG: ABSOLUTE STANDARDS, | Create Date: 2/11/2014 | Expires: 9/27/2016
MFG Lot: 092713 | Lab Lot: CLP Ketones 092713 | Usable: Yes
Part ID: 82492

Pos.	Analyte	Name	Concentration
1	67-64-1	Acetone	20000 ug/mL
2	78-93-3	Methyl ethyl ketone	20000 ug/mL
3	108-10-1	Methyl isobutyl ketone	20000 ug/mL
4	591-78-6	2-Hexanone	20000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP Gases

CLP Gases — Description - EPA CLP Gases Stock

Standard: 23090 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 4/1/2014 | Expires: 1/2/2016
MFG Lot: 010213 | Lab Lot: CLP Gases 010213 | Usable: Yes
Part ID: 30058

Pos.	Analyte	Name	Concentration
1	75-71-8	Dichlorodifluoromethane	2000 ug/mL
2	74-87-3	Methyl chloride	2000 ug/mL
3	75-01-4	Vinyl chloride	2000 ug/mL
4	74-83-9	Bromomethane	2000 ug/mL
5	75-00-3	Ethyl chloride	2000 ug/mL
6	75-69-4	Freon 11	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxan

CLP 14Dioxan — Description - CLP 1,4-Dioxane Stock

Standard: 19269 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 12/14/2010 | Expires: 12/14/2015
MFG Lot: 121410 | Lab Lot: CLP 14Diox 121410 | Usable: Yes
Part ID: 90577

Pos.	Analyte	Name	Concentration
1	123-91-1	1,4-Dioxane	20000 ug/mL

STANDARD REPORT

Working Standard - CLP M.S.

CLP M.S. — Description - CLP Matrix Spike

Standard: 26200 | Created By: C. Coleman | Amount: 2 mL
MFG: Ultra Scientific | Create Date: 05/29/2015 | Expires: 06/29/2015
MFG Lot: CH-1788A | Lab Lot: CLP M.S. CH-1788A | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	100 ug/mL
2	71-43-2	Benzene	100 ug/mL
3	79-01-6	Trichloroethene	100 ug/mL
4	108-88-3	Toluene	100 ug/mL
5	108-90-7	Chlorobenzene	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22428	CLP M.S.	CLP Matrix Spike Stock	CLP MS CH-1788A	200 uL	09/30/2015
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.8 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol — Description - Purge & Trap Methanol Solvent

Standard: 26311 | Created By: C. Coleman | Amount: 235 mL
MFG: B&J | Create Date: 12/5/2014 | Expires: 12/5/2025
MFG Lot: DJ-239 | Lab Lot: P&T MeOH DJ-239 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP M.S.

CLP M.S.	Description - CLP Matrix Spike Stock

Standard: 22428 | Created By: C. Coleman | Amount:
MFG: Ultra Scientific | Create Date: 2/12/2014 | Expires: 9/30/2015
MFG Lot: CH-1788A | Lab Lot: CLP MS CH-1788A | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	1000 ug/mL
2	71-43-2	Benzene	1000 ug/mL
3	79-01-6	Trichloroethene	1000 ug/mL
4	108-88-3	Toluene	1000 ug/mL
5	108-90-7	Chlorobenzene	1000 ug/mL

STANDARD REPORT

Working Standard - CLP Med M.S.

CLP Med M.S.	Description - CLP Medium Level Matrix Spike

Standard: 28201 | Created By: C. Coleman | Amount: 25 mL
MFG: Ultra Scientific | Create Date: 05/29/2015 | Expires: 06/29/2015
MFG Lot: CH-1788A | Lab Lot: CLP Med M.S.CH-1788A | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	12.5 ug/mL
2	71-43-2	Benzene	12.5 ug/mL
3	79-01-6	Trichloroethene	12.5 ug/mL
4	108-88-3	Toluene	12.5 ug/mL
5	108-90-7	Chlorobenzene	12.5 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22428	CLP M.S.	CLP Matrix Spike Stock	CLP MS CH-1788A	312.5 uL	09/30/2015
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	24.6875 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol	Description - Purge & Trap Methanol Solvent

Standard: 26311 | Created By: C. Coleman | Amount: 235 mL
MFG: B&J | Create Date: 12/5/2014 | Expires: 12/5/2025
MFG Lot: DJ-239 | Lab Lot: P&T MeOH DJ-239 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP M.S.

CLP M.S.	Description - CLP Matrix Spike Stock

Standard: 22428 | Created By: C. Coleman | Amount:
MFG: Ultra Scientific | Create Date: 2/12/2014 | Expires: 9/30/2015
MFG Lot: CH-1788A | Lab Lot: CLP MS CH-1788A | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	1000 ug/mL
2	71-43-2	Benzene	1000 ug/mL
3	79-01-6	Trichloroethene	1000 ug/mL
4	108-88-3	Toluene	1000 ug/mL
5	108-90-7	Chlorobenzene	1000 ug/mL

ED WEIGHT REPORT

Part Number: 94155
Lot Number: 011614
Description: CLP SOM 01.1 DMC Volatiles
9 components
Expiration Date: 011617
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000

Solvent(s): DG596 Methanol

Lot #

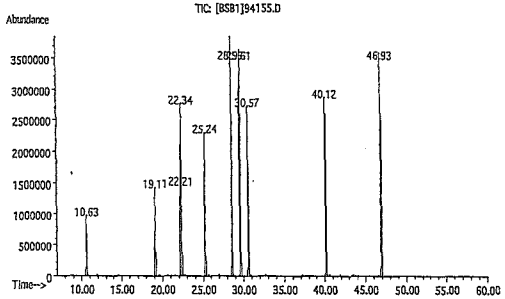
Formulated By: Paul Barron 011614 DATE
Reviewed By: Pedro L. Rentas 011614 DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
enzene-d6	26	4605DKDK	2000	99	0.2	0.20204	0.20220	2001.6	0.0041	01076-43-3	1 ppm (8H)	N/A
hloroform-d	2556	V210P1	2000	99.8	0.2	0.20042	0.20065	2002.3	0.0040	00865-49-6	N/A	orl-hmn 140mg/kg
2-Dichlorobenzene-d4	128	PR-18853/12207DB2	2000	99	0.2	0.20204	0.20224	2002.0	0.0041	02199-69-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
2-Dichloroethane-d4	137	V288P1B	2000	99.6	0.2	0.20082	0.20100	2001.8	0.0040	17060-07-0	N/A	orl-mus 625mg/kg
1-Dichloroethene-d2	2047	W151P5	2000	99	0.2	0.20204	0.20230	2002.6	0.0041	22280-73-5	N/A	N/A
2-Dichloropropane-d6	2051	L283P25	2000	99.7	0.2	0.20062	0.20090	2002.8	0.0040	93952-08-0	N/A	orl-rat 1947mg/kg
s,trans-1,3-Dichloropropene-d4	2052	Z161P8	2000	40.9	0.2	0.48905	0.48930	2001.0	0.0098	202656-23-3	N/A	orl-rat 470mg/kg
1,2,2-Tetrachloroethane-d2	2053	F465P1	2000	99.6	0.2	0.20082	0.20105	2002.3	0.0040	33685-54-0	N/A	orl-rat 800mg/kg
oluene-d8	282	BD-549	2000	99.5	0.2	0.20103	0.20100	2002.7	0.0041	02037-26-5	200 ppm	orl-rat 5000mg/kg



Method: GC6MSD-1. Detector: Mass Selective Detector. Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analyst: Candice Warren.

Name	MSD RT (min.)
1,1-Dichloroethene-d2	10.61
Chloroform-d	19.13
1,2-Dichloroethane-d4	22.20
Benzene-d6	22.36
1,2-Dichloropropane-d6	25.23
cis-1,3-Dichloropropene-d4	28.53
Toluene-d8	29.62
trans-1,3-Dichloropropene-d4	30.59
1,1,2,2-Tetrachloroethane-d2	40.08
1,2-Dichlorobenzene-d4	46.93

22415

ULTRA SCIENTIFIC Analytical Solutions

Certificate of Analysis

4-Bromofluorobenzene Solution

Product Number: STS-110N
Lot Number: CH-3248
Lot Issue Date: 07-Oct-2011
Expiration Date: 30-Nov-2015
Page: 1 of 1

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03365	2005 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

William J. Leahy
Quality Assurance Manager

22119

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www.ultrasci.com

250 SMITH STREET N. KINGSTOWN, RHODE ISLAND 02852 USA WWW.ULTRASCI.COM

D WEIGHT REPORT

Part Number: 94157
Lot Number: 080414
Description: CLP SOM 01.1 DMC Ketones
2 components
Expiration Date: 080417
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2500

Lot # Solvent(s):
DK010 Methanol (90%)
072414 Water (10%)

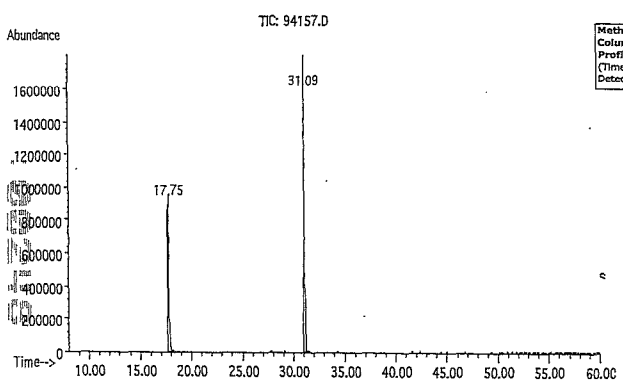
Formulated By: Gabriel Holland 080414 DATE
Reviewed By: Pedro L. Rentas 080414 DATE

5E-05 Balance Uncertainty

ght(s) shown below were combined and diluted to (mL): 100.0 0.008 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

pound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
tanone-1,1,1,3,3-d5	2557	M276P7	2500	99	0.2	0.25254	0.25268	2501.4	0.0041	24313-50-6	N/A	orl-rat 2737mg/kg
xanone-1,1,1,3,3-d5	2558	S166P26	2500	98.5	0.2	0.25382	0.25419	2503.6	0.0041	04840-82-8	N/A	orl-rat 2590mg/kg



Method: GC6MSD-1. Detector: Mass Selective Detector. Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analyst: Candice Warren.

Name	MSD RT (min.)
2-Butanone-1,1,1,3,3-d5	17.75
2-Hexanone-1,1,1,3,3-d5	31.12

25DGR

ERTIFIED WEIGHT REPORT

Part Number: 20048
Lot Number: 080811
Description: CLP Volatiles - Low Concentration Internal Standard
3 components
Expiration Date: 080816
Storage: 4 °C
Nominal Concentration (µg/mL): 2500

Solvent(s): DD946 Methanol

Lot #

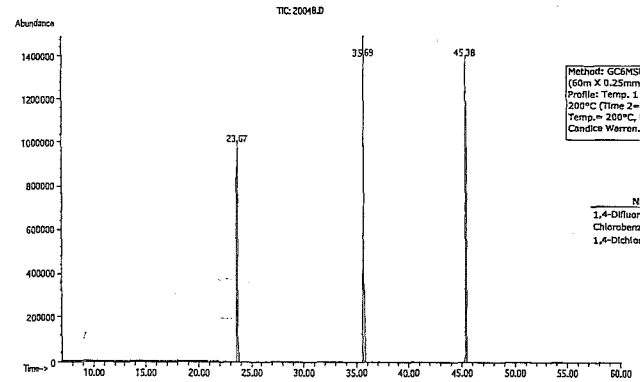
Formulated By: Justin Dippold 080811 DATE
Reviewed By: Pedro L. Rentas 080811 DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to: 100.0 0.002 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Chlorobenzene-d5	69	V581P26	2500	99.3	0.2	0.25173	0.25220	2504.7	0.00405	03114-55-4	N/A	orl-rat 1110mg/kg
2. 1,4-Dichlorobenzene-d4	118	PR-18468/7207CB1	2500	98	0.2	0.25507	0.25537	2502.9	0.00410	03855-82-1	75 ppm	orl-rat 500mg/kg
3. 1,4-Difluorobenzene	155	13105AO	2500	99	0.2	0.25249	0.25271	2502.1	0.00408	00540-36-3	N/A	N/A



Method: GC6MSD-1. Detector: MSD. Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analyst: Candice Warren.

Name	MSD RT (min.)
1,4-Difluorobenzene	23.67
Chlorobenzene-d5	35.69
1,4-Dichlorobenzene-d4	45.38

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CERTIFIED WEIGHT REPORT

Part Number: 30058
Lot Number: 010213
Description: EPA Method 502/524 - Volatile Gases Mix #1
6 components
Expiration Date: 010216
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000

Solvent(s): Lot # DE897 Methanol

Formulated By: Vincent K. Criscio, Jr. DATE 010213
Reviewed By: Pedro L. Rentas DATE 010213

Weight(s) shown below were combined and diluted to: 499.9 — 5E-05 Balance Uncertainty; 0.058 Flask Uncertainty

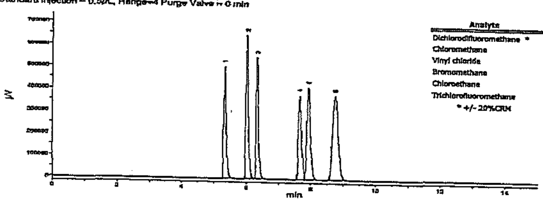
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
. Bromomethane	50	01611JX	2000	99.5	0.2	1.00475	1.0089	2004.3	0.00403	00074-83-9	5 ppm (20mg/m3/8H) (skin)	orl-rat 214mg/kg
. Chloroethane	72	00727KX	2000	99	0.2	1.00982	1.0100	2000.4	0.00405	00075-00-3	1000 ppm (2600mg/m3/8H)	N/A
. Chloromethane	79	06908MS	2000	99.5	0.2	1.00475	1.0117	2013.8	0.00403	00074-87-3	100 ppm	orl-rat 1800mg/kg
. Dichlorodifluoromethane	134	92-0487	2000	99	0.2	1.00982	1.0204	2020.9	0.00405	00075-71-8	1000 ppm (4950mg/m3/8H)	N/A
. Trichlorofluoromethane	294	01823MW	2000	99	0.2	1.00982	1.0150	2010.3	0.00405	00075-69-4	1000 ppm (5600mg/m3/8H)	ipr-mus 1743mg/kg
. Vinyl chloride	305	1281633 21308136	2000	99.5	0.2	1.00475	1.0113	2013.0	0.00403	00075-01-4	N/A	N/A

MSDS Information (Solvent Safety Info. On Attached pg.)

Run 9, "P30058 L010213 [2000µg/mL in MeOH]"

Run Length: 15.00 min, 8998 points at 10 points/second.
Created: Wed, Jan 2, 2013 at 5:05:03 PM.
Sampled: Sequence "123112-GC1", Method "GC1-M9".
Analyzed using Method "GC1-M9".

Comments
GC1-M9 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow = 150mL/min., Helium (carrier) = 10mL/min.,
Helium (make-up) = 40mL/min., Hydrogen (make-up) = 100mL/min.
Oven Profile: Temp. 1 = 35°C (Time 1 = 9 min.), Temp 2 = 200°C (Time 2 = 1 min.)
Rate = 33°C/min., Total run time = 15 min. Injector temp. = 200°C, FID Temp. = 200°C.
ELCD Signal = Edaq Channel 2 PID Signal = Edaq Channel 2
Standard injection = 0.5µL, Range=4 Purge Valve = 0 min



Analyte	ELCD RT (min.)
Dichlorodifluoromethane *	5.34
Chloromethane	6.03
Vinyl chloride	6.34
Bromomethane	7.67
Chloroethane	7.93
Trichlorofluoromethane	8.76

* +/- 20%CRM

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CERTIFIED WEIGHT REPORT

Part Number: 94158
Lot Number: 080414
Description: CLP SOM 01.1 DMC
1,4-Dioxane-d8
Expiration Date: 080417
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 31250

Solvent(s): Lot # DK010 Methanol

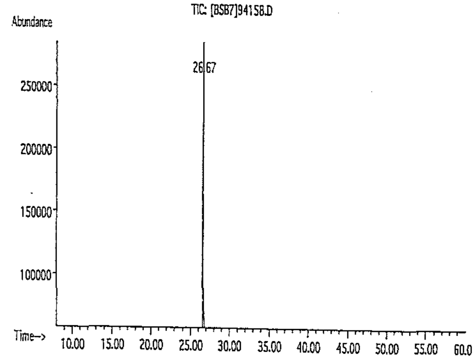
Formulated By: Gabriel Helland DATE 080414
Reviewed By: Pedro L. Rentas DATE 080414

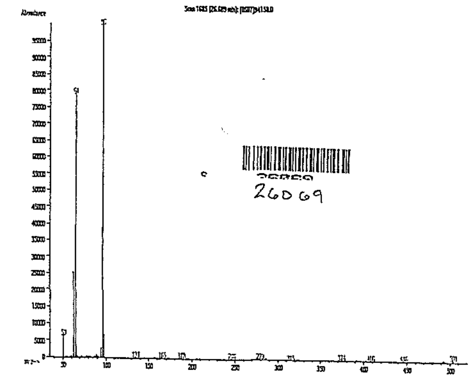
Weight(s) shown below were combined and diluted to (mL): 25.0 — 5E-05 Balance Uncertainty; 0.006 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dioxane-d8	1882	11C-596	31250	99	0.2	0.78919	0.78922	31251.2	0.0041	17647-74-4	N/A	orl-rbt 2000mg/kg

MSDS Information (Solvent Safety Info. On Attached pg.)

Method GC6MSD-1: Column: Vocol (30m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analysis performed by Candice Warren.





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CERTIFIED WEIGHT REPORT

Part Number: 94159
Lot Number: 040213
Description: CLP SOM 01.1 Volatiles
42 components
Expiration Date: 040216
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): Varied

Lot # DH247Q1 Solvent(s): Methanol

Formulated By: Justin Dippold DATE 040213
Reviewed By: Pedro L. Rentas DATE 040213

Volume(s) shown below were combined and diluted to (mL): 100.0 — 5E-05 Balance Uncertainty; 0.001 Flask Uncertainty

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-)	CAS#	OSHA PEL (TWA)	LD50
1. Benzene	93831	072910	0.10	10.00	0.006	20013.0	2001.1	0.00433	00071-43-2	1 ppm	orl-rat 4894mg/kg
2. Toluene	93831	072910	0.10	10.00	0.006	20019.8	2001.8	0.00420	00108-88-3	200 ppm	orl-rat 5000mg/kg
3. Ethyl benzene	93831	072910	0.10	10.00	0.006	20015.0	2001.3	0.00416	00100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
4. o-Xylene	93831	072910	0.10	10.00	0.006	20020.6	2001.9	0.00424	00095-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
5. m-Xylene	93831	072910	0.10	10.00	0.006	10008.1	1000.7	0.00420	00108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
6. p-Xylene	93831	072910	0.10	10.00	0.006	10009.3	1000.8	0.00420	00106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
7. Bromodichloromethane	30171	020712	0.10	10.00	0.006	20011.9	2001.0	0.00408	00075-27-4	N/A	orl-rat 916mg/kg
8. Dibromochloromethane	30171	020712	0.10	10.00	0.006	20008.1	2000.8	0.00408	00124-48-1	N/A	orl-rat 848mg/kg
9. cis-1,2-Dichloroethene	30171	020712	0.10	10.00	0.006	20009.2	2000.7	0.00404	00156-59-2	N/A	N/A
10. trans-1,2-Dichloroethene	30171	020712	0.10	10.00	0.006	20003.4	2000.1	0.00408	00156-60-5	N/A	orl-rat 1235mg/kg
11. Methylene chloride	30171	020712	0.10	10.00	0.006	20001.8	2000.0	0.00401	00075-09-2	500 ppm	orl-rat 2136mg/kg
12. 1,1-Dichloroethene	32251	122112	0.10	10.00	0.006	20002.4	2000.0	0.00404	00075-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
13. Bromochloromethane	94170	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00074-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg
14. Bromoform	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00420	00075-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 1147mg/kg
15. Carbon tetrachloride	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00418	00056-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
16. Chloroform	94170	072910	0.10	10.00	0.006	20019.8	2001.8	0.00420	00067-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
17. 1,1-Dichloroethane	94170	072910	0.10	10.00	0.006	20019.4	2001.7	0.00420	00075-34-3	100 ppm	orl-rat 725mg/kg
18. Tetrachloroethene	94170	072910	0.10	10.00	0.006	20019.8	2001.8	0.00420	00127-18-4	5 ppm (170mg/m3/8H)(fina	orl-rat 2629mg/kg
19. 1,1,1-Trichloroethane	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00420	00071-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
20. 1,2-Dibromo-3-chloropropane	94171	092310	0.10	10.00	0.006	20002.6	2000.1	0.00420	00096-12-8	0.001 ppm	orl-rat 170mg/kg
21. 1,[illegible]bromoethane	94171	092310	0.10	10.00	0.006	20008.0	2000.8	0.00420	00106-93-4	20 ppm (8H)	orl-rat 108mg/kg
22. 1[illegible]loroethane	94171	092310	0.10	10.00	0.006	20004.4	2000.2	0.00416	00107-06-2	50 ppm (8H)	orl-rat 670mg/kg
23. 1,[illegible]chloropropane	94171	092310	0.10	10.00	0.006	20010.2	2000.8	0.00420	00078-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
24. cis-1,3-Dichloropropene	94171	092310	0.10	10.00	0.006	20004.8	2000.3	0.00420	10061-01-5	N/A	N/A
25. trans-1,3-Dichloropropene	94171	092310	0.10	10.00	0.006	20012.1	2001.0	0.00420	10061-02-6	N/A	N/A
26. 1,1,2,2-Tetrachloroethane	94171	092310	0.10	10.00	0.006	20004.3	2000.2	0.00420	00079-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
27. 1,1,2-Trichloroethane	94171	092310	0.10	10.00	0.006	20005.9	2000.4	0.00424	00079-00-5	10 ppm (45mg/m3/8H)(skin	orl-rat 836mg/kg
28. Trichloroethene	94171	092310	0.10	10.00	0.006	20011.6	2001.0	0.00418	00079-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
29. Chlorobenzene	94172	092310	0.10	10.00	0.006	20009.9	2000.8	0.00420	00108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
30. 1,2-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20011.9	2001.0	0.00420	00095-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
31. 1,3-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20010.7	2000.9	0.00424	00541-73-1	N/A	ipr-mus 1062mg/kg
32. 1,4-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20012.1	2001.0	0.00420	00106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
33. Isopropylbenzene	94172	092310	0.10	10.00	0.006	20008.8	2000.7	0.00424	00098-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
34. Styrene	94172	092310	0.10	10.00	0.006	20012.2	2001.0	0.00420	00100-42-5	100 ppm	orl-rat 5000mg/kg
35. 1,2,3-Trichlorobenzene	94172	092310	0.10	10.00	0.006	20012.2	2001.0	0.00420	00087-61-6	N/A	ipr-mus 1390mg/kg
36. 1,2,4-Trichlorobenzene	94172	092310	0.10	10.00	0.006	20010.8	2000.9	0.00420	00120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
37. Carbon disulphide	94173	072910	0.10	10.00	0.006	20018.9	2001.7	0.00420	00075-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
38. Cyclohexane	94173	072910	0.10	10.00	0.006	20018.5	2001.8	0.00418	00110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
39. Methyl acetate	94173	072910	0.10	10.00	0.006	20017.0	2001.5	0.00418	00079-20-9	200 ppm (610mg/m3/8H)	orl-rbt 3705mg/kg
40. Methylcyclohexane	94173	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00108-87-2	N/A	N/A
41. Methyl tert-butyl ether (MTBE)	94173	072910	0.10	10.00	0.006	20019.5	2001.7	0.00416	01634-04-4	N/A	orl-rat 4g/kg
42. 1,1,2-Trichloro-1,2,2-trifluoroethane	94173	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00076-13-1	1000 ppm (7600mg/m3/8H	orl-rat 43g/kg

MSDS Information (Solvent Safety Info. On Attached pg.)

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CERTIFIED WEIGHT REPORT

Part Number: 94156
Lot Number: 022315
Description: CLP SOM 01.1 VOC DMC Gases
2 components
Expiration Date: 022318
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000

Solvent(s): Methanol Lot# DK793

Formulated By: Vincent K. Criscio, Jr. DATE 022315
Reviewed By: Pedro L. Rentas DATE 022315

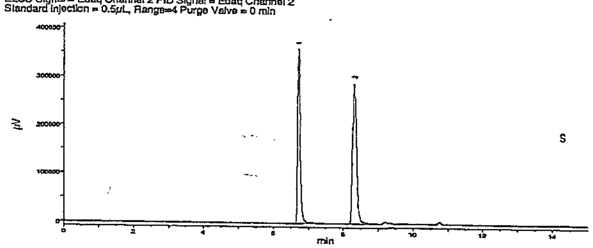
Volume(s) shown below were combined and diluted to (mL): 25.0 — 5E-05 Balance Uncertainty; 0.006 Flask Uncertainty

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-)	CAS#	OSHA PEL (TWA)	LD50
1. Chloroethane-d5	94178	072214	0.20	5.00	0.025	10034.4	2006.8	0.01080	19199-91-8	N/A	N/A
2. Vinyl chloride-d3	94177	072214	0.20	5.00	0.025	10053.6	2010.6	0.00409	06745-35-3	N/A	orl-rat 500mg/kg

MSDS Information (Solvent Safety Info. On Attached pg.)

Analyte	ELCD RT (min.)
Vinyl chloride-d3	6.74
Chloroethane-d5	8.33

Comments
GC15-M9 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow = 150mL/min., Helium (carrier) = 10mL/min.,
Helium (make-up) = 40mL/min., Hydrogen (make-up) = 100mL/min.,
Oven Profile: Temp. 1 = 35°C (Time 1 = 9 min.), Temp 2 = 200°C (Time 2 = 1 min.).
Rate = 33°C/min., Total run time = 15 min. Injector temp. = 200°C, FID Temp. = 200°C.
ELCD Signal = Edaq Channel 2 PID Signal = Edaq Channel 2
Standard injection = 0.5µL, Range=4 Purge Valve = 0 min



S 27293

ULTRA SCIENTIFIC Analytical Solutions

Certificate of Analysis

Volatiles Matrix Spiking Solution

Product Number: CLP-100N
Lot Number: CH-1788A

Page: 1 of 1
Lot Issue Date: 19-Aug-2013
Expiration Date: 30-Sep-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
benzene	000071-43-2	34097	1004 ± 5 µg/mL
chlorobenzene	000108-90-7	07774MG	1004 ± 5 µg/mL
1,1-dichloroethene	000075-35-4	02226CH	1004 ± 5 µg/mL
toluene	000108-88-3	47144	1004 ± 5 µg/mL
trichloroethene	000079-01-6	KN-08946KN	1004 ± 5 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

REGISTERED ISO 17025 Accredited ISO 9001 Registered

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William D. Leahy
Quality Assurance Manager

260 Smith Street, North Kingstown, RI 02852 USA
401.294.6400 Fax: 401.295.7930

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CERTIFIED WEIGHT REPORT

Part Number: 82492
Lot Number: 092713
Description: EPA Method 8240A - Mix #2 (Concentrate) Ketones - 4 components
Expiration Date: 092716
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 20000

Solvent(s): Lot # DG506 Methanol (90%); 083013 Water (10%)

Formulated By: Paul Barron 092713 DATE
Reviewed By: Pedro L. Rentas 092713 DATE

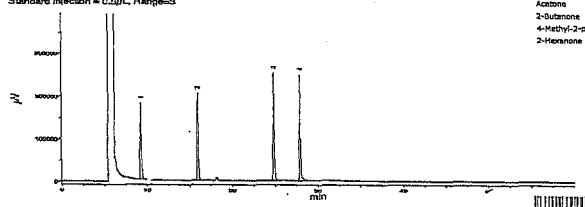
Weight(s) shown below were combined and diluted to: 100.0 (5E-05 Balance Uncertainty; 0.001 Flask Uncertainty)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetone	4	09484BH	20000	99.5	0.2	2.01026	2.01120	20009.4	0.00402	00067-64-1	750 ppm	orl-rat 5800mg/kg
2. 2-Butanone (Methyl ethyl ketone)	53	4605EL	20000	99.9	0.2	2.00221	2.00310	20008.9	0.00400	00078-93-3	200 ppm (590mg/m3/8H)	orl-rat 2737mg/kg
3. 2-Hexanone	200	10714PE	20000	98	0.2	2.04103	2.04250	20014.5	0.00408	00591-78-6	100 ppm (410mg/m3/8H)	orl-rat 2580mg/kg
4. 4-Methyl-2-pentanone	210	00861PH	20000	99.5	0.2	2.01026	2.01140	20011.4	0.00402	00108-10-1	100 ppm (410mg/m3/8H)	orl-rat 2080mg/kg

Run 42, "P82492 L092713 [20mg/mL in M:W(9:1)] Dfw1:10"
Run Length: 60.00 min, 35968 points at 10 points/second.
Created: Sat, Sep 28, 2013 at 10:28:35 AM.
Sampled, Sequence "092813-GC13M1". Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments
GC13-M1 Analysis by Candice Warren
Column ID 9FID-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=200mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=38°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard Injection = 0.0µL, Range=3

Name	FID RT (min.)
Acetone	9.23
2-Butanone	15.90
4-Methyl-2-pentanone	24.84
2-Hexanone	27.89



S 22414

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Certified Reference Material CRM

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ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 90577
Lot Number: 121410
Description: 1,4-Dioxane
Expiration Date: 121415
Storage: 4 °C
Nominal Concentration (µg/mL): 20000

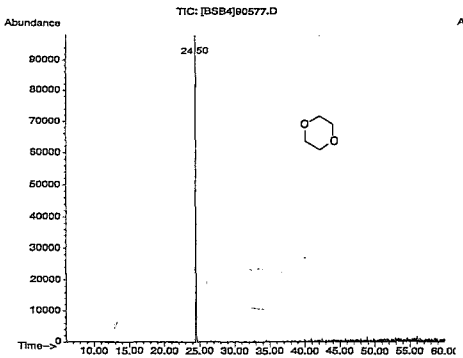
Solvent(s): Lot # 50172 Methanol

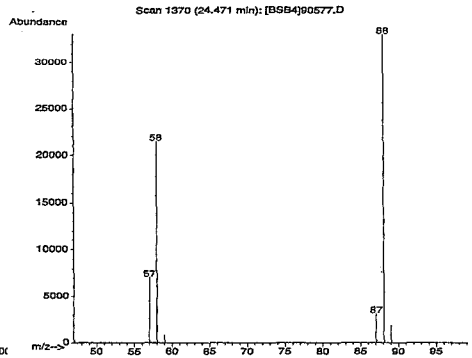
Formulated By: Pat Scaturchio 121410 DATE
Reviewed By: Pedro L. Rentas 121410 DATE

Weight(s) shown below were combined and diluted to: 100.0 (5E-05 Balance Uncertainty; 0.002 Flask Uncertainty)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dioxane	373	03853KE	20000	99	0.2	2.01994	2.02085	20009.0	0.0040	00123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analysis performed by Candice Warren.





Batch Worklist

Batch: ESVO/ 4994 Created: 6/19/2015 09:35 Instrument: 5975-G HBN: 150882

Rule: SOM SVOA, Water Analyst: S. Yourstone Status: WP

Workorder: 1515629 SDG: F9L96 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	450834	MB for HBN 150231 [ENVX/21775]	1000 mL	1 mL		MB	3		SOMSVOAW.3	6158	7/21/2015	6/24/2015	6/19/2015
2	1515629002	F9M47	1000 mL	1 mL		FLDQC	3	1515629002-A	S12SVOAW.3	5936	7/21/2015	6/25/2015	6/19/2015
3	1515629003	F9M53	1000 mL	1 mL		FLDQC	3	1515629003-A	S12SVOAW.3	5936	7/21/2015	6/25/2015	6/19/2015

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-G

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
GBT01S20	06/18/2015 08:29	TM	GSOM01D4	1	25.96	1	SSTD020GT DFTPPGT	X06/19/15
GBT02S05	06/18/2015 09:03	TM	GSOM01D4	2	25.96	1	SSTD005GT xxxxx	X06/19/15
GBT03S10	06/18/2015 09:36	TM	GSOM01D4	3	25.96	1	SSTD010GT xxxxx	X06/19/15
GBT04S40	06/18/2015 10:09	TM	GSOM01D4	4	25.96	1	SSTD040GT xxxxx	X06/19/15
GBT05S80	06/18/2015 10:43	TM	GSOM01D4	5	25.96	1	SSTD080GT xxxxx	X06/19/15
GBT06S16	06/18/2015 11:17	TM	GSOM01D4	6	25.96	1	SSTD160GT xxxxx	X06/19/15
GBU01S20	06/18/2015 16:50	TM	GSOM01D5	1	25.96	1	SSTD020GU DFTPPGU	X06/19/15
GBU02BLK	06/18/2015 17:26	TM	GSOM01D5	2	25.96	1	450834 SBLK34	WATER SOM
GBU03F02	06/18/2015 18:00	TM	GSOM01D5	3	25.96	1	1515629002 F9M47	WATER SOM
GBU04F03	06/18/2015 18:34	TM	GSOM01D5	4	25.96	1	1515629003 F9M53	WATER SOM
~~GBU05S20~~	~~06/18/2015 19:08~~	~~TM~~	~~GSOM01D5~~	~~1~~	~~25.96~~	~~1~~	~~SSTD020U1 DFTPPU1~~	~~X06/19/15~~
GBU06S20	06/18/2015 19:42	TM	GSOM01D5	1	25.96	1	SSTD020U1 DFTPPU1	X06/19/15
~~GBU07S20~~	~~06/18/2015 20:16~~	~~TM~~	~~GSOM01D5~~	~~1~~	~~25.96~~	~~1~~	~~SSTD020U1 DFTPPU1~~	~~X06/19/15~~
GBU08BLK	06/18/2015 20:49	TM	GSOM01D5	5	25.96	1	452339 SBLK39	SOIL SOM
GBU09GPC	06/18/2015 21:22	TM	GSOM01D5	6	25.96	1	452509 GBLK09	SOIL SOM
GBU10A02	06/18/2015 21:55	TM	GSOM01D5	7	25.96	1	1516935002 A3W08	SOIL SOM
GBU11A01	06/18/2015 22:28	TM	GSOM01D5	8	25.96	1	1516935001 A3W07 (2)	SOIL SOM
GBU12S20	06/18/2015 23:00	TM	GSOM01D5	9	25.96	1	SSTD020U2 DFTPPU2	X06/19/15
GBU13S20	06/18/2015 23:32	TM	GSOM01D5	9	25.96	1	SSTD020U2 DFTPPU2	X06/19/15
GBU14S20	06/19/2015 00:04	TM	GSOM01D5	9	25.96	1	SSTD020U2 DFTPPU2	X06/19/15
GBU15S20	06/19/2015 00:36	TM	GSOM01D5	9	25.96	1	SSTD020U2 DFTPPU2	X06/19/15
GBU16S20	06/19/2015 01:09	TM	GSOM01D5	9	25.96	1	SSTD020U2 DFTPPU2	X06/19/15

initial calibration

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-G

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
GBT01S20	06/18/2015 08:29	TM	GSOM01D4	1	25.96	1	SSTD020GT DFTPPGT	X06/19/15
GBT02S05	06/18/2015 09:03	TM	GSOM01D4	2	25.96	1	SSTD005GT xxxxx	X06/19/15
GBT03S10	06/18/2015 09:36	TM	GSOM01D4	3	25.96	1	SSTD010GT xxxxx	X06/19/15
GBT04S40	06/18/2015 10:09	TM	GSOM01D4	4	25.96	1	SSTD040GT xxxxx	X06/19/15
GBT05S80	06/18/2015 10:43	TM	GSOM01D4	5	25.96	1	SSTD080GT xxxxx	X06/19/15
GBT06S16	06/18/2015 11:17	TM	GSOM01D4	6	25.96	1	SSTD160GT xxxxx	X06/19/15

052289

Batch Worklist

150 + 1.5

Batch: ENVX/ 21775 Created: 6/9/2015 22:40 Instrument: HBN: 150231

Rule: Liquid Liquid, Continuous Analyst: L. Edwards Status: NA

Workorder: 1515629 SDG: F9L96 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	450834	MB for HBN 150231 [ENVX/21775]	1000mL	1mL		MB	3		LQDLQDC.3P	6158	6/14/2015	6/9/2015	
2	1515629002	F9M47 PH-5	1000mL			FLDQC	3	1515629002-A	LQDLQDC.3P	5936	6/9/2015	6/9/2015	
3	1515629003	F9M53 PH-5	1000mL			FLDQC	3	1515629003-A	LQDLQDC.3P	5936	6/9/2015	6/9/2015	

mp

some SVCsim

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA Region 6 Case/SDG # 45316 / F9L96 Horizon Extraction HBN 150231

Work Order# 1515629 Sample #'s 2-3 Extraction Method Somo 1.2

SOP: OE-EP-SOM Analytical Fraction SV / SV-SIM Matrix WATER

~~Date samples weighed out~~ _____ by CAE ~~balance #~~ _____

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/9/15 2100 Stop Date/Time (CLLE's/Soxlet) 6/10/15 16:00 Extracted by CAE

	Drying Agent	Salt	Solvents			Exchange Solvent	
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☑ N/A	☑ CH_2Cl_2 ☐ Hexane ☐ Hexane/Ether ( )		☐ Acetonitrile ☐ CH_2Cl_2/Acetone (1:1)	☐ Hexane ☑ N/A	☐ Toluene ☐ CH_2Cl_2
Vendor	JT BAKER		JT BAKER				
Lot Number	18985		97623				
Amount	PERSOP		PERSOP				

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950			
Spiked Amount	1mL			
Spiked By	CAE			

	Acid Solution	Base Solution		
Standard ID	521510305			
Spiked Amount *	5mL			
pH Adjustment *	2			
Spiked By	CAE			

* exceptions are noted in comments below

Comments _____

Pre-GPC Concentration: Date/Time — by — Comments —

Final Concentration: Date/Time 6/11/15 9:00 by rye Comments The Temp was 65°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments _____

Checker Signature [signature] **Date** 6/10/15

Batch Worklist

Batch: ESVO/ 4993 Created: 6/19/2015 09:13 Instrument: 5975-D HBN: 150880

Rule: SOM SVOA SIM, Water Analyst: S. Yourstone Status: WP

Workorder: 1515629 SDG: F9L96 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	450834	MB for HBN 150231 [ENVX/21775]	1000 mL	1 mL		MB	3		SOMSVOASW3	6158	7/21/2015	6/24/2015	6/19/2015
2	1515629002	F9M47	1000 mL	1 mL		FLDQC	3	1515629002-A	S12SVOASW3	5936	7/21/2015	6/25/2015	6/19/2015
3	1515629003	F9M53	1000 mL	1 mL		FLDQC	3	1515629003-A	S12SVOASW3	5936	7/21/2015	6/25/2015	6/19/2015

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
~~DEF01S20~~	~~06/18/2015 08:01~~	~~SY~~	~~DSOM01D5~~	~~1~~	~~25.96~~	~~1~~	~~SSTD020F1 28296 DFTPPF1~~	~~X6-19-15~~
DEF02S20	06/18/2015 08:34	SY	DSOM01D5	1	25.96	1	SSTD020F1 28296 DFTPPF1	X6-19-15
DEG01SP4	06/18/2015 10:45	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DG 28416	X6-19-15
~~DEG02F07~~	~~06/18/2015 11:48~~	~~DJC~~	~~DSOM_SIMJ2~~	~~2~~	~~24.66~~	~~1~~	~~1515375007 F9M02 (100)~~	~~SOIL SIM~~
DEG03SP4	06/18/2015 12:18	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4G1 28416	X6-19-15
DEG04BLK	06/18/2015 13:08	DJC	DSOM_SIMJ2	3	24.66	1	450511 SBLK11	SOIL SIM
DEG05GPC	06/18/2015 13:38	DJC	DSOM_SIMJ2	4	24.66	1	450982 GBLK82	SOIL SIM
DEG06F01	06/18/2015 14:09	DJC	DSOM_SIMJ2	5	24.66	1	1515552001 F9M36	SOIL SIM
DEG07F04	06/18/2015 14:39	DJC	DSOM_SIMJ2	6	24.66	1	1515552004 F9M42	SOIL SIM
DEG08F05	06/18/2015 15:10	DJC	DSOM_SIMJ2	7	24.66	1	1515552005 F9M43	SOIL SIM
DEG09F06	06/18/2015 15:40	DJC	DSOM_SIMJ2	8	24.66	1	1515552006 F9M44	SOIL SIM
DEG10F07	06/18/2015 16:11	DJC	DSOM_SIMJ2	9	24.66	1	1515552007 F9M45	SOIL SIM
DEG11BLK	06/18/2015 16:42	DJC	DSOM_SIMJ2	10	24.66	1	450834 SBLK34	WATER SIM
DEG12F02	06/18/2015 17:12	DJC	DSOM_SIMJ2	11	24.66	1	1515629002 F9M47	WATER SIM
DEG13F03	06/18/2015 17:43	DJC	DSOM_SIMJ2	12	24.66	1	1515629003 F9M53	WATER SIM
DEG14F04	06/18/2015 18:14	DJC	DSOM_SIMJ2	13	24.66	1	1515552004 F9M42	SOIL SIM
DEG15SP4	06/18/2015 18:44	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4G2 28416	X6-19-15
~~DEG16SP4~~	~~06/18/2015 19:15~~	~~DJC~~	~~DSOM_SIMJ2~~	~~1~~	~~24.66~~	~~1~~	~~SSTD0.4G2 28416~~	~~X6-19-15~~
~~DEG17SP4~~	~~06/18/2015 19:45~~	~~DJC~~	~~DSOM_SIMJ2~~	~~1~~	~~24.66~~	~~1~~	~~SSTD0.4G2 28416~~	~~X6-19-15~~

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DDG01SP1	03/25/2015 09:26	DJC	DSOM_SIMJ1	1	24.66	1	SSTD0.1DG 27491	X:04/24/15
DDG02SP2	03/25/2015 09:55	DJC	DSOM_SIMJ1	2	24.66	1	SSTD0.2DG 27492	X:04/24/15
DDG03SP4	03/25/2015 10:25	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4DG 27493	X:04/24/15
DDG04SP8	03/25/2015 10:55	DJC	DSOM_SIMJ1	4	24.66	1	SSTD0.8DG 27494	X:04/24/15
DDG05S01	03/25/2015 11:25	DJC	DSOM_SIMJ1	5	24.66	1	SSTD001DG 27495	X:04/24/15
DDG06S16	03/25/2015 11:55	DJC	DSOM_SIMJ1	6	24.66	1	SSTD1.6DG 27496	X:04/24/15
DDG07S32	03/25/2015 12:25	DJC	DSOM_SIMJ1	7	24.66	1	SSTD3.2DG 27497	X:04/24/15
DDG08GPC	03/25/2015 12:55	DJC	DSOM_SIMJ1	8	24.66	1	437579 GPCBLK	SOIL SIM
DDG09BLK	03/25/2015 13:24	DJC	DSOM_SIMJ1	9	24.66	1	437348 SBLK48	SOIL SIM
DDG10BLK	03/25/2015 13:54	DJC	DSOM_SIMJ1	10	24.66	1	437978 SBLK78	WATER SIM
DDG11C03	03/25/2015 14:24	DJC	DSOM_SIMJ1	11	24.66	1	1506563003 X1K60	SOIL SIM
DDG12C03	03/25/2015 14:54	DJC	DSOM_SIMJ1	12	24.66	1	1506558003 X1K55	WATER SIM
DDG13C03	03/25/2015 15:23	DJC	DSOM_SIMJ1	13	24.66	1	1506558003 X1K55 (3)	WATER SIM
DDG14SP4	03/25/2015 15:53	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G1 27493	X:04/24/15
DDG15GPC	03/25/2015 16:23	DJC	DSOM_SIMJ1	14	24.66	1	438538 GPCBLK	SOIL SIM
DDG16BLK	03/25/2015 16:53	DJC	DSOM_SIMJ1	15	24.66	1	438356 SBLK56	SOIL SIM
DDG17BLK	03/25/2015 17:23	DJC	DSOM_SIMJ1	16	24.66	1	438649 SBLK49	WATER SIM
DDG18C03	03/25/2015 17:53	DJC	DSOM_SIMJ1	17	24.66	1	1507830003 X1L96	SOIL SIM
DDG19C03	03/25/2015 18:22	DJC	DSOM_SIMJ1	18	24.66	1	1507829003 X1L91	WATER SIM
DDG20C03	03/25/2015 18:52	DJC	DSOM_SIMJ1	19	24.66	1	1507829003 X1L91 (3)	WATER SIM
DDG21SP4	03/25/2015 19:22	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G2 27493	X:04/24/15
DDG22SP4	03/25/2015 19:52	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G2 27493	X:04/24/15
DDH01S20	03/25/2015 20:24	DJC	DSOM03NEW	21	25.96	1	SSTD020DH 27500 DFTPPDH	X:04/24/15
DDH02S05	03/25/2015 20:57	DJC	DSOM03NEW	22	25.96	1	SSTD005DH 27498	X:04/24/15
DDH03S10	03/25/2015 21:31	DJC	DSOM03NEW	23	25.96	1	SSTD010DH 27499	X:04/24/15
DDH04S40	03/25/2015 22:04	DJC	DSOM03NEW	24	25.96	1	SSTD040DH 27502	X:04/24/15
DDH05S80	03/25/2015 22:37	DJC	DSOM03NEW	25	25.96	1	SSTD080DH 27503	X:04/24/15
DDH06S16	03/25/2015 23:10	DJC	DSOM03NEW	26	25.96	1	SSTD160DH 27504	X:04/24/15
DDH07GPC	03/25/2015 23:44	DJC	DSOM03NEW	27	25.96	1	437579 GPCBLK	SOIL SOM
DDH08BLK	03/26/2015 00:17	DJC	DSOM03NEW	28	25.96	1	437348 SBLK48	SOIL SOM
DDH09BLK	03/26/2015 00:50	DJC	DSOM03NEW	29	25.96	1	437978 SBLK78	WATER SOM
DDH10C02	03/26/2015 01:23	DJC	DSOM03NEW	30	25.96	1	1506563002 X1K59	SOIL SOM
DDH11C02	03/26/2015 01:56	DJC	DSOM03NEW	31	25.96	1	1506558002 X1K54	WATER SOM
DDH12S20	03/26/2015 02:29	DJC	DSOM03NEW	21	25.96	1	SSTD020H1 27500 DFTPPH1	X:04/24/15
DDH13S20	03/26/2015 03:02	DJC	DSOM03NEW	21	25.96	1	SSTD020H1 27500 DFTPPH1	X:04/24/15

Batch Worklist

150 + 1.5

Batch: ENVX/ 21775 **Created:** 6/9/2015 22:40 **Instrument:** **HBN:** 150231

Rule: Liquid Liquid, Continuous **Analyst:** L. Edwards **Status:** NA

Workorder: 1515629 **SDG:** F9L96 **Case:** 45316

Pos	Lab ID	Sample ID		Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	450834	MB for HBN 150231 [ENVX/21775]		1000mL	1mL		MB	3		LQDLQDC.3P	6158	6/14/2015	6/9/2015	
2	1515629002	F9M47	PH-5	1000mL			FLDQC	3	1515629002-A	LQDLQDC.3P	5936	6/9/2015	6/9/2015	
3	1515629003	F9M53	PH-5	1000mL			FLDQC	3	1515629003-A	LQDLQDC.3P	5936	6/9/2015	6/9/2015	

mp

some svc sim

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316 / F9L96 Horizon Extraction HBN 150231

Work Order# 1515629 Sample #'s 2-3 Extraction Method Somo 1.2

SOP: OE-EP-SOM Analytical Fraction SV | SV-SIM Matrix WATER

~~Date samples weighed out~~ _____ ~~by~~ CDE ~~balance #~~ _____

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/9/15 2100 Stop Date/Time (CLLE's/Soxlet) 6/10/15 16:00 Extracted by CDE

	Drying Agent	Salt	Solvents			Exchange Solvent	
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☑ N/A	☑ CH_2Cl_2 ☐ Hexane ☐ Hexane/Ether ( )	☐ Acetonitrile ☐ CH_2Cl_2/Acetone (1:1)		☐ Hexane ☑ N/A	☐ Toluene ☐ CH_2Cl_2
Vendor	JT BAKER		JT BAKER				
Lot Number	18985		97623				
Amount	PERSOP		PERSOP				

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950			
Spiked Amount	1mL			
Spiked By	CDE			

	Acid Solution	Base Solution		
Standard ID	521510305			
Spiked Amount *	5mL			
pH Adjustment *	2			
Spiked By	CDE			

* exceptions are noted in comments below

Comments _____

Pre-GPC Concentration: Date/Time — by — Comments —

Final Concentration: Date/Time 6/11/15 9:00 by rge Comments The Temp was 65°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments _____

Checker Signature [signature] **Date** 6/10/15

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515386	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 40AGVOA	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	06/01/2015 07:55	F9L96	1515386001	FLDQC	Water	A,B,C	3	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/02/2015 09:04	ALS Sample Receiving	Sample Login
Meredith Edwards	6/2/2015 1252	Storage 2	Storage
Storage	6/2/15 0830	MA Hg	VOA Analysis 12-01-4C

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515556	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 40CGVOA	
Comments:			Preservatives: HCL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	06/02/2015 17:25	F9M46	1515556001	FLDQC	Water	A,B,C	3	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1641	Storage 2	Storage
storage	6/8/15 0730	[illegible]	DEA Analysis R-61-4C

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515629	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 40CGVOA	
Comments:			Preservatives: HCL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	06/03/2015 18:30	F9M80	1515629001	FLDQC	Water	A,B,C	3	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 1765	Storage	Storage
Storage	6/8/15 0730	[illegible]	Analysis 12-61-46

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515739	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 40CGVOA

Comments:

Preservatives: HCL

Requested Analysis: SOM01.2 VOA ~~Trace Water~~ Low Water

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA ~~Trace Water~~ Low Water
1	06/04/2015 14:55	F9K01	1515739001	FLDQC	Water	A,B,C	3	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/05/2015 [illegible]	storage Z	storage
storage	6/8/15 0740	[illegible]	wet analysis 12-61-4C

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515629	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 1000AG	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Water	SOM01.2 Semivoa SIM, Water
1	06/03/2015 08:10	F9M47	1515629002	FLDQC	Water	A,B,C,D	4	A	A
2	06/03/2015 08:15	F9M53	1515629003	FLDQC	Water	A,B,C,D	4	A	A
3									
4									
5									
6									
7									
8									
9									
10									

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 17:55	R-331 Cart	Storage
R-331 CART	06/09/15 2050	[illegible]	EXT
[illegible]	06/09/15 2100	R-331	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	6/11/15 9:00	[illegible]	cone
[illegible]	6/11/15 10:00	R-60-6	STOR
R-60-6	6-18-15 11:00	[illegible]	GC/MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515629	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 1000AG
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Water	SOM01.2 Semivoa SIM, Water
1	06/03/2015 08:10	F9M47	1515629002	FLDQC	Water	A,B,C,D	4	A	A
2	06/03/2015 08:15	F9M53	1515629003	FLDQC	Water	A,B,C,D	4	A	A
3									
4									
5									
6									
7									
8									
9									
10									

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 17:55	R-33-1 Cart	Storage
R-33-1 CART	06/09/15 2050	[illegible]	EXT
[illegible]	06/09/15 2100	R-33-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	6/11/15 9:00	[illegible]	cone
[illegible]	6/11/15 10:00	R-60-6	STORE
R-60-6	6-18-15 11:00	Dustin Calder	GC/MS

Thu, 06/04/15 5:49 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515386	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 40AGVOA	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	06/01/2015 07:55	F9L96	1515386001	FLDQC	Water	A,B,C	3	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/02/2015 09:04	ALS Sample Receiving	Sample Login
Meredith Edwards	6/2/2015 1152	Storage 2	Storage
storage	6/2/15 0830	[illegible]	VOA Auditor 12-8-4C

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515556	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 40CGVOA
Comments:			Preservatives: HCL

Requested Analysis: SOM01.2 VOA Low, Water

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	06/02/2015 17:25	F9M46	1515556001	FLDQC	Water	A,B,C	3	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1641	Storage 2	Storage
storage	6/8/15 0730	[illegible]	Data Analysis R-61-4C

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515629	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 40CGVOA	
Comments:			Preservatives: HCL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	06/03/2015 18:30	F9M80	1515629001	FLDQC	Water	A,B,C	3	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 17:55	Storage 2	Storage
Storage	6/8/15 0730	NA [illegible]	VOA Analysis 12-11-46

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515629	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 1000AG

Comments:

Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Water	SOM01.2 Semivoa SIM, Water
1	06/03/2015 08:10	F9M47	1515629002	FLDQC	Water	A,B,C,D	4	A	A
2	06/03/2015 08:15	F9M53	1515629003	FLDQC	Water	A,B,C,D	4	A	A
3									
4									
5									
6									
7									
8									
9									
10									

Requested Analysis

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 17:55	R-331 Cart	Storage
R-331 Cart	06/09/15 2050	[illegible]	EXT
[illegible]	06/09/15 2100	R-331	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515739	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 40CGVOA
Comments:			Preservatives: HCL

Containers

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	ID(s)	Count	SOM012.2 VOA Trace Water 06/10/2015
1	06/04/2015 14:55	F9K01	1515739001	FLDQC	Water	A,B,C	3	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

Requested Analysis

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/05/2015 1500	Storage Z	Storage
storage	6/8/15 0740	[illegible]	VOA analysis R-61-4C

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD51FL96.D
Acq Time : 06/08/2015 10:40 Operator: RJH
Sample : F9L96 LW Inst : 5972-P
Misc : 1515386 1:100 DILUTION Multiplr: 1.00

Quant Time: Jun 8 11:03 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.82	114	2189457	50.0000 ug/Kg	79.11
30) Chlorobenzene-d5	12.07	117	1762168	50.0000 ug/Kg	80.60
62) 1,4-dichlorobenzene-d4	15.72	152	1103645	50.0000 ug/Kg	83.75

System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.56	152	427	0.0217 ug/Kg	0.04%#

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.86	43	1686	0.4780 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	4.37	84	5553	0.3596 ug/Kg	96
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.17	43	8234	1.6533 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD51FL96.D
Acq Time : 06/08/2015 10:40 Operator: RJH
Sample : F9L96 LW Inst : 5972-P
Misc : 1515386 1:100 DILUTION Multiplr: 1.00

Quant Time: Jun 8 11:03 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	7.27	78	60114	1.3109 ug/Kg#	71
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	10.03	43	2629	0.2088 ug/Kg#	47
48)	Toluene	10.03	91	220832	4.4422 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	12.28	91	46047	0.7763 ug/Kg	96
56)	m,p-Xylene	12.47	106	71401	3.2954 ug/Kg	98
57)	o-Xylene	13.07	106	27623	1.3694 ug/Kg	99
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

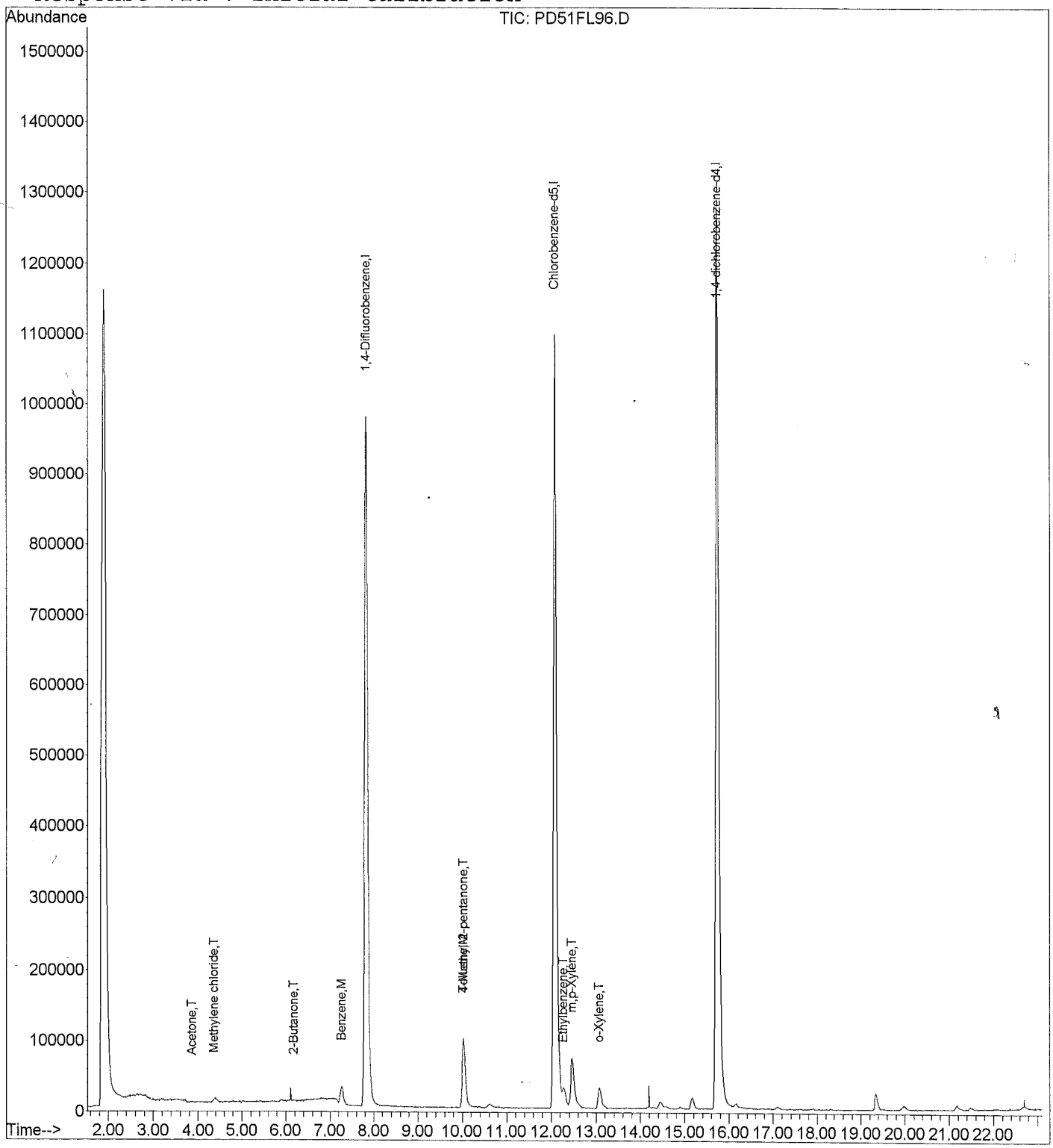
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD51FL96.D
Acq Time : 06/08/2015 10:40 Operator: RJH
Sample : F9L96 LW Inst : 5972-P
Misc : 1515386 1:100 DILUTION Multiplr: 1.00

Quant Time: Jun 8 11:03 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD52FM46.D
Acq Time : 06/08/2015 16:11 Operator: RJH
Sample : F9M46 LW Inst : 5972-P
Misc : 1515556 1:100 DILUTION Multiplr: 1.00

Quant Time: Jun 8 16:34 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.85	114	2171172	50.0000 ug/Kg	78.45
30) Chlorobenzene-d5	12.10	117	1762769	50.0000 ug/Kg	80.63
62) 1,4-dichlorobenzene-d4	15.74	152	1083247	50.0000 ug/Kg	82.20
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.64	152	680	0.0353 ug/Kg	0.07%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.91	43	10882	3.1114 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.36	43	4809	0.5836 ug/Kg#	57
16) Methylene chloride	4.45	84	4555	0.2974 ug/Kg#	78
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.15	43	6511	1.3184 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD52FM46.D
Acq Time : 06/08/2015 16:11 Operator: RJH
Sample : F9M46 LW Inst : 5972-P
Misc : 1515556 1:100 DILUTION Multiplr: 1.00

Quant Time: Jun 8 16:34 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.06	91	38018	0.7645 ug/Kg	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	12.48	106	16691	0.7701 ug/Kg	96
57)	o-Xylene	13.09	106	6486	0.3214 ug/Kg	88
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

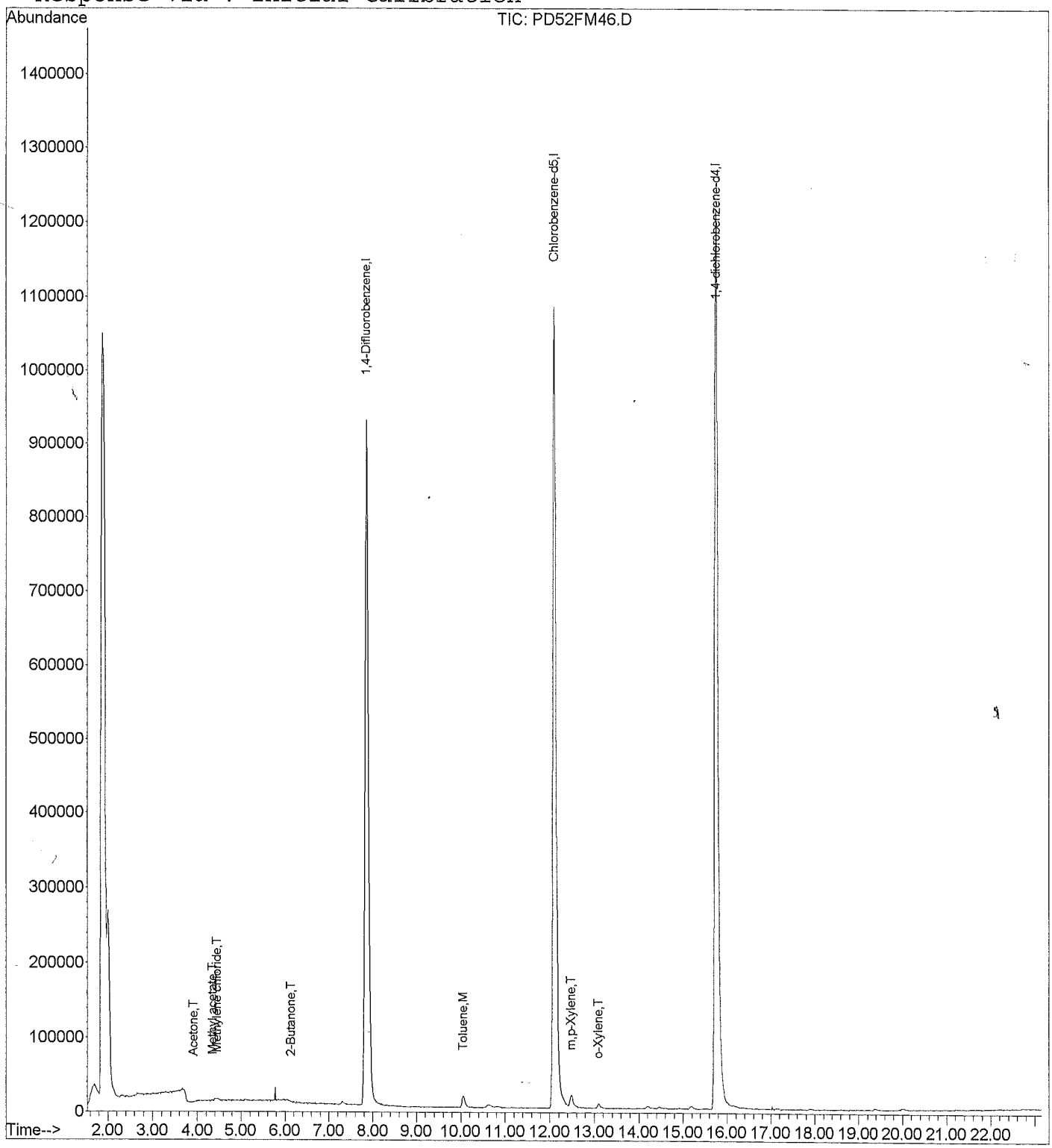
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD52FM46.D
Acq Time : 06/08/2015 16:11 Operator: RJH
Sample : F9M46 LW Inst : 5972-P
Misc : 1515556 1:100 DILUTION Multiplr: 1.00

Quant Time: Jun 8 16:34 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



: 00277

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD53FM80.D
Acq Time : 06/08/2015 16:40 Operator: RJH
Sample : F9M80 LW Inst : 5972-P
Misc : 1515629 1:100 DILUTION Multiplr: 1.00

Quant Time: Jun 8 17:04 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.86	114	2160303	50.0000 ug/Kg	78.05
30) Chlorobenzene-d5	12.10	117	1718907	50.0000 ug/Kg	78.62
62) 1,4-dichlorobenzene-d4	15.75	152	1039061	50.0000 ug/Kg	78.85
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.56	152	658	0.0356 ug/Kg	0.07%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.90	43	8581	2.4658 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.36	43	6274	0.7653 ug/Kg#	57
16) Methylene chloride	4.44	84	4110	0.2697 ug/Kg#	83
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD53FM80.D
Acq Time : 06/08/2015 16:40 Operator: RJH
Sample : F9M80 LW Inst : 5972-P
Misc : 1515629 1:100 DILUTION Multiplr: 1.00

Quant Time: Jun 8 17:04 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.07	91	14264	0.2942 ug/Kg#	93
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	12.47	106	6057	0.2866 ug/Kg#	72
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

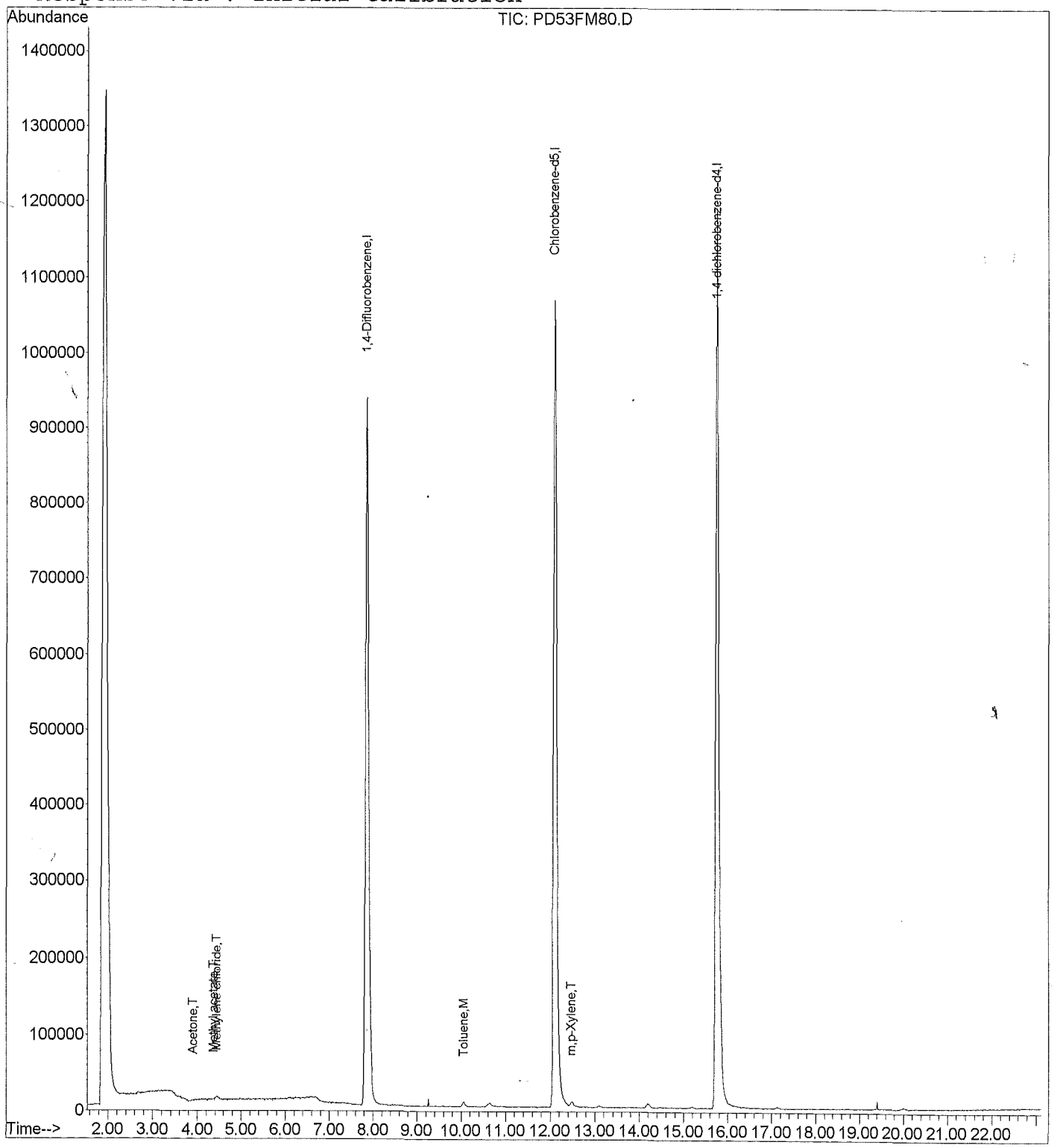
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD53FM80.D
Acq Time : 06/08/2015 16:40 Operator: RJH
Sample : F9M80 LW Inst : 5972-P
Misc : 1515629 1:100 DILUTION Multiplr: 1.00

Quant Time: Jun 8 17:04 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD54FK01.D
Acq Time : 06/08/2015 17:10 Operator: RJH
Sample : F9K01 Inst : 5972-P
Misc : 1515739 1:10 DILUTION Multiplr: 1.00

Quant Time: Jun 8 17:33 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.85	114	2088690	50.0000 ug/Kg	75.47
30) Chlorobenzene-d5	12.10	117	1684122	50.0000 ug/Kg	77.03
62) 1,4-dichlorobenzene-d4	15.74	152	1017618	50.0000 ug/Kg	77.22

System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.54	152	220	0.0121 ug/Kg	0.02%#

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.90	43	5373	1.5969 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.33	43	2547	0.3213 ug/Kg#	57
16) Methylene chloride	4.43	84	5574	0.3783 ug/Kg	94
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.16	43	2482	0.5224 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD54FK01.D
Acq Time : 06/08/2015 17:10 Operator: RJH
Sample : F9K01 Inst : 5972-P
Misc : 1515739 1:10 DILUTION Multiplr: 1.00

Quant Time: Jun 8 17:33 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.05	91	32963	0.6938 ug/Kg	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	12.48	106	5973	0.2884 ug/Kg	86
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

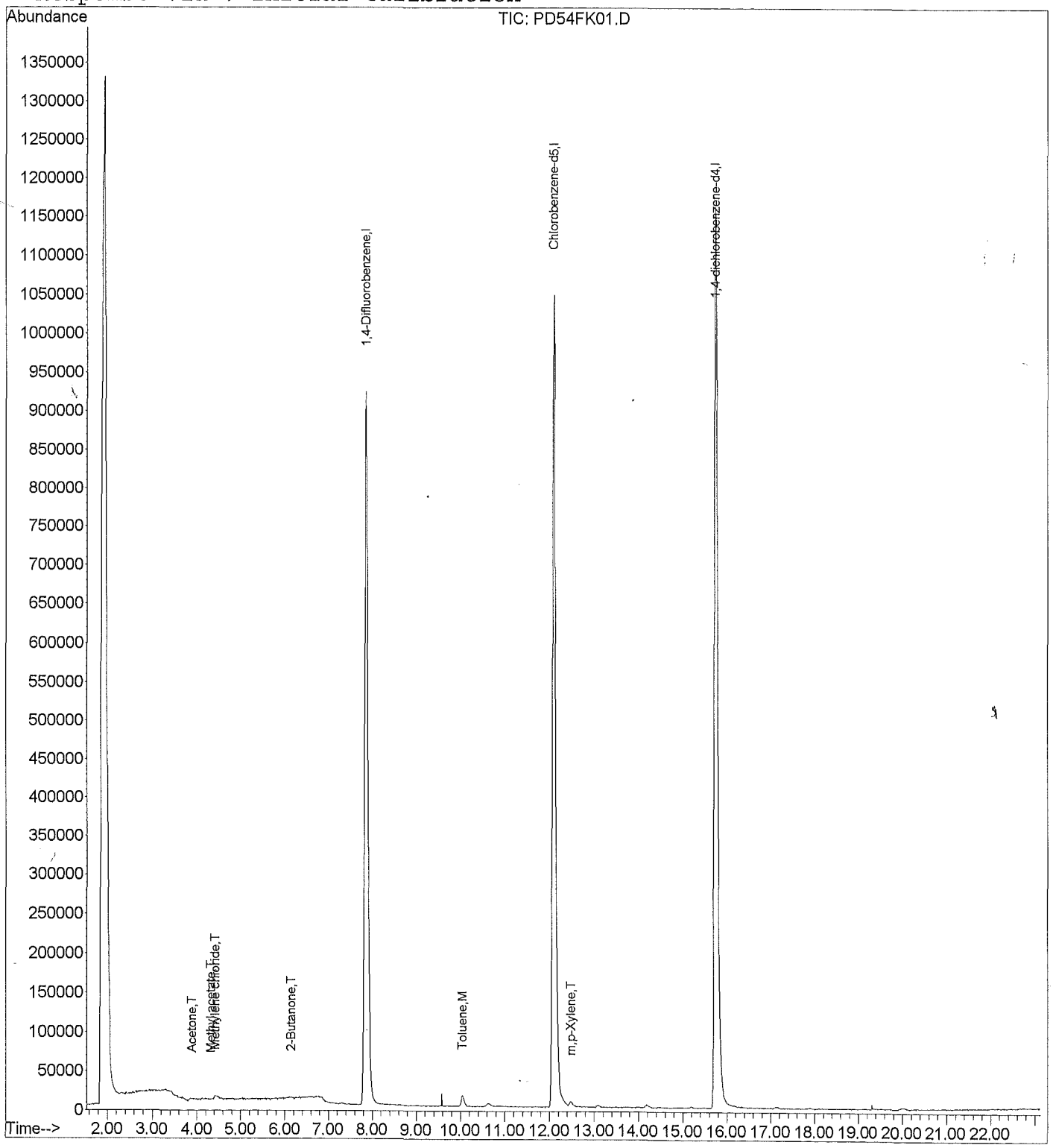
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15P\PD54FK01.D
Acq Time : 06/08/2015 17:10 Operator: RJH
Sample : F9K01 Inst : 5972-P
Misc : 1515739 1:10 DILUTION Multiplr: 1.00

Quant Time: Jun 8 17:33 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



: 00293

From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J1512150222303uv

Copy original in Sdg F9L98

SHIP TO: (801) 266-7700

BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ship Date: 01JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20408.016.005.0919.01
Invoice #
PO #
Dept #

MK 6/2/2015 9:04

TUE - 02 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 2481 5256

XH BTFA

84123
UT-US
SLC

537J1/8A0E/EE4B

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Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303uv

Ship Date: 02JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700 BILL: SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

10:57
MC 6/3/2015 10:57 6/3/2015

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 3701 5872

XH BTFA

84123
UT-US
SLC

537J1/8A/E/EE4B

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From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J15121502230 3uv

Ship Date: 03JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700

BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

THU - 04 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 4942 1450
0201

XH BTFA

84123
UT-US
SLC

537J1/8A0E/EE4B

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

06/04/2015 09:15

COPY Original inside Fam46

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8054 6774 8535

Form ID No. 0200

Recipient's Copy

1 From

Date 6/3/15

Sender's Name Derrick Cobb Phone 832 347 4150

Company Weston Solutions

Address 5590 San Felipe St

Dept./Floor/Suite/Room

City Houston State TX ZIP 77056

2 Your Internal Billing Reference 005.09.1.02

3 To

Recipient's Name Meredith Edwards Phone 801 266-7700

Company ALS Lab Group-Salt Lake City

Address 960 West Levoy St

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Salt Lake City State UT ZIP 84123

☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

06/04/2015 09:15

8054 6774 8535

4 Express Package Service • To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☒ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging • Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☒ Sender — Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

644

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fedex.com 1.800.GoFedEx 1.800.463.3339

From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303uv

Ship Date: 04JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

FRI - 05 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 5411 4460
0201

XH BTFA

84123
UT-US
SLC

537J1/8A0E/EE4B

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

06/05/2015 10:09
Copy Original in SDG F9K00

1515386

USEPA CLP COC (LAB COPY)

DateShipped: 6/1/2015
CarrierName: FedEx
AirbillNo: 773724815256

Copy original in SDG F9L98

CHAIN OF CUSTODY RECORD F9L96

Case #: 45316
Cooler #:

No: 6-060115-180519-0073
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-008-001-44-20150601	F9L96	Water/ START	Grab	VOA(21)	1311 (HCl) (3)	FieldQC	06/01/2015 07:55	
WO-008-001-00-51	F9L98	Soil/ START	Composite	VOA(21)	1314 (Ice) (3)	008	06/01/2015 09:00	
WO-008-002-00-51	F9L99	Soil/ START	Composite	VOA(21)	1319 (Ice) (3)	008	06/01/2015 09:05	
WO-008-002-00-52	F9M00	Soil/ START	Composite	VOA(21)	1324 (Ice) (3)	008	06/01/2015 09:10	
WO-008-003-00-51	F9M01	Soil/ START	Composite	VOA(21)	1329 (Ice) (3)	008	06/01/2015 09:10	
WO-008-004-00-51	F9M02	Soil/ START	Composite	VOA(21)	1334 (Ice) (3)	008	06/01/2015 09:20	
WO-008-001-06-51	F9M03	Soil/ START	Composite	VOA(21)	1339 (Ice) (3)	008	06/01/2015 09:50	
WO-008-001-12-51	F9M04	Soil/ START	Composite	VOA(21)	1344 (Ice) (3)	008	06/01/2015 09:55	
WO-008-001-24-51	F9M05	Soil/ START	Composite	VOA(21)	1349 (Ice) (3)	008	06/01/2015 10:00	
WO-008-002-06-51	F9M06	Soil/ START	Composite	VOA(21)	1354 (Ice) (3)	008	06/01/2015 10:25	

Special Instructions: No Lab QC on VOA Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
23/samples	[signature] Lucsten	6/1/15 2100	Fedex	6/1/15 2100	
	FedEx	6/2/2015/9:04	Meredith Edwards DATAL	6/2/2015/9:04	good

1515556

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737015872

copy original in SDG F9M21

CHAIN OF CUSTODY RECORD F9L96

Case #: 45316
Cooler #:

No: 6-060215-181745-0082
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-002-003-12-51	F9M41	Soil/ START	Composite	VOA(21)	1528 (Ice) (3)	002	06/02/2015 13:45	
WO-002-001-06-51	F9M42	Soil/ START	Composite	VOA(21)	1533 (Ice) (3)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	VOA(21)	1538 (Ice) (3)	002	06/02/2015 14:35	
WO-002-002-06-51	F9M44	Soil/ START	Composite	VOA(21)	1543 (Ice) (3)	002	06/02/2015 16:30	
WO-002-004-06-51	F9M45	Soil/ START	Composite	VOA(21)	1548 (Ice) (3)	002	06/02/2015 16:45	
WO-011-002-44-20150602	F9M46	Water/ START	Grab	VOA(21)	1552 (HCl) (3)	FieldQC	06/02/2015 17:25	

Special Instructions: No Lab QC VOA samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Rachel Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATA	6/3/2015 10:07	good

1515629

USEPA CLP COC (LAB COPY)

DateShipped: 6/3/2015
CarrierName: FedEx
AirbillNo: 773749421450

copy original inspc P9M46

CHAIN OF CUSTODY RECORD

Case #: 45316 F9L96
Cooler #:

No: 6-060315-191209-0096
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-002-06-51	F9M79	Soil/ START	Composite	VOA(21)	1712 (Ice) (3)	021	06/03/2015 15:15	Good
WO-021-001-44-20150603	F9M80	Water/ START	Grab	VOA(21)	1716 (HCl) (3)	FieldQC	06/03/2015 18:30	1st Field Sample

Special Instructions: No Lab QC VOA Samples	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	6/3/15 @ 2100	FedEx	6/3/15 @ 2100	
Sample receipt	FedEx	06/04/2015 09:15	[signature] DATAC	06/04/2015 09:15	Good

00201

USEPA CLP COC (LAB COPY)
DateShipped: 6/3/2015
CarrierName: FedEx
AirbillNo: 805467748535

CHAIN OF CUSTODY RECORD

F9L96

Case #: 45316
Cooler #:

No: 6-060315-194232-0101
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-002-004-43-20150603	F9M47	Water/ START	Grab	SVOA/SVOASIM(21)	1553 (Ice) (4)	FieldQC	06/03/2015 08:10	Good
WO-002-002-43-20150603	F9M53	Water/ START	Grab	SVOA/SVOASIM(21)	1582 (Ice) (4)	FieldQC	06/03/2015 08:15	1

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	6/3/15 @ 2100	FedEx	6/3/15 @ 2100	
Sample Receipt	FedEx	06/04/2015 09:15	[signature] DATAC	06/04/2015 09:15	Good

00292

1515739

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754114460

Copy original in SDG F9K00

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9 L96
~~F9K00~~
DOS 06/05/2015

No: 6-060415-161725-0111
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-004-06-51	F9K00	Soil/ START	Composite	VOA(21)	1809 (Ice) (3)	021	06/04/2015 11:00	Good
WO-019-003-44-20150604	F9K01	Water/ START	Grab	VOA(21)	1813 (HCl) (3)	FieldQC	06/04/2015 14:55	
WO-019-003-00-51	F9M82	Soil/ START	Composite	VOA(21)	1719 (Ice) (3)	021	06/04/2015 08:10	
WO-019-003-00-52	F9M83	Soil/ START	Composite	VOA(21)	1724 (Ice) (3)	021	06/04/2015 08:15	
WO-019-003-06-51	F9M84	Soil/ START	Composite	VOA(21)	1729 (Ice) (3)	021	06/04/2015 08:30	
WO-019-005-00-51	F9M85	Soil/ START	Composite	VOA(21)	1734 (Ice) (3)	021	06/04/2015 08:35	
WO-019-005-00-52	F9M86	Soil/ START	Composite	VOA(21)	1739 (Ice) (3)	021	06/04/2015 08:40	
WO-019-007-00-51	F9M87	Soil/ START	Composite	VOA(21)	1744 (Ice) (3)	021	06/04/2015 09:05	
WO-019-005-06-51	F9M88	Soil/ START	Composite	VOA(21)	1749 (Ice) (3)	021	06/04/2015 09:00	
WO-019-005-12-51	F9M89	Soil/ START	Composite	VOA(21)	1754 (Ice) (3)	021	06/04/2015 09:05	

Special Instructions: No Lab QC VOA Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
20/samples	TEK Weston	6/4/15 2100	Fedex	6/4/15 2100	
	FedEx	06/05/2015 10:09	DATAC	06/05/2015 10:09	Good

SAMPLE TAG INFORMATION SHEET

There are no Sample Tags included with this SDG

Notations concerning the location of the Sample Tags are included in Forms DC-1,, DC-2 and in the SDG Administrative Narrative (if it is required).

SAMPLE LOG-IN SHEET

Copy original in SDG F9L98

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 2
Received By (Print Name): Meredith Edwards	Log-In Date: 10/2/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L96 / Mod. Ref. No.: n/a

Remarks:

1. Custody Seal (s) — Present/Absent* (Present); Intact/Broken* (Intact)
2. Custody Seal Nos. — n/a / 1
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists — Present/Absent* (Present)
4. Airbill — Airbill/Sticker Present/Absent* (Present)
5. Airbill No. — 7737248852960 / n/a
6. Sample Tags — Present/Absent* (Present); Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody (Listed)
7. Sample Condition — Intact/Broken*/Leaking* (Intact)
8. Cooler Temperature Indicator Bottle — Present/Absent* (Present)
9. Cooler Temperature — 4°
10. Does information on TR/COCs, and sample tags agree? — Yes/No* (Yes)
11. Date Received at Laboratory — 10/2/2015
12. Time Received — 9:04

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9L96	n/a	1515386001	VOA water
98			VOA soil
99			
M00			
M01			
M02			
M03			
M04			
M05			
M06			
M07			
M08			
M09			
M10			
M11			
M12			
M13			
M14			
M15			
M17			
M18			
M19			

Sample Transfer

Fraction: VOA-W	Fraction: VOA-S
Area #: Storage 2	Area #: Storage 3
By: ME	By: ME
On: 10/2/2015	On: 10/2/2015

* Contact SMO and attach record of resolution

Reviewed By	Logbook No.: Not Applicable
Date	Logbook Page No.: Not Applicable

Copy original in SDG F9L98

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 2 of 2
Received By (Print Name): Meredith Edwards	Log-In Date: 6/2/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L96
	Mod. Ref. No.: n/a

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9M20	n/a		1 Soil
	Intact/Broken*				
2. Custody Seal Nos.	n/a				
	1				
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	7737248152 36				
	n/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	4°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	6/2/2015				
12. Time Received	9:04				
Sample Transfer					
Fraction	Fraction				
Area #	Area #				
By	By				
On	On				

MEE 6/2/2015

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. Not Applicable
Date	Logbook Page No. Not Applicable

SAMPLE LOG-IN SHEET

FORM-DC-1

Copy original in SDG FAM21

Lab Name: ALS Laboratory Group	Page 1 of 2
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: FAL96
	Mod. Ref. No.: n/a

Remarks:

1. Custody Seal (s) — Present/Absent*; Intact/Broken*
2. Custody Seal Nos. — n/a; 1
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists — Present/Absent*
4. Airbill — Airbill/Sticker Present/Absent*
5. Airbill No. — 7737705572; n/a
6. Sample Tags — Present/Absent*; Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
7. Sample Condition — Intact/Broken*/Leaking*
8. Cooler Temperature Indicator Bottle — Present/Absent*
9. Cooler Temperature — 4.
10. Does information on TR/COCs, and sample tags agree? — Yes/No*
11. Date Received at Laboratory — 6/3/2015
12. Time Received — 10:07

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.	
FAM21	n/a		VOA	Soil
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				

Sample Transfer

Fraction: VOA	Fraction:
Area #: Storage 3	Area #:
By: MEE	By:
On: 6/3/2015	On:

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

Copy original in SDG F9M21

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 2 of 2
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L96
	Mod. Ref. No.: n/a

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9M43	n/a		VOA Soil
	Intact/Broken*	44			
2. Custody Seal Nos.	n/a	45			
		46		15/15556 001	VOA Water
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	7737 3701 5842				
	n/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	4°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	6/3/2015				
12. Time Received	10:07				

Sample Transfer

Fraction: VOA-S	Fraction: VOA-W
Area #: Storage 3	Area #: Storage
By: MZ	By: MZ
On: 6/3/2015	On: 6/3/2015

MZ 6/3/2015

* Contact SMO and attach record of resolution

Reviewed By: Joanne Cella	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

SAMPLE LOG-IN SHEET

Copy Original in SDG F9M49 FORM-DC-1

Lab Name: ALS Laboratory Group	Page 2 of 2
Received By (Print Name): Thomas Carlson	Log-In Date: 06/04/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9L96
	Mod. Ref. No.: MA

Remarks:

1. Custody Seal (s) — Present/Absent* (Present); Intact/Broken* (Intact)
2. Custody Seal Nos. — N/A / 1
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists — Present/Absent* (Present)
4. Airbill — Airbill/Sticker Present/Absent* (Airbill/Sticker Present)
5. Airbill No. — 7737 4942 1450 / N/A
6. Sample Tags — Present/Absent* (Present); Listed/Not Listed on Chain-of-Custody (Listed)
   Sample Tag Numbers
7. Sample Condition — Intact/Broken*/Leaking* (Intact)
8. Cooler Temperature Indicator Bottle — Present/Absent* (Present)
9. Cooler Temperature — 0 2
10. Does information on TR/COCs, and sample tags agree? — Yes/No* (Yes)
11. Date Received at Laboratory — 06/04/2015
12. Time Received — 09:15

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9M71	N/A		VOA Soil
72			
73			
74			
75			
76			
77			
78			
79			
80		1515629001	VOA Water

DC 06/04/2015

Sample Transfer

Fraction	Fraction
VOA Soil	VOA Water
Area # Storage	Area # Storage2
By DC	By DC
On 06/04/2015	On 06/04/2015 6/5/15

* Contact SMO and attach record of resolution

Reviewed By: Joanne Olson	Logbook No.: Not Applicable
Date: 6/5/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2007)

00299

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 06/04/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9L96
	Mod. Ref. No.: N/A

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9M47	N/A	1515629002	SVOA/SVSIM Water
	Intact/Broken*	1 53	1	1 003	1
2. Custody Seal Nos.	N/A				
	1				
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	805467745535				
	N/A				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	06/04/2015				
12. Time Received	09:15				

Sample Transfer

Fraction: SVOA/SVSIM	Fraction:
Area #: R-331	Area #:
By: [signature]	By:
On: 06/04/2015	On:

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 6/5/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2007)

00300

SAMPLE LOG-IN SHEET

Copy original in SDG F9K00 FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 06/05/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9L96
	Mod. Ref. No.: N/A

Remarks:

1. Custody Seal (s) — Present/Absent* — Intact/Broken*
2. Custody Seal Nos. — N/A / 1
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists — Present/Absent*
4. Airbill — Airbill/Sticker Present/Absent*
5. Airbill No. — 7737541144 60 / N/A
6. Sample Tags — Present/Absent* — Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
7. Sample Condition — Intact/Broken*/Leaking*
8. Cooler Temperature Indicator Bottle — Present/Absent*
9. Cooler Temperature — 2
10. Does information on TR/COCs, and sample tags agree? — Yes/No*
11. Date Received at Laboratory — 06/05/2015
12. Time Received — 10:09

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9K00	N/A		VOA Soil
101		1515739	VOA Water
F9M82			VOA Soil
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			

Sample Transfer

Fraction	Fraction
VOA Soil	VOA Water
Area # Storage	Area # Storage 2
By OJC.	By OJC.
On 06/05/2015	On 06/05/2015

OJC 06/05/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 6/8/15	Logbook Page No.: Not Applicable

EPA-CLP CHECKING DOCUMENTATION FORM
FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9L96 Fraction VOA

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports, chromatograms, and spectra are included and are in the correct order.

Signature _____ Date 6/19/15

CCS CHECK - The computer-readable data submitted on diskette has been checked using CCS software provided by EPA. Necessary corrections to the diskette have been made if it is possible to correct the deficiency.

Signature _____ Date 6/19/15

CHEMIST CHECK or PEER REVIEW - Target compounds reported have been verified against the reference spectra. For target compounds which have isomers, the relative retention time has been verified against the relative retention time of the continuing standard. All target compounds present are reported on the Form I and the reported values are correct.

Signature _____ Date 6.20.15

MANAGER CHECK - The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature _____ Date 6.20.15

DOCUMENT CONTROL CHECK - All documents, forms, and data required for reporting are present and in the correct order. All required miscellaneous data (e.g., Traffic reports, Sample tags, Airbills, etc.) are also included.

Signature Dianne Hill Date 06/22/2015

EPA-CLP CHECKING DOCUMENTATION FORM FOR GC/MS ORGANICS ANALYSIS

Case 45346 SDG F9L96 Fraction SVOA

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports, chromatograms, and spectra are included and are in the correct order.

Signature [illegible] Date 6/19/15

CCS CHECK - The computer-readable data submitted on diskette has been checked using CCS software provided by EPA. Necessary corrections to the diskette have been made if it is possible to correct the deficiency.

Signature [illegible] Date 6/19/15

CHEMIST CHECK or PEER REVIEW - Target compounds reported have been verified against the reference spectra. For target compounds which have isomers, the relative retention time has been verified against the relative retention time of the continuing standard. All target compounds present are reported on the Form I and the reported values are correct.

Signature Thomas J Mason Date 6.22.15

MANAGER CHECK - The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature Thomas J Mason Date 6.22.15

DOCUMENT CONTROL CHECK - All documents, forms, and data required for reporting are present and in the correct order. All required miscellaneous data (e.g., Traffic reports, Sample tags, Airbills, etc.) are also included.

Signature Dusan Hill Date 06/22/2015

U.S. EPA Region 6 Laboratory
ESB FILE REQUEST / IN-FILING FORM

CONTACT NAME ____Raymond Flores_____ PHONE __281 983 2139_____

DATE____7/17/2015_____

_x__NEW FILE OR ___IN-FILING

Choose Program Type

___ AIR
___ FIFRA
___ MULTI-MEDIA
___ NPDES
___ PCB
___ RCRA
_x_ SUPERFUND
___ TSCA
___ WATER
Other _____

Choose File Type

___ ADMINISTRATIVE
___ ENFORCEMENT
___ FINAL REPORT
___ PROCUREMENT
___ QAPP
_x__ RAW DATA
____ SOP
___ CRIMINAL

Other_____

Project or Facility Name ___WILCOX OIL _____

Facility Address (if applicable) _____Bristow, OK_____

CERCLIS Number __OK0001010917_____ FRS Number _____

Project Number __Case/SDG 45316/F9L96__Work Order Number _____

Special Instructions:__CLP DATA, Box 1 of 1_____

_____

_____

****

For Record Center Staff only:

DATE RECV'D _____ DATE PULLED _____ DATE FILED _____

Requested from FRC? YES NO Date of request _____

Date returned to FRC _____

Rev. 2.0 May 17, 2011

Regional CCS Defect Report

14:55 Wed, Jun 24, 2015

SDG F9L96 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 216683 **Version** 8.6

DRD 06/23/2015 **LRD** 06/05/2015 **Mailed** 06/24/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

Sample Summary and Lab Receipt Date

Sample/Number	VOA Trace	VOA SIM	VOA	BNA	BNA SIM	PEST	AROCLOR	Automated	Manual
F9K01			06/05/2015						
F9L96			06/02/2015						
F9M46			06/03/2015						
F9M47				06/04/2015	06/04/2015				
F9M53				06/04/2015	06/04/2015				
F9M80			06/04/2015						
Totals	**0**	**0**	**4**	**2**	**2**	**0**	**0**		

Regional CCS Defect Report

14:55 Wed, Jun 24, 2015

SDG F9L96 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 216683 **Version** 8.6

DRD 06/23/2015 **LRD** 06/05/2015 **Mailed** 06/24/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

Regional Defect Detail

NONE FOUND

Regional CCS Defect Report

14:55 Wed, Jun 24, 2015

SDG F9L96 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 216683 **Version** 8.6

DRD 06/23/2015 **LRD** 06/05/2015 **Mailed** 06/24/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

General Comments

NONE FOUND