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

July 23, 2015

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

Raymond Flores

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#: **F9M36**

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. One surrogate recovery was poor in the BNA fraction rendering three targets as unusable.

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.

500018261

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: July 22, 2015

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Ying-Ping Hsieh, Data Reviewer, ESAT YPH

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.:	1502-211-0132
TDF No.:	6-15-307A
ESAT File No.:	O-1239

Attached is the data review summary for Case # 45316
SDG # F9M36
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	5
CONTRACT#	EP-W-11-037	MATRIX	Soil
SDG#	F9M36	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM01.2	REVIEWER'S NAME	Ying-Ping Hsieh
SF#	303DD2GG	COMPLETION DATE	July 22, 2015

SAMPLE NO.				
F9M36	F9M45			
F9M42				
F9M43				
F9M44				

DATA ASSESSMENT SUMMARY

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

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: BNA All samples had extremely low (<1%) SDMC8 recoveries, rendering some results unusable. **BNA-SIM** Sample F9M42 was extracted past the technical holding time limit by three days. Pentachlorophenol did not meet the technical %D calibration criteria and minimum RRF requirements.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45316 **SDG** F9M36 **SITE** Wilcox Oil **LAB** DATAC

COMMENTS: This SDG consisted of five soil samples for LMVOA, BNA, BNA-SIM, PEST, and ARO analyses following CLP SOW SOM01.2. Sample F9M36 was designated as the laboratory QC sample. MS/MSD analyses were requested only for the PEST and ARO fractions. All LMVOA and BNA samples were analyzed at the low level.

The SOW requires that the soil sample results be adjusted for moisture content as well as dilution when applicable. The adjusted CRQLs, higher than the CRQLs specified in the SOW, were reported by the laboratory and are referred to as SQLs in this report.

Although both the full scan and SIM analysis results were available for BNA samples, the SIM analysis results are designated for use only when the corresponding full scan analysis results were non-detects or below the SQLs. The target compounds reported at concentrations above the SQLs were acetone, 2-butanone, and/or toluene in all LMVOA samples; bis(2-ethylhexyl)phthalate in two BNA samples; and PAHs in four BNA-SIM samples. All BNA samples had extremely low (<1%) SDMC8 recoveries, rendering 4-chloroaniline, hexachlorocyclopentadiene, and 3,3'-dichlorobenzidine results unusable for these samples.

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: Some results were qualified for all BNA and three BNA-SIM samples because of problems with holding time, calibration, and/or DMC recovery. 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	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-71-8	Dichlorodifluoromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	74-87-3	Chloromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-01-4	Vinyl chloride	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	74-83-9	Bromomethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-00-3	Chloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-69-4	Trichlorofluoromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-35-4	1,1-Dichloroethene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	67-64-1	Acetone	9.8	LJ	ug/kg	13	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-15-0	Carbon disulfide	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	79-20-9	Methyl acetate	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-09-2	Methylene chloride	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	156-60-5	trans-1,2-Dichloroethene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	1634-04-4	Methyl tert-butyl ether	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-34-3	1,1-Dichloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	156-59-2	cis-1,2-Dichloroethene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	78-93-3	2-Butanone	13	U	ug/kg	13	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	74-97-5	Bromochloromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	67-66-3	Chloroform	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	71-55-6	1,1,1-Trichloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	110-82-7	Cyclohexane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	56-23-5	Carbon tetrachloride	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	71-43-2	Benzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	107-06-2	1,2-Dichloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	123-91-1	1,4-Dioxane	130	U	ug/kg	130	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	79-01-6	Trichloroethene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	108-87-2	Methylcyclohexane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	78-87-5	1,2-Dichloropropane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-27-4	Bromodichloromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	10061-01-5	cis-1,3-Dichloropropene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	108-10-1	4-Methyl-2-Pentanone	13	U	ug/kg	13	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	108-88-3	Toluene	16		ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	10061-02-6	trans-1,3-Dichloropropene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	79-00-5	1,1,2-Trichloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	127-18-4	Tetrachloroethene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	591-78-6	2-Hexanone	13	U	ug/kg	13	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	124-48-1	Dibromochloromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	106-93-4	1,2-Dibromoethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	108-90-7	Chlorobenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	100-41-4	Ethylbenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	95-47-6	o-Xylene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	179601-23-1	m,p-Xylene	0.33	LJ	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	100-42-5	Styrene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-25-2	Bromoform	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	98-82-8	Isopropylbenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	79-34-5	1,1,2,2-Tetrachloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	541-73-1	1,3-Dichlorobenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	106-46-7	1,4-Dichlorobenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	95-50-1	1,2-Dichlorobenzene	6.6	U	ug/kg	6.6	06/02/2015	002

45316	F9M36	F9M36	1515552001	S	06/10/2015 01:24:00	96-12-8	1,2-Dibromo-3-chloropropane	6.6	U		ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015 01:24:00	120-82-1	1,2,4-Trichlorobenzene	6.6	U		ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015 01:24:00	87-61-6	1,2,3-Trichlorobenzene	6.6	U		ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-71-8	Dichlorodifluoromethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	74-87-3	Chloromethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-01-4	Vinyl chloride	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	74-83-9	Bromomethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-00-3	Chloroethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-69-4	Trichlorofluoromethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-35-4	1,1-Dichloroethene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	67-64-1	Acetone	39			ug/kg	11	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-15-0	Carbon disulfide	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	79-20-9	Methyl acetate	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-09-2	Methylene chloride	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	156-60-5	trans-1,2-Dichloroethene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	1634-04-4	Methyl tert-butyl ether	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-34-3	1,1-Dichloroethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	156-59-2	cis-1,2-Dichloroethene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	78-93-3	2-Butanone	13			ug/kg	11	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	74-97-5	Bromochloromethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	67-66-3	Chloroform	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	71-55-6	1,1,1-Trichloroethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	110-82-7	Cyclohexane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	56-23-5	Carbon tetrachloride	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	71-43-2	Benzene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	107-06-2	1,2-Dichloroethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	123-91-1	1,4-Dioxane	110	U		ug/kg	110	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	79-01-6	Trichloroethene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	108-87-2	Methylcyclohexane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	78-87-5	1,2-Dichloropropane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-27-4	Bromodichloromethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	10061-01-5	cis-1,3-Dichloropropene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	108-10-1	4-Methyl-2-Pentanone	11	U		ug/kg	11	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	108-88-3	Toluene	6.1			ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	10061-02-6	trans-1,3-Dichloropropene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	79-00-5	1,1,2-Trichloroethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	127-18-4	Tetrachloroethene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	591-78-6	2-Hexanone	11	U		ug/kg	11	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	124-48-1	Dibromochloromethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	106-93-4	1,2-Dibromoethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	108-90-7	Chlorobenzene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	100-41-4	Ethylbenzene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	95-47-6	o-Xylene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	179601-23-1	m,p-Xylene	0.24		LJ	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	100-42-5	Styrene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-25-2	Bromoform	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	98-82-8	Isopropylbenzene	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	79-34-5	1,1,2,2-Tetrachloroethane	5.5	U		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	541-73-1	1,3-Dichlorobenzene	5.5	U		ug/kg	5.5	06/02/2015	002

45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	106-46-7	1,4-Dichlorobenzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	95-50-1	1,2-Dichlorobenzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	96-12-8	1,2-Dibromo-3-chloropropane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	120-82-1	1,2,4-Trichlorobenzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	87-61-6	1,2,3-Trichlorobenzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	75-71-8	Dichlorodifluoromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	74-87-3	Chloromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	75-01-4	Vinyl chloride	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	74-83-9	Bromomethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	75-00-3	Chloroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	75-69-4	Trichlorofluoromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	75-35-4	1,1-Dichloroethene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	67-64-1	Acetone	19		ug/kg	11	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	75-15-0	Carbon disulfide	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	79-20-9	Methyl acetate	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	75-09-2	Methylene chloride	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	156-60-5	trans-1,2-Dichloroethene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	1634-04-4	Methyl tert-butyl ether	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	75-34-3	1,1-Dichloroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	156-59-2	cis-1,2-Dichloroethene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	78-93-3	2-Butanone	11	U	ug/kg	11	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	74-97-5	Bromochloromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	67-66-3	Chloroform	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	71-55-6	1,1,1-Trichloroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	110-82-7	Cyclohexane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	56-23-5	Carbon tetrachloride	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	71-43-2	Benzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	107-06-2	1,2-Dichloroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	123-91-1	1,4-Dioxane	110	U	ug/kg	110	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	79-01-6	Trichloroethene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	108-87-2	Methylcyclohexane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	78-87-5	1,2-Dichloropropane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	75-27-4	Bromodichloromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	10061-01-5	cis-1,3-Dichloropropene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	108-10-1	4-Methyl-2-Pentanone	11	U	ug/kg	11	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	108-88-3	Toluene	1.5	LJ	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	10061-02-6	trans-1,3-Dichloropropene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	79-00-5	1,1,2-Trichloroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	127-18-4	Tetrachloroethene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	591-78-6	2-Hexanone	11	U	ug/kg	11	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	124-48-1	Dibromochloromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	106-93-4	1,2-Dibromoethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	108-90-7	Chlorobenzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	100-41-4	Ethylbenzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	95-47-6	o-Xylene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	179601-23-1	m,p-Xylene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	100-42-5	Styrene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	75-25-2	Bromoform	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	98-82-8	Isopropylbenzene	5.4	U	ug/kg	5.4	06/02/2015	002

45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	79-34-5	1,1,2,2-Tetrachloroethane	5.4	U		ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	541-73-1	1,3-Dichlorobenzene	5.4	U		ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	106-46-7	1,4-Dichlorobenzene	5.4	U		ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	95-50-1	1,2-Dichlorobenzene	5.4	U		ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	96-12-8	1,2-Dibromo-3-chloropropane	5.4	U		ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	120-82-1	1,2,4-Trichlorobenzene	5.4	U		ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	87-61-6	1,2,3-Trichlorobenzene	5.4	U		ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	75-71-8	Dichlorodifluoromethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	74-87-3	Chloromethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	75-01-4	Vinyl chloride	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	74-83-9	Bromomethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	75-00-3	Chloroethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	75-69-4	Trichlorofluoromethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	75-35-4	1,1-Dichloroethene	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	67-64-1	Acetone	29			ug/kg	9.9	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	75-15-0	Carbon disulfide	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	79-20-9	Methyl acetate	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	75-09-2	Methylene chloride	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	156-60-5	trans-1,2-Dichloroethene	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	1634-04-4	Methyl tert-butyl ether	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	75-34-3	1,1-Dichloroethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	156-59-2	cis-1,2-Dichloroethene	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	78-93-3	2-Butanone	13			ug/kg	9.9	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	74-97-5	Bromochloromethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	67-66-3	Chloroform	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	71-55-6	1,1,1-Trichloroethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	110-82-7	Cyclohexane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	56-23-5	Carbon tetrachloride	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	71-43-2	Benzene	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	107-06-2	1,2-Dichloroethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	123-91-1	1,4-Dioxane	99	U		ug/kg	99	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	79-01-6	Trichloroethene	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	108-87-2	Methylcyclohexane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	78-87-5	1,2-Dichloropropane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	75-27-4	Bromodichloromethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	108-10-1	4-Methyl-2-Pentanone	9.9	U		ug/kg	9.9	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	108-88-3	Toluene	4.9		LJ	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	79-00-5	1,1,2-Trichloroethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	127-18-4	Tetrachloroethene	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	591-78-6	2-Hexanone	9.9	U		ug/kg	9.9	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	124-48-1	Dibromochloromethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	106-93-4	1,2-Dibromoethane	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	108-90-7	Chlorobenzene	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	100-41-4	Ethylbenzene	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	95-47-6	o-Xylene	5.0	U		ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	179601-23-1	m,p-Xylene	0.20		LJ	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	100-42-5	Styrene	5.0	U		ug/kg	5.0	06/02/2015	002

45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	75-25-2	Bromoform	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	98-82-8	Isopropylbenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-71-8	Dichlorodifluoromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	74-87-3	Chloromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-01-4	Vinyl chloride	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	74-83-9	Bromomethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-00-3	Chloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-69-4	Trichlorofluoromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-35-4	1,1-Dichloroethene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	67-64-1	Acetone	14		ug/kg	11	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-15-0	Carbon disulfide	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	79-20-9	Methyl acetate	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-09-2	Methylene chloride	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	156-60-5	trans-1,2-Dichloroethene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	1634-04-4	Methyl tert-butyl ether	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-34-3	1,1-Dichloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	156-59-2	cis-1,2-Dichloroethene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	78-93-3	2-Butanone	19		ug/kg	11	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	74-97-5	Bromochloromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	67-66-3	Chloroform	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	71-55-6	1,1,1-Trichloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	110-82-7	Cyclohexane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	56-23-5	Carbon tetrachloride	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	71-43-2	Benzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	107-06-2	1,2-Dichloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	123-91-1	1,4-Dioxane	110	U	ug/kg	110	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	79-01-6	Trichloroethene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	108-87-2	Methylcyclohexane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	78-87-5	1,2-Dichloropropane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-27-4	Bromodichloromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	10061-01-5	cis-1,3-Dichloropropene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	108-10-1	4-Methyl-2-Pentanone	11	U	ug/kg	11	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	108-88-3	Toluene	9.5		ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	10061-02-6	trans-1,3-Dichloropropene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	79-00-5	1,1,2-Trichloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	127-18-4	Tetrachloroethene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	591-78-6	2-Hexanone	11	U	ug/kg	11	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	124-48-1	Dibromochloromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	106-93-4	1,2-Dibromoethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	108-90-7	Chlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	100-41-4	Ethylbenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	95-47-6	o-Xylene	5.3	U	ug/kg	5.3	06/02/2015	002

45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	179601-23-1	m,p-Xylene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	100-42-5	Styrene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-25-2	Bromoform	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	98-82-8	Isopropylbenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	79-34-5	1,1,2,2-Tetrachloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	541-73-1	1,3-Dichlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	106-46-7	1,4-Dichlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	95-50-1	1,2-Dichlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	96-12-8	1,2-Dibromo-3-chloropropane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	120-82-1	1,2,4-Trichlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	87-61-6	1,2,3-Trichlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	100-52-7	Benzaldehyde	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	108-95-2	Phenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	111-44-4	Bis(2-chloroethyl)ether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	95-57-8	2-Chlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	95-48-7	2-Methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	98-86-2	Acetophenone	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	106-44-5	4-Methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	621-64-7	N-Nitroso-di-n-propylamine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	67-72-1	Hexachloroethane	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	98-95-3	Nitrobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	78-59-1	Isophorone	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	88-75-5	2-Nitrophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	105-67-9	2,4-Dimethylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	120-83-2	2,4-Dichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	91-20-3	Naphthalene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	106-47-8	4-Chloroaniline	210	UR	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	87-68-3	Hexachlorobutadiene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	105-60-2	Caprolactam	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	91-57-6	2-Methylnaphthalene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	77-47-4	Hexachlorocyclopentadiene	210	UR	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	92-52-4	1,1'-Biphenyl	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	91-58-7	2-Chloronaphthalene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	88-74-4	2-Nitroaniline	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	131-11-3	Dimethylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	606-20-2	2,6-Dinitrotoluene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	208-96-8	Acenaphthylene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	99-09-2	3-Nitroaniline	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	83-32-9	Acenaphthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	51-28-5	2,4-Dinitrophenol	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	100-02-7	4-Nitrophenol	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	132-64-9	Dibenzofuran	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	121-14-2	2,4-Dinitrotoluene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	84-66-2	Diethylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	86-73-7	Fluorene	210	U *	ug/kg	210	06/02/2015	002

45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	7005-72-3	4-Chlorophenyl-phenylether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	100-01-6	4-Nitroaniline	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	534-52-1	4,6-Dinitro-2-methylphenol	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	86-30-6	N-Nitrosodiphenylamine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	101-55-3	4-Bromophenyl-phenylether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	118-74-1	Hexachlorobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	1912-24-9	Atrazine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	87-86-5	Pentachlorophenol	420	U *	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	85-01-8	Phenanthrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	120-12-7	Anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	86-74-8	Carbazole	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	84-74-2	Di-n-butylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	206-44-0	Fluoranthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	129-00-0	Pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	85-68-7	Butylbenzylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	91-94-1	3,3'-Dichlorobenzidine	210	UR	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	56-55-3	Benzo(a)anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	218-01-9	Chrysene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	117-81-7	Bis(2-ethylhexyl)phthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	117-84-0	Di-n-octylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	205-99-2	Benzo(b)fluoranthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	207-08-9	Benzo(k)fluoranthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	50-32-8	Benzo(a)pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	53-70-3	Dibenzo(a,h)anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	191-24-2	Benzo(g,h,i)perylene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015	13:41:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	91-20-3	Naphthalene	2.6	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	91-57-6	2-Methylnaphthalene	2.5	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	208-96-8	Acenaphthylene	2.5	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	83-32-9	Acenaphthene	1.7	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	86-73-7	Fluorene	1.3	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	87-86-5	Pentachlorophenol	4.8	LJ	ug/kg	8.4	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	85-01-8	Phenanthrene	13		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	120-12-7	Anthracene	3.6	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	206-44-0	Fluoranthene	20		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	129-00-0	Pyrene	20		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	56-55-3	Benzo(a)anthracene	14		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	218-01-9	Chrysene	19		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	205-99-2	Benzo(b)fluoranthene	21		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	207-08-9	Benzo(k)fluoranthene	6.2		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	50-32-8	Benzo(a)pyrene	11		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	193-39-5	Indeno(1,2,3-cd)pyrene	12		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	53-70-3	Dibenzo(a,h)anthracene	2.9	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015	14:09:00	191-24-2	Benzo(g,h,i)perylene	9.0		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	108-95-2	Phenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	06/02/2015	002

45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	98-86-2	Acetophenone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	78-59-1	Isophorone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	91-20-3	Naphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	106-47-8	4-Chloroaniline	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	105-60-2	Caprolactam	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	91-57-6	2-Methylnaphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	77-47-4	Hexachlorocyclopentadiene	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	88-74-4	2-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	208-96-8	Acenaphthylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	99-09-2	3-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	83-32-9	Acenaphthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	51-28-5	2,4-Dinitrophenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	100-02-7	4-Nitrophenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	86-73-7	Fluorene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	100-01-6	4-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	534-52-1	4,6-Dinitro-2-methylphenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	1912-24-9	Atrazine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	87-86-5	Pentachlorophenol	390	U *	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	85-01-8	Phenanthrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	120-12-7	Anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	86-74-8	Carbazole	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	206-44-0	Fluoranthene	19	*	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	129-00-0	Pyrene	19	*	ug/kg	200	06/02/2015	002

45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	85-68-7	Butylbenzylphthalate	93	LJ	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	91-94-1	3,3'-Dichlorobenzidine	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	56-55-3	Benzo(a)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	218-01-9	Chrysene	18	*	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	117-81-7	Bis(2-ethylhexyl)phthalate	200		ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	205-99-2	Benzo(b)fluoranthene	23	*	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	207-08-9	Benzo(k)fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	50-32-8	Benzo(a)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	53-70-3	Dibenzo(a,h)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	191-24-2	Benzo(g,h,i)perylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	91-20-3	Naphthalene	0.97	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	91-57-6	2-Methylnaphthalene	1.4	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	208-96-8	Acenaphthylene	3.9	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	83-32-9	Acenaphthene	1.2	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	86-73-7	Fluorene	1.2	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	87-86-5	Pentachlorophenol	8.0	UJ	ug/kg	8.0	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	85-01-8	Phenanthrene	11	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	120-12-7	Anthracene	4.5	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	206-44-0	Fluoranthene	22	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	129-00-0	Pyrene	24	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	56-55-3	Benzo(a)anthracene	21	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	218-01-9	Chrysene	25	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	205-99-2	Benzo(b)fluoranthene	30	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	207-08-9	Benzo(k)fluoranthene	10	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	50-32-8	Benzo(a)pyrene	22	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	193-39-5	Indeno(1,2,3-cd)pyrene	18	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	53-70-3	Dibenzo(a,h)anthracene	4.0	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	191-24-2	Benzo(g,h,i)perylene	14	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	108-95-2	Phenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	98-86-2	Acetophenone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	78-59-1	Isophorone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	91-20-3	Naphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	106-47-8	4-Chloroaniline	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	06/02/2015	002

45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	105-60-2	Caprolactam	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	91-57-6	2-Methylnaphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	77-47-4	Hexachlorocyclopentadiene	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	208-96-8	Acenaphthylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	83-32-9	Acenaphthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	86-73-7	Fluorene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	1912-24-9	Atrazine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	87-86-5	Pentachlorophenol	380	U *	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	85-01-8	Phenanthrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	120-12-7	Anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	86-74-8	Carbazole	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	206-44-0	Fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	129-00-0	Pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	91-94-1	3,3'-Dichlorobenzidine	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	56-55-3	Benzo(a)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	218-01-9	Chrysene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	117-81-7	Bis(2-ethylhexyl)phthalate	130	LJ	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	205-99-2	Benzo(b)fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	207-08-9	Benzo(k)fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	50-32-8	Benzo(a)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	53-70-3	Dibenzo(a,h)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	191-24-2	Benzo(g,h,i)perylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	91-20-3	Naphthalene	1.9	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	91-57-6	2-Methylnaphthalene	3.7	LJ	ug/kg	3.8	06/02/2015	002

45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	208-96-8	Acenaphthylene	2.2	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	83-32-9	Acenaphthene	0.80	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	86-73-7	Fluorene	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	87-86-5	Pentachlorophenol	1.9	LJ	ug/kg	7.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	85-01-8	Phenanthrene	5.7		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	120-12-7	Anthracene	2.5	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	206-44-0	Fluoranthene	12		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	129-00-0	Pyrene	12		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	56-55-3	Benzo(a)anthracene	8.6		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	218-01-9	Chrysene	12		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	205-99-2	Benzo(b)fluoranthene	15		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	207-08-9	Benzo(k)fluoranthene	4.6		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	50-32-8	Benzo(a)pyrene	7.5		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	193-39-5	Indeno(1,2,3-cd)pyrene	8.8		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	53-70-3	Dibenzo(a,h)anthracene	2.0	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015	15:10:00	191-24-2	Benzo(g,h,i)perylene	5.8		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	100-52-7	Benzaldehyde	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	108-95-2	Phenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	111-44-4	Bis(2-chloroethyl)ether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	95-57-8	2-Chlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	95-48-7	2-Methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	98-86-2	Acetophenone	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	106-44-5	4-Methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	621-64-7	N-Nitroso-di-n-propylamine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	67-72-1	Hexachloroethane	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	98-95-3	Nitrobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	78-59-1	Isophorone	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	88-75-5	2-Nitrophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	105-67-9	2,4-Dimethylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	120-83-2	2,4-Dichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	91-20-3	Naphthalene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	106-47-8	4-Chloroaniline	210	UR	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	87-68-3	Hexachlorobutadiene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	105-60-2	Caprolactam	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	91-57-6	2-Methylnaphthalene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	77-47-4	Hexachlorocyclopentadiene	210	UR	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	92-52-4	1,1'-Biphenyl	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	91-58-7	2-Chloronaphthalene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	88-74-4	2-Nitroaniline	400	U	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	131-11-3	Dimethylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	606-20-2	2,6-Dinitrotoluene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	208-96-8	Acenaphthylene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	99-09-2	3-Nitroaniline	400	U	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	83-32-9	Acenaphthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	51-28-5	2,4-Dinitrophenol	400	U	ug/kg	400	06/02/2015	002

45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	100-02-7	4-Nitrophenol	400	U	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	132-64-9	Dibenzofuran	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	121-14-2	2,4-Dinitrotoluene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	84-66-2	Diethylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	86-73-7	Fluorene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	7005-72-3	4-Chlorophenyl-phenylether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	100-01-6	4-Nitroaniline	400	U	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	534-52-1	4,6-Dinitro-2-methylphenol	400	U	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	86-30-6	N-Nitrosodiphenylamine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	101-55-3	4-Bromophenyl-phenylether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	118-74-1	Hexachlorobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	1912-24-9	Atrazine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	87-86-5	Pentachlorophenol	400	U *	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	85-01-8	Phenanthrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	120-12-7	Anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	86-74-8	Carbazole	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	84-74-2	Di-n-butylphthalate	25	LJ	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	206-44-0	Fluoranthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	129-00-0	Pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	85-68-7	Butylbenzylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	91-94-1	3,3'-Dichlorobenzidine	210	UR	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	56-55-3	Benzo(a)anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	218-01-9	Chrysene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	117-81-7	Bis(2-ethylhexyl)phthalate	310		ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	117-84-0	Di-n-octylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	205-99-2	Benzo(b)fluoranthene	20	*	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	207-08-9	Benzo(k)fluoranthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	50-32-8	Benzo(a)pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	53-70-3	Dibenzo(a,h)anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	191-24-2	Benzo(g,h,i)perylene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015	21:50:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	91-20-3	Naphthalene	0.86	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	91-57-6	2-Methylnaphthalene	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	208-96-8	Acenaphthylene	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	83-32-9	Acenaphthene	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	86-73-7	Fluorene	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	87-86-5	Pentachlorophenol	8.2	UJv	ug/kg	8.2	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	85-01-8	Phenanthrene	3.2	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	120-12-7	Anthracene	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	206-44-0	Fluoranthene	5.4		ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	129-00-0	Pyrene	5.7		ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	56-55-3	Benzo(a)anthracene	3.0	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	218-01-9	Chrysene	5.7		ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	205-99-2	Benzo(b)fluoranthene	5.5		ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	207-08-9	Benzo(k)fluoranthene	1.4	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	50-32-8	Benzo(a)pyrene	2.6	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.2	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	53-70-3	Dibenzo(a,h)anthracene	4.0	U	ug/kg	4.0	06/02/2015	002

45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015 15:40:00	191-24-2	Benzo(g,h,i)perylene	2.0	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	108-95-2	Phenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	98-86-2	Acetophenone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	78-59-1	Isophorone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	91-20-3	Naphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	106-47-8	4-Chloroaniline	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	105-60-2	Caprolactam	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	91-57-6	2-Methylnaphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	77-47-4	Hexachlorocyclopentadiene	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	88-74-4	2-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	208-96-8	Acenaphthylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	99-09-2	3-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	83-32-9	Acenaphthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	51-28-5	2,4-Dinitrophenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	100-02-7	4-Nitrophenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	86-73-7	Fluorene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	100-01-6	4-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	534-52-1	4,6-Dinitro-2-methylphenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	1912-24-9	Atrazine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	87-86-5	Pentachlorophenol	390	U *	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	85-01-8	Phenanthrene	200	U *	ug/kg	200	06/02/2015	002

45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	120-12-7	Anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	86-74-8	Carbazole	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	206-44-0	Fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	129-00-0	Pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	91-94-1	3,3'-Dichlorobenzidine	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	56-55-3	Benzo(a)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	218-01-9	Chrysene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	LJ	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	205-99-2	Benzo(b)fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	207-08-9	Benzo(k)fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	50-32-8	Benzo(a)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	53-70-3	Dibenzo(a,h)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	191-24-2	Benzo(g,h,i)perylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	91-20-3	Naphthalene	0.79	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	91-57-6	2-Methylnaphthalene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	208-96-8	Acenaphthylene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	83-32-9	Acenaphthene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	86-73-7	Fluorene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	87-86-5	Pentachlorophenol	7.9	UJv	ug/kg	7.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	85-01-8	Phenanthrene	2.7	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	120-12-7	Anthracene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	206-44-0	Fluoranthene	1.5	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	129-00-0	Pyrene	2.9	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	56-55-3	Benzo(a)anthracene	1.7	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	218-01-9	Chrysene	3.8	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	205-99-2	Benzo(b)fluoranthene	2.0	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	207-08-9	Benzo(k)fluoranthene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	50-32-8	Benzo(a)pyrene	1.2	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	193-39-5	Indeno(1,2,3-cd)pyrene	1.1	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	53-70-3	Dibenzo(a,h)anthracene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015	16:11:00	191-24-2	Benzo(g,h,i)perylene	1.1	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	319-84-6	alpha-BHC	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	319-85-7	beta-BHC	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	319-86-8	delta-BHC	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	58-89-9	gamma-BHC (Lindane)	0.22	LJ	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	76-44-8	Heptachlor	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	309-00-2	Aldrin	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	1024-57-3	Heptachlor epoxide	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	959-98-8	Endosulfan I	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	60-57-1	Dieldrin	0.27	LJ	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	72-55-9	4,4'-DDE	0.24	LJ	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	72-20-8	Endrin	4.1	U	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	33213-65-9	Endosulfan II	4.1	U	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	72-54-8	4,4'-DDD	0.067	LJ	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015	01:54:00	1031-07-8	Endosulfan sulfate	0.31	LJ	ug/kg	4.1	06/02/2015	002

45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	50-29-3	4,4'-DDT	0.75	LJ	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	72-43-5	Methoxychlor	21	U	ug/kg	21	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	53494-70-5	Endrin ketone	4.1	U	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	7421-93-4	Endrin aldehyde	4.1	U	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	5103-71-9	alpha-Chlordane	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	5103-74-2	gamma-Chlordane	0.20	LJ	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	8001-35-2	Toxaphene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	319-84-6	alpha-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	319-85-7	beta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	319-86-8	delta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	58-89-9	gamma-BHC (Lindane)	0.096	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	76-44-8	Heptachlor	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	309-00-2	Aldrin	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	1024-57-3	Heptachlor epoxide	0.60	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	959-98-8	Endosulfan I	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	60-57-1	Dieldrin	0.39	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	72-55-9	4,4'-DDE	0.62	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	72-20-8	Endrin	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	33213-65-9	Endosulfan II	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	72-54-8	4,4'-DDD	0.73	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	1031-07-8	Endosulfan sulfate	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	50-29-3	4,4'-DDT	0.46	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	72-43-5	Methoxychlor	20	U	ug/kg	20	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	53494-70-5	Endrin ketone	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	7421-93-4	Endrin aldehyde	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	5103-71-9	alpha-Chlordane	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	5103-74-2	gamma-Chlordane	0.41	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	8001-35-2	Toxaphene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	319-84-6	alpha-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	319-85-7	beta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	319-86-8	delta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	58-89-9	gamma-BHC (Lindane)	0.19	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	76-44-8	Heptachlor	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	309-00-2	Aldrin	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	1024-57-3	Heptachlor epoxide	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	959-98-8	Endosulfan I	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	60-57-1	Dieldrin	0.27	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	72-55-9	4,4'-DDE	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	72-20-8	Endrin	0.81	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	33213-65-9	Endosulfan II	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	72-54-8	4,4'-DDD	0.25	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	1031-07-8	Endosulfan sulfate	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	50-29-3	4,4'-DDT	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	72-43-5	Methoxychlor	1.4	LJ	ug/kg	20	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	53494-70-5	Endrin ketone	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	7421-93-4	Endrin aldehyde	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	5103-71-9	alpha-Chlordane	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	5103-74-2	gamma-Chlordane	0.22	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	8001-35-2	Toxaphene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	319-84-6	alpha-BHC	2.1	U	ug/kg	2.1	06/02/2015	002

45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	319-85-7	beta-BHC	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	319-86-8	delta-BHC	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	58-89-9	gamma-BHC (Lindane)	0.34	LJ	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	76-44-8	Heptachlor	0.25	LJ	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	309-00-2	Aldrin	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	1024-57-3	Heptachlor epoxide	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	959-98-8	Endosulfan I	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	60-57-1	Dieldrin	0.39	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	72-55-9	4,4'-DDE	0.14	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	72-20-8	Endrin	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	33213-65-9	Endosulfan II	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	72-54-8	4,4'-DDD	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	1031-07-8	Endosulfan sulfate	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	50-29-3	4,4'-DDT	0.44	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	72-43-5	Methoxychlor	21	U	ug/kg	21	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	53494-70-5	Endrin ketone	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	7421-93-4	Endrin aldehyde	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	5103-71-9	alpha-Chlordane	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	5103-74-2	gamma-Chlordane	0.19	LJ	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	8001-35-2	Toxaphene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	319-84-6	alpha-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	319-85-7	beta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	319-86-8	delta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	58-89-9	gamma-BHC (Lindane)	0.15	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	76-44-8	Heptachlor	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	309-00-2	Aldrin	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	1024-57-3	Heptachlor epoxide	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	959-98-8	Endosulfan I	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	60-57-1	Dieldrin	0.19	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	72-55-9	4,4'-DDE	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	72-20-8	Endrin	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	33213-65-9	Endosulfan II	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	72-54-8	4,4'-DDD	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	1031-07-8	Endosulfan sulfate	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	50-29-3	4,4'-DDT	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	72-43-5	Methoxychlor	1.3	LJ	ug/kg	20	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	53494-70-5	Endrin ketone	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	7421-93-4	Endrin aldehyde	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	5103-71-9	alpha-Chlordane	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	5103-74-2	gamma-Chlordane	0.19	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	8001-35-2	Toxaphene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	12674-11-2	Aroclor-1016	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	11104-28-2	Aroclor-1221	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	11141-16-5	Aroclor-1232	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	53469-21-9	Aroclor-1242	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	12672-29-6	Aroclor-1248	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	11097-69-1	Aroclor-1254	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	11096-82-5	Aroclor-1260	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	37324-23-5	Aroclor-1262	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	11100-14-4	Aroclor-1268	41	U	ug/kg	41	06/02/2015	002

45316	F9M36	F9M42	1515552004	S	06/15/2015	23:22:00	12674-11-2	Aroclor-1016	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015	23:22:00	11104-28-2	Aroclor-1221	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015	23:22:00	11141-16-5	Aroclor-1232	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015	23:22:00	53469-21-9	Aroclor-1242	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015	23:22:00	12672-29-6	Aroclor-1248	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015	23:22:00	11097-69-1	Aroclor-1254	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015	23:22:00	11096-82-5	Aroclor-1260	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015	23:22:00	37324-23-5	Aroclor-1262	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015	23:22:00	11100-14-4	Aroclor-1268	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015	23:38:00	12674-11-2	Aroclor-1016	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015	23:38:00	11104-28-2	Aroclor-1221	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015	23:38:00	11141-16-5	Aroclor-1232	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015	23:38:00	53469-21-9	Aroclor-1242	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015	23:38:00	12672-29-6	Aroclor-1248	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015	23:38:00	11097-69-1	Aroclor-1254	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015	23:38:00	11096-82-5	Aroclor-1260	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015	23:38:00	37324-23-5	Aroclor-1262	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015	23:38:00	11100-14-4	Aroclor-1268	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015	23:55:00	12674-11-2	Aroclor-1016	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015	23:55:00	11104-28-2	Aroclor-1221	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015	23:55:00	11141-16-5	Aroclor-1232	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015	23:55:00	53469-21-9	Aroclor-1242	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015	23:55:00	12672-29-6	Aroclor-1248	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015	23:55:00	11097-69-1	Aroclor-1254	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015	23:55:00	11096-82-5	Aroclor-1260	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015	23:55:00	37324-23-5	Aroclor-1262	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015	23:55:00	11100-14-4	Aroclor-1268	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	00:11:00	12674-11-2	Aroclor-1016	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	00:11:00	11104-28-2	Aroclor-1221	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	00:11:00	11141-16-5	Aroclor-1232	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	00:11:00	53469-21-9	Aroclor-1242	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	00:11:00	12672-29-6	Aroclor-1248	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	00:11:00	11097-69-1	Aroclor-1254	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	00:11:00	11096-82-5	Aroclor-1260	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	00:11:00	37324-23-5	Aroclor-1262	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	00:11:00	11100-14-4	Aroclor-1268	39	U	ug/kg	39	06/02/2015	002

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45316 SDG No. F9M36 SDG Nos. To Follow Mod. Ref No. Date Rec. 6/24/15

EPA Lab ID: DATAC

Lab Location: Salt Lake City, UT

Region: 6 Audit No.: 45316/F9M36

Re_Submitted CSF? Yes No X

Box No(s): 1

COMMENTS:

14/15. The 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: Ying-Ping Hsieh / ESAT Data Reviewer Date 7/20/15

Audited by: Date

Signature Printed Name/Title

DC-2__

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-011-004-06-51	F9M31	Soil/ START	Composite	VOA(21)	1478 (Ice) (3)	011	06/02/2015 09:50	Field Sample
WO-011-004-12-51	F9M32	Soil/ START	Composite	VOA(21)	1483 (Ice) (3)	011	06/02/2015 09:55	Field Sample
WO-011-004-24-51	F9M33	Soil/ START	Composite	VOA(21)	1488 (Ice) (3)	011	06/02/2015 10:00	Field Sample
WO-002-001-00-51	F9M34	Soil/ START	Composite	VOA(21)	1493 (Ice) (3)	011	06/02/2015 11:20	Field Sample
WO-002-001-00-52	F9M35	Soil/ START	Composite	VOA(21)	1498 (Ice) (3)	002	06/02/2015 11:25	Field Sample
WO-002-002-00-51	F9M36	Soil/ START	Composite	VOA(21)	1503 (Ice) (3)	002	06/02/2015 11:45	Field Sample
WO-002-003-00-51	F9M37	Soil/ START	Composite	VOA(21)	1508 (Ice) (3)	002	06/02/2015 13:30	Field Sample
WO-002-004-00-51	F9M38	Soil/ START	Composite	VOA(21)	1513 (Ice) (3)	002	06/02/2015 13:05	Field Sample
WO-002-004-00-52	F9M39	Soil/ START	Composite	VOA(21)	1518 (Ice) (3)	002	06/02/2015 13:10	Field Sample
WO-002-003-06-51	F9M40	Soil/ START	Composite	VOA(21)	1523 (Ice) (3)	002	06/02/2015 13:40	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
	Cherch Webster	6/2/15 2100	FedEx	6/2/15 2100	

Page 2 of 33

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	

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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
	Cherch Wester	6/2/15 2100	FedEx	6/2/15 2100	

USEPA CLP COC (REGION COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 7737370066238

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

No: 6-060215-183123-0083
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-011-004-12-51	F9M32	Soil/ START	Composite	CLP Moisture(21)	1486 (Ice) (1)	011	06/02/2015 09:55	Field Sample
WO-011-004-24-51	F9M33	Soil/ START	Composite	CLP Moisture(21)	1491 (Ice) (1)	011	06/02/2015 10:00	Field Sample
WO-002-001-00-52	F9M35	Soil/ START	Composite	CLP Moisture(21)	1501 (Ice) (1)	002	06/02/2015 11:25	Field Sample
WO-002-002-00-51	F9M36	Soil/ START	Composite	CLP Moisture(21)	1506 (Ice) (1)	002	06/02/2015 11:45	Field Sample
WO-002-003-00-51	F9M37	Soil/ START	Composite	CLP Moisture(21)	1511 (Ice) (1)	002	06/02/2015 13:30	Field Sample
WO-002-004-00-51	F9M38	Soil/ START	Composite	CLP Moisture(21)	1516 (Ice) (1)	002	06/02/2015 13:05	Field Sample
WO-002-004-00-52	F9M39	Soil/ START	Composite	CLP Moisture(21)	1521 (Ice) (1)	002	06/02/2015 13:10	Field Sample
WO-002-003-06-51	F9M40	Soil/ START	Composite	CLP Moisture(21)	1526 (Ice) (1)	002	06/02/2015 13:40	Field Sample
WO-002-003-12-51	F9M41	Soil/ START	Composite	CLP Moisture(21)	1531 (Ice) (1)	002	06/02/2015 13:45	Field Sample
WO-002-001-06-51	F9M42	Soil/ START	Composite	CLP Moisture(21)	1536 (Ice) (1)	002	06/02/2015 14:30	Field Sample

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

Analysis Key: CLP Moisture=CLP % Moisture

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

USEPA CLP COC (REGION COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737121790

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

No: 6-060215-152803-0075
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-011-002-06-51	F9M21	Soil/ START	Composite	SVOA/SVOASIM(21)	1429 (Ice) (2)	011	06/02/2015 08:15	Field Sample
WO-011-002-12-51	F9M22	Soil/ START	Composite	SVOA/SVOASIM(21)	1434 (Ice) (2)	011	06/02/2015 08:20	Field Sample
WO-011-002-24-51	F9M23	Soil/ START	Composite	SVOA/SVOASIM(21)	1439 (Ice) (2)	011	06/02/2015 08:25	Field Sample
WO-011-004-06-51	F9M31	Soil/ START	Composite	SVOA/SVOASIM(21)	1479 (Ice) (2)	011	06/02/2015 09:50	Field Sample
WO-011-004-12-51	F9M32	Soil/ START	Composite	SVOA/SVOASIM(21)	1484 (Ice) (2)	011	06/02/2015 09:55	Field Sample
WO-011-004-24-51	F9M33	Soil/ START	Composite	SVOA/SVOASIM(21)	1489 (Ice) (2)	011	06/02/2015 10:00	Field Sample
WO-002-002-00-51	F9M36	Soil/ START	Composite	SVOA/SVOASIM(21)	1504 (Ice) (2)	002	06/02/2015 11:45	Field Sample

Change to MSH

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Special Instructions: No lab QC for SVOA/SVOASIM Samples	**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
	Oberch Weston	6/2/15 2100	FedEx	6/2/15	

USEPA CLP COC (REGION COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737027052

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

No: 6-060215-175849-0081
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-011-003-06-51	F9M28	Soil/ START	Composite	SVOA/SVOASIM(21)	1464 (Ice) (2)	011	06/02/2015 09:10	Field Sample
WO-011-003-12-51	F9M29	Soil/ START	Composite	SVOA/SVOASIM(21)	1469 (Ice) (2)	011	06/02/2015 09:15	Field Sample
WO-002-003-00-51	F9M37	Soil/ START	Composite	SVOA/SVOASIM(21)	1509 (Ice) (2)	002	06/02/2015 13:30	Field Sample
WO-002-003-06-51	F9M40	Soil/ START	Composite	SVOA/SVOASIM(21)	1524 (Ice) (2)	002	06/02/2015 13:40	Field Sample
WO-002-003-12-51	F9M41	Soil/ START	Composite	SVOA/SVOASIM(21)	1529 (Ice) (2)	002	06/02/2015 13:45	Field Sample
WO-002-001-06-51	F9M42	Soil/ START	Composite	SVOA/SVOASIM(21)	1534 (Ice) (2)	002	06/02/2015 14:30	Field Sample
WO-002-001-12-51	F9M43	Soil/ START	Composite	SVOA/SVOASIM(21)	1539 (Ice) (2)	002	06/02/2015 14:35	Field Sample

Special Instructions: No Lab QC on SVOA/SVOASIM samples

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
	CBerch Western	6/2/15 2100	FedEx	6/2/15 2100	

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USEPA CLP COC (REGION COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737001074

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

No: 6-060215-185026-0084
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-011-003-24-51	F9M30	Soil/ START	Composite	SVOA/SVOASIM(21)	1474 (Ice) (2)	011	06/02/2015 09:20	Field Sample
WO-002-001-00-51	F9M34	Soil/ START	Composite	SVOA/SVOASIM(21)	1494 (Ice) (2)	011	06/02/2015 11:20	Field Sample
WO-002-002-06-51	F9M44	Soil/ START	Composite	SVOA/SVOASIM(21)	1544 (Ice) (2)	002	06/02/2015 16:30	Field Sample
WO-002-004-06-51	F9M45	Soil/ START	Composite	SVOA/SVOASIM(21)	1549 (Ice) (2)	002	06/02/2015 16:45	Field Sample

Special Instructions: No Lab QC on SVIA/SVOASIM Samples

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
	CBerch Wester	6/2/15 2100	FedEx	6/2/15 2100	

USEPA CLP COC (REGION COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737106995

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

No: 6-060215-153540-0076
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-011-002-06-51	F9M21	Soil/ START	Composite	PEST+ARO(21)	1430 (Ice) (2)	011	06/02/2015 08:15	Field Sample
WO-011-002-12-51	F9M22	Soil/ START	Composite	PEST+ARO(21)	1435 (Ice) (2)	011	06/02/2015 08:20	Field Sample
WO-011-002-24-52	F9M24	Soil/ START	Composite	PEST+ARO(21)	1445 (Ice) (2)	011	06/02/2015 08:30	Field Sample
WO-011-004-06-51	F9M31	Soil/ START	Composite	PEST+ARO(21)	1480 (Ice) (2)	011	06/02/2015 09:50	Field Sample
WO-011-004-12-51	F9M32	Soil/ START	Composite	PEST+ARO(21)	1485 (Ice) (2)	011	06/02/2015 09:55	Field Sample
WO-011-004-24-51	F9M33	Soil/ START	Composite	PEST+ARO(21)	1490 (Ice) (2)	011	06/02/2015 10:00	Field Sample
WO-002-002-00-51	F9M36	Soil/ START	Composite	PEST+ARO(21)	1505 (Ice) (4)	002	06/02/2015 11:45	Field Sample

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Sample(s) to be used for Lab QC: WO-002-002-00-51 Tag 1505	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: PEST+ARO=CLP Pest + ARO	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Cberch Weston	6/2/15 2400	FedEx	6/2/15 2400	

USEPA CLP COC (REGION COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737036285

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

No: 6-060215-175343-0080
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-011-003-06-51	F9M28	Soil/ START	Composite	PEST+ARO(21)	1465 (Ice) (2)	011	06/02/2015 09:10	Field Sample
WO-011-003-12-51	F9M29	Soil/ START	Composite	PEST+ARO(21)	1470 (Ice) (2)	011	06/02/2015 09:15	Field Sample
WO-002-003-00-51	F9M37	Soil/ START	Composite	PEST+ARO(21)	1510 (Ice) (2)	002	06/02/2015 13:30	Field Sample
WO-002-003-06-51	F9M40	Soil/ START	Composite	PEST+ARO(21)	1525 (Ice) (2)	002	06/02/2015 13:40	Field Sample
WO-002-003-12-51	F9M41	Soil/ START	Composite	PEST+ARO(21)	1530 (Ice) (2)	002	06/02/2015 13:45	Field Sample
WO-002-001-06-51	F9M42	Soil/ START	Composite	PEST+ARO(21)	1535 (Ice) (2)	002	06/02/2015 14:30	Field Sample
WO-002-001-12-51	F9M43	Soil/ START	Composite	PEST+ARO(21)	1540 (Ice) (2)	002	06/02/2015 14:35	Field Sample

Special Instructions:

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

Analysis Key: PEST+ARO=CLP Pest + ARO

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

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USEPA CLP COC (REGION COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773732640238

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

No: 6-060215-190153-0086
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-011-003-24-51	F9M30	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1475 (Ice), 1476 (Ice) (3)	011	06/02/2015 09:20	Field Sample
WO-002-001-00-51	F9M34	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1495 (Ice), 1496 (Ice) (3)	011	06/02/2015 11:20	Field Sample
WO-002-002-06-51	F9M44	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1545 (Ice), 1546 (Ice) (3)	002	06/02/2015 16:30	Field Sample
WO-002-004-06-51	F9M45	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1550 (Ice), 1551 (Ice) (3)	002	06/02/2015 16:45	Field Sample

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Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO, CLP Moisture=CLP % Moisture

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

ADDENDUM

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Blanks

Blanks	VOA_Low_Med
VLB11	The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank common contaminant concentration is less than 2x the concentration criteria Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrationshave been elevated to the CRQL.
	F9M36, F9M42, F9M43, F9M44, F9M45
	Methylene chloride F9M36, F9M42, F9M43, F9M44, F9M45
Blanks	**VOA_Low_Med**
VLB46	The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated storage blank common contaminant concentration is less than 2x the concentration criteria Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.
	F9M36, F9M42, F9M43, F9M44, F9M45
	Methylene chloride F9M36, F9M42, F9M43, F9M44, F9M45

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Blanks

Blanks	Pest
PLB16	The following pesticide samples have analyte concentrations reported less than the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrationshave been elevated to the CRQL.
	F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	Endosulfan II F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45
	delta-BHC F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	Endrin ketone F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	alpha-BHC F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	beta-BHC F9M36, F9M36MS, F9M42, F9M43, F9M44, F9M45, PLCSS1
Blanks	**Pest**
PLB29	The following pesticide samples have analyte concentrations reported less than the CRQL. The associated initial instrument blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.
	F9M36, F9M36MSD, F9M43, F9M44, F9M45, PLCSS1
	Endrin aldehyde F9M36, F9M36MSD, F9M43, F9M44, F9M45, PLCSS1
Blanks	**Pest**
PLB33	The following pesticide samples have analyte concentrations reported less than the CRQL. The associated continuing instrument blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.
	F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	Endrin aldehyde F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1
	1,4-Dioxane VSTD050S3, VSTD050S4
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M36, F9M42, F9M43, F9M44, F9M45, SBLK00, SBLK11
	Pentachlorophenol SSTD0.4DJ, SSTD0.4G1
	F9M36, F9M42, F9M43, F9M44, F9M45, SBLK00, SBLK11
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.
	F9M36, F9M43, F9M44, F9M45, SBLK11
	Pentachlorophenol SSTD0.4G1
	F9M36, F9M43, F9M44, F9M45, SBLK11

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

DMC/Surrogate

DMC/Surrogate	VOA_Low_Med
VDSS3	The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M44
	1,2-Dichloroethane-d4 F9M44
	1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2-Dibromoethane, 1,2-Dichloroethane, Carbon tetrachloride, Methyl acetate, Methyl tert-butyl ether, Methylene chloride, Trichlorofluoromethane

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

DMC/Surrogate

DMC/Surrogate	BNA
BDSS15	The following semivolatile samples have deuteratedmonitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9M36, F9M42, F9M43, F9M44, F9M45
	4-Chloroaniline-d4 F9M36, F9M42, F9M43, F9M44, F9M45
	3,3'-Dichlorobenzidine, 4-Chloroaniline, Hexachlorocyclopentadiene
	Benzo(a)pyrene-d12 F9M36
	Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene
	Pyrene-d10 F9M36
	Benzo(a)anthracene, Chrysene, Fluoranthene, Pyrene

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1
	1,2-Dichlorobenzene VBLKS2
	m,p-Xylene F9M36, F9M42, F9M44
	Toluene F9M43, F9M44
	1,2,3-Trichlorobenzene VBLKS2
	1,4-Dichlorobenzene VBLKS2
	Acetone F9M36
	1,2,4-Trichlorobenzene VBLKS2
	1,3-Dichlorobenzene VBLKS2
	Methylene chloride F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	BNA
BDL1	The following semivolatile samples have analyte concentations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M42, F9M43, F9M44, F9M45
	Di-n-butylphthalate F9M44
	Fluoranthene F9M42
	Chrysene F9M42
	Butylbenzylphthalate F9M42
	Benzo(b)fluoranthene F9M42, F9M44
	Pyrene F9M42
	Bis(2-ethylhexyl)phthalate F9M43, F9M45

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	BNA_SIM
BDL1	The following semivolatile samples have analyte concentations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M36, F9M42, F9M43, F9M44, F9M45
	Benzo(k)fluoranthene F9M44
	Fluoranthene F9M45
	Anthracene F9M36, F9M43
	Benzo(g,h,i)perylene F9M44, F9M45
	Fluorene F9M36, F9M42
	Naphthalene F9M36, F9M42, F9M43, F9M44, F9M45
	Pyrene F9M45
	Indeno(1,2,3-cd)pyrene F9M44, F9M45
	Acenaphthylene F9M36, F9M42, F9M43
	Benzo(a)anthracene F9M44, F9M45
	Chrysene F9M45
	Phenanthrene F9M44, F9M45
	Acenaphthene F9M36, F9M42, F9M43
	Benzo(b)fluoranthene F9M45
	Benzo(a)pyrene F9M44, F9M45
	2-Methylnaphthalene F9M36, F9M42, F9M43
	Pentachlorophenol F9M36, F9M43
	Dibenzo(a,h)anthracene F9M36, F9M43

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	Pest
PDL1	The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1, PLCSS1
	Endosulfan II F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1
	4,4'-DDT F9M36, F9M42, F9M44, PLCSS1
	gamma-BHC (Lindane) F9M36, F9M42, F9M43, F9M44, F9M45, PLCSS1
	Dieldrin F9M36, F9M42, F9M43, F9M44, F9M45, PLCSS1
	delta-BHC F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1, PLCSS1
	Endrin aldehyde F9M36, F9M36MS, F9M36MSD, F9M42, F9M44, F9M45
	beta-BHC F9M36, F9M36MS, F9M42, F9M43, F9M44, F9M45, PBLKS1, PLCSS1
	alpha-Chlordane PLCSS1
	4,4'-DDE F9M36, F9M36MS, F9M36MSD, F9M42, F9M44, PLCSS1
	Endosulfan sulfate F9M36, F9M36MS, F9M36MSD, PLCSS1
	gamma-Chlordane F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	Heptachlor F9M44
	4,4'-DDD F9M36, F9M42, F9M43
	Endrin ketone F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1, PLCSS1
	Methoxychlor F9M43, F9M45
	Endrin F9M43, PLCSS1
	Heptachlor epoxide F9M42, PLCSS1
	alpha-BHC F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1, PLCSS1
Detection Limit	**Pest**
PDL3	The percent difference between analyte results for the following pesticide samples is greater than 25%. Detected and nondetected compounds are not qualified.
	F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1
	Endosulfan II F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1
	4,4'-DDT F9M36, F9M44
	gamma-BHC (Lindane) F9M36, F9M42, F9M43, F9M44, F9M45
	Dieldrin F9M36, F9M42, F9M43, F9M44, F9M45

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	Pest
	delta-BHC F9M36, F9M36MS, F9M42, F9M43, F9M44, PBLKS1
	Endrin aldehyde F9M36, F9M36MS, F9M36MSD, F9M42, F9M44, F9M45
	beta-BHC F9M36MS, F9M42, F9M43, F9M44, F9M45, PBLKS1
	4,4'-DDE F9M36, F9M36MS, F9M42, F9M44
	Endosulfan sulfate F9M36, F9M36MS, F9M36MSD
	Heptachlor F9M44
	gamma-Chlordane F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45
	4,4'-DDD F9M36, F9M42, F9M43
	Endrin ketone F9M36, F9M36MS, F9M42, F9M43, F9M44, F9M45, PBLKS1
	Methoxychlor F9M43, F9M45
	Endrin F9M43
	alpha-BHC F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M45

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	Aroclor
ADL3	The relative percent difference between analyte results for the following aroclor samples is greater than 25%. Detected and nondetected compounds are not qualified.
	F9M36MS
	Aroclor-1260 F9M36MS

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Holding Times

Holding Times	BNA_SIM
BHT6	The following semivolatile soil samples are outside primary extraction holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9M42

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1
	1,4-Dioxane VSTD005SS, VSTD010SS, VSTD050SS, VSTD100SS, VSTD200SS
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1
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.
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1
	1,4-Dioxane-d8 VSTD005SS, VSTD010SS, VSTD050SS, VSTD100SS, VSTD200SS
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Matrix Spikes

Matrix Spikes	Aroclor
AMS1	The relative percent difference (RPD) between the following aroclor matrix spike and matrix spike duplicate recoveries is outside criteria. Detected compounds in parent sample are qualified J. Nondetected compounds in parent sample are not qualified.
	F9M36MS, F9M36MSD
	Aroclor-1260 F9M36MS, F9M36MSD
	Aroclor-1016 F9M36MS, F9M36MSD

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

TIC

TIC	VOA_Low_Med
VTIC1	A library search indicates a match at or above 85% for a TIC compound in the volatile sample Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	F9M45
	Cyclohexene, 4-methylene-1-(1-methylethyl)- F9M45
	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene F9M45
	D-Limonene F9M45
	Tricyclo[2.2.1.0(2,6)]heptane, 1,7,7-trimethyl- F9M45

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M36, F9M42, F9M43, F9M44, F9M45, SBLK11
	Behenic alcohol F9M45
	Ethanol, 2-(2-ethoxyethoxy)- F9M44, F9M45
	Furan, 2,5-dimethyl- SBLK11
	.beta.-Sitosterol F9M42
	13-Docosenamide, (Z)- F9M36, F9M42, F9M43, F9M44, F9M45
	D:C-Friedo-B':A'-neogammacer-9(11)-ene, 3-methox F9M42
	9-Octadecenamide, (Z)- F9M36, F9M42, F9M43, F9M44, F9M45, SBLK11
	Hexadecanamide F9M36, F9M42, F9M43, F9M44, F9M45, SBLK11
	Octacosanol F9M42
	cis-9-Hexadecenoic acid F9M44
	Tetradecanamide F9M44
	Stigmast-4-en-3-one F9M36
	n-Hexadecanoic acid F9M36, F9M42, F9M44, F9M45
	n-Tetracosanol-1 F9M44
	Oleic Acid F9M44
	2(3H)-Furanone, 5-acetyldihydro- F9M44
	1-Docosene F9M36
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.
	F9M36, F9M42, F9M43, F9M44, F9M45, SBLK11
	Unknown Butanoic acid, 3-methyl- F9M36
	Unknown Tetradecanamide F9M44
	Unknown 1-Decanol, 2-hexyl- F9M44
	Unknown 1,3-Dioxolane, 2,2-dimethyl- F9M43, F9M44, F9M45
	Unknown 4-Heptanone F9M43

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
	Unknown 9-Octadecenamide, (Z)- F9M42
	Unknown 1,6-Octadiene, 2,7-dimethyl- F9M42
	Unknown Hydroxylamine, O-(3-methylbutyl)- F9M42, F9M43, F9M44, F9M45
	Unknown trans-4'-Dimethylamino-3-nitrochalcone F9M43
	Unknown 2,6-Bis(4-nitro-phenylthio)pyridine F9M43
	Unknown Butanoic acid, anhydride F9M42
	Unknown 1H-Pyrrole-2,5-dione F9M36
	Unknown 2-Furanone, 3,4-dihydroxytetrahydro F9M42
	Unknown 1,5-Hexadiene, 2,5-dipropyl- F9M45
	Unknown Guanidine F9M45
	Unknown 2-Pentanone, 4-hydroxy-4-methyl- F9M36, F9M42, F9M43, F9M44, SBLK11
	Unknown 2H-Pyran-2-one, 6-heptyltetrahydro- F9M45
	Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro- F9M36, F9M44
	Unknown 2-Propenoic acid, 2-methyl-, ethenyl ester F9M42
	Unknown Testosterone F9M42
	Unknown 2,6-Decadienoic acid, 3-methyl-, ethyl ester, (Z SBLK11
	Unknown 2-Ethoxy-2-oxoethyl 2,2,2-trifluoroacetate F9M42
	Unknown 2,11-Dimethyl-2,11-dodecanediol F9M43
	Unknown 10-Nonadecanone F9M42
	Unknown Phthalic anhydride F9M36, F9M45
	Unknown 2(5H)-Furanone, 5,5-dimethyl- F9M44, F9M45
	Unknown 3-Hexene-2,5-dione F9M42, F9M43, SBLK11
	Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydro-5H-naph F9M43, F9M45
	Unknown Ethanone, 1-oxiranyl- F9M36
	Unknown 2(3H)-Furanone, 5-acetyldihydro- F9M42
	Unknown cis-9,10-Epoxyoctadecanamide F9M45
	Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate F9M36

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
	Unknown Acetaldehyde, O-ethyloxime- F9M36
	Unknown Fluoranthene, 2-methyl- F9M44
	Unknown 2-Pentanone, 4-hydroxy- F9M36, F9M43, F9M44, F9M45, SBLK11
	Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.3.0.0(4, F9M36
	Unknown Stigmast-4-en-3-one F9M45
	Unknown 2-Propanone, 1-chloro- F9M44

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-71-8	Dichlorodifluoromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	74-87-3	Chloromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-01-4	Vinyl chloride	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	74-83-9	Bromomethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-00-3	Chloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-69-4	Trichlorofluoromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-35-4	1,1-Dichloroethene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	67-64-1	Acetone	9.8	LJ	ug/kg	13	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-15-0	Carbon disulfide	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	79-20-9	Methyl acetate	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-09-2	Methylene chloride	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	156-60-5	trans-1,2-Dichloroethene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	1634-04-4	Methyl tert-butyl ether	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-34-3	1,1-Dichloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	156-59-2	cis-1,2-Dichloroethene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	78-93-3	2-Butanone	13	U	ug/kg	13	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	74-97-5	Bromochloromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	67-66-3	Chloroform	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	71-55-6	1,1,1-Trichloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	110-82-7	Cyclohexane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	56-23-5	Carbon tetrachloride	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	71-43-2	Benzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	107-06-2	1,2-Dichloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	123-91-1	1,4-Dioxane	130	U	ug/kg	130	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	79-01-6	Trichloroethene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	108-87-2	Methylcyclohexane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	78-87-5	1,2-Dichloropropane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-27-4	Bromodichloromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	10061-01-5	cis-1,3-Dichloropropene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	108-10-1	4-Methyl-2-Pentanone	13	U	ug/kg	13	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	108-88-3	Toluene	16		ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	10061-02-6	trans-1,3-Dichloropropene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	79-00-5	1,1,2-Trichloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	127-18-4	Tetrachloroethene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	591-78-6	2-Hexanone	13	U	ug/kg	13	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	124-48-1	Dibromochloromethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	106-93-4	1,2-Dibromoethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	108-90-7	Chlorobenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	100-41-4	Ethylbenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	95-47-6	o-Xylene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	179601-23-1	m,p-Xylene	0.33	LJ	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	100-42-5	Styrene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	75-25-2	Bromoform	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	98-82-8	Isopropylbenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	79-34-5	1,1,2,2-Tetrachloroethane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	541-73-1	1,3-Dichlorobenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015	01:24:00	106-46-7	1,4-Dichlorobenzene	6.6	U	ug/kg	6.6	06/02/2015	002

45316	F9M36	F9M36	1515552001	S	06/10/2015 01:24:00	95-50-1	1,2-Dichlorobenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015 01:24:00	96-12-8	1,2-Dibromo-3-chloropropane	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015 01:24:00	120-82-1	1,2,4-Trichlorobenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/10/2015 01:24:00	87-61-6	1,2,3-Trichlorobenzene	6.6	U	ug/kg	6.6	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-71-8	Dichlorodifluoromethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	74-87-3	Chloromethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-01-4	Vinyl chloride	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	74-83-9	Bromomethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-00-3	Chloroethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-69-4	Trichlorofluoromethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-35-4	1,1-Dichloroethene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	67-64-1	Acetone	39		ug/kg	11	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-15-0	Carbon disulfide	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	79-20-9	Methyl acetate	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-09-2	Methylene chloride	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	156-60-5	trans-1,2-Dichloroethene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	1634-04-4	Methyl tert-butyl ether	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-34-3	1,1-Dichloroethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	156-59-2	cis-1,2-Dichloroethene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	78-93-3	2-Butanone	13		ug/kg	11	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	74-97-5	Bromochloromethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	67-66-3	Chloroform	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	71-55-6	1,1,1-Trichloroethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	110-82-7	Cyclohexane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	56-23-5	Carbon tetrachloride	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	71-43-2	Benzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	107-06-2	1,2-Dichloroethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	123-91-1	1,4-Dioxane	110	U	ug/kg	110	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	79-01-6	Trichloroethene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	108-87-2	Methylcyclohexane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	78-87-5	1,2-Dichloropropane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-27-4	Bromodichloromethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	10061-01-5	cis-1,3-Dichloropropene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	108-10-1	4-Methyl-2-Pentanone	11	U	ug/kg	11	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	108-88-3	Toluene	6.1		ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	10061-02-6	trans-1,3-Dichloropropene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	79-00-5	1,1,2-Trichloroethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	127-18-4	Tetrachloroethene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	591-78-6	2-Hexanone	11	U	ug/kg	11	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	124-48-1	Dibromochloromethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	106-93-4	1,2-Dibromoethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	108-90-7	Chlorobenzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	100-41-4	Ethylbenzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	95-47-6	o-Xylene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	179601-23-1	m,p-Xylene	0.24	LJ	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	100-42-5	Styrene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	75-25-2	Bromoform	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015 21:20:00	98-82-8	Isopropylbenzene	5.5	U	ug/kg	5.5	06/02/2015	002

45316	F9M36	F9M42	1515552004	S	06/09/2015	21:20:00	79-34-5	1,1,2,2-Tetrachloroethane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015	21:20:00	541-73-1	1,3-Dichlorobenzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015	21:20:00	106-46-7	1,4-Dichlorobenzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015	21:20:00	95-50-1	1,2-Dichlorobenzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015	21:20:00	96-12-8	1,2-Dibromo-3-chloropropane	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015	21:20:00	120-82-1	1,2,4-Trichlorobenzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/09/2015	21:20:00	87-61-6	1,2,3-Trichlorobenzene	5.5	U	ug/kg	5.5	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	75-71-8	Dichlorodifluoromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	74-87-3	Chloromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	75-01-4	Vinyl chloride	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	74-83-9	Bromomethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	75-00-3	Chloroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	75-69-4	Trichlorofluoromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	75-35-4	1,1-Dichloroethene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	67-64-1	Acetone	19		ug/kg	11	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	75-15-0	Carbon disulfide	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	79-20-9	Methyl acetate	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	75-09-2	Methylene chloride	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	156-60-5	trans-1,2-Dichloroethene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	1634-04-4	Methyl tert-butyl ether	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	75-34-3	1,1-Dichloroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	156-59-2	cis-1,2-Dichloroethene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	78-93-3	2-Butanone	11	U	ug/kg	11	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	74-97-5	Bromochloromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	67-66-3	Chloroform	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	71-55-6	1,1,1-Trichloroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	110-82-7	Cyclohexane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	56-23-5	Carbon tetrachloride	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	71-43-2	Benzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	107-06-2	1,2-Dichloroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	123-91-1	1,4-Dioxane	110	U	ug/kg	110	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	79-01-6	Trichloroethene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	108-87-2	Methylcyclohexane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	78-87-5	1,2-Dichloropropane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	75-27-4	Bromodichloromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	10061-01-5	cis-1,3-Dichloropropene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	108-10-1	4-Methyl-2-Pentanone	11	U	ug/kg	11	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	108-88-3	Toluene	1.5	LJ	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	10061-02-6	trans-1,3-Dichloropropene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	79-00-5	1,1,2-Trichloroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	127-18-4	Tetrachloroethene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	591-78-6	2-Hexanone	11	U	ug/kg	11	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	124-48-1	Dibromochloromethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	106-93-4	1,2-Dibromoethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	108-90-7	Chlorobenzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	100-41-4	Ethylbenzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	95-47-6	o-Xylene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015	21:51:00	179601-23-1	m,p-Xylene	5.4	U	ug/kg	5.4	06/02/2015	002

45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	100-42-5	Styrene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	75-25-2	Bromoform	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	98-82-8	Isopropylbenzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	79-34-5	1,1,2,2-Tetrachloroethane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	541-73-1	1,3-Dichlorobenzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	106-46-7	1,4-Dichlorobenzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	95-50-1	1,2-Dichlorobenzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	96-12-8	1,2-Dibromo-3-chloropropane	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	120-82-1	1,2,4-Trichlorobenzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/09/2015 21:51:00	87-61-6	1,2,3-Trichlorobenzene	5.4	U	ug/kg	5.4	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	74-87-3	Chloromethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	75-01-4	Vinyl chloride	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	74-83-9	Bromomethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	75-00-3	Chloroethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	67-64-1	Acetone	29		ug/kg	9.9	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	75-15-0	Carbon disulfide	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	79-20-9	Methyl acetate	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	75-09-2	Methylene chloride	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	78-93-3	2-Butanone	13		ug/kg	9.9	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	74-97-5	Bromochloromethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	67-66-3	Chloroform	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	110-82-7	Cyclohexane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	56-23-5	Carbon tetrachloride	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	71-43-2	Benzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	123-91-1	1,4-Dioxane	99	U	ug/kg	99	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	79-01-6	Trichloroethene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	108-87-2	Methylcyclohexane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	75-27-4	Bromodichloromethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	108-10-1	4-Methyl-2-Pentanone	9.9	U	ug/kg	9.9	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	108-88-3	Toluene	4.9	LJ	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	127-18-4	Tetrachloroethene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	591-78-6	2-Hexanone	9.9	U	ug/kg	9.9	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	124-48-1	Dibromochloromethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015 01:55:00	108-90-7	Chlorobenzene	5.0	U	ug/kg	5.0	06/02/2015	002

45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	100-41-4	Ethylbenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	95-47-6	o-Xylene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	179601-23-1	m,p-Xylene	0.20	LJ	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	100-42-5	Styrene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	75-25-2	Bromoform	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	98-82-8	Isopropylbenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/10/2015	01:55:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/kg	5.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-71-8	Dichlorodifluoromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	74-87-3	Chloromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-01-4	Vinyl chloride	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	74-83-9	Bromomethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-00-3	Chloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-69-4	Trichlorofluoromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-35-4	1,1-Dichloroethene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	67-64-1	Acetone	14		ug/kg	11	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-15-0	Carbon disulfide	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	79-20-9	Methyl acetate	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-09-2	Methylene chloride	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	156-60-5	trans-1,2-Dichloroethene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	1634-04-4	Methyl tert-butyl ether	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-34-3	1,1-Dichloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	156-59-2	cis-1,2-Dichloroethene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	78-93-3	2-Butanone	19		ug/kg	11	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	74-97-5	Bromochloromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	67-66-3	Chloroform	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	71-55-6	1,1,1-Trichloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	110-82-7	Cyclohexane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	56-23-5	Carbon tetrachloride	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	71-43-2	Benzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	107-06-2	1,2-Dichloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	123-91-1	1,4-Dioxane	110	U	ug/kg	110	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	79-01-6	Trichloroethene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	108-87-2	Methylcyclohexane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	78-87-5	1,2-Dichloropropane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	75-27-4	Bromodichloromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	10061-01-5	cis-1,3-Dichloropropene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	108-10-1	4-Methyl-2-Pentanone	11	U	ug/kg	11	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	108-88-3	Toluene	9.5		ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	10061-02-6	trans-1,3-Dichloropropene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	79-00-5	1,1,2-Trichloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	127-18-4	Tetrachloroethene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015	22:51:00	591-78-6	2-Hexanone	11	U	ug/kg	11	06/02/2015	002

45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	124-48-1	Dibromochloromethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	106-93-4	1,2-Dibromoethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	108-90-7	Chlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	100-41-4	Ethylbenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	95-47-6	o-Xylene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	179601-23-1	m,p-Xylene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	100-42-5	Styrene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	75-25-2	Bromoform	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	98-82-8	Isopropylbenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	79-34-5	1,1,2,2-Tetrachloroethane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	541-73-1	1,3-Dichlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	106-46-7	1,4-Dichlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	95-50-1	1,2-Dichlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	96-12-8	1,2-Dibromo-3-chloropropane	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	120-82-1	1,2,4-Trichlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/09/2015 22:51:00	87-61-6	1,2,3-Trichlorobenzene	5.3	U	ug/kg	5.3	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	100-52-7	Benzaldehyde	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	108-95-2	Phenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	111-44-4	Bis(2-chloroethyl)ether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	95-57-8	2-Chlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	95-48-7	2-Methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	98-86-2	Acetophenone	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	106-44-5	4-Methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	621-64-7	N-Nitroso-di-n-propylamine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	67-72-1	Hexachloroethane	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	98-95-3	Nitrobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	78-59-1	Isophorone	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	88-75-5	2-Nitrophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	105-67-9	2,4-Dimethylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	120-83-2	2,4-Dichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	91-20-3	Naphthalene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	106-47-8	4-Chloroaniline	210	UR	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	87-68-3	Hexachlorobutadiene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	105-60-2	Caprolactam	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	91-57-6	2-Methylnaphthalene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	77-47-4	Hexachlorocyclopentadiene	210	UR	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	92-52-4	1,1'-Biphenyl	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	91-58-7	2-Chloronaphthalene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	88-74-4	2-Nitroaniline	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	131-11-3	Dimethylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	606-20-2	2,6-Dinitrotoluene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	208-96-8	Acenaphthylene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	99-09-2	3-Nitroaniline	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	83-32-9	Acenaphthene	210	U *	ug/kg	210	06/02/2015	002

45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	51-28-5	2,4-Dinitrophenol	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	100-02-7	4-Nitrophenol	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	132-64-9	Dibenzofuran	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	121-14-2	2,4-Dinitrotoluene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	84-66-2	Diethylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	86-73-7	Fluorene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	7005-72-3	4-Chlorophenyl-phenylether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	100-01-6	4-Nitroaniline	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	534-52-1	4,6-Dinitro-2-methylphenol	420	U	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	86-30-6	N-Nitrosodiphenylamine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	101-55-3	4-Bromophenyl-phenylether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	118-74-1	Hexachlorobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	1912-24-9	Atrazine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	87-86-5	Pentachlorophenol	420	U *	ug/kg	420	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	85-01-8	Phenanthrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	120-12-7	Anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	86-74-8	Carbazole	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	84-74-2	Di-n-butylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	206-44-0	Fluoranthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	129-00-0	Pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	85-68-7	Butylbenzylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	91-94-1	3,3'-Dichlorobenzidine	210	UR	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	56-55-3	Benzo(a)anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	218-01-9	Chrysene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	117-81-7	Bis(2-ethylhexyl)phthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	117-84-0	Di-n-octylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	205-99-2	Benzo(b)fluoranthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	207-08-9	Benzo(k)fluoranthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	50-32-8	Benzo(a)pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	53-70-3	Dibenzo(a,h)anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	191-24-2	Benzo(g,h,i)perylene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/17/2015 13:41:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	91-20-3	Naphthalene	2.6	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	91-57-6	2-Methylnaphthalene	2.5	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	208-96-8	Acenaphthylene	2.5	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	83-32-9	Acenaphthene	1.7	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	86-73-7	Fluorene	1.3	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	87-86-5	Pentachlorophenol	4.8	LJ	ug/kg	8.4	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	85-01-8	Phenanthrene	13		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	120-12-7	Anthracene	3.6	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	206-44-0	Fluoranthene	20		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	129-00-0	Pyrene	20		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	56-55-3	Benzo(a)anthracene	14		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	218-01-9	Chrysene	19		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	205-99-2	Benzo(b)fluoranthene	21		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	207-08-9	Benzo(k)fluoranthene	6.2		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	50-32-8	Benzo(a)pyrene	11		ug/kg	4.2	06/02/2015	002

45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	193-39-5	Indeno(1,2,3-cd)pyrene	12		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	53-70-3	Dibenzo(a,h)anthracene	2.9	LJ	ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M36(SIM)	1515552001	S	06/18/2015 14:09:00	191-24-2	Benzo(g,h,i)perylene	9.0		ug/kg	4.2	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	108-95-2	Phenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	98-86-2	Acetophenone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	78-59-1	Isophorone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	91-20-3	Naphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	106-47-8	4-Chloroaniline	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	105-60-2	Caprolactam	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	91-57-6	2-Methylnaphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	77-47-4	Hexachlorocyclopentadiene	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	88-74-4	2-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	208-96-8	Acenaphthylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	99-09-2	3-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	83-32-9	Acenaphthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	51-28-5	2,4-Dinitrophenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	100-02-7	4-Nitrophenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	86-73-7	Fluorene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	100-01-6	4-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	534-52-1	4,6-Dinitro-2-methylphenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015 20:45:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	06/02/2015	002

45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	1912-24-9	Atrazine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	87-86-5	Pentachlorophenol	390	U *	ug/kg	390	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	85-01-8	Phenanthrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	120-12-7	Anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	86-74-8	Carbazole	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	206-44-0	Fluoranthene	19	*	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	129-00-0	Pyrene	19	*	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	85-68-7	Butylbenzylphthalate	93	LJ	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	91-94-1	3,3'-Dichlorobenzidine	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	56-55-3	Benzo(a)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	218-01-9	Chrysene	18	*	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	117-81-7	Bis(2-ethylhexyl)phthalate	200		ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	205-99-2	Benzo(b)fluoranthene	23	*	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	207-08-9	Benzo(k)fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	50-32-8	Benzo(a)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	53-70-3	Dibenzo(a,h)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	191-24-2	Benzo(g,h,i)perylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/16/2015	20:45:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	91-20-3	Naphthalene	0.97	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	91-57-6	2-Methylnaphthalene	1.4	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	208-96-8	Acenaphthylene	3.9	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	83-32-9	Acenaphthene	1.2	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	86-73-7	Fluorene	1.2	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	87-86-5	Pentachlorophenol	8.0	UJ	ug/kg	8.0	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	85-01-8	Phenanthrene	11	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	120-12-7	Anthracene	4.5	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	206-44-0	Fluoranthene	22	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	129-00-0	Pyrene	24	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	56-55-3	Benzo(a)anthracene	21	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	218-01-9	Chrysene	25	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	205-99-2	Benzo(b)fluoranthene	30	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	207-08-9	Benzo(k)fluoranthene	10	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	50-32-8	Benzo(a)pyrene	22	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	193-39-5	Indeno(1,2,3-cd)pyrene	18	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	53-70-3	Dibenzo(a,h)anthracene	4.0	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42(SIM)	1515552004	S	06/20/2015	13:18:00	191-24-2	Benzo(g,h,i)perylene	14	J	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	108-95-2	Phenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	98-86-2	Acetophenone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015	21:17:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	06/02/2015	002

45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	78-59-1	Isophorone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	91-20-3	Naphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	106-47-8	4-Chloroaniline	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	105-60-2	Caprolactam	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	91-57-6	2-Methylnaphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	77-47-4	Hexachlorocyclopentadiene	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	208-96-8	Acenaphthylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	83-32-9	Acenaphthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	86-73-7	Fluorene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	1912-24-9	Atrazine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	87-86-5	Pentachlorophenol	380	U *	ug/kg	380	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	85-01-8	Phenanthrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	120-12-7	Anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	86-74-8	Carbazole	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	206-44-0	Fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	129-00-0	Pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	91-94-1	3,3'-Dichlorobenzidine	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	56-55-3	Benzo(a)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	218-01-9	Chrysene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	117-81-7	Bis(2-ethylhexyl)phthalate	130	LJ	ug/kg	200	06/02/2015	002

45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	205-99-2	Benzo(b)fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	207-08-9	Benzo(k)fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	50-32-8	Benzo(a)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	53-70-3	Dibenzo(a,h)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	191-24-2	Benzo(g,h,i)perylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/16/2015 21:17:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	91-20-3	Naphthalene	1.9	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	91-57-6	2-Methylnaphthalene	3.7	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	208-96-8	Acenaphthylene	2.2	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	83-32-9	Acenaphthene	0.80	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	86-73-7	Fluorene	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	87-86-5	Pentachlorophenol	1.9	LJ	ug/kg	7.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	85-01-8	Phenanthrene	5.7		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	120-12-7	Anthracene	2.5	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	206-44-0	Fluoranthene	12		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	129-00-0	Pyrene	12		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	56-55-3	Benzo(a)anthracene	8.6		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	218-01-9	Chrysene	12		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	205-99-2	Benzo(b)fluoranthene	15		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	207-08-9	Benzo(k)fluoranthene	4.6		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	50-32-8	Benzo(a)pyrene	7.5		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	193-39-5	Indeno(1,2,3-cd)pyrene	8.8		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	53-70-3	Dibenzo(a,h)anthracene	2.0	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43(SIM)	1515552005	S	06/18/2015 15:10:00	191-24-2	Benzo(g,h,i)perylene	5.8		ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	100-52-7	Benzaldehyde	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	108-95-2	Phenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	111-44-4	Bis(2-chloroethyl)ether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	95-57-8	2-Chlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	95-48-7	2-Methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	98-86-2	Acetophenone	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	106-44-5	4-Methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	621-64-7	N-Nitroso-di-n-propylamine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	67-72-1	Hexachloroethane	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	98-95-3	Nitrobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	78-59-1	Isophorone	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	88-75-5	2-Nitrophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	105-67-9	2,4-Dimethylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	120-83-2	2,4-Dichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	91-20-3	Naphthalene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	106-47-8	4-Chloroaniline	210	UR	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	87-68-3	Hexachlorobutadiene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	105-60-2	Caprolactam	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	91-57-6	2-Methylnaphthalene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	77-47-4	Hexachlorocyclopentadiene	210	UR	ug/kg	210	06/02/2015	002

45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	92-52-4	1,1'-Biphenyl	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	91-58-7	2-Chloronaphthalene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	88-74-4	2-Nitroaniline	400	U	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	131-11-3	Dimethylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	606-20-2	2,6-Dinitrotoluene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	208-96-8	Acenaphthylene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	99-09-2	3-Nitroaniline	400	U	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	83-32-9	Acenaphthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	51-28-5	2,4-Dinitrophenol	400	U	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	100-02-7	4-Nitrophenol	400	U	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	132-64-9	Dibenzofuran	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	121-14-2	2,4-Dinitrotoluene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	84-66-2	Diethylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	86-73-7	Fluorene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	7005-72-3	4-Chlorophenyl-phenylether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	100-01-6	4-Nitroaniline	400	U	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	534-52-1	4,6-Dinitro-2-methylphenol	400	U	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	86-30-6	N-Nitrosodiphenylamine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	101-55-3	4-Bromophenyl-phenylether	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	118-74-1	Hexachlorobenzene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	1912-24-9	Atrazine	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	87-86-5	Pentachlorophenol	400	U *	ug/kg	400	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	85-01-8	Phenanthrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	120-12-7	Anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	86-74-8	Carbazole	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	84-74-2	Di-n-butylphthalate	25	LJ	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	206-44-0	Fluoranthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	129-00-0	Pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	85-68-7	Butylbenzylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	91-94-1	3,3'-Dichlorobenzidine	210	UR	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	56-55-3	Benzo(a)anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	218-01-9	Chrysene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	117-81-7	Bis(2-ethylhexyl)phthalate	310		ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	117-84-0	Di-n-octylphthalate	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	205-99-2	Benzo(b)fluoranthene	20	*	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	207-08-9	Benzo(k)fluoranthene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	50-32-8	Benzo(a)pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	53-70-3	Dibenzo(a,h)anthracene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	191-24-2	Benzo(g,h,i)perylene	210	U *	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/16/2015 21:50:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015 15:40:00	91-20-3	Naphthalene	0.86	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015 15:40:00	91-57-6	2-Methylnaphthalene	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015 15:40:00	208-96-8	Acenaphthylene	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015 15:40:00	83-32-9	Acenaphthene	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015 15:40:00	86-73-7	Fluorene	4.0	U	ug/kg	4.0	06/02/2015	002

45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	87-86-5	Pentachlorophenol	8.2	UJv	ug/kg	8.2	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	85-01-8	Phenanthrene	3.2	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	120-12-7	Anthracene	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	206-44-0	Fluoranthene	5.4		ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	129-00-0	Pyrene	5.7		ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	56-55-3	Benzo(a)anthracene	3.0	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	218-01-9	Chrysene	5.7		ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	205-99-2	Benzo(b)fluoranthene	5.5		ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	207-08-9	Benzo(k)fluoranthene	1.4	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	50-32-8	Benzo(a)pyrene	2.6	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.2	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	53-70-3	Dibenzo(a,h)anthracene	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44(SIM)	1515552006	S	06/18/2015	15:40:00	191-24-2	Benzo(g,h,i)perylene	2.0	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	108-95-2	Phenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	98-86-2	Acetophenone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	78-59-1	Isophorone	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	91-20-3	Naphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	106-47-8	4-Chloroaniline	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	105-60-2	Caprolactam	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	91-57-6	2-Methylnaphthalene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	77-47-4	Hexachlorocyclopentadiene	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	88-74-4	2-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	208-96-8	Acenaphthylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	99-09-2	3-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	83-32-9	Acenaphthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	51-28-5	2,4-Dinitrophenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	100-02-7	4-Nitrophenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015	22:22:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	06/02/2015	002

45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	86-73-7	Fluorene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	100-01-6	4-Nitroaniline	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	534-52-1	4,6-Dinitro-2-methylphenol	390	U	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	1912-24-9	Atrazine	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	87-86-5	Pentachlorophenol	390	U *	ug/kg	390	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	85-01-8	Phenanthrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	120-12-7	Anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	86-74-8	Carbazole	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	206-44-0	Fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	129-00-0	Pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	91-94-1	3,3'-Dichlorobenzidine	200	UR	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	56-55-3	Benzo(a)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	218-01-9	Chrysene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	LJ	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	205-99-2	Benzo(b)fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	207-08-9	Benzo(k)fluoranthene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	50-32-8	Benzo(a)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	53-70-3	Dibenzo(a,h)anthracene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	191-24-2	Benzo(g,h,i)perylene	200	U *	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 22:22:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	91-20-3	Naphthalene	0.79	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	91-57-6	2-Methylnaphthalene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	208-96-8	Acenaphthylene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	83-32-9	Acenaphthene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	86-73-7	Fluorene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	87-86-5	Pentachlorophenol	7.9	UJv	ug/kg	7.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	85-01-8	Phenanthrene	2.7	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	120-12-7	Anthracene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	206-44-0	Fluoranthene	1.5	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	129-00-0	Pyrene	2.9	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	56-55-3	Benzo(a)anthracene	1.7	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	218-01-9	Chrysene	3.8	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	205-99-2	Benzo(b)fluoranthene	2.0	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	207-08-9	Benzo(k)fluoranthene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	50-32-8	Benzo(a)pyrene	1.2	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	193-39-5	Indeno(1,2,3-cd)pyrene	1.1	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	53-70-3	Dibenzo(a,h)anthracene	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45(SIM)	1515552007	S	06/18/2015 16:11:00	191-24-2	Benzo(g,h,i)perylene	1.1	LJ	ug/kg	3.9	06/02/2015	002

45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	319-84-6	alpha-BHC	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	319-85-7	beta-BHC	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	319-86-8	delta-BHC	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	58-89-9	gamma-BHC (Lindane)	0.22	LJ	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	76-44-8	Heptachlor	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	309-00-2	Aldrin	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	1024-57-3	Heptachlor epoxide	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	959-98-8	Endosulfan I	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	60-57-1	Dieldrin	0.27	LJ	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	72-55-9	4,4'-DDE	0.24	LJ	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	72-20-8	Endrin	4.1	U	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	33213-65-9	Endosulfan II	4.1	U	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	72-54-8	4,4'-DDD	0.067	LJ	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	1031-07-8	Endosulfan sulfate	0.31	LJ	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	50-29-3	4,4'-DDT	0.75	LJ	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	72-43-5	Methoxychlor	21	U	ug/kg	21	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	53494-70-5	Endrin ketone	4.1	U	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	7421-93-4	Endrin aldehyde	4.1	U	ug/kg	4.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	5103-71-9	alpha-Chlordane	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	5103-74-2	gamma-Chlordane	0.20	LJ	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/20/2015 01:54:00	8001-35-2	Toxaphene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	319-84-6	alpha-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	319-85-7	beta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	319-86-8	delta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	58-89-9	gamma-BHC (Lindane)	0.096	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	76-44-8	Heptachlor	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	309-00-2	Aldrin	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	1024-57-3	Heptachlor epoxide	0.60	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	959-98-8	Endosulfan I	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	60-57-1	Dieldrin	0.39	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	72-55-9	4,4'-DDE	0.62	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	72-20-8	Endrin	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	33213-65-9	Endosulfan II	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	72-54-8	4,4'-DDD	0.73	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	1031-07-8	Endosulfan sulfate	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	50-29-3	4,4'-DDT	0.46	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	72-43-5	Methoxychlor	20	U	ug/kg	20	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	53494-70-5	Endrin ketone	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	7421-93-4	Endrin aldehyde	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	5103-71-9	alpha-Chlordane	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	5103-74-2	gamma-Chlordane	0.41	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/20/2015 02:56:00	8001-35-2	Toxaphene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	319-84-6	alpha-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	319-85-7	beta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	319-86-8	delta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	58-89-9	gamma-BHC (Lindane)	0.19	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	76-44-8	Heptachlor	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	309-00-2	Aldrin	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	1024-57-3	Heptachlor epoxide	2.0	U	ug/kg	2.0	06/02/2015	002

45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	959-98-8	Endosulfan I	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	60-57-1	Dieldrin	0.27	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	72-55-9	4,4'-DDE	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	72-20-8	Endrin	0.81	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	33213-65-9	Endosulfan II	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	72-54-8	4,4'-DDD	0.25	LJ	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	1031-07-8	Endosulfan sulfate	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	50-29-3	4,4'-DDT	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	72-43-5	Methoxychlor	1.4	LJ	ug/kg	20	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	53494-70-5	Endrin ketone	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	7421-93-4	Endrin aldehyde	3.8	U	ug/kg	3.8	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	5103-71-9	alpha-Chlordane	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	5103-74-2	gamma-Chlordane	0.22	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/20/2015 03:17:00	8001-35-2	Toxaphene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	319-84-6	alpha-BHC	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	319-85-7	beta-BHC	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	319-86-8	delta-BHC	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	58-89-9	gamma-BHC (Lindane)	0.34	LJ	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	76-44-8	Heptachlor	0.25	LJ	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	309-00-2	Aldrin	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	1024-57-3	Heptachlor epoxide	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	959-98-8	Endosulfan I	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	60-57-1	Dieldrin	0.39	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	72-55-9	4,4'-DDE	0.14	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	72-20-8	Endrin	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	33213-65-9	Endosulfan II	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	72-54-8	4,4'-DDD	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	1031-07-8	Endosulfan sulfate	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	50-29-3	4,4'-DDT	0.44	LJ	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	72-43-5	Methoxychlor	21	U	ug/kg	21	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	53494-70-5	Endrin ketone	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	7421-93-4	Endrin aldehyde	4.0	U	ug/kg	4.0	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	5103-71-9	alpha-Chlordane	2.1	U	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	5103-74-2	gamma-Chlordane	0.19	LJ	ug/kg	2.1	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/20/2015 03:38:00	8001-35-2	Toxaphene	210	U	ug/kg	210	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	319-84-6	alpha-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	319-85-7	beta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	319-86-8	delta-BHC	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	58-89-9	gamma-BHC (Lindane)	0.15	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	76-44-8	Heptachlor	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	309-00-2	Aldrin	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	1024-57-3	Heptachlor epoxide	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	959-98-8	Endosulfan I	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	60-57-1	Dieldrin	0.19	LJ	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	72-55-9	4,4'-DDE	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	72-20-8	Endrin	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	33213-65-9	Endosulfan II	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	72-54-8	4,4'-DDD	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	1031-07-8	Endosulfan sulfate	3.9	U	ug/kg	3.9	06/02/2015	002

45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	50-29-3	4,4'-DDT	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	72-43-5	Methoxychlor	1.3	LJ	ug/kg	20	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	53494-70-5	Endrin ketone	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	7421-93-4	Endrin aldehyde	3.9	U	ug/kg	3.9	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	5103-71-9	alpha-Chlordane	2.0	U	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	5103-74-2	gamma-Chlordane	0.19	LJ	ug/kg	2.0	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/20/2015 03:59:00	8001-35-2	Toxaphene	200	U	ug/kg	200	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	12674-11-2	Aroclor-1016	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	11104-28-2	Aroclor-1221	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	11141-16-5	Aroclor-1232	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	53469-21-9	Aroclor-1242	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	12672-29-6	Aroclor-1248	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	11097-69-1	Aroclor-1254	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	11096-82-5	Aroclor-1260	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	37324-23-5	Aroclor-1262	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M36	1515552001	S	06/15/2015 22:34:00	11100-14-4	Aroclor-1268	41	U	ug/kg	41	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015 23:22:00	12674-11-2	Aroclor-1016	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015 23:22:00	11104-28-2	Aroclor-1221	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015 23:22:00	11141-16-5	Aroclor-1232	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015 23:22:00	53469-21-9	Aroclor-1242	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015 23:22:00	12672-29-6	Aroclor-1248	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015 23:22:00	11097-69-1	Aroclor-1254	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015 23:22:00	11096-82-5	Aroclor-1260	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015 23:22:00	37324-23-5	Aroclor-1262	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M42	1515552004	S	06/15/2015 23:22:00	11100-14-4	Aroclor-1268	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015 23:38:00	12674-11-2	Aroclor-1016	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015 23:38:00	11104-28-2	Aroclor-1221	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015 23:38:00	11141-16-5	Aroclor-1232	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015 23:38:00	53469-21-9	Aroclor-1242	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015 23:38:00	12672-29-6	Aroclor-1248	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015 23:38:00	11097-69-1	Aroclor-1254	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015 23:38:00	11096-82-5	Aroclor-1260	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015 23:38:00	37324-23-5	Aroclor-1262	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M43	1515552005	S	06/15/2015 23:38:00	11100-14-4	Aroclor-1268	38	U	ug/kg	38	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015 23:55:00	12674-11-2	Aroclor-1016	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015 23:55:00	11104-28-2	Aroclor-1221	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015 23:55:00	11141-16-5	Aroclor-1232	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015 23:55:00	53469-21-9	Aroclor-1242	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015 23:55:00	12672-29-6	Aroclor-1248	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015 23:55:00	11097-69-1	Aroclor-1254	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015 23:55:00	11096-82-5	Aroclor-1260	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015 23:55:00	37324-23-5	Aroclor-1262	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M44	1515552006	S	06/15/2015 23:55:00	11100-14-4	Aroclor-1268	40	U	ug/kg	40	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 00:11:00	12674-11-2	Aroclor-1016	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 00:11:00	11104-28-2	Aroclor-1221	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 00:11:00	11141-16-5	Aroclor-1232	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 00:11:00	53469-21-9	Aroclor-1242	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 00:11:00	12672-29-6	Aroclor-1248	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 00:11:00	11097-69-1	Aroclor-1254	39	U	ug/kg	39	06/02/2015	002

45316	F9M36	F9M45	1515552007	S	06/16/2015 00:11:00	11096-82-5	Aroclor-1260	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 00:11:00	37324-23-5	Aroclor-1262	39	U	ug/kg	39	06/02/2015	002
45316	F9M36	F9M45	1515552007	S	06/16/2015 00:11:00	11100-14-4	Aroclor-1268	39	U	ug/kg	39	06/02/2015	002

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Blanks

Blanks	**VOA_Low_Med**
VLB11	The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank common contaminant concentration is less than 2x the concentration criteria Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrationshave been elevated to the CRQL.
	F9M36, F9M42, F9M43, F9M44, F9M45
	Methylene chloride F9M36, F9M42, F9M43, F9M44, F9M45
Blanks	**VOA_Low_Med**
VLB46	The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated storage blank common contaminant concentration is less than 2x the concentration criteria Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.
	F9M36, F9M42, F9M43, F9M44, F9M45
	Methylene chloride F9M36, F9M42, F9M43, F9M44, F9M45

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Blanks

Blanks	**Pest**
PLB16	The following pesticide samples have analyte concentrations reported less than the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrationshave been elevated to the CRQL.
	F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	Endosulfan II F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45
	delta-BHC F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	Endrin ketone F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	alpha-BHC F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	beta-BHC F9M36, F9M36MS, F9M42, F9M43, F9M44, F9M45, PLCSS1
Blanks	**Pest**
PLB29	The following pesticide samples have analyte concentrations reported less than the CRQL. The associated initial instrument blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.
	F9M36, F9M36MSD, F9M43, F9M44, F9M45, PLCSS1
	Endrin aldehyde F9M36, F9M36MSD, F9M43, F9M44, F9M45, PLCSS1
Blanks	**Pest**
PLB33	The following pesticide samples have analyte concentrations reported less than the CRQL. The associated continuing instrument blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.
	F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	Endrin aldehyde F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1
	1,4-Dioxane VSTD050S3, VSTD050S4
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M36, F9M42, F9M43, F9M44, F9M45, SBLK00, SBLK11
	Pentachlorophenol SSTD0.4DJ, SSTD0.4G1
	F9M36, F9M42, F9M43, F9M44, F9M45, SBLK00, SBLK11
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.
	F9M36, F9M43, F9M44, F9M45, SBLK11
	Pentachlorophenol SSTD0.4G1
	F9M36, F9M43, F9M44, F9M45, SBLK11

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

DMC/Surrogate

DMC/Surrogate	VOA_Low_Med
VDSS3	The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M44
	1,2-Dichloroethane-d4 F9M44
	1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2-Dibromoethane, 1,2-Dichloroethane, Carbon tetrachloride, Methyl acetate, Methyl tert-butyl ether, Methylene chloride, Trichlorofluoromethane

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

DMC/Surrogate

DMC/Surrogate	BNA
BDSS15	The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9M36, F9M42, F9M43, F9M44, F9M45
	4-Chloroaniline-d4 F9M36, F9M42, F9M43, F9M44, F9M45
	3,3'-Dichlorobenzidine, 4-Chloroaniline, Hexachlorocyclopentadiene
	Benzo(a)pyrene-d12 F9M36
	Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene
	Pyrene-d10 F9M36
	Benzo(a)anthracene, Chrysene, Fluoranthene, Pyrene

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1
	1,2-Dichlorobenzene VBLKS2
	m,p-Xylene F9M36, F9M42, F9M44
	Toluene F9M43, F9M44
	1,2,3-Trichlorobenzene VBLKS2
	1,4-Dichlorobenzene VBLKS2
	Acetone F9M36
	1,2,4-Trichlorobenzene VBLKS2
	1,3-Dichlorobenzene VBLKS2
	Methylene chloride F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M42, F9M43, F9M44, F9M45
	Di-n-butylphthalate F9M44
	Fluoranthene F9M42
	Chrysene F9M42
	Butylbenzylphthalate F9M42
	Benzo(b)fluoranthene F9M42, F9M44
	Pyrene F9M42
	Bis(2-ethylhexyl)phthalate F9M43, F9M45

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M36, F9M42, F9M43, F9M44, F9M45
	Benzo(k)fluoranthene F9M44
	Fluoranthene F9M45
	Anthracene F9M36, F9M43
	Benzo(g,h,i)perylene F9M44, F9M45
	Fluorene F9M36, F9M42
	Naphthalene F9M36, F9M42, F9M43, F9M44, F9M45
	Pyrene F9M45
	Indeno(1,2,3-cd)pyrene F9M44, F9M45
	Acenaphthylene F9M36, F9M42, F9M43
	Benzo(a)anthracene F9M44, F9M45
	Chrysene F9M45
	Phenanthrene F9M44, F9M45
	Acenaphthene F9M36, F9M42, F9M43
	Benzo(b)fluoranthene F9M45
	Benzo(a)pyrene F9M44, F9M45
	2-Methylnaphthalene F9M36, F9M42, F9M43
	Pentachlorophenol F9M36, F9M43
	Dibenzo(a,h)anthracene F9M36, F9M43

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	Pest
PDL1	The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1, PLCSS1
	Endosulfan II F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1
	4,4'-DDT F9M36, F9M42, F9M44, PLCSS1
	gamma-BHC (Lindane) F9M36, F9M42, F9M43, F9M44, F9M45, PLCSS1
	Dieldrin F9M36, F9M42, F9M43, F9M44, F9M45, PLCSS1
	delta-BHC F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1, PLCSS1
	Endrin aldehyde F9M36, F9M36MS, F9M36MSD, F9M42, F9M44, F9M45
	beta-BHC F9M36, F9M36MS, F9M42, F9M43, F9M44, F9M45, PBLKS1, PLCSS1
	alpha-Chlordane PLCSS1
	4,4'-DDE F9M36, F9M36MS, F9M36MSD, F9M42, F9M44, PLCSS1
	Endosulfan sulfate F9M36, F9M36MS, F9M36MSD, PLCSS1
	gamma-Chlordane F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PLCSS1
	Heptachlor F9M44
	4,4'-DDD F9M36, F9M42, F9M43
	Endrin ketone F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1, PLCSS1
	Methoxychlor F9M43, F9M45
	Endrin F9M43, PLCSS1
	Heptachlor epoxide F9M42, PLCSS1
	alpha-BHC F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1, PLCSS1
Detection Limit	**Pest**
PDL3	The percent difference between analyte results for the following pesticide samples is greater than 25%. Detected and nondetected compounds are not qualified.
	F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1
	Endosulfan II F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45, PBLKS1
	4,4'-DDT F9M36, F9M44
	gamma-BHC (Lindane) F9M36, F9M42, F9M43, F9M44, F9M45
	Dieldrin F9M36, F9M42, F9M43, F9M44, F9M45

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	Pest
	delta-BHC F9M36, F9M36MS, F9M42, F9M43, F9M44, PBLKS1
	Endrin aldehyde F9M36, F9M36MS, F9M36MSD, F9M42, F9M44, F9M45
	beta-BHC F9M36MS, F9M42, F9M43, F9M44, F9M45, PBLKS1
	4,4'-DDE F9M36, F9M36MS, F9M42, F9M44
	Endosulfan sulfate F9M36, F9M36MS, F9M36MSD
	Heptachlor F9M44
	gamma-Chlordane F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45
	4,4'-DDD F9M36, F9M42, F9M43
	Endrin ketone F9M36, F9M36MS, F9M42, F9M43, F9M44, F9M45, PBLKS1
	Methoxychlor F9M43, F9M45
	Endrin F9M43
	alpha-BHC F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M45

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	Aroclor
ADL3	The relative percent difference between analyte results for the following aroclor samples is greater than 25%. Detected and nondetected compounds are not qualified.
	F9M36MS
	Aroclor-1260 F9M36MS

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Holding Times

Holding Times	BNA_SIM
BHT6	The following semivolatile soil samples are outside primary extraction holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9M42

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1
	1,4-Dioxane VSTD005SS, VSTD010SS, VSTD050SS, VSTD100SS, VSTD200SS
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1
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.
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1
	1,4-Dioxane-d8 VSTD005SS, VSTD010SS, VSTD050SS, VSTD100SS, VSTD200SS
	F9M36, F9M42, F9M43, F9M44, F9M45, VBLKS2, VHBLKS1

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

Matrix Spikes

Matrix Spikes	Aroclor
AMS1	The relative percent difference (RPD) between the following aroclor matrix spike and matrix spike duplicate recoveries is outside criteria. Detected compounds in parent sample are qualified J. Nondetected compounds in parent sample are not qualified.
	F9M36MS, F9M36MSD
	Aroclor-1260 F9M36MS, F9M36MSD
	Aroclor-1016 F9M36MS, F9M36MSD

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Data Review Reports

TIC

TIC	VOA_Low_Med
VTIC1	A library search indicates a match at or above 85% for a TIC compound in the volatile sample Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	F9M45
	Cyclohexene, 4-methylene-1-(1-methylethyl)- F9M45
	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene F9M45
	D-Limonene F9M45
	Tricyclo[2.2.1.0(2,6)]heptane, 1,7,7-trimethyl- F9M45

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **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.
	F9M36, F9M42, F9M43, F9M44, F9M45, SBLK11
	Behenic alcohol F9M45
	Ethanol, 2-(2-ethoxyethoxy)- F9M44, F9M45
	Furan, 2,5-dimethyl- SBLK11
	.beta.-Sitosterol F9M42
	13-Docosenamide, (Z)- F9M36, F9M42, F9M43, F9M44, F9M45
	D:C-Friedo-B':A'-neogammacer-9(11)-ene, 3-methox F9M42
	9-Octadecenamide, (Z)- F9M36, F9M42, F9M43, F9M44, F9M45, SBLK11
	Hexadecanamide F9M36, F9M42, F9M43, F9M44, F9M45, SBLK11
	Octacosanol F9M42
	cis-9-Hexadecenoic acid F9M44
	Tetradecanamide F9M44
	Stigmast-4-en-3-one F9M36
	n-Hexadecanoic acid F9M36, F9M42, F9M44, F9M45
	n-Tetracosanol-1 F9M44
	Oleic Acid F9M44
	2(3H)-Furanone, 5-acetyldihydro- F9M44
	1-Docosene F9M36
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.
	F9M36, F9M42, F9M43, F9M44, F9M45, SBLK11
	Unknown Butanoic acid, 3-methyl- F9M36
	Unknown Tetradecanamide F9M44
	Unknown 1-Decanol, 2-hexyl- F9M44
	Unknown 1,3-Dioxolane, 2,2-dimethyl- F9M43, F9M44, F9M45
	Unknown 4-Heptanone F9M43

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
	Unknown 9-Octadecenamide, (Z)- F9M42
	Unknown 1,6-Octadiene, 2,7-dimethyl- F9M42
	Unknown Hydroxylamine, O-(3-methylbutyl)- F9M42, F9M43, F9M44, F9M45
	Unknown trans-4'-Dimethylamino-3-nitrochalcone F9M43
	Unknown 2,6-Bis(4-nitro-phenylthio)pyridine F9M43
	Unknown Butanoic acid, anhydride F9M42
	Unknown 1H-Pyrrole-2,5-dione F9M36
	Unknown 2-Furanone, 3,4-dihydroxytetrahydro F9M42
	Unknown 1,5-Hexadiene, 2,5-dipropyl- F9M45
	Unknown Guanidine F9M45
	Unknown 2-Pentanone, 4-hydroxy-4-methyl- F9M36, F9M42, F9M43, F9M44, SBLK11
	Unknown 2H-Pyran-2-one, 6-heptyltetrahydro- F9M45
	Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro- F9M36, F9M44
	Unknown 2-Propenoic acid, 2-methyl-, ethenyl ester F9M42
	Unknown Testosterone F9M42
	Unknown 2,6-Decadienoic acid, 3-methyl-, ethyl ester, (Z SBLK11
	Unknown 2-Ethoxy-2-oxoethyl 2,2,2-trifluoroacetate F9M42
	Unknown 2,11-Dimethyl-2,11-dodecanediol F9M43
	Unknown 10-Nonadecanone F9M42
	Unknown Phthalic anhydride F9M36, F9M45
	Unknown 2(5H)-Furanone, 5,5-dimethyl- F9M44, F9M45
	Unknown 3-Hexene-2,5-dione F9M42, F9M43, SBLK11
	Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydro-5H-naph F9M43, F9M45
	Unknown Ethanone, 1-oxiranyl- F9M36
	Unknown 2(3H)-Furanone, 5-acetyldihydro- F9M42
	Unknown cis-9,10-Epoxyoctadecanamide F9M45
	Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate F9M36

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Lab DATAC(ALS Environmental) **SDG** F9M36 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216734 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
	Unknown Acetaldehyde, O-ethyloxime- F9M36
	Unknown Fluoranthene, 2-methyl- F9M44
	Unknown 2-Pentanone, 4-hydroxy- F9M36, F9M43, F9M44, F9M45, SBLK11
	Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.3.0.0(4, F9M36
	Unknown Stigmast-4-en-3-one F9M45
	Unknown 2-Propanone, 1-chloro- F9M44

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.:	F9M36
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	12	✓	
3. **SDG Cover Sheet/Traffic Report**	13	23	✓	
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			✓	

00123 thru 00

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

CASE NO.	45316	SDG NO.:	F9M36
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)	24	25	✓	
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)	26	26	✓	
GC/MS Instrument Performance Check (Form V VOA)	27	28	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	29	29	✓	
b. Sample Data	30	75		
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)	76	105		
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	106	109	✓	
Blank Data	110	125	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9M36
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)	126	127	✓	
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)	128	128	✓	
GC/MS Instrument Performance Check (Form V SV)	129	132	✓	
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	133	136	✓	
b. Sample Data	137	289		
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)	290	366		
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	367	378	✓	
Blank Data	379	395	✓	
MS/MSD Data (if requested by USEPA Region)	n/a		✓	
e. Raw GPC Data	396	400	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9M36
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.]	401	510	✓	
7. Pesticides Data				
a. QC Summary				
Surrogate Recovery Summary (Form II PEST-1 and PEST-2)	511	511	✓	
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)	512	513	✓	
Laboratory Control Sample Recovery (Form III Pest-3 and PEST-4)	514	514	✓	
Method Blank Summary (Form IV PEST)	515	515	✓	
b. Sample Data	516	530		
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	531	603		
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	F9M36
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	604	614	✓	
Matrix Spike/Matrix Spike Duplicate Data	615	622	✓	
Laboratory Control Sample Data	623	626	✓	
e. Raw GPC Data	627	646	✓	
f. Raw Florisil Data	647	664	✓	
8. **Aroclor Data**				
a. QC Summary				
Surrogate Recovery Summary (Form II ARO-1 and ARO-2)	665	665	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)	666	667	✓	
Laboratory Control Sample Recovery (Form III ARO-3 and ARO-4)	668	668	✓	
Method Blank Summary (Form IV ARO)	669	669	✓	
b. Sample Data	670	684		
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)			✓	

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

CASE NO.	45316	SDG NO.:	F9M36
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
c. Standards Data	685	729		
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	730	740	✓	
Matrix Spike/Matrix Spike Duplicate Data	741	748	✓	
Laboratory Control Sample (LCS) Data	749	752	✓	
e. Raw GPC Data (if performed)	753	755	✓	
9. **Miscellaneous Data**				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	756	903	✓	
Internal sample and sample extract transfer chain-of-custody records	904	910	✓	
Screening records	n/a		✓	
All instrument output, including strip charts from screening activities (describe or list)				
Method Check/QC Reports/LCS	n/a		✓	
Percent Solids Determinations	911	911	✓	
10. **EPA Shipping/Receiving Documents**				
Airbills (no. of shipments 8)	912	919	✓	
Chain of Custody Records (Copies)	920	929	✓	
Sample Tags	930	930	✓	
Sample Log-in Sheet (Lab & DC-1)	931	939	✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
DCL Cooler Receipt Checklist	NA		✓	
DCL Sample Work Orders	NA		✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9M36
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	940	943	✓	
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)	6/23/15 (Date)
Verified by: (CLP Lab)	Roxanne Olson (Signature)	Roxanne Olson/Manager (Printed Name/Title)	6/23/15 (Date)
Audited by: (USEPA)	(Signature)	(Printed Name/Title)	(Date)

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www.alsglobal.com

SDG Administrative Narrative

Contract: EPW11037

Case: 45316

SDG: F9M36

WO No(s): 15155552

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

Communications:

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

Comments:

None

Signature: Desiree Hell
Document Control Officer

Date: 06/23/2015

SDG Narrative
Low/Medium Volatiles

Contract: EPW11037 **Case:** 45316
Laboratory: ALS Environmental **SDG:** F9M36
Modification Reference Number: NA

EPA No.	ALS Sample	pH	Dilution	EPA No.	ALS Sample	pH	Dilution
F9M36	1515552001	NA	None	F9M44	1515552006	NA	None
F9M42	1515552004	NA	None	F9M45	1515552007	NA	None
F9M43	1515552005	NA	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: Hewlett Packard 5972-S GC/MSD with electron impact ionization and quadrupole detector scanning a mass range of 35 to 300 amu. Column: J&W Scientific DB 624 (75 m, 0.53 mm id, 3 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 (3.5 min.) 10°/min. to 220° (2.0 min.).

Sample Preparation: This method has no extraction procedure for the low level soil matrix. Soil samples were received in sample cartridges and were extruded and frozen until analysis. Prior to analysis a total of 10 mL of reagent water containing internal standard/DMC solution was added and the sample was 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 with the exception of the dioxane compounds. All calibration verification standards met method specified criteria (again excepting dioxanes). Due to interfering ions, the secondary 55 ion was used in quantifying methylcyclohexane for 5972-S. 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 blank sand and or 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 ten 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.

6.20.15

Christopher Q. Coleman
Chemist
Volatile Organic Analysis Section

SDG Narrative
Semivolatiles Fraction

Contract Number: EPW11037
Case Number: 45316
SDG Number: F9M36
SOW Number: SOM01.2
Laboratory Name: ALS Environmental

Sample Number	ALS Sample ID	Dilution	Fraction
EPA ID	Lab ID	Dilution	Fraction
F9M36	1515552001		SVOA, SIM
F9M42	1515552004		SVOA, SIM
F9M43	1515552005		SVOA, SIM
F9M44	1515552006		SVOA, SIM
F9M45	1515552007		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-G for full scan, 5975-D for SIM)
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. The ampules were prepared as per the included instructions.

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 for the SIM analysis and for full scan.

Sample Analysis: All samples passed internal standard area and DMC recovery QC criteria. Sample F9M42 was re-extracted for SIM analysis outside of holding time due to failing surrogate recoveries in the original analysis for SIM. The surrogate recoveries passed for full scan for sample F9M42.

MS/MSD Analysis: An MS/MSD analysis was not requested for this SDG.

Dilutions: Any dilutions noted above were needed to bring analyte concentrations within the range of the curve or to protect the integrity of the instrument.

Miscellaneous Comments: 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 D Section 11.2.1.2 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: 1,4-Dioxane and 1,4-Dioxane-d8 are split peaks and need to be manually integrated. 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. 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	
SSTD040GX	Caprolactam	812	841
SSTD080GX	Caprolactam	814	850
SSTD005DG	Indeno(1,2,3-c,d)pyrene	3824	3318
F9M42	Pyrene	2052	2064

For SIM analysis:

Sample	Analyte	Scan start-stop	
F9M36	Fluoranthene-d10	1659	1675
F9M36	Pyrene	1740	1749
F9M36	Benzo(k)fluoranthene	2426	2436
F9M42	Pyrene	1706	1716
F9M42	Benzo(k)fluoranthene	2375	2385
F9M43	Pyrene	1741	1749
F9M43	Benzo(k)fluoranthene	2427	2438
F9M44	Pyrene	1740	1748
F9M44	Benzo(k)fluoranthene	2427	2436
F9M44	Pyrene	1741	1749

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.

Steven Yourstone June 22, 2015

Steven Yourstone
Chemist
Semivolatile Organic Analysis Section

SDG Narrative
Pesticides

Laboratory Name: ALS Laboratory Group
Case: 45316
SDG: F9M36
EPA Sample Numbers: F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, and F9M45.
Contract Number: EP-W-11-037

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. All above samples are billable.

Instrumentation: Hewlett Packard 5890 GC/ECD
Column: 0.32m ID X 30M RTX-CLP 0.50 micron film (primary).
0.32m ID X 30M RTX-CLP2 0.25 micron film (confirmation).

Sample Preparation: All samples were extracted within sample preparation hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: All requirements for continuing calibration were met.

Sample Analysis: All samples were analyzed within SOW specified hold times.

Dilutions: No dilutions were performed.

Blank Analysis: No analytes were detected in the method blank above the CRQLs.

LCS Analysis: All recoveries were within established limits.

MS/MSD Analysis: All recoveries and RPDs were within established limits.

Surrogates: All samples passed SOW surrogate criteria.

Miscellaneous Comments: None.

This chart summarizes the amount (ng) of each compound in each type of standard:

	RESC##	PEM##	TOXAPH1##	TOXAPH2##	TOXAPH3##	TOXAPH4##	TOXAPH5##	INDC1##	INDC2##	INDC3##	INDC4##	INDC5##	PIBLK##
alpha-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
beta-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
delta-BHC	0.04							0.01	0.02	0.04	0.08	0.20	
gamma-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
Heptachlor	0.04							0.01	0.02	0.04	0.08	0.20	
Aldrin	0.04							0.01	0.02	0.04	0.08	0.20	
Heptachlor epoxide	0.04							0.01	0.02	0.04	0.08	0.20	
Endosulfan I	0.04							0.01	0.02	0.04	0.08	0.20	
Dieldrin	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDE	0.08							0.02	0.04	0.08	0.16	0.40	
Endrin	0.08	0.1						0.02	0.04	0.08	0.16	0.40	
Endosulfan II	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDD	0.08							0.02	0.04	0.08	0.16	0.40	
Endosulfan sulfate	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDT	0.08	0.2						0.02	0.04	0.08	0.16	0.40	
Methoxychlor	0.40	0.5						0.10	0.2	0.4	0.8	2.0	
Endrin ketone	0.08							0.02	0.04	0.08	0.16	0.40	
Endrin aldehyde	0.08							0.02	0.04	0.08	0.16	0.40	
alpha-Chlordane	0.04							0.01	0.02	0.04	0.08	0.20	
gamma-Chlordane	0.04							0.01	0.02	0.04	0.08	0.20	
Toxaphene			1	2	4	8	20						
Tetrachloro-m-xylene	0.04	0.04	0.01	0.02	0.04	0.08	0.20	0.01	0.02	0.04	0.08	0.20	0.04
Decachlorobiphenyl	0.08	0.04	0.02	0.04	0.08	0.16	0.40	0.02	0.04	0.08	0.16	0.40	0.08

Sample equation for Endrin in PLCSS1 (1):

$$\text{Result ug/kg} = \frac{\text{(Area response of analyte)(Extract FV uL after GPC)(Dilution Factor)(GPC factor)}}{\text{(Ave CF)(uL injected)(grams of Sample)((100-\%moisture)/100))}}$$

$$2.61 \text{ ug/kg} = \frac{(16009)(5000 \text{ uL})(1)(10000/5000)}{(1020000)(2 \text{ uL})(30 \text{ g})(1)}$$

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 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.

06/22/15

Steven J. Sagers — Date
Pesticide Chemist

DATA CHEM LABORATORIES, INC.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ALS

SDG Narrative
Aroclors

Laboratory Name: ALS Environmental
Case: 45316
SDG: F9M36
EPA Sample Numbers: F9M36, F9M36MS, F9M36MSD, F9M42, F9M43, F9M44, F9M45.
Contract Number: EP-W-11-037

General SDG Information: Samples were analysed according to USEPA CLP Statement of Work SOM01.2. All above samples are billable.

Instrumentation: Hewlett Packard 5890 GC/ECD
Column: 0.32m ID X 30M RTX-CLP 0.50 micron film (primary).
0.32m ID X 30M RTX-CLP2 0.25 micron film (confirmation).

Sample Preparation: All samples were extracted within SOW specified hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: All requirements for continuing calibration were met.

Sample Analysis: All samples were analysed within SOW specified hold times.

Dilutions: None.

Blank Analysis: No analytes were detected in the method blank above the CRQL.

LCS Analysis: All recoveries were within established limits.

MS/MSD Analysis: Four RPDs were outside established limits.

Surrogates: All samples passed SOW surrogate criteria.

Miscellaneous Comments: None.

DataChem Laboratories, Inc.
Part of the ALS Laboratory Group
960 West LeVoy Drive, Salt Lake City, Utah 84123
Phone 801 266 7700 Fax 801 268 9992 www.datachem.com www.alsenviro.com
A Campbell Brothers Limited Company

This chart summarizes the amount (ng) of each compound in each type of standard:

	AR####1##	AR####2##	AR####3##	AR####4##	AR####5##	AIBLK##
AR####	0.2	0.4	0.8	1.6	3.2	
Tetrachloro-m-xylene	0.01	0.02	0.04	0.08	0.16	0.04
Decachlorobiphenyl	0.02	0.04	0.08	0.16	0.32	0.08

Equation for Aroclors in soil samples (EQ. 9):

EQ. 9 Concentration Calculation for Soil Samples

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

Where,

A_x = Area or height of the peak for the compound to be measured.

$\overline{CF}$ = Mean Calibration Factor from the specific five-point calibration (area/ng).

V_t = Volume of the concentrated extract in µL. (If GPC is not performed, then V_t = 10000 µL. If GPC is performed, then $V_t = V_{out}$).

V_i = Volume of extract injected in µL. (If a single injection is made onto two columns, use one half the volume in the syringe as the volume injected onto each column.)

$$D = \frac{100 - \%Moisture}{100}$$

W_s = Weight of sample extracted in g.

DF = Dilution Factor. The DF for analysis of soil/sediment samples by this method is defined as follows:

$$\frac{\mu L \text{ most concentrated extract used to make dilution} + \mu L \text{ clean solvent}}{\mu L \text{ most concentrated extract used to make dilution}}$$

If no dilution is performed, DF = 1.0.

Equation for Aroclors in water samples (EQ. 7):

EQ. 7 Concentration Calculation for Water Samples

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

Where,

A_x = Area or height of the peak for the compound to be measured.

$\overline{CF}$ = Mean Calibration Factor from the specific five-point calibration (area/ng).

V_o = Volume of water extracted in mL (Note: for instrument and sulfur blanks assume a volume of 1000 mL).

V_i = Volume of extract injected in µL. (If a single injection is made onto two columns, use one half the volume in the syringe as the volume injected onto each column).

V_t = Volume of the concentrated extract in µL. (If GPC is not performed, then V_t = 10000 µL. If GPC is performed, then $V_t = V_{out}$).

DF = Dilution Factor. The DF for analysis of water samples by this method is defined as follows:

$$\frac{\mu L \text{ most concentrated extract used to make dilution} + \mu L \text{ clean solvent}}{\mu L \text{ most concentrated extract used to make dilution}}$$

If no dilution is performed, DF = 1.0.

$GPC = \frac{V_{in}}{V_{out}}$ = GPC factor. (If no GPC is performed, GPC = 1.0).

V_{in} = Volume of extract loaded onto GPC column.

V_{out} = Volume of extracted collected after GPC cleanup.

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 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.

06/18/15

Nadjla Borges
Chemist

Date

: 00012

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: F9M36

[X] ARO [X] PEST [X] BNA [X] BNASIM [ ] VT [ ] VOASIM [X] 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) F9M36	7)	13)	19)
2) F9M42	8)	14)	20)
3) F9M43	9)	15)	21)
4) F9M44	10)	16)	22)
5) F9M45	11)	17)	23)
6)	12)	18)	24)

F9M36	F9M45
First Sample in SDG	Last Sample in SDG
06/03/15	06/03/15
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: 6/4/2015 7:58:19 AM

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

1515552

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 SPA 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-011-004-06-51	F9M31	Soil/ START	Composite	VOA(21)	1478 (Ice) (3)	011	06/02/2015 09:50	
WO-011-004-12-51	F9M32	Soil/ START	Composite	VOA(21)	1483 (Ice) (3)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	VOA(21)	1488 (Ice) (3)	011	06/02/2015 10:00	
WO-002-001-00-51	F9M34	Soil/ START	Composite	VOA(21)	1493 (Ice) (3)	011	06/02/2015 11:20	
WO-002-001-00-52	F9M35	Soil/ START	Composite	VOA(21)	1498 (Ice) (3)	002	06/02/2015 11:25	
WO-002-002-00-51	F9M36	Soil/ START	Composite	VOA(21)	1503 (Ice) (3)	002	06/02/2015 11:45	
WO-002-003-00-51	F9M37	Soil/ START	Composite	VOA(21)	1508 (Ice) (3)	002	06/02/2015 13:30	
WO-002-004-00-51	F9M38	Soil/ START	Composite	VOA(21)	1513 (Ice) (3)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	VOA(21)	1518 (Ice) (3)	002	06/02/2015 13:10	
WO-002-003-06-51	F9M40	Soil/ START	Composite	VOA(21)	1523 (Ice) (3)	002	06/02/2015 13:40	

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	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAC	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)

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

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

FM36

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	Split 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
Samples/Analysis	Robert 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

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 7737370066238

CHAIN OF CUSTODY RECORD

F9M2 6/3/2015

Case #: 45316
Cooler #:

No: 6-060215-183123-0083

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-011-004-12-51	F9M32	Soil/ START	Composite	CLP Moisture(21)	1486 (Ice) (1)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	CLP Moisture(21)	1491 (Ice) (1)	011	06/02/2015 10:00	
WO-002-001-00-52	F9M35	Soil/ START	Composite	CLP Moisture(21)	1501 (Ice) (1)	002	06/02/2015 11:25	
WO-002-002-00-51	F9M36	Soil/ START	Composite	CLP Moisture(21)	1506 (Ice) (1)	002	06/02/2015 11:45	
WO-002-003-00-51	F9M37	Soil/ START	Composite	CLP Moisture(21)	1511 (Ice) (1)	002	06/02/2015 13:30	
WO-002-004-00-51	F9M38	Soil/ START	Composite	CLP Moisture(21)	1516 (Ice) (1)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	CLP Moisture(21)	1521 (Ice) (1)	002	06/02/2015 13:10	
WO-002-003-06-51	F9M40	Soil/ START	Composite	CLP Moisture(21)	1526 (Ice) (1)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	CLP Moisture(21)	1531 (Ice) (1)	002	06/02/2015 13:45	
WO-002-001-06-51	F9M42	Soil/ START	Composite	CLP Moisture(21)	1536 (Ice) (1)	002	06/02/2015 14:30	

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

Analysis Key: CLP Moisture=CLP % Moisture

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 DATAC	6/3/2015/10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 7737370066238

CHAIN OF CUSTODY RECORD F9M34

Case #: 45316
Cooler #:

No: 6-060215-183123-0083
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-002-001-12-51	F9M43	Soil/ START	Composite	CLP Moisture(21)	1541 (Ice) (1)	002	06/02/2015 14:35	MLE 6/3/2015

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: CLP Moisture=CLP % Moisture	

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

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737036285

CHAIN OF CUSTODY RECORD F9M34

Case #: 45316
Cooler #:

No: 6-060215-175343-0080

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-011-003-06-51	F9M28	Soil/ START	Composite	PEST+ARO(21)	1465 (Ice) (2)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	PEST+ARO(21)	1470 (Ice) (2)	011	06/02/2015 09:15	
WO-002-003-00-51	F9M37	Soil/ START	Composite	PEST+ARO(21)	1510 (Ice) (2)	002	06/02/2015 13:30	
WO-002-003-06-51	F9M40	Soil/ START	Composite	PEST+ARO(21)	1525 (Ice) (2)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	PEST+ARO(21)	1530 (Ice) (2)	002	06/02/2015 13:45	
WO-002-001-06-51	F9M42	Soil/ START	Composite	PEST+ARO(21)	1535 (Ice) (2)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	PEST+ARO(21)	1540 (Ice) (2)	002	06/02/2015 14:35	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: PEST+ARO=CLP Pest + ARO	

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

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737106995

CHAIN OF CUSTODY RECORD F9M36

Case #: 45316
Cooler #:

No: 6-060215-153540-0076

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-011-002-06-51	F9M21	Soil/ START	Composite	PEST+ARO(21)	1430 (Ice) (2)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	PEST+ARO(21)	1435 (Ice) (2)	011	06/02/2015 08:20	
WO-011-002-24-52	F9M24	Soil/ START	Composite	PEST+ARO(21)	1445 (Ice) (2)	011	06/02/2015 08:30	
WO-011-004-06-51	F9M31	Soil/ START	Composite	PEST+ARO(21)	1480 (Ice) (2)	011	06/02/2015 09:50	
WO-011-004-12-51	F9M32	Soil/ START	Composite	PEST+ARO(21)	1485 (Ice) (2)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	PEST+ARO(21)	1490 (Ice) (2)	011	06/02/2015 10:00	
WO-002-002-00-51	F9M36	Soil/ START	Composite	PEST+ARO(21)	1505 (Ice) (4)	002	06/02/2015 11:45	

Sample(s) to be used for Lab QC: WO-002-002-00-51 Tag 1505

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
			Meredith Edwards TDATPC	6/3/2015/0907	good

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773732640238

copy original in SDG F9M21

CHAIN OF CUSTODY RECORD F9M36

Case #: 45316
Cooler #:

No: 6-060215-190153-0086

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-011-003-24-51	F9M30	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1475 (Ice), 1476 (Ice) (3)	011	06/02/2015 09:20	
WO-002-001-00-51	F9M34	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1495 (Ice), 1496 (Ice) (3)	011	06/02/2015 11:20	
WO-002-002-06-51	F9M44	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1545 (Ice), 1546 (Ice) (3)	002	06/02/2015 16:30	
WO-002-004-06-51	F9M45	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1550 (Ice), 1551 (Ice) (3)	002	06/02/2015 16:45	Split Final Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO, CLP Moisture=CLP % Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
4/samples	Weston	6/2/15 2100	Fedex	6/2/15 2100	
	FedEx	4/3/2015 10:07	Meredith Edwards DATA	4/3/2015 10:07	good

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737121790

CHAIN OF CUSTODY RECORD F9M36

Case #: 45316
Cooler #:

No: 6-060215-152803-0075

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-011-002-06-51	F9M21	Soil/ START	Composite	SVOA/SVOASIM(21)	1429 (Ice) (2)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	SVOA/SVOASIM(21)	1434 (Ice) (2)	011	06/02/2015 08:20	
WO-011-002-24-51	F9M23	Soil/ START	Composite	SVOA/SVOASIM(21)	1439 (Ice) (2)	011	06/02/2015 08:25	Rec'd F9M24
WO-011-004-06-51	F9M31	Soil/ START	Composite	SVOA/SVOASIM(21)	1479 (Ice) (2)	011	06/02/2015 09:50	6/3/2015
WO-011-004-12-51	F9M32	Soil/ START	Composite	SVOA/SVOASIM(21)	1484 (Ice) (2)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	SVOA/SVOASIM(21)	1489 (Ice) (2)	011	06/02/2015 10:00	
WO-002-002-00-51	F9M36	Soil/ START	Composite	SVOA/SVOASIM(21)	1504 (Ice) (2)	002	06/02/2015 11:45	

Special Instructions: No lab QC for SVOA/SVOASIM Samples	**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	[illegible] 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

000021

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737001074
Copy original in SDA F9M21

CHAIN OF CUSTODY RECORD F9M36

Case #: 45316
Cooler #:

No: 6-060215-185026-0034
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-011-003-24-51	F9M30	Soil/ START	Composite	SVOA/SVOASIM(21)	1474 (Ice) (2)	011	06/02/2015 09:20	
WO-002-001-00-51	F9M34	Soil/ START	Composite	SVOA/SVOASIM(21)	1494 (Ice) (2)	011	06/02/2015 11:20	
WO-002-002-06-51	F9M44	Soil/ START	Composite	SVOA/SVOASIM(21)	1544 (Ice) (2)	002	06/02/2015 16:30	
WO-002-004-06-51	F9M45	Soil/ START	Composite	SVOA/SVOASIM(21)	1549 (Ice) (2)	002	06/02/2015 16:45	SDA Final Sample

Special Instructions: No Lab QC on SVIA/SVOASIM Samples

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
4/Sample	Weston	6/2/15 2100	Fedex	6/2/15 2100	
	FedEx	6/3/2015/10:07	Meredith Edwards DATAC	6/3/2015/10:07	good

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737027052

CHAIN OF CUSTODY RECORD F9M36

Case #: 45316
Cooler #:

No: 6-060215-175849-0081

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-011-003-06-51	F9M28	Soil/ START	Composite	SVOA/SVOASIM(21)	1464 (Ice) (2)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	SVOA/SVOASIM(21)	1469 (Ice) (2)	011	06/02/2015 09:15	
WO-002-003-00-51	F9M37	Soil/ START	Composite	SVOA/SVOASIM(21)	1509 (Ice) (2)	002	06/02/2015 13:30	
WO-002-003-06-51	F9M40	Soil/ START	Composite	SVOA/SVOASIM(21)	1524 (Ice) (2)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	SVOA/SVOASIM(21)	1529 (Ice) (2)	002	06/02/2015 13:45	
WO-002-001-06-51	F9M42	Soil/ START	Composite	SVOA/SVOASIM(21)	1534 (Ice) (2)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	SVOA/SVOASIM(21)	1539 (Ice) (2)	002	06/02/2015 14:35	

Special Instructions: No Lab QC on SVOA/SVOASIM samples

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	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 / 10:07	Meredith Edwards DATAR	6/3/2015 / 10:07	good

2C - FORM II VOA-3
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	F9M36	83	86	65	98	96	107	105
02	F9M42	81	84	65	102	92	99	102
03	F9M43	83	85	67	95	93	98	96
04	F9M44	108	112	86	123	120	132 *	118
05	F9M45	87	92	68	109	97	105	109
06	VBLKS2	87	86	69	111	90	96	99
07	VHBLKS1	82	85	64	106	95	106	98
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
VDMC1 (VCL) = Vinyl chloride-d3	(68-122)
VDMC2 (CLA) = Chloroethane-d5	(61-130)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(45-132)
VDMC4 (BUT) = 2-Butanone-d5	(20-182)
VDMC5 (CLF) = Chloroform-d	(72-123)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(79-122)
VDMC7 (BEN) = Benzene-d6	(80-121)

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

2D - FORM II VOA-4
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	F9M36	106	101	103	107	124	103	97	0
02	F9M42	101	101	109	124	120	99	96	0
03	F9M43	95	98	104	109	107	99	98	0
04	F9M44	117	117	127	134	145	126	112	1
05	F9M45	108	103	109	115	126	120	100	0
06	VBLKS2	95	99	104	116	109	98	99	0
07	VHBLKS1	98	96	104	115	118	109	104	0
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(74-124)
VDMC9 (TOL) = Toluene-d8	(78-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(72-130)
VDMC11 (HEX) = 2-Hexanone-d5	(17-184)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(56-161)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(70-131)

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.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: SU81BLK Lab Sample ID: 450812

Instrument ID: 5972-S

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/09/2015

Level: (TRACE or LOW/MED) LOW Time Analyzed: 17:35

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F9M42	1515552004	SU88C004	21:20
02	F9M43	1515552005	SU89C005	21:51
03	F9M45	1515552007	SU91C007	22:51
04	F9M36	1515552001	SU96R001	01:24
05	F9M44	1515552006	SU97R006	01:55
06	VHBLKS1	450813	SU98HBLK	02:26
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:

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

EPA SAMPLE NO.

BFBSS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: SU31BFB BFB Injection Date: 06/04/2015

Instrument ID: 5972-S BFB Injection Time: 19:46

GC Column: DB624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	32.6
75	30.0 - 80.0% of mass 95	65.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120% of mass 95	64.4
175	5.0 - 9.0% of mass 174	5.1 (7.9) 1
176	95.0 - 101% of mass 174	62.1 (96.5) 1
177	5.0 - 9.0% of mass 176	4.3 (7.0) 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	VSTD005SS	VSTD005SS	SU32S05	06/04/2015	20:18
02	VSTD010SS	VSTD010SS	SU33S10	06/04/2015	20:49
03	VSTD050SS	VSTD050SS	SU34S50	06/04/2015	21:19
04	VSTD100SS	VSTD100SS	SU35S100	06/04/2015	21:49
05	VSTD200SS	VSTD200SS	SU36S200	06/04/2015	22:20
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.

BFBS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: SU79BFB BFB Injection Date: 06/09/2015

Instrument ID: 5972-S BFB Injection Time: 16:32

GC Column: DB624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	31.4
75	30.0 - 80.0% of mass 95	64.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120% of mass 95	61.3
175	5.0 - 9.0% of mass 174	5.0 (8.2) 1
176	95.0 - 101% of mass 174	61.3 (99.9) 1
177	5.0 - 9.0% of mass 176	4.4 (7.1) 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	VSTD050S3	VSTD050S3	SU80S50	06/09/2015	17:03
02	VBLKS2	450812	SU81BLK	06/09/2015	17:35
03	F9M42	1515552004	SU88C004	06/09/2015	21:20
04	F9M43	1515552005	SU89C005	06/09/2015	21:51
05	F9M45	1515552007	SU91C007	06/09/2015	22:51
06	F9M36	1515552001	SU96R001	06/10/2015	01:24
07	F9M44	1515552006	SU97R006	06/10/2015	01:55
08	VHBLKS1	450813	SU98HBLK	06/10/2015	02:26
09	VSTD050S4	VSTD050S4	SU99F50	06/10/2015	02:57
10					
11					
12					
13					
14					
15					
16					
17					
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.: F9M36

GC Column: DB624 ID: 0.53 (mm) Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S3 Date Analyzed: 06/09/2015

Lab File ID (Standard): SU80S50 Time Analyzed: 17:03

Instrument ID: 5972-S Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1432581	12.86	1733598	8.88	846184	16.22
	UPPER LIMIT	2865162	13.36	3467196	9.38	1692368	16.72
	LOWER LIMIT	716291	12.36	866799	8.38	423092	15.72
	EPA SAMPLE NO.						
01	VBLKS2	1290075	12.87	1670353	8.87	738229	16.22
02	F9M42	1247656	12.85	1655979	8.86	558417	16.19
03	F9M43	1244760	12.84	1550522	8.87	651825	16.20
04	F9M45	1031865	12.86	1400993	8.88	499045	16.23
05	F9M36	976148	12.82	1299741	8.84	441660	16.18
06	F9M44	928278	12.84	1098343	8.85	523643	16.18
07	VHBLKS1	1074241	12.83	1339343	8.86	610942	16.18
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
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.

F9M36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552001

Sample wt/vol: 4.78 (g/mL) g Lab File ID: SU96R001

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

% Moisture: not dec. 21. Date Analyzed: 06/10/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.6	U
74-87-3	Chloromethane	6.6	U
75-01-4	Vinyl chloride	6.6	U
74-83-9	Bromomethane	6.6	U
75-00-3	Chloroethane	6.6	U
75-69-4	Trichlorofluoromethane	6.6	U
75-35-4	1,1-Dichloroethene	6.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U
67-64-1	Acetone	9.8	J
75-15-0	Carbon disulfide	6.6	U
79-20-9	Methyl acetate	6.6	U
75-09-2	Methylene chloride	0.46	JB
156-60-5	trans-1,2-Dichloroethene	6.6	U
1634-04-4	Methyl tert-butyl ether	6.6	U
75-34-3	1,1-Dichloroethane	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
78-93-3	2-Butanone	13.	U
74-97-5	Bromochloromethane	6.6	U
67-66-3	Chloroform	6.6	U
71-55-6	1,1,1-Trichloroethane	6.6	U
110-82-7	Cyclohexane	6.6	U
56-23-5	Carbon tetrachloride	6.6	U
71-43-2	Benzene	6.6	U
107-06-2	1,2-Dichloroethane	6.6	U
123-91-1	1,4-Dioxane	130	U

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

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

EPA SAMPLE NO.

F9M36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552001

Sample wt/vol: 4.78 (g/mL) g Lab File ID: SU96R001

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

% Moisture: not dec. 21. Date Analyzed: 06/10/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.6	U
108-87-2	Methylcyclohexane	6.6	U
78-87-5	1,2-Dichloropropane	6.6	U
75-27-4	Bromodichloromethane	6.6	U
10061-01-5	cis-1,3-Dichloropropene	6.6	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	16.	
10061-02-6	trans-1,3-Dichloropropene	6.6	U
79-00-5	1,1,2-Trichloroethane	6.6	U
127-18-4	Tetrachloroethene	6.6	U
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.6	U
106-93-4	1,2-Dibromoethane	6.6	U
108-90-7	Chlorobenzene	6.6	U
100-41-4	Ethylbenzene	6.6	U
95-47-6	o-Xylene	6.6	U
179601-23-1	m,p-Xylene	0.33	J
100-42-5	Styrene	6.6	U
75-25-2	Bromoform	6.6	U
98-82-8	Isopropylbenzene	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
95-50-1	1,2-Dichlorobenzene	6.6	U
96-12-8	1,2-Dibromo-3-chloropropane	6.6	U
120-82-1	1,2,4-Trichlorobenzene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U

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

EPA SAMPLE NO.

F9M36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552001

Sample wt/vol: 4.78 (g/mL) g Lab File ID: SU96R001

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

% Moisture: not dec. 21. Date Analyzed: 06/10/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (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.

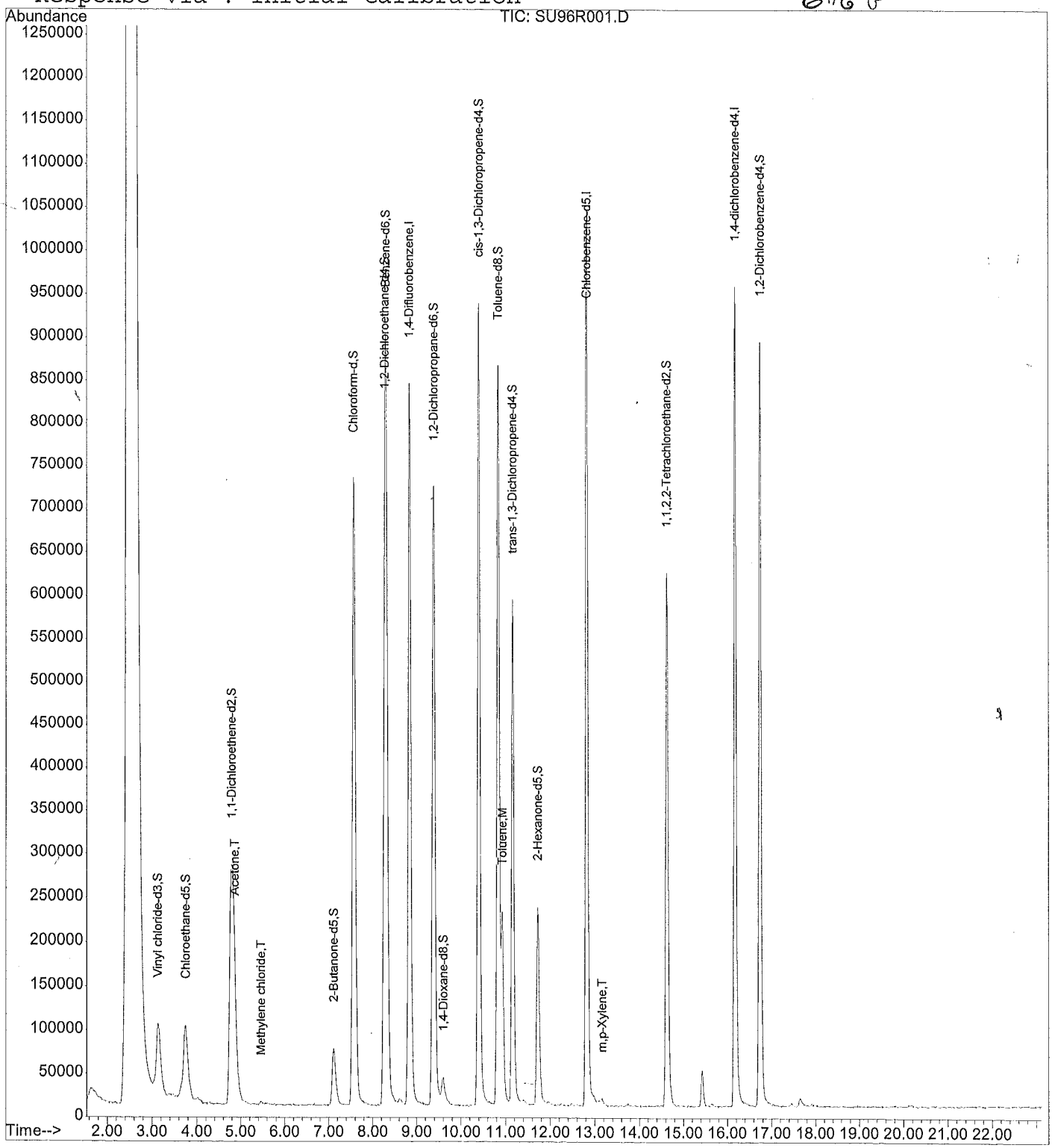
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU96R001.D
Acq Time : 06/10/2015 01:24 Operator: CQC
Sample : 1515552001 F9M36 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 16 23:49 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 16 17:27:26 2015
Response via : Initial Calibration

6/16/15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU96R001.D
Acq Time : 06/10/2015 01:24 Operator: CQC
Sample : 1515552001 F9M36 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 16 23:49 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.84	114	1299741	50.00 ug/Kg	98.46
30) Chlorobenzene-d5	12.82	117	976148	50.00 ug/Kg	91.19
62) 1,4-dichlorobenzene-d4	16.18	152	441660	50.00 ug/Kg	72.59
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	3.14	65	342755	41.33 ug/Kg	82.65%
8) Chloroethane-d5	3.75	69	340496	43.15 ug/Kg	86.29%
11) 1,1-Dichloroethene-d2	4.79	63	885962	32.40 ug/Kg	64.79%
22) 2-Butanone-d5	7.12	46	220799	98.07 ug/Kg	98.07%
25) Chloroform-d	7.57	84	1289669	48.14 ug/Kg	96.29%
27) 1,2-Dichloroethane-d4	8.27	65	652570	53.29 ug/Kg	106.59%
29) 1,4-Dioxane-d8	9.60	96	47157	1244.57 ug/Kg	124.46%
35) Benzene-d6	8.31	84	1260065	52.49 ug/Kg	104.98%
39) 1,2-Dichloropropane-d6	9.38	67	623886	52.77 ug/Kg	105.54%
42) cis-1,3-Dichloropropene-d4	10.40	79	984960	49.73 ug/Kg	99.46%
44) trans-1,3-Dichloropropene-	11.16	79	589928	51.65 ug/Kg	103.30%
49) Toluene-d8	10.84	98	1095035	50.42 ug/Kg	100.85%
52) 2-Hexanone-d5	11.72	63	161866	106.93 ug/Kg	106.93%
61) 1,1,2,2-Tetrachloroethane-	14.62	84	629735	51.64 ug/Kg	103.29%
67) 1,2-Dichlorobenzene-d4	16.74	152	409549	48.37 ug/Kg	96.74%
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	4.87	43	17957	7.41 ug/Kg#	75
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.46	84	3184	0.35 ug/Kg#	54
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

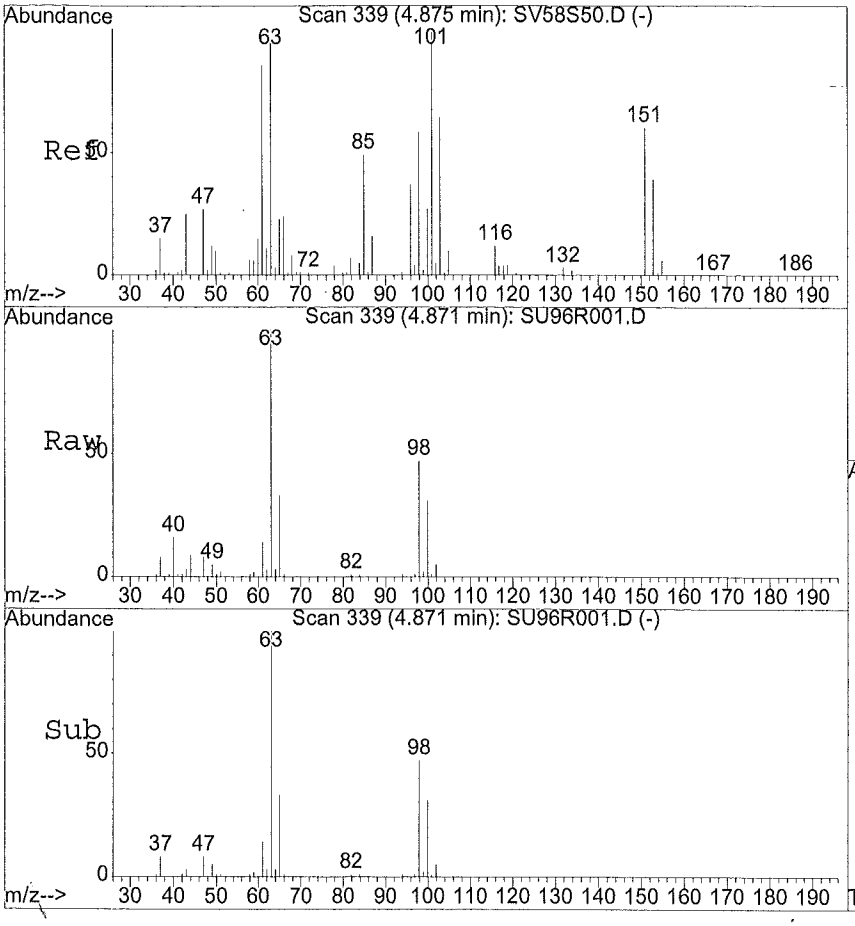
Data File : D:\HPCHEM\1\DATA\09JUN15S\SU96R001.D
Acq Time : 06/10/2015 01:24 Operator: CQC
Sample : 1515552001 F9M36 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 16 23:49 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	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	10.92	91	280633	11.94 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	13.17	106	2555	0.25 ug/Kg#	64
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	

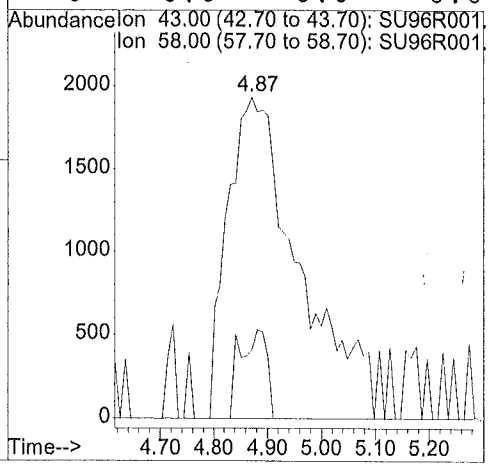
(#) = qualifier out of range (m) = manual integration

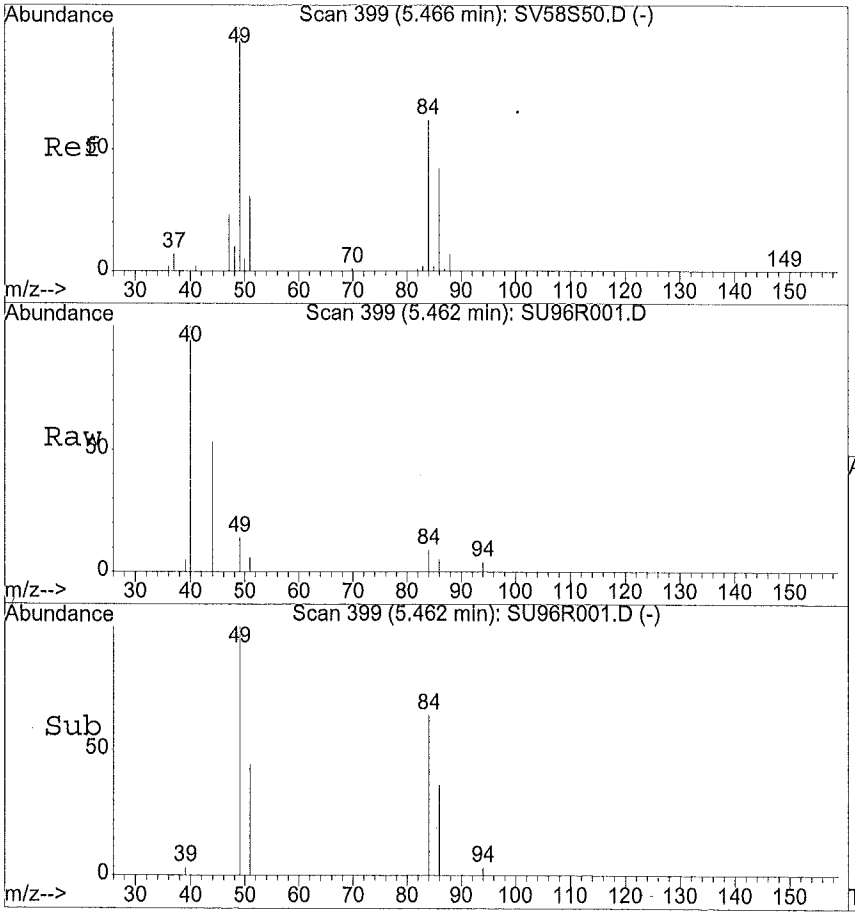


#13
Acetone
Concen: 7.41 ug/Kg
RT: 4.87 min Scan# 339
Delta R.T. -0.02 min
Lab File: SU96R001.D
Acq: 06/10/2015 01:24

Tgt Ion:43 Resp: 17957

Ion	Ratio	Lower	Upper
43	100		
58	10.0	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

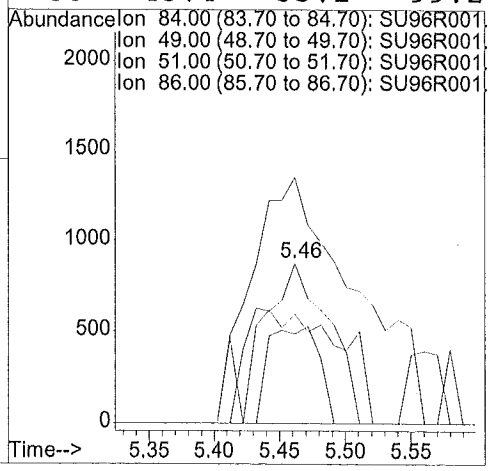


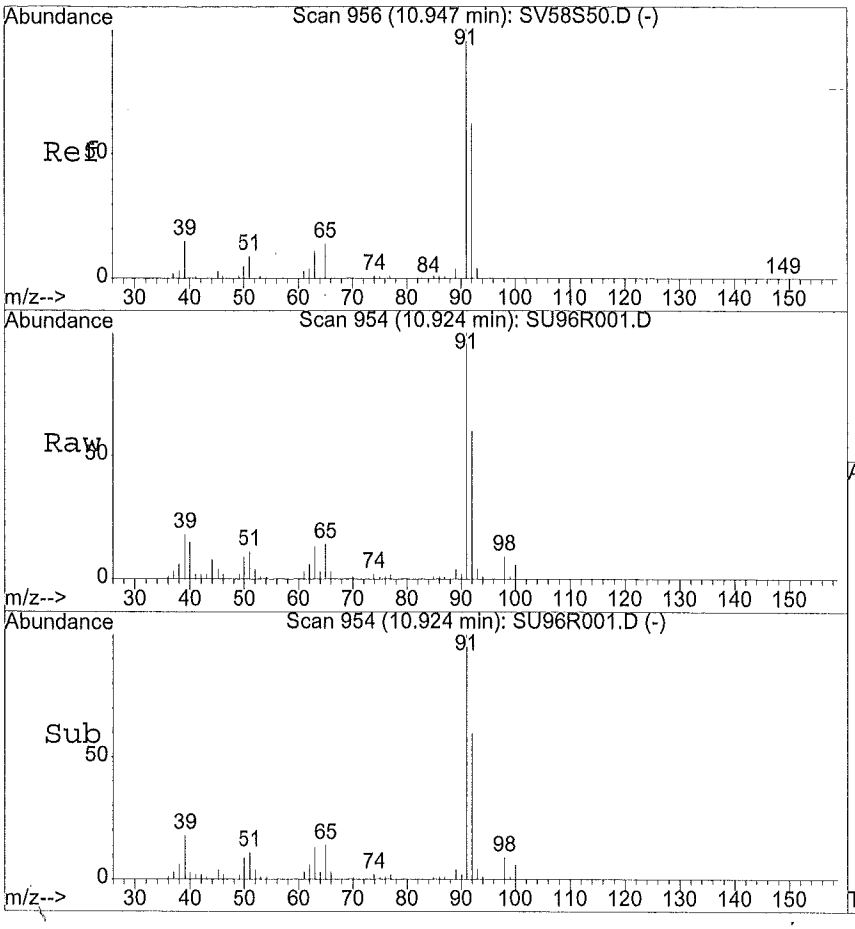


#16
Methylene chloride
Concen: 0.35 ug/Kg
RT: 5.46 min Scan# 399
Delta R.T. -0.04 min
Lab File: SU96R001.D
Acq: 06/10/2015 01:24

Tgt Ion:84 Resp: 3184

Ion	Ratio	Lower	Upper
84	100		
49	238.6	85.4	256.1
51	94.2	26.8	80.4#
86	43.4	33.1	99.2

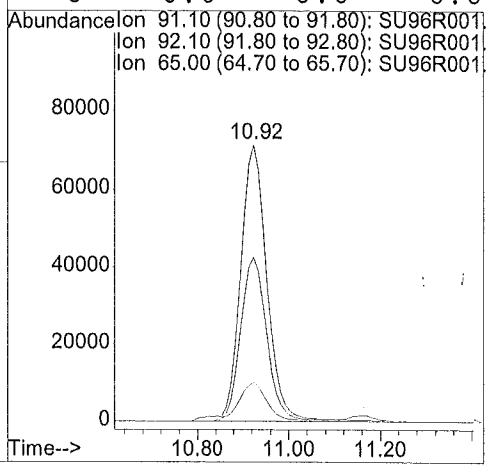


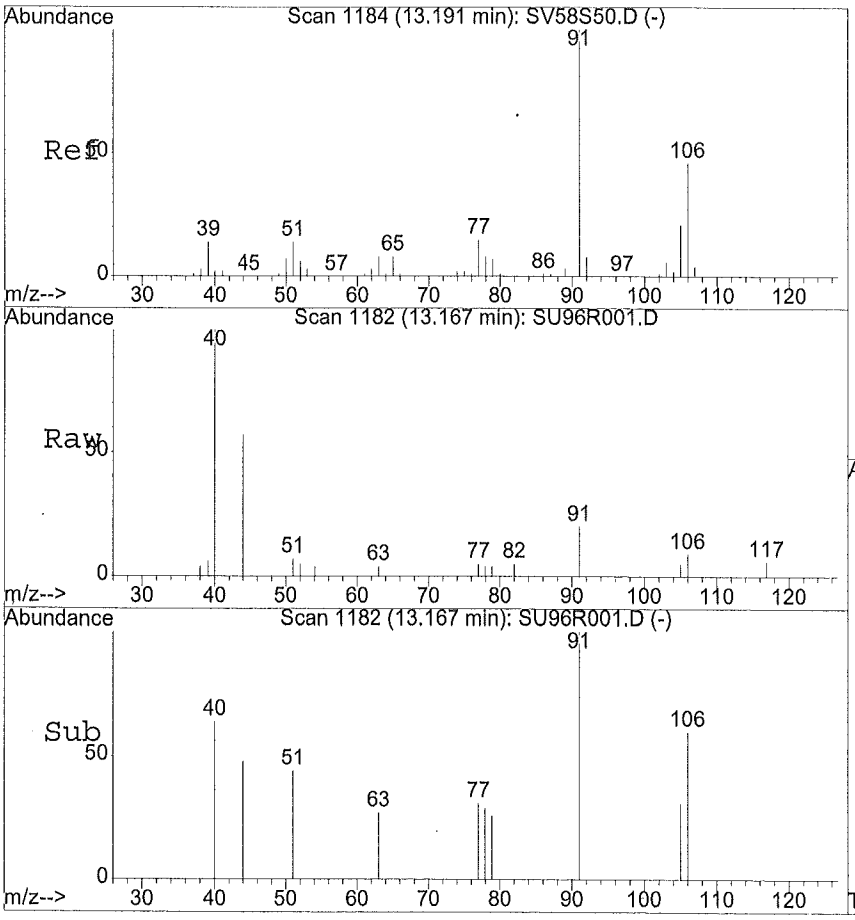


#48
Toluene
Concen: 11.94 ug/Kg
RT: 10.92 min Scan# 954
Delta R.T. -0.05 min
Lab File: SU96R001.D
Acq: 06/10/2015 01:24

Tgt Ion:91.1 Resp: 280633

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.2	72.2
65	16.2	11.7	17.5
0	0.0	0.0	0.0

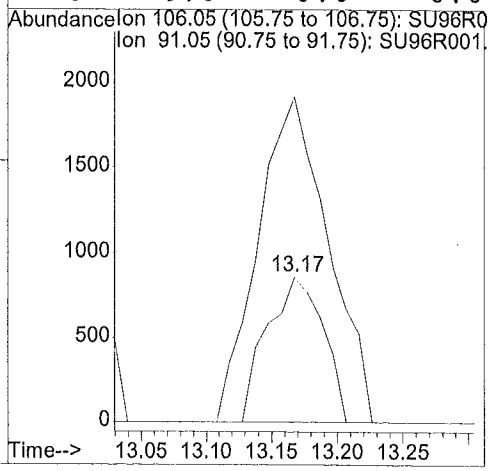




#56
m,p-Xylene
Concen: 0.25 ug/Kg
RT: 13.17 min Scan# 1182
Delta R.T. -0.05 min
Lab File: SU96R001.D
Acq: 06/10/2015 01:24

Tgt Ion:106.05 Resp: 2555

Ion	Ratio	Lower	Upper
106	100		
91	279.0	176.6	264.8#
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.

F9M42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552004

Sample wt/vol: 5.41 (g/mL) g Lab File ID: SU88C004

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

% Moisture: not dec. 16. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	39.	
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl acetate	5.5	U
75-09-2	Methylene chloride	0.38	JB
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	13.	
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
71-43-2	Benzene	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
123-91-1	1,4-Dioxane	110	U

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

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

EPA SAMPLE NO.

F9M42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552004

Sample wt/vol: 5.41 (g/mL) g Lab File ID: SU88C004

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

% Moisture: not dec. 16. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.5	U
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	6.1	
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-Xylene	5.5	U
179601-23-1	m,p-Xylene	0.24	J
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U

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

EPA SAMPLE NO.

F9M42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552004

Sample wt/vol: 5.41 (g/mL) g Lab File ID: SU88C004

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

% Moisture: not dec. 16. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (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.

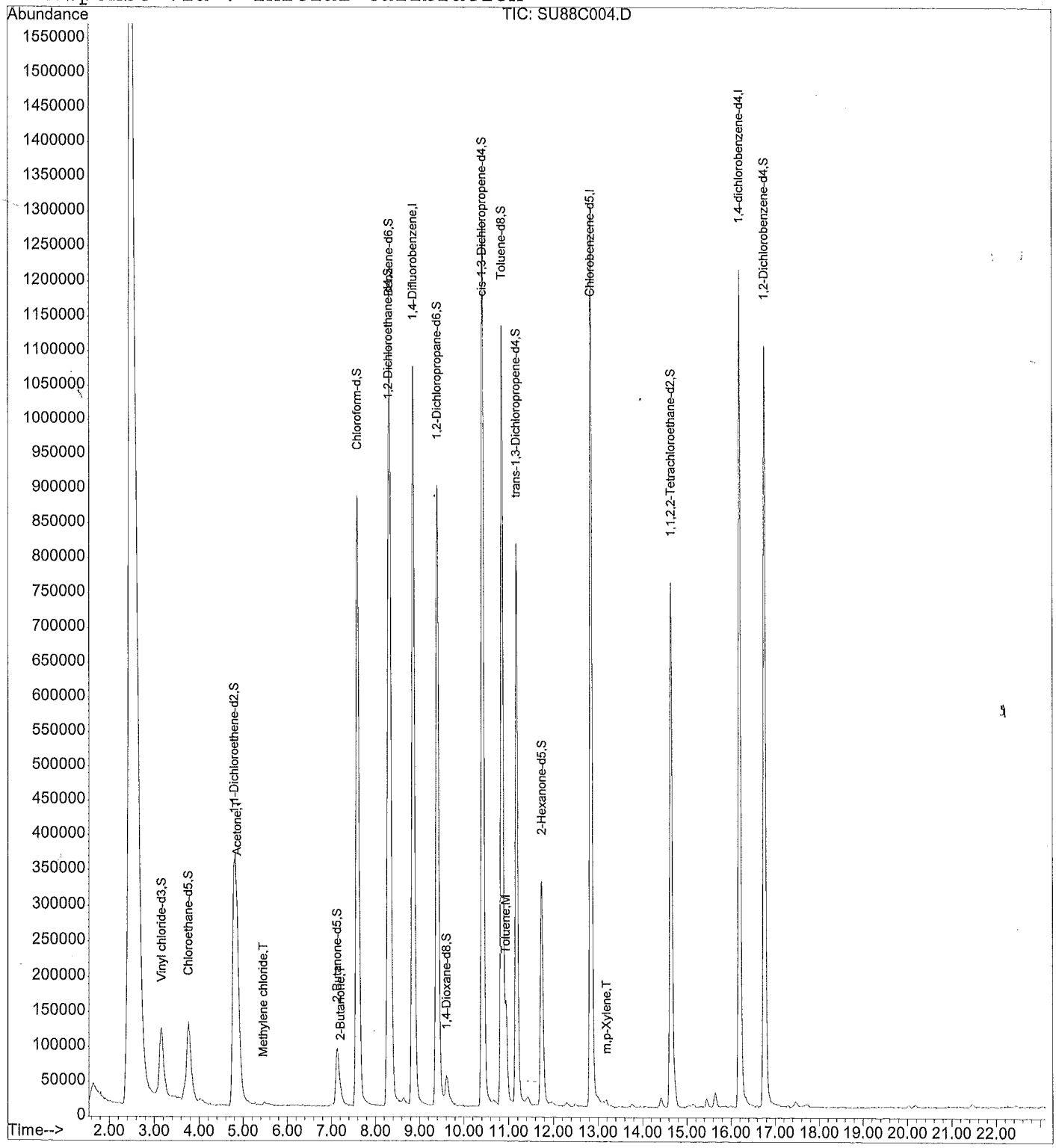
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU88C004.D
Acq Time : 06/09/2015 21:20 Operator: CQC
Sample : 1515552004 F9M42 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 10 0:44 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.10.15



00041

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU88C004.D
Acq Time : 06/09/2015 21:20 Operator: CQC
Sample : 1515552004 F9M42 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 10 0:44 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1655979	50.00 ug/Kg	125.44
30) Chlorobenzene-d5	12.85	117	1247656	50.00 ug/Kg	116.56
62) 1,4-dichlorobenzene-d4	16.19	152	558417	50.00 ug/Kg	91.78
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	3.16	65	426844	40.39 ug/Kg	80.79%
8) Chloroethane-d5	3.76	69	424764	42.25 ug/Kg	84.49%
11) 1,1-Dichloroethene-d2	4.81	63	1140832	32.74 ug/Kg	65.49%
22) 2-Butanone-d5	7.13	46	292267	101.89 ug/Kg	101.89%
25) Chloroform-d	7.59	84	1565457	45.87 ug/Kg	91.74%
27) 1,2-Dichloroethane-d4	8.29	65	775930	49.74 ug/Kg	99.47%
29) 1,4-Dioxane-d8	9.62	96	58168	1204.92 ug/Kg	120.49%
35) Benzene-d6	8.33	84	1558961	50.81 ug/Kg	101.62%
39) 1,2-Dichloropropane-d6	9.40	67	763937	50.55 ug/Kg	101.11%
42) cis-1,3-Dichloropropene-d4	10.42	79	1371254	54.16 ug/Kg	108.33%
44) trans-1,3-Dichloropropene-	11.17	79	797405	54.62 ug/Kg	109.25%
49) Toluene-d8	10.85	98	1407771	50.72 ug/Kg	101.44%
52) 2-Hexanone-d5	11.74	63	239187	123.62 ug/Kg	123.62%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	775219	49.74 ug/Kg	99.48%
67) 1,2-Dichlorobenzene-d4	16.76	152	513912	48.01 ug/Kg	96.01%
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	4.88	43	109699	35.54 ug/Kg	99
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.47	84	4006	0.35 ug/Kg#	64
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	7.22	43	43219	12.05 ug/Kg#	87
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\09JUN15S\SU88C004.D
Acq Time : 06/09/2015 21:20 Operator: CQC
Sample : 1515552004 F9M42 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

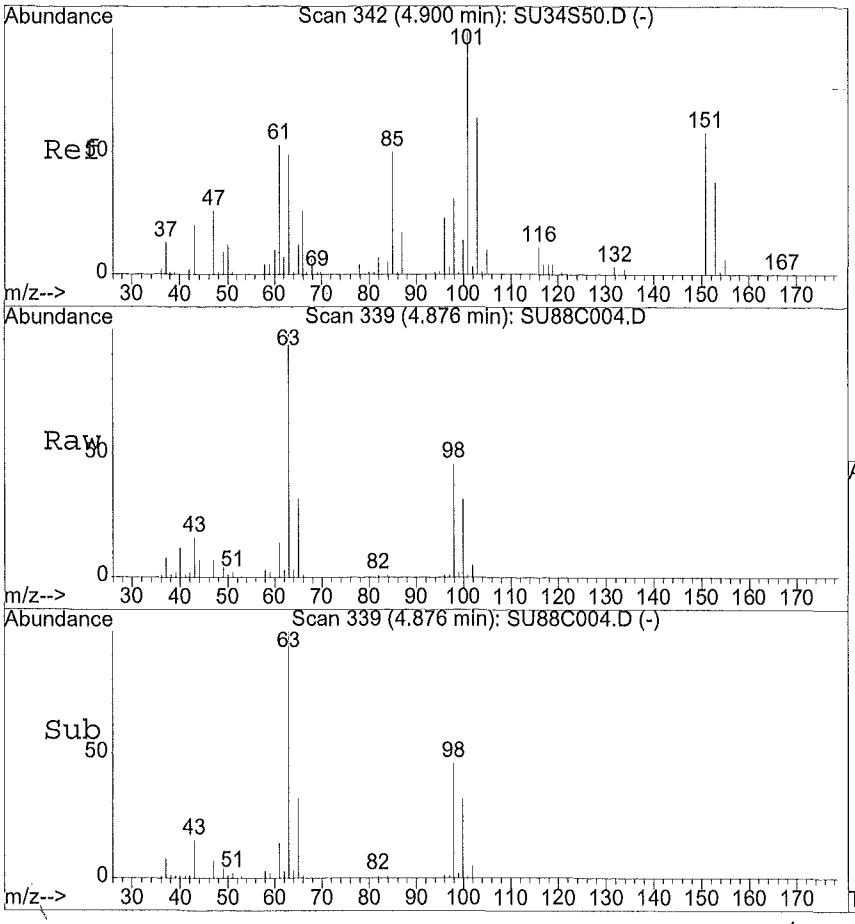
Quant Time: Jun 10 0:44 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	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	10.94	91	166225	5.53 ug/Kg#	97
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	13.19	106	2824	0.21 ug/Kg#	71
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

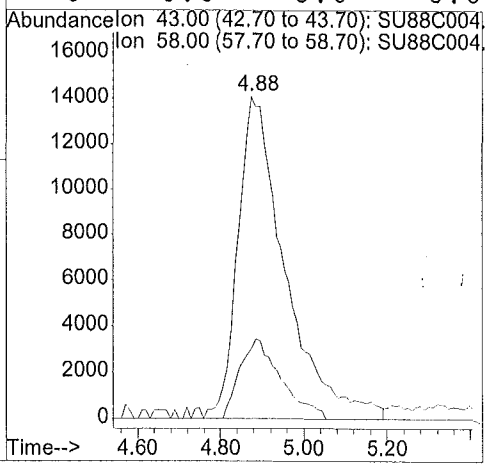
00049

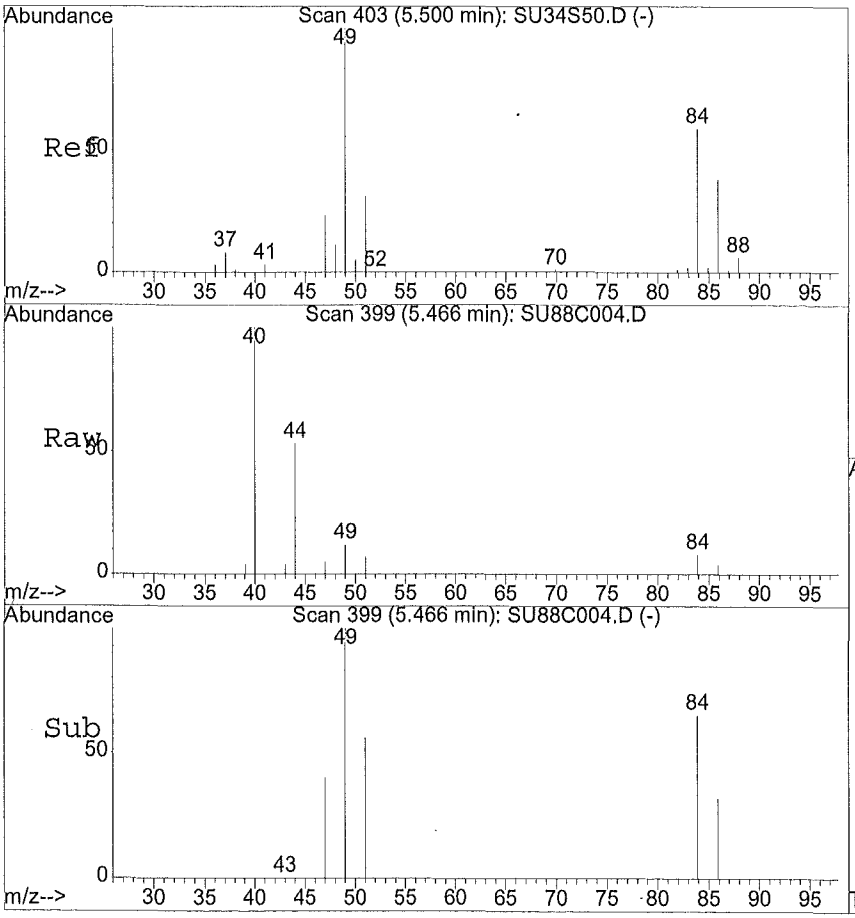


#13
Acetone
Concen: 35.54 ug/Kg
RT: 4.88 min Scan# 339
Delta R.T. -0.01 min
Lab File: SU88C004.D
Acq: 06/09/2015 21:20

Tgt Ion:43 Resp: 109699

Ion	Ratio	Lower	Upper
43	100		
58	21.4	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

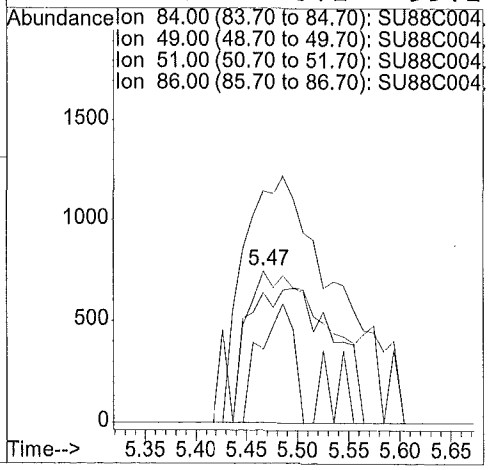


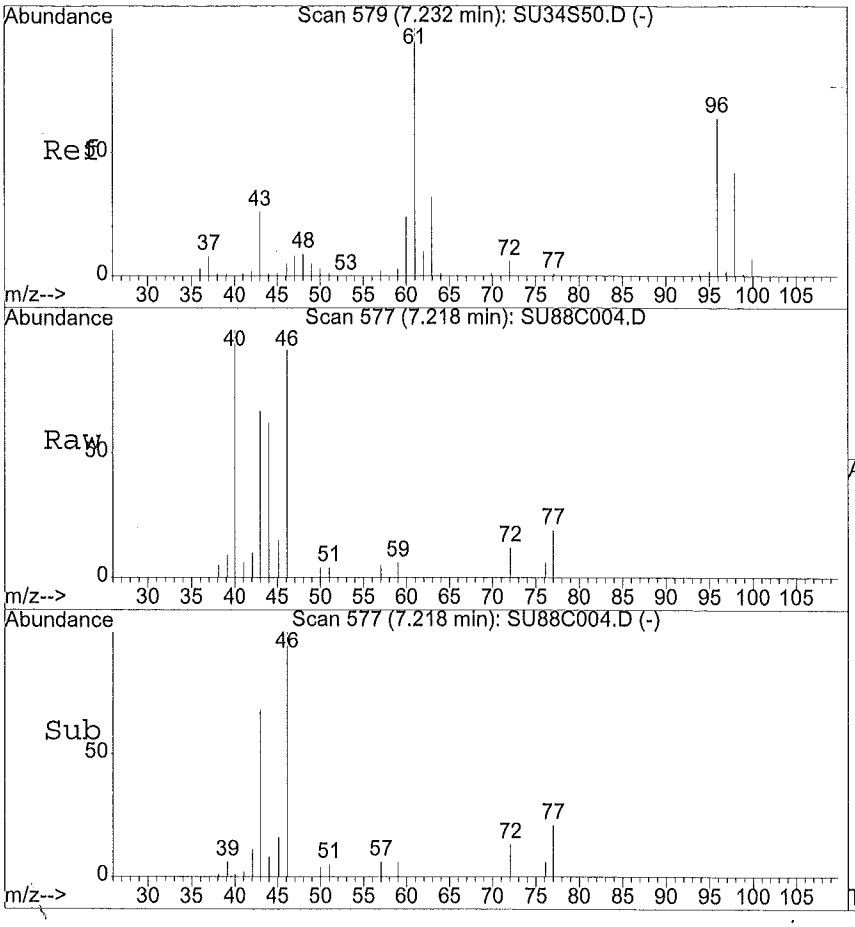


#16
Methylene chloride
Concen: 0.35 ug/Kg
RT: 5.47 min Scan# 399
Delta R.T. -0.03 min
Lab File: SU88C004.D
Acq: 06/09/2015 21:20

Tgt Ion:84 Resp: 4006

Ion	Ratio	Lower	Upper
84	100		
49	193.2	85.4	256.1
51	119.4	26.8	80.4#
86	33.6	33.1	99.2

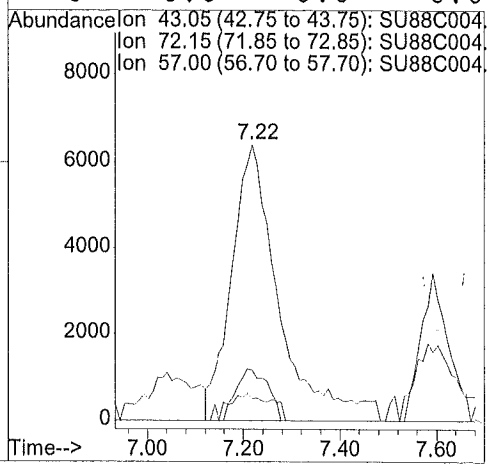


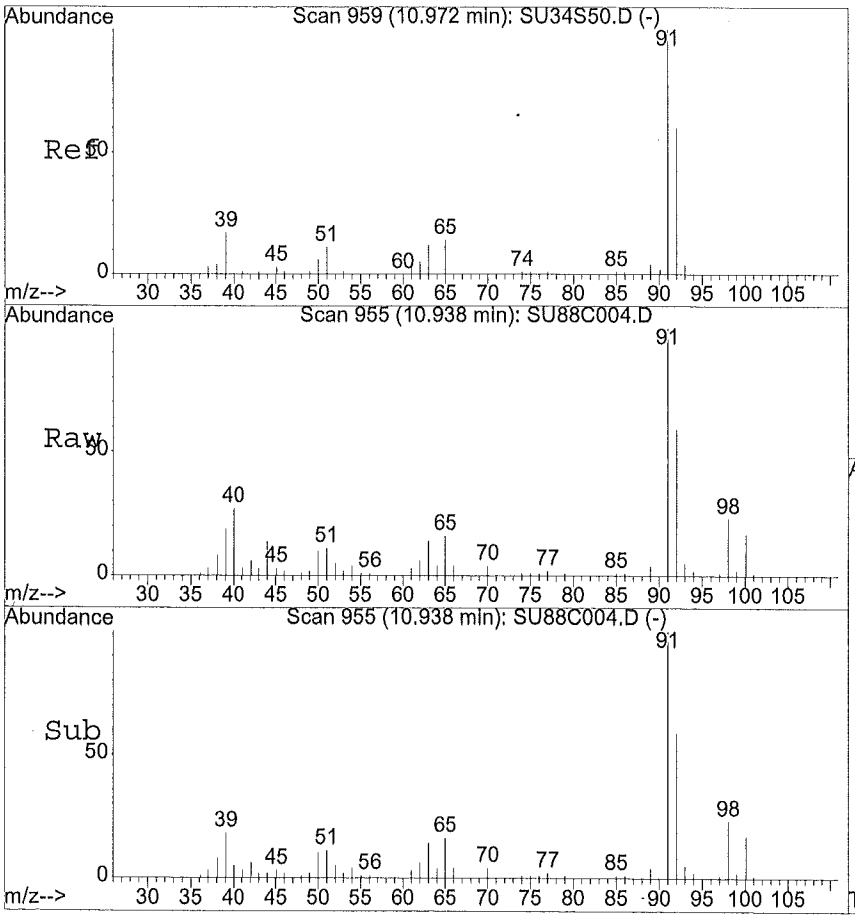


#21
2-Butanone
Concen: 12.05 ug/Kg
RT: 7.22 min Scan# 577
Delta R.T. -0.01 min
Lab File: SU88C004.D
Acq: 06/09/2015 21:20

Tgt Ion:43.05 Resp: 43219

Ion	Ratio	Lower	Upper
43	100		
72	12.8	15.9	23.9#
57	8.3	5.1	7.7#
0	0.0	0.0	0.0

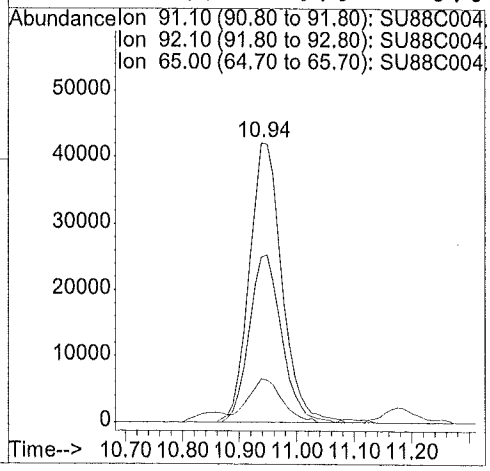


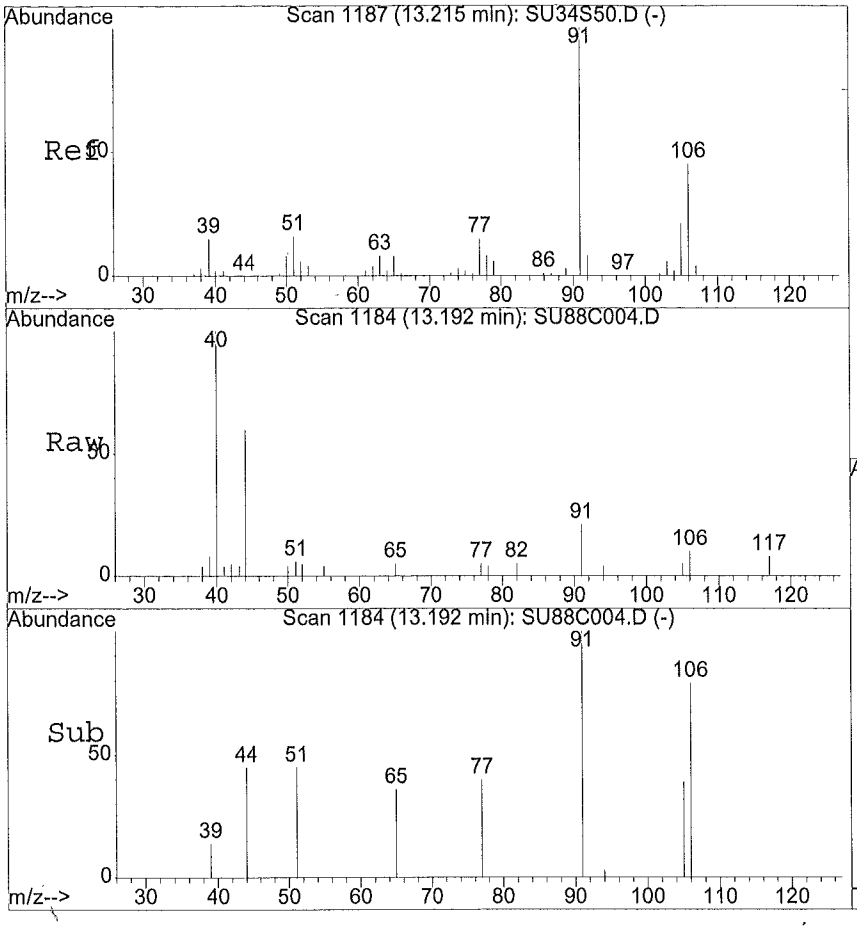


#48
Toluene
Concen: 5.53 ug/Kg
RT: 10.94 min Scan# 955
Delta R.T. -0.03 min
Lab File: SU88C004.D
Acq: 06/09/2015 21:20

Tgt Ion:91.1 Resp: 166225

Ion	Ratio	Lower	Upper
91	100		
92	59.2	48.2	72.2
65	19.5	11.7	17.5#
0	0.0	0.0	0.0

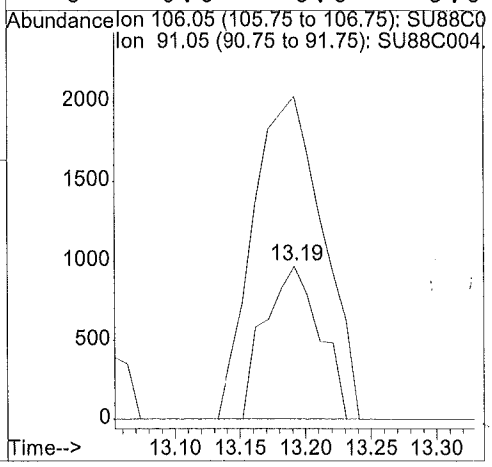




#56
m,p-Xylene
Concen: 0.21 ug/Kg
RT: 13.19 min Scan# 1184
Delta R.T. -0.02 min
Lab File: SU88C004.D
Acq: 06/09/2015 21:20

Tgt Ion:106.05 Resp: 2824

Ion	Ratio	Lower	Upper
106	100		
91	267.4	176.6	264.8#
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.

F9M43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552005

Sample wt/vol: 5.44 (g/mL) g Lab File ID: SU89C005

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

% Moisture: not dec. 15. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
67-64-1	Acetone	19.	
75-15-0	Carbon disulfide	5.4	U
79-20-9	Methyl acetate	5.4	U
75-09-2	Methylene chloride	0.40	JB
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
110-82-7	Cyclohexane	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
71-43-2	Benzene	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
123-91-1	1,4-Dioxane	110	U

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

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

EPA SAMPLE NO.

F9M43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552005

Sample wt/vol: 5.44 (g/mL) g Lab File ID: SU89C005

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

% Moisture: not dec. 15. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.4	U
108-87-2	Methylcyclohexane	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	1.5	J
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
100-41-4	Ethylbenzene	5.4	U
95-47-6	o-Xylene	5.4	U
179601-23-1	m,p-Xylene	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U

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

EPA SAMPLE NO.

F9M43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552005

Sample wt/vol: 5.44 (g/mL) g Lab File ID: SU89C005

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

% Moisture: not dec. 15. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (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.

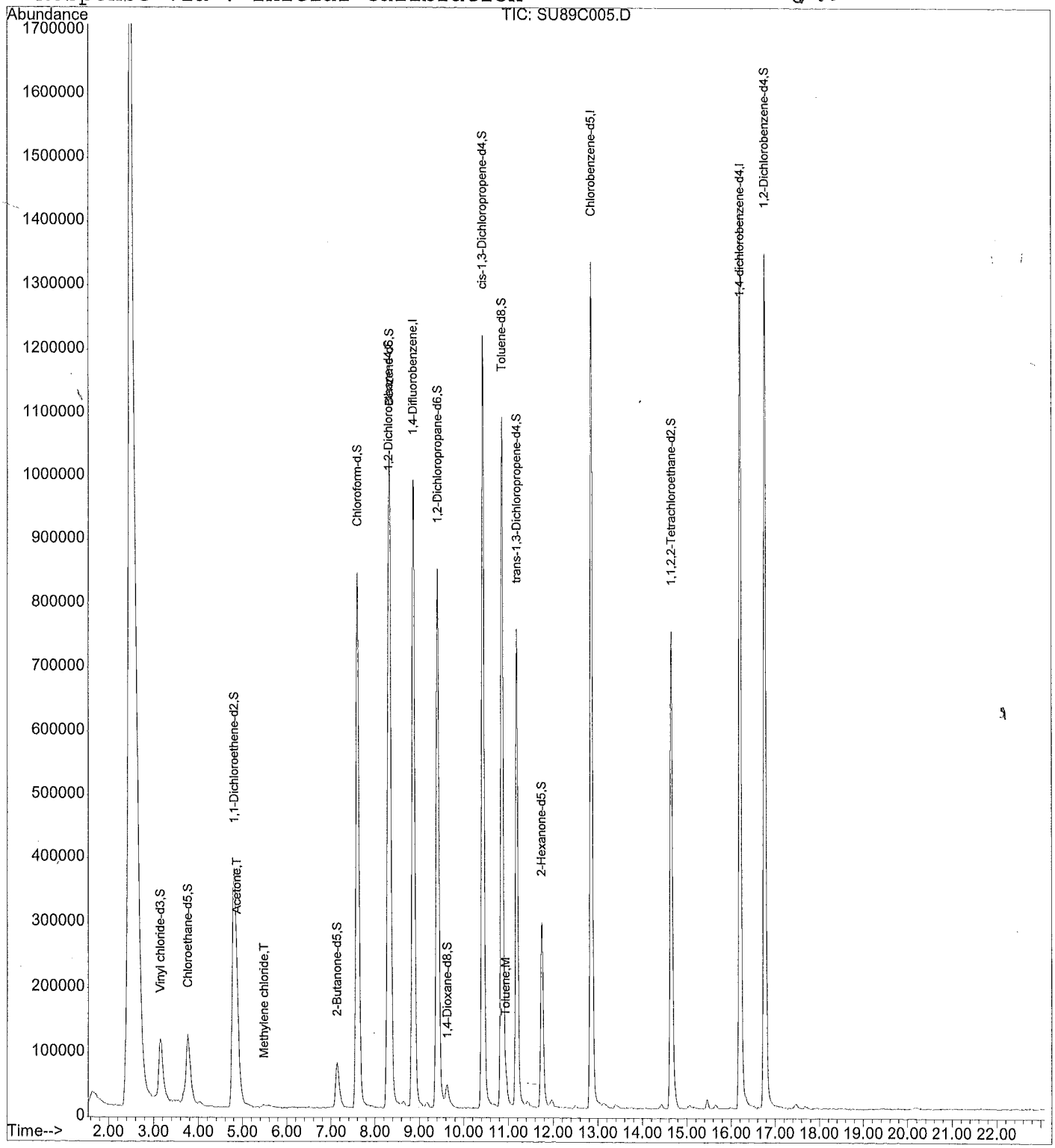
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU89C005.D
Acq Time : 06/09/2015 21:51 Operator: CQC
Sample : 1515552005 F9M43 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 10 0:44 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.10.15



00059

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU89C005.D
Acq Time : 06/09/2015 21:51 Operator: CQC
Sample : 1515552005 F9M43 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 10 0:44 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.87	114	1550522	50.00 ug/Kg	117.45
30) Chlorobenzene-d5	12.84	117	1244760	50.00 ug/Kg	116.29
62) 1,4-dichlorobenzene-d4	16.20	152	651825	50.00 ug/Kg	107.14
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.15	65	410708	41.51 ug/Kg	83.02%
8) Chloroethane-d5	3.76	69	401748	42.67 ug/Kg	85.35%
11) 1,1-Dichloroethene-d2	4.80	63	1088008	33.35 ug/Kg	66.70%
22) 2-Butanone-d5	7.14	46	253869	94.53 ug/Kg	94.53%
25) Chloroform-d	7.60	84	1478925	46.28 ug/Kg	92.56%
27) 1,2-Dichloroethane-d4	8.30	65	718043	49.16 ug/Kg	98.31%
29) 1,4-Dioxane-d8	9.63	96	48503	1073.05 ug/Kg	107.30%
35) Benzene-d6	8.34	84	1473887	48.15 ug/Kg	96.30%
39) 1,2-Dichloropropane-d6	9.41	67	715400	47.45 ug/Kg	94.90%
42) cis-1,3-Dichloropropene-d4	10.42	79	1288417	51.01 ug/Kg	102.02%
44) trans-1,3-Dichloropropene-	11.18	79	755933	51.90 ug/Kg	103.81%
49) Toluene-d8	10.86	98	1358750	49.07 ug/Kg	98.13%
52) 2-Hexanone-d5	11.74	63	209620	108.59 ug/Kg	108.59%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	773070	49.72 ug/Kg	99.44%
67) 1,2-Dichlorobenzene-d4	16.76	152	614301	49.16 ug/Kg	98.32%
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	4.88	43	49908	17.27 ug/Kg	98
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.47	84	4003	0.37 ug/Kg#	69
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

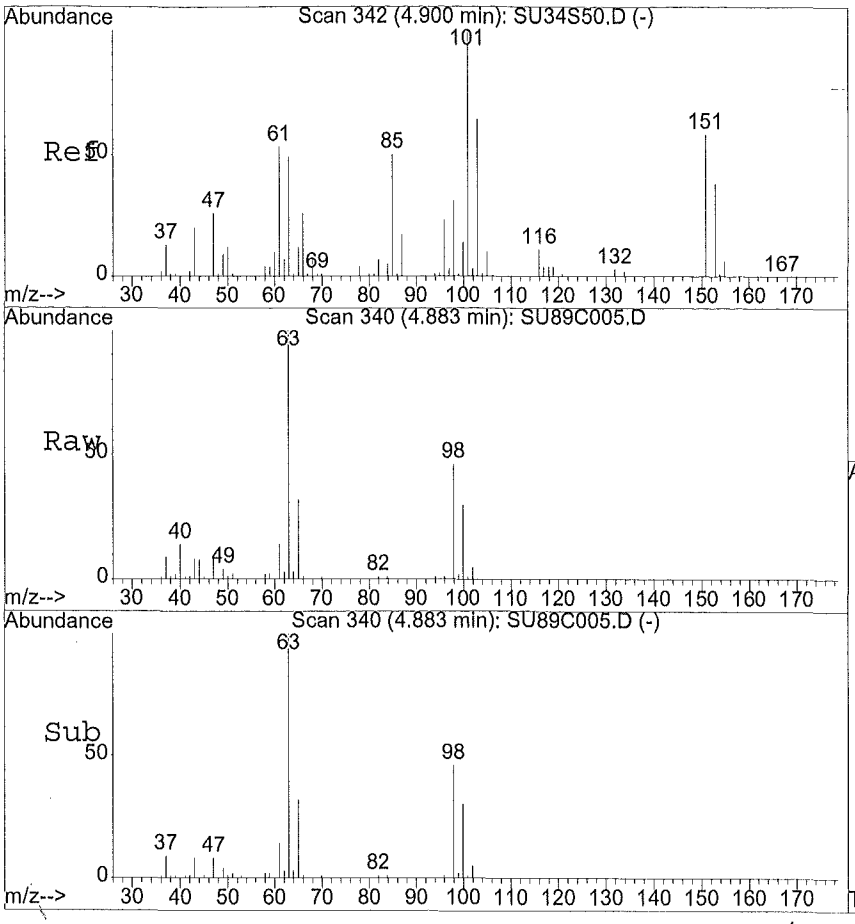
Data File : D:\HPCHEM\1\DATA\09JUN15S\SU89C005.D
Acq Time : 06/09/2015 21:51 Operator: CQC
Sample : 1515552005 F9M43 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 10 0:44 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	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	10.95	91	41312	1.38 ug/Kg#	97
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	

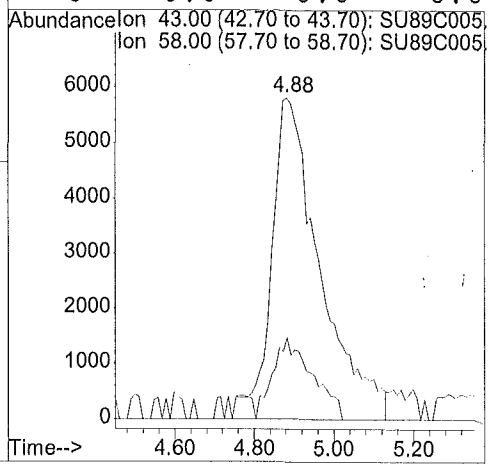
(#) = qualifier out of range (m) = manual integration

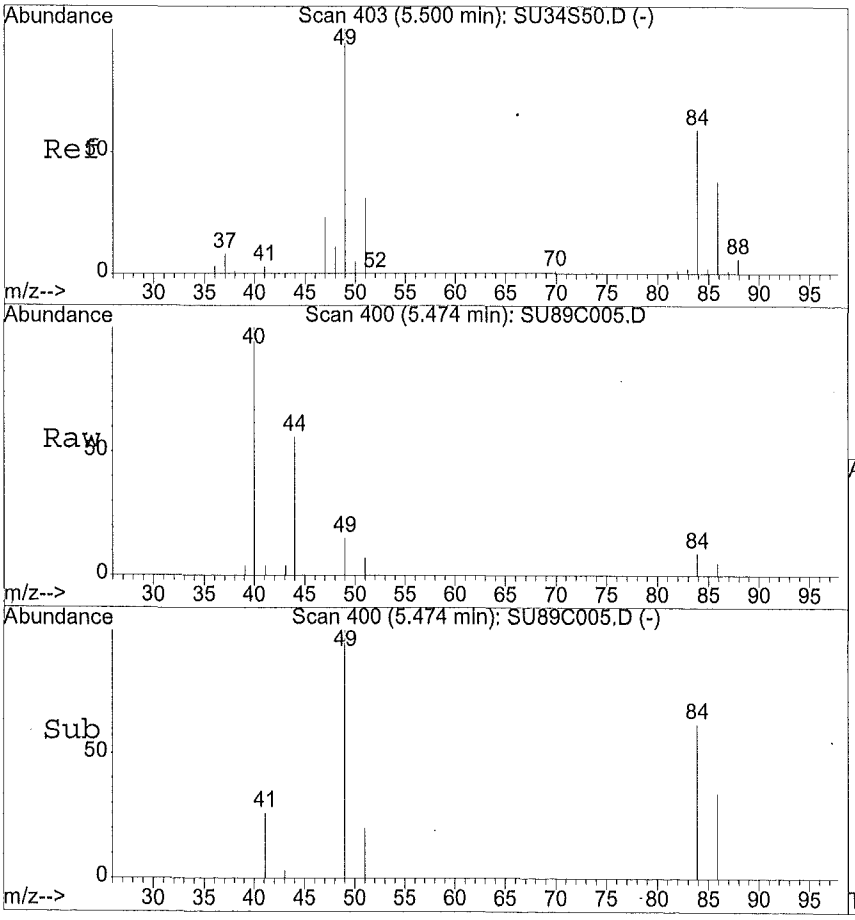


#13
Acetone
Concen: 17.27 ug/Kg
RT: 4.88 min Scan# 340
Delta R.T. -0.01 min
Lab File: SU89C005.D
Acq: 06/09/2015 21:51

Tgt Ion:43 Resp: 49908

Ion	Ratio	Lower	Upper
43	100		
58	22.7	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

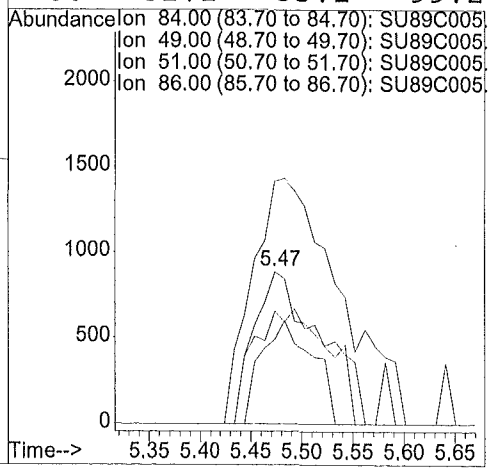


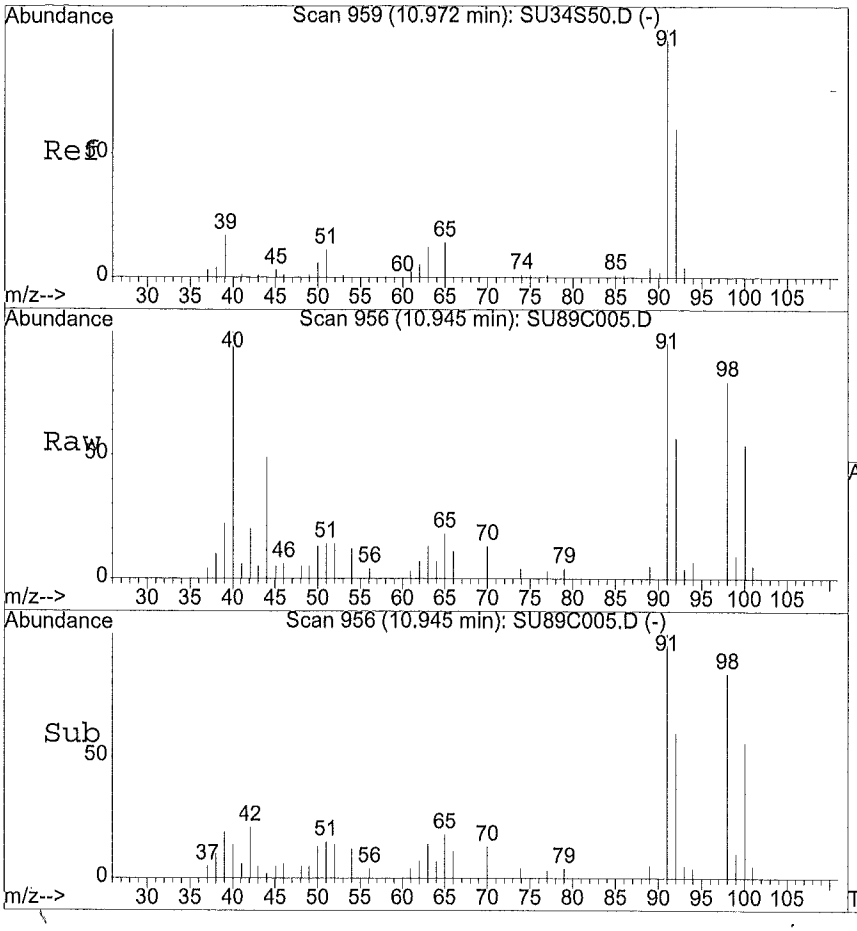


#16
Methylene chloride
Concen: 0.37 ug/Kg
RT: 5.47 min Scan# 400
Delta R.T. -0.03 min
Lab File: SU89C005.D
Acq: 06/09/2015 21:51

Tgt Ion:84 Resp: 4003

Ion	Ratio	Lower	Upper
84	100		
49	212.1	85.4	256.1
51	89.2	26.8	80.4#
86	52.1	33.1	99.2

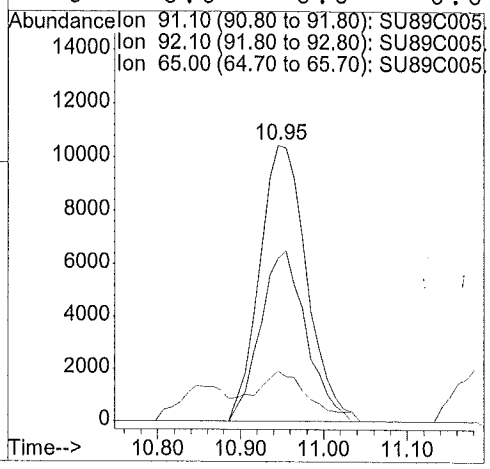




#48
Toluene
Concen: 1.38 ug/Kg
RT: 10.95 min Scan# 956
Delta R.T. -0.03 min
Lab File: SU89C005.D
Acq: 06/09/2015 21:51

Tgt Ion:91.1 Resp: 41312

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.2
65	20.7	11.7	17.5#
0	0.0	0.0	0.0



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

EPA SAMPLE NO.

F9M44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552006

Sample wt/vol: 6.17 (g/mL) g Lab File ID: SU97R006

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

% Moisture: not dec. 18. Date Analyzed: 06/10/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	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	29.	
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.45	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	13.	
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	99.	U

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

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

EPA SAMPLE NO.

F9M44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552006

Sample wt/vol: 6.17 (g/mL) g Lab File ID: SU97R006

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

% Moisture: not dec. 18. Date Analyzed: 06/10/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	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	9.9	U
108-88-3	Toluene	4.9	J
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	9.9	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	0.20	J
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.

F9M44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552006

Sample wt/vol: 6.17 (g/mL) g Lab File ID: SU97R006

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

% Moisture: not dec. 18. Date Analyzed: 06/10/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (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.

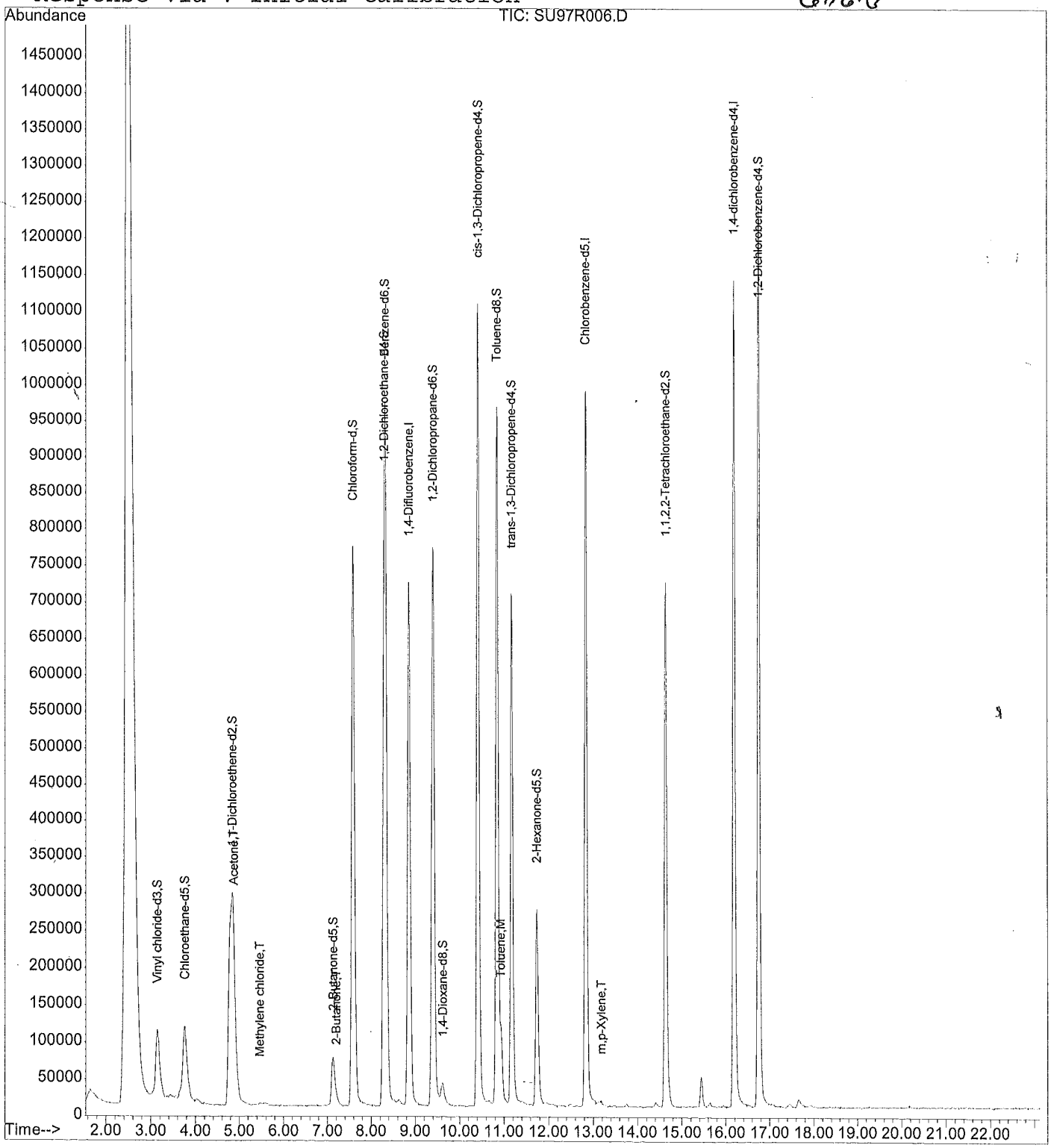
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU97R006.D
Acq Time : 06/10/2015 01:55 Operator: CQC
Sample : 1515552006 F9M44 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 16 23:50 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 16 17:27:26 2015
Response via : Initial Calibration

6/16/15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU97R006.D
Acq Time : 06/10/2015 01:55 Operator: CQC
Sample : 1515552006 F9M44 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 16 23:50 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.85	114	1098343	50.00 ug/Kg	83.20
30) Chlorobenzene-d5	12.84	117	928278	50.00 ug/Kg	86.72
62) 1,4-dichlorobenzene-d4	16.18	152	523643	50.00 ug/Kg	86.07
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	3.14	65	377013	53.79 ug/Kg	107.58%
8) Chloroethane-d5	3.75	69	373422	55.99 ug/Kg	111.99%
11) 1,1-Dichloroethene-d2	4.85	63	991164	42.89 ug/Kg	85.78%
22) 2-Butanone-d5	7.13	46	233215	122.58 ug/Kg	122.58%
25) Chloroform-d	7.58	84	1360934	60.12 ug/Kg	120.24%
27) 1,2-Dichloroethane-d4	8.28	65	682231	65.93 ug/Kg	131.87%#
29) 1,4-Dioxane-d8	9.61	96	46502	1452.32 ug/Kg	145.23%
35) Benzene-d6	8.32	84	1350738	59.17 ug/Kg	118.34%
39) 1,2-Dichloropropane-d6	9.39	67	655675	58.32 ug/Kg	116.63%
42) cis-1,3-Dichloropropene-d4	10.42	79	1163392	61.76 ug/Kg	123.53%
44) trans-1,3-Dichloropropene-	11.17	79	691842	63.70 ug/Kg	127.40%#
49) Toluene-d8	10.85	98	1203198	58.26 ug/Kg	116.52%
52) 2-Hexanone-d5	11.74	63	192232	133.54 ug/Kg	133.54%
61) 1,1,2,2-Tetrachloroethane-	14.64	84	732089	63.13 ug/Kg	126.27%#
67) 1,2-Dichlorobenzene-d4	16.74	152	564032	56.19 ug/Kg	112.38%
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	4.89	43	59337	28.98 ug/Kg	96
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.47	84	3468	0.45 ug/Kg#	56
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	7.21	43	30062	12.64 ug/Kg#	78
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

Quantitation Report

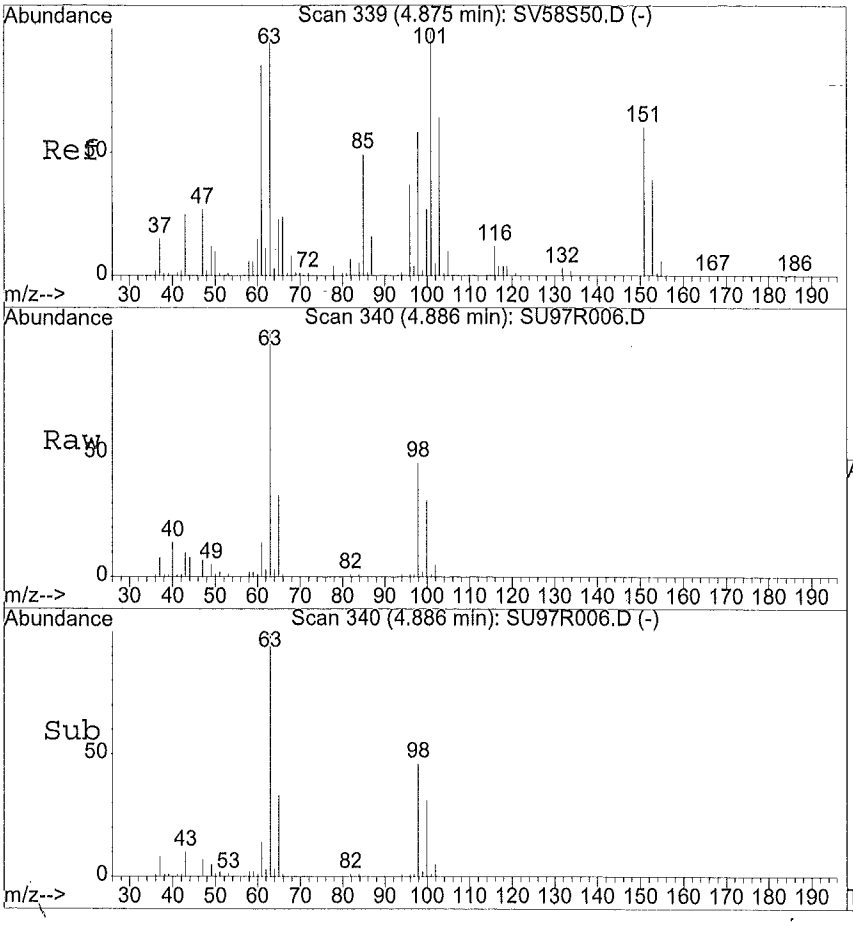
Data File : D:\HPCHEM\1\DATA\09JUN15S\SU97R006.D
Acq Time : 06/10/2015 01:55 Operator: CQC
Sample : 1515552006 F9M44 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 16 23:50 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	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	10.94	91	110527	4.94 ug/Kg#	97
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	13.18	106	1997	0.20 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	

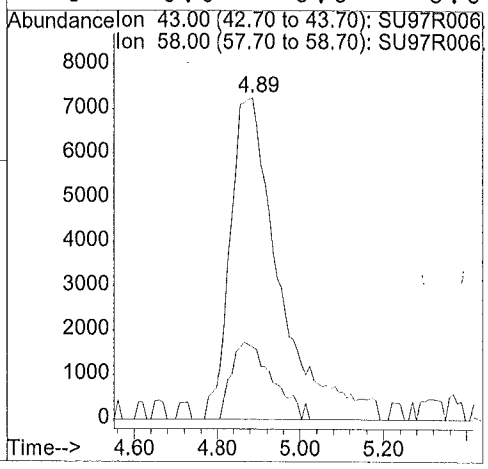
(#) = qualifier out of range (m) = manual integration

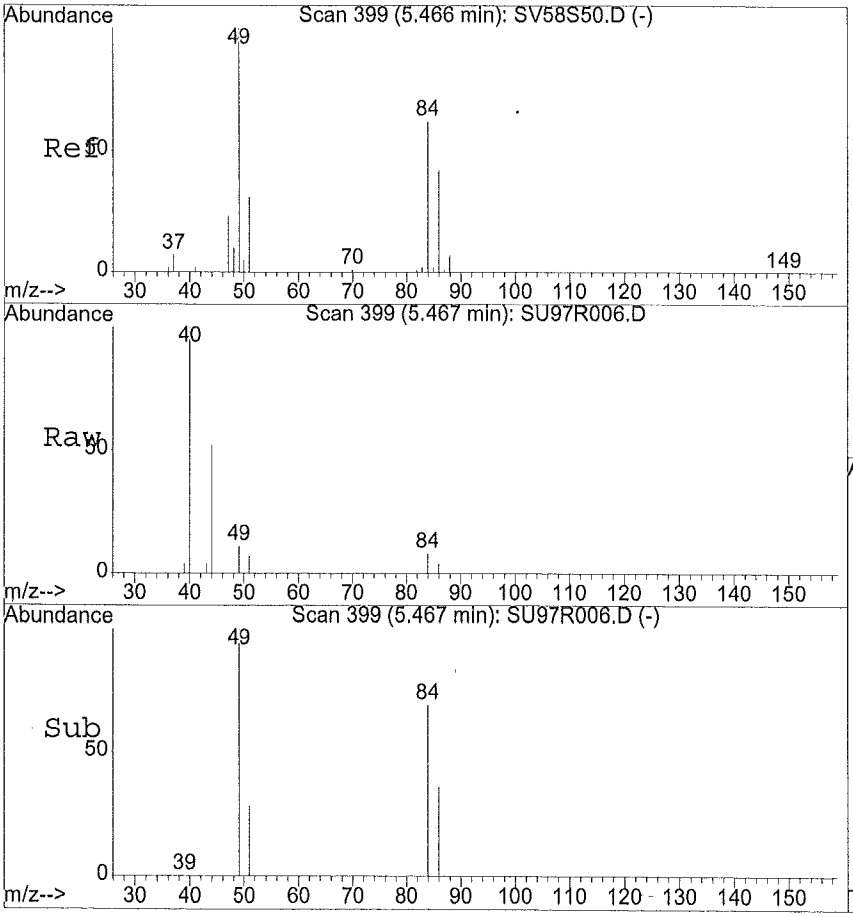


#13
Acetone
Concen: 28.98 ug/Kg
RT: 4.89 min Scan# 340
Delta R.T. -0.00 min
Lab File: SU97R006.D
Acq: 06/10/2015 01:55

Tgt Ion:43 Resp: 59337

Ion	Ratio	Lower	Upper
43	100		
58	20.0	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

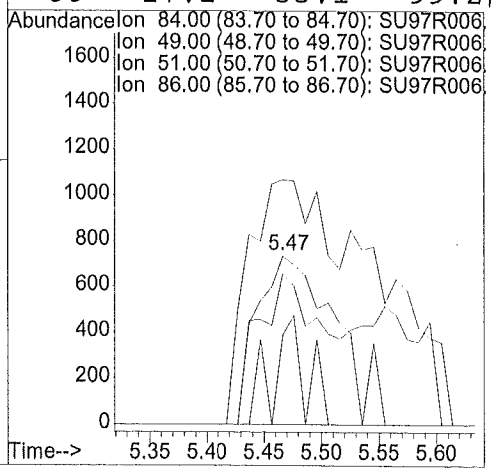


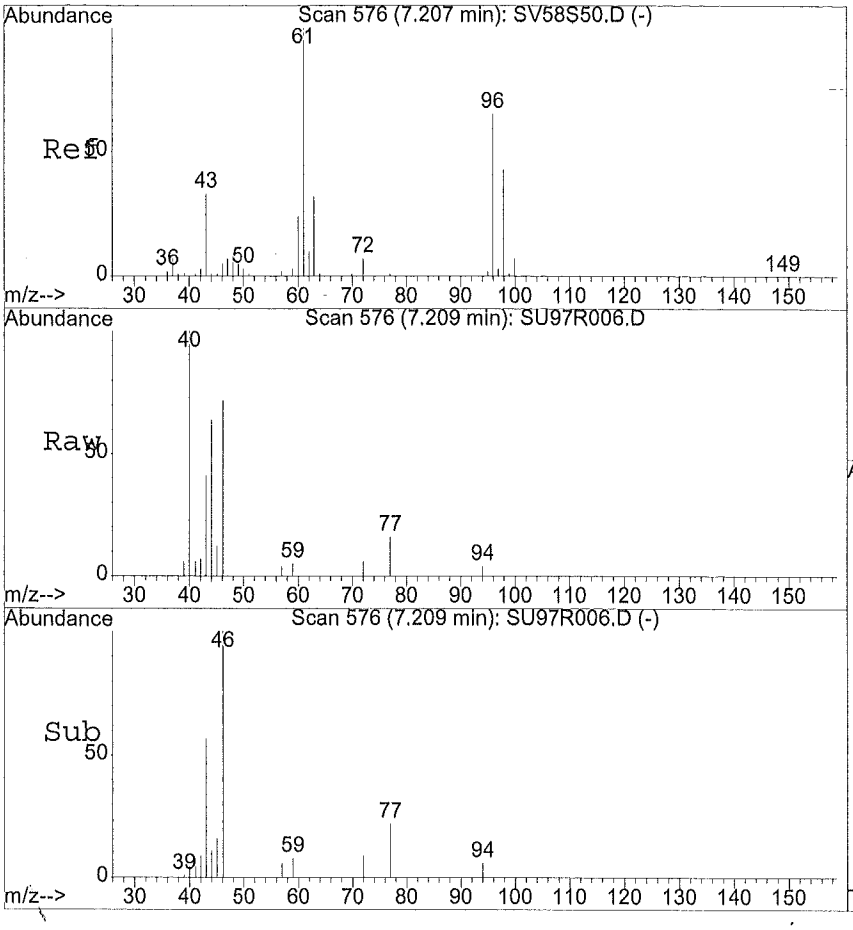


#16
Methylene chloride
Concen: 0.45 ug/Kg
RT: 5.47 min Scan# 399
Delta R.T. -0.03 min
Lab File: SU97R006.D
Acq: 06/10/2015 01:55

Tgt Ion:84 Resp: 3468

Ion	Ratio	Lower	Upper
84	100		
49	236.5	85.4	256.1
51	72.4	26.8	80.4
86	27.2	33.1	99.2#

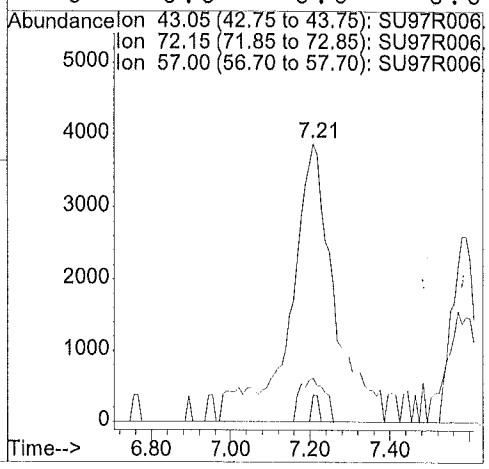


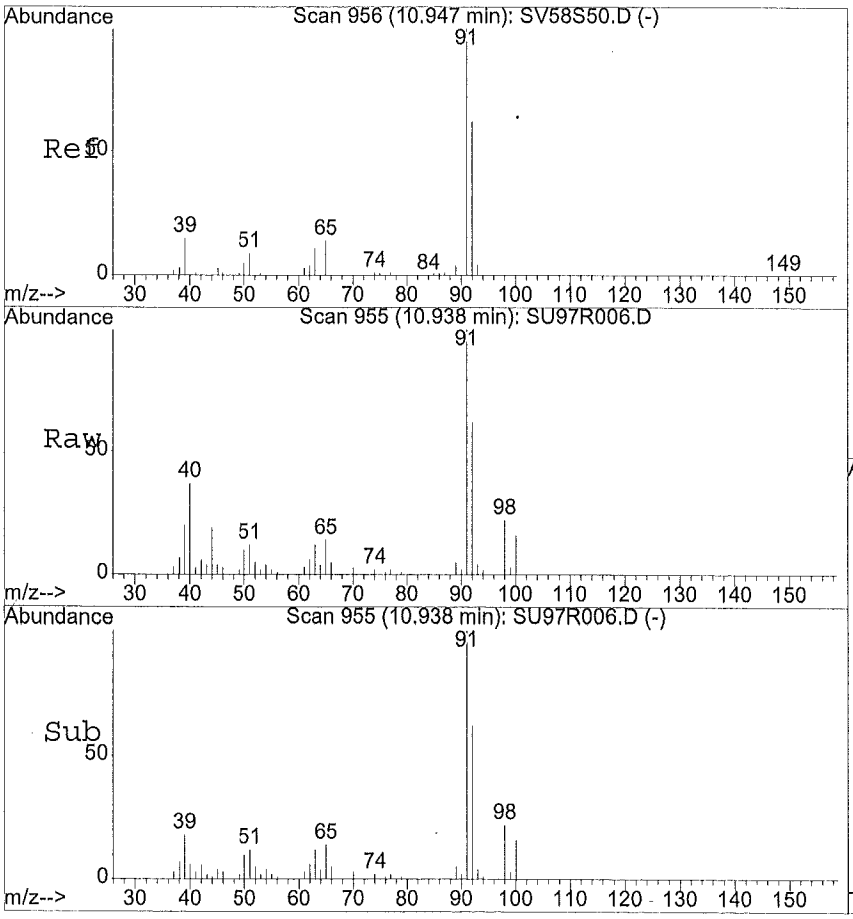


#21
2-Butanone
Concen: 12.64 ug/Kg
RT: 7.21 min Scan# 576
Delta R.T. -0.02 min
Lab File: SU97R006.D
Acq: 06/10/2015 01:55

Tgt Ion:43.05 Resp: 30062

Ion	Ratio	Lower	Upper
43	100		
72	8.6	15.9	23.9#
57	1.5	5.1	7.7#
0	0.0	0.0	0.0

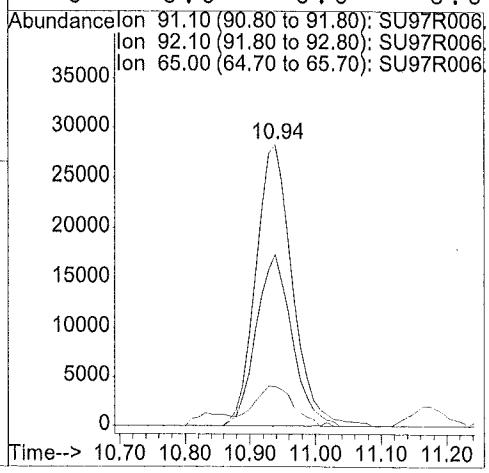


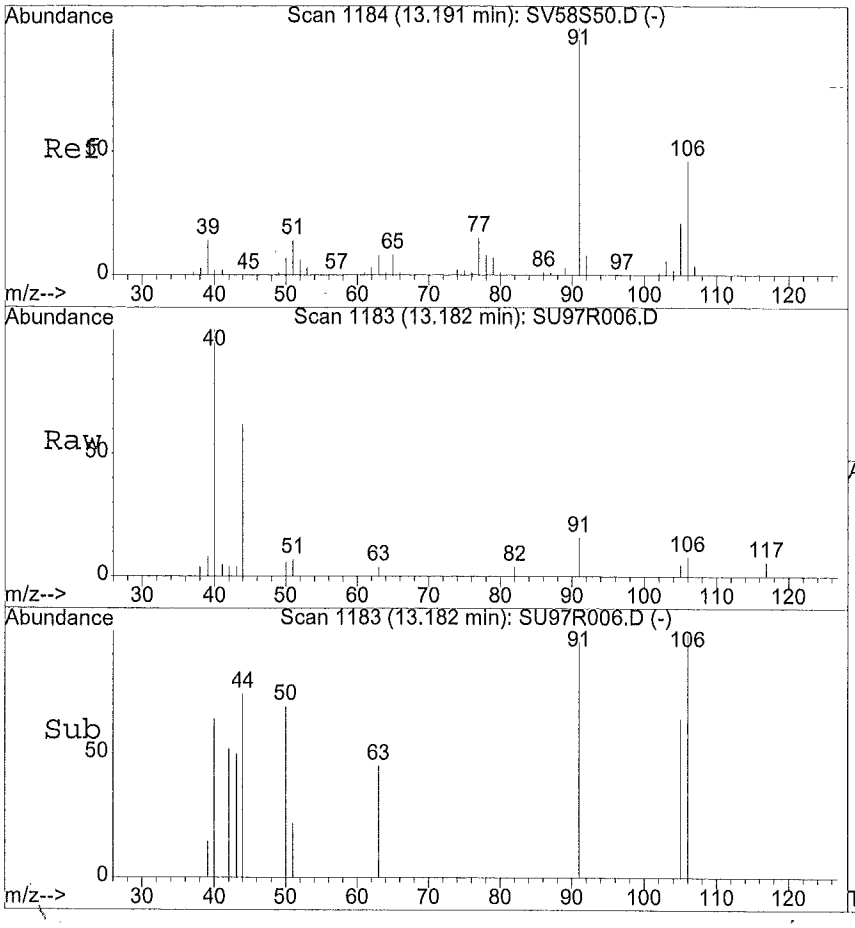


#48
Toluene
Concen: 4.94 ug/Kg
RT: 10.94 min Scan# 955
Delta R.T. -0.03 min
Lab File: SU97R006.D
Acq: 06/10/2015 01:55

Tgt Ion:91.1 Resp: 110527

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.2
65	20.0	11.7	17.5#
0	0.0	0.0	0.0

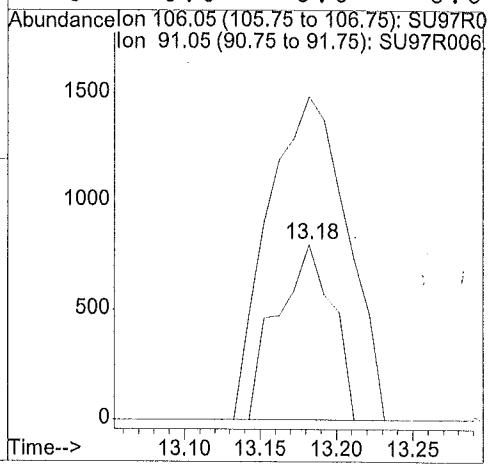




#56
m,p-Xylene
Concen: 0.20 ug/Kg
RT: 13.18 min Scan# 1183
Delta R.T. -0.03 min
Lab File: SU97R006.D
Acq: 06/10/2015 01:55

Tgt Ion:106.05 Resp: 1997

Ion	Ratio	Lower	Upper
106	100		
91	265.4	176.6	264.8#
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.

F9M45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552007

Sample wt/vol: 5.60 (g/mL) g Lab File ID: SU91C007

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

% Moisture: not dec. 16. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U
67-64-1	Acetone	14.	
75-15-0	Carbon disulfide	5.3	U
79-20-9	Methyl acetate	5.3	U
75-09-2	Methylene chloride	0.26	JB
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
78-93-3	2-Butanone	19.	
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
110-82-7	Cyclohexane	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
71-43-2	Benzene	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
123-91-1	1,4-Dioxane	110	U

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

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

EPA SAMPLE NO.

F9M45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552007

Sample wt/vol: 5.60 (g/mL) g Lab File ID: SU91C007

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

% Moisture: not dec. 16. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.3	U
108-87-2	Methylcyclohexane	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	9.5	
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
100-41-4	Ethylbenzene	5.3	U
95-47-6	o-Xylene	5.3	U
179601-23-1	m,p-Xylene	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U

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

EPA SAMPLE NO.

F9M45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552007

Sample wt/vol: 5.60 (g/mL) g Lab File ID: SU91C007

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

% Moisture: not dec. 16. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	508-32-7	Tricyclo[2.2.1.0(2,6)]heptane, 1,7,7-trimethyl-	14.09	9.4	JN
02	7785-70-8	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	14.29	44.	JN
03	99-84-3	Cyclohexene, 4-methylene-1-(1-methylethyl)-	15.26	7.6	JN
04	5989-27-5	D-Limonene	16.10	9.0	JN
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.

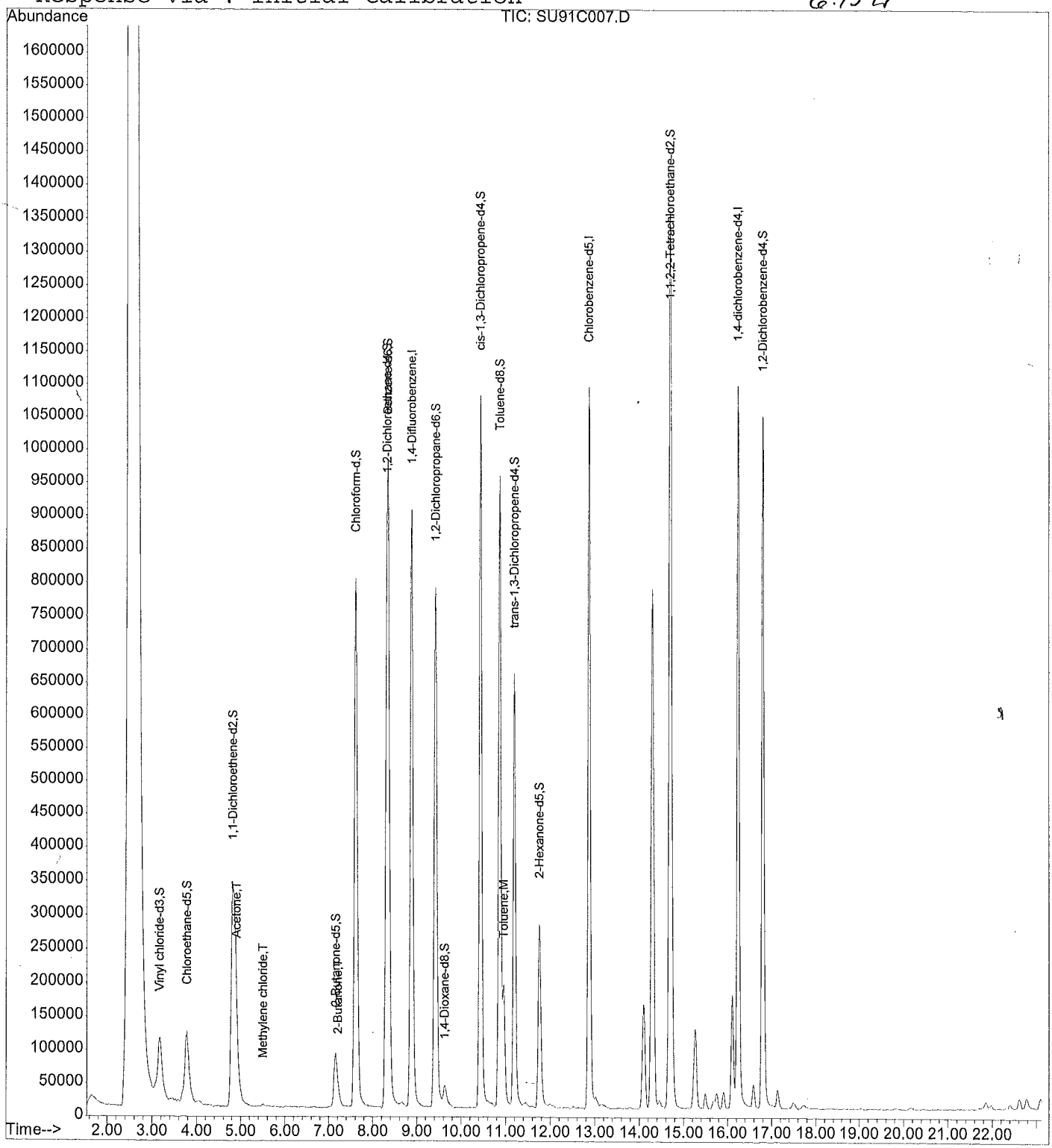
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU91C007.D
Acq Time : 06/09/2015 22:51 Operator: CQC
Sample : 1515552007 F9M45 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 10 0:45 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.12.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU91C007.D
Acq Time : 06/09/2015 22:51 Operator: CQC
Sample : 1515552007 F9M45 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 10 0:45 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1400993	50.00 ug/Kg	106.13
30) Chlorobenzene-d5	12.86	117	1031865	50.00 ug/Kg	96.40
62) 1,4-dichlorobenzene-d4	16.23	152	499045	50.00 ug/Kg	82.03
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	3.17	65	387581	43.35 ug/Kg	86.71%
8) Chloroethane-d5	3.77	69	391139	45.98 ug/Kg	91.96%
11) 1,1-Dichloroethene-d2	4.82	63	1007189	34.17 ug/Kg	68.34%
22) 2-Butanone-d5	7.15	46	263542	108.60 ug/Kg	108.60%
25) Chloroform-d	7.61	84	1404112	48.63 ug/Kg	97.26%
27) 1,2-Dichloroethane-d4	8.31	65	696144	52.74 ug/Kg	105.49%
29) 1,4-Dioxane-d8	9.64	96	51460	1259.98 ug/Kg	126.00%
35) Benzene-d6	8.35	84	1377238	54.28 ug/Kg	108.55%
39) 1,2-Dichloropropane-d6	9.42	67	675864	54.08 ug/Kg	108.16%
42) cis-1,3-Dichloropropene-d4	10.43	79	1129206	53.93 ug/Kg	107.86%
44) trans-1,3-Dichloropropene-	11.19	79	657914	54.49 ug/Kg	108.99%
49) Toluene-d8	10.87	98	1185562	51.64 ug/Kg	103.29%
52) 2-Hexanone-d5	11.75	63	184517	115.31 ug/Kg	115.31%
61) 1,1,2,2-Tetrachloroethane-	14.69	84	773000	59.97 ug/Kg	119.94%
67) 1,2-Dichlorobenzene-d4	16.80	152	478268	49.99 ug/Kg	99.99%
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	4.91	43	33908	12.98 ug/Kg	91
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.50	84	2404	0.25 ug/Kg#	33
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	7.22	43	53385	17.59 ug/Kg#	83
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

Quantitation Report

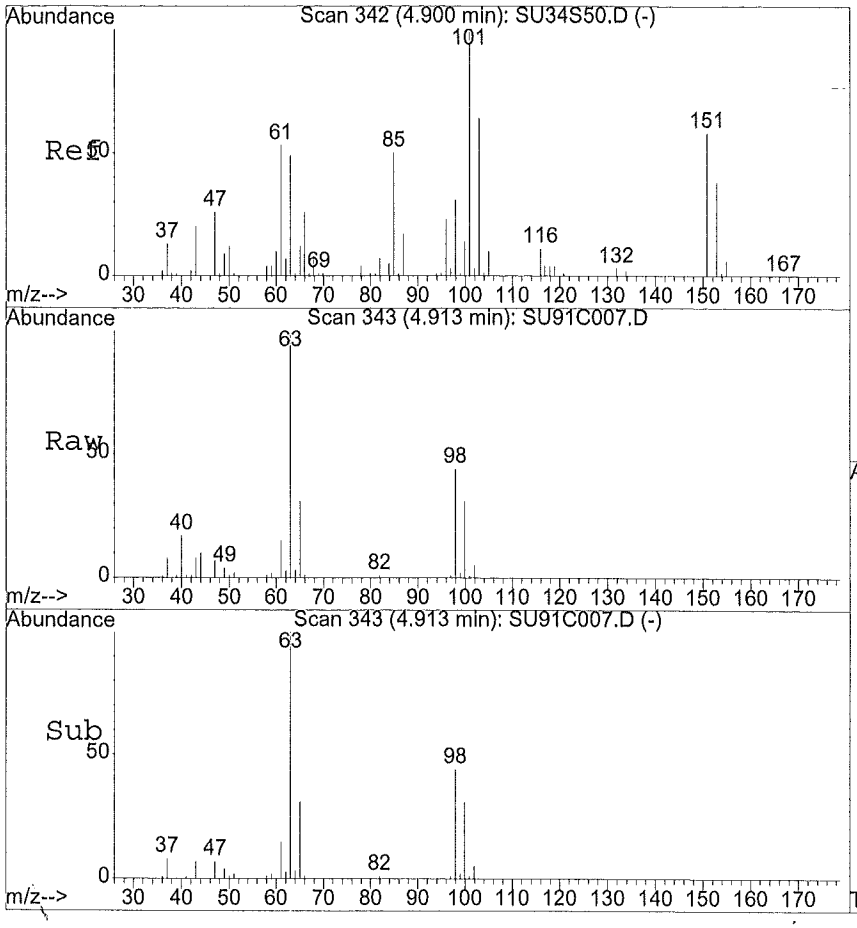
Data File : D:\HPCHEM\1\DATA\09JUN15S\SU91C007.D
Acq Time : 06/09/2015 22:51 Operator: CQC
Sample : 1515552007 F9M45 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Quant Time: Jun 10 0:45 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	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	10.96	91	221212	8.90 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	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	

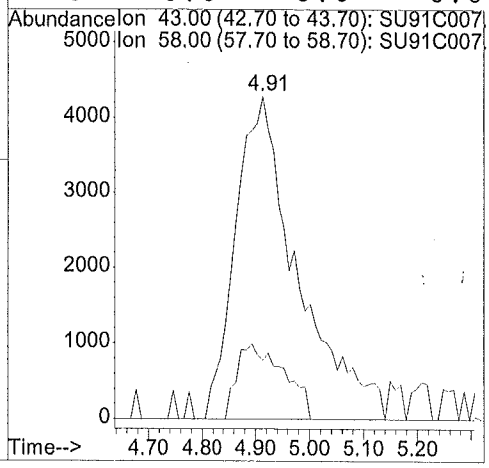
(#) = qualifier out of range (m) = manual integration

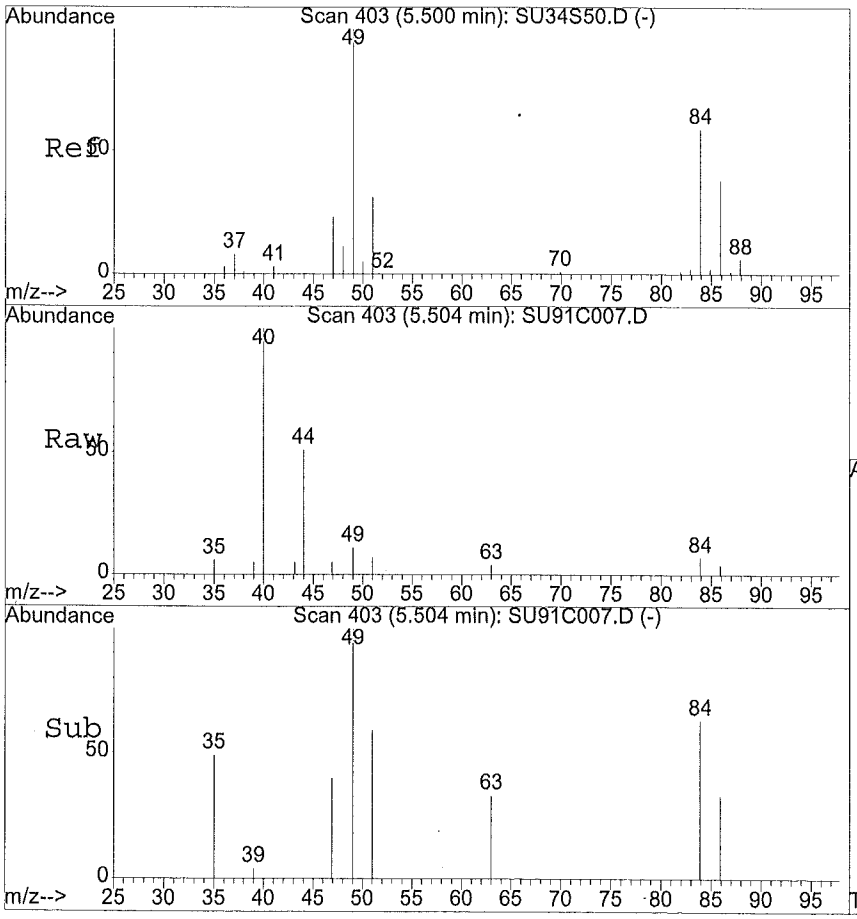


#13
Acetone
Concen: 12.98 ug/Kg
RT: 4.91 min Scan# 343
Delta R.T. 0.02 min
Lab File: SU91C007.D
Acq: 06/09/2015 22:51

Tgt Ion:43 Resp: 33908

Ion	Ratio	Lower	Upper
43	100		
58	17.6	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

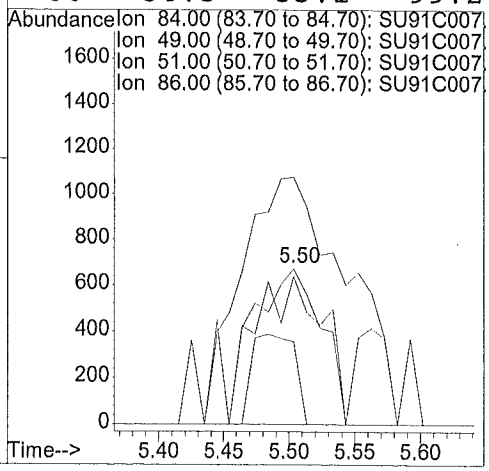


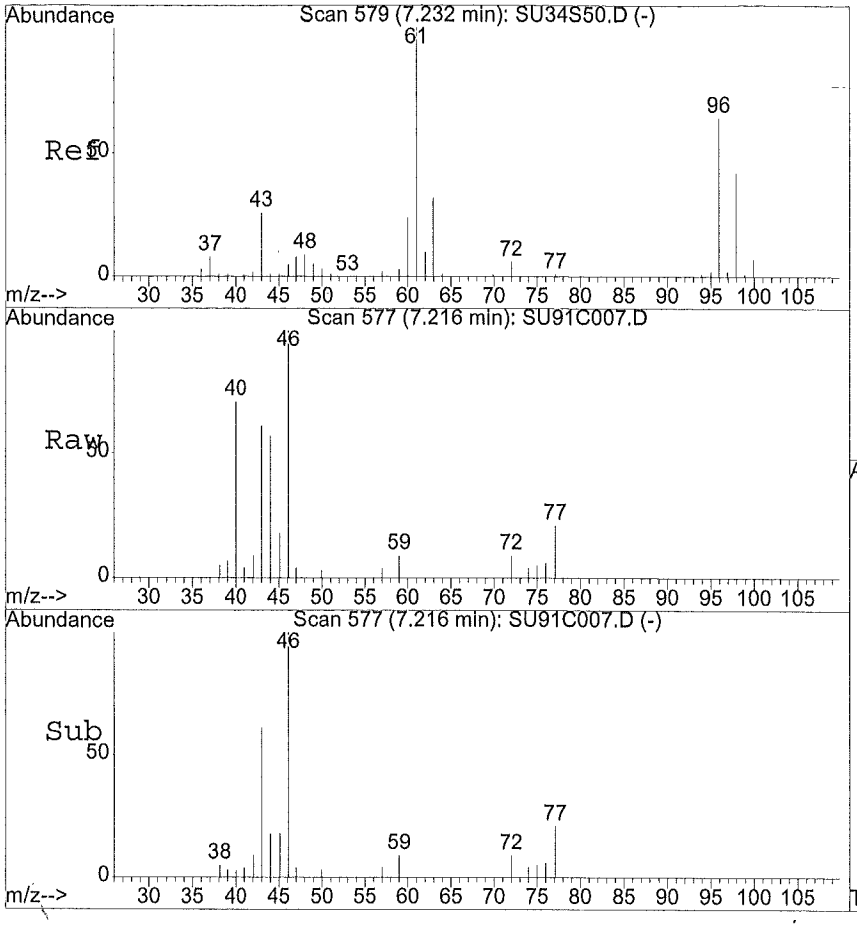


#16
Methylene chloride
Concen: 0.25 ug/Kg
RT: 5.50 min Scan# 403
Delta R.T. 0.00 min
Lab File: SU91C007.D
Acq: 06/09/2015 22:51

Tgt Ion:84 Resp: 2404

Ion	Ratio	Lower	Upper
84	100		
49	257.7	85.4	256.1#
51	135.6	26.8	80.4#
86	36.5	33.1	99.2

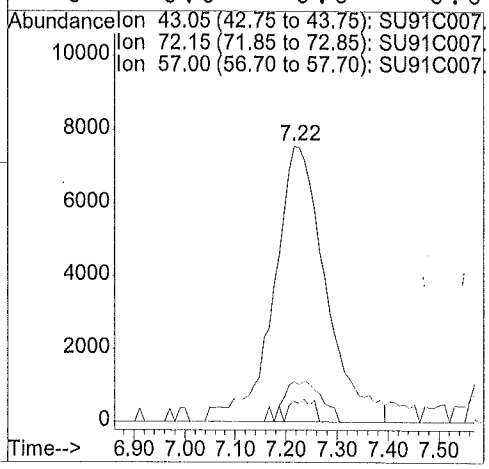


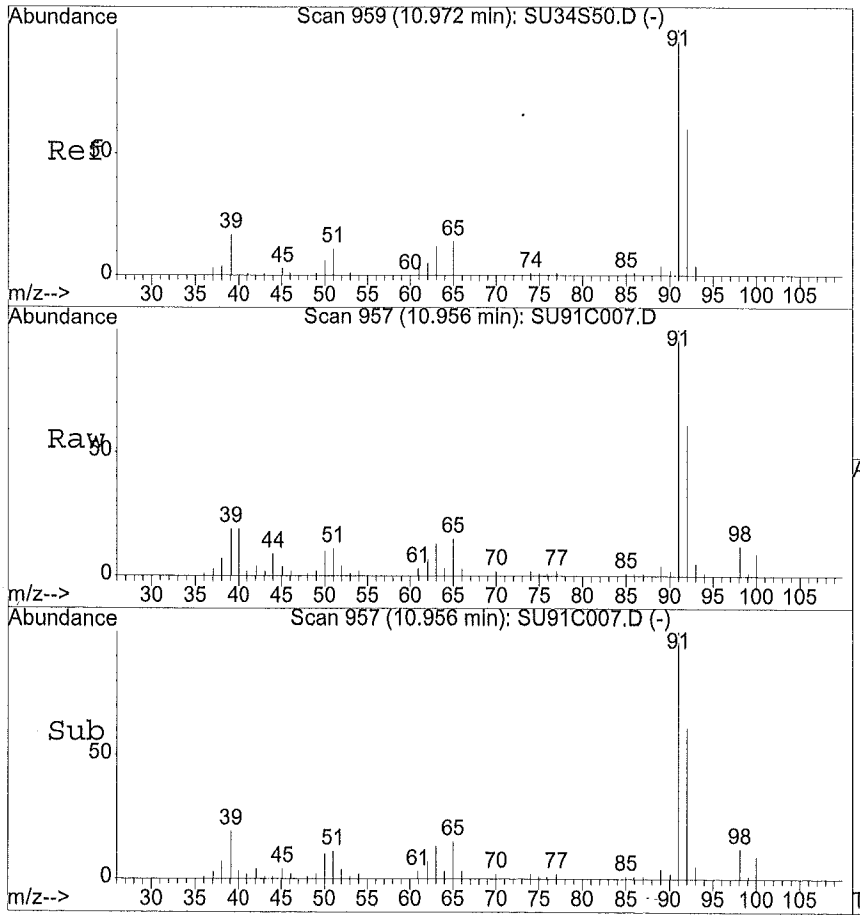


#21
2-Butanone
Concen: 17.59 ug/Kg
RT: 7.22 min Scan# 577
Delta R.T. -0.02 min
Lab File: SU91C007.D
Acq: 06/09/2015 22:51

Tgt Ion:43.05 Resp: 53385

Ion	Ratio	Lower	Upper
43	100		
72	10.4	15.9	23.9#
57	4.0	5.1	7.7#
0	0.0	0.0	0.0

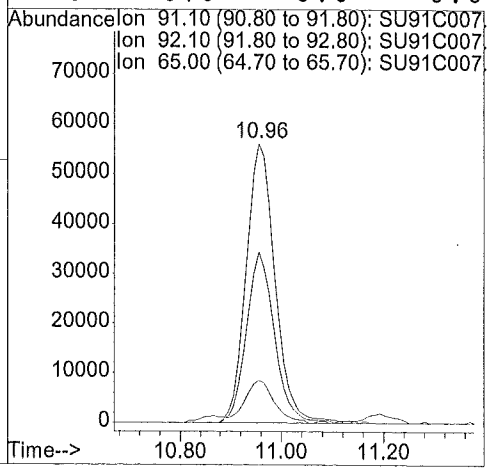




#48
Toluene
Concen: 8.90 ug/Kg
RT: 10.96 min Scan# 957
Delta R.T. -0.02 min
Lab File: SU91C007.D
Acq: 06/09/2015 22:51

Tgt Ion:91.1 Resp: 221212

Ion	Ratio	Lower	Upper
91	100		
92	59.2	48.2	72.2
65	17.7	11.7	17.5#
0	0.0	0.0	0.0



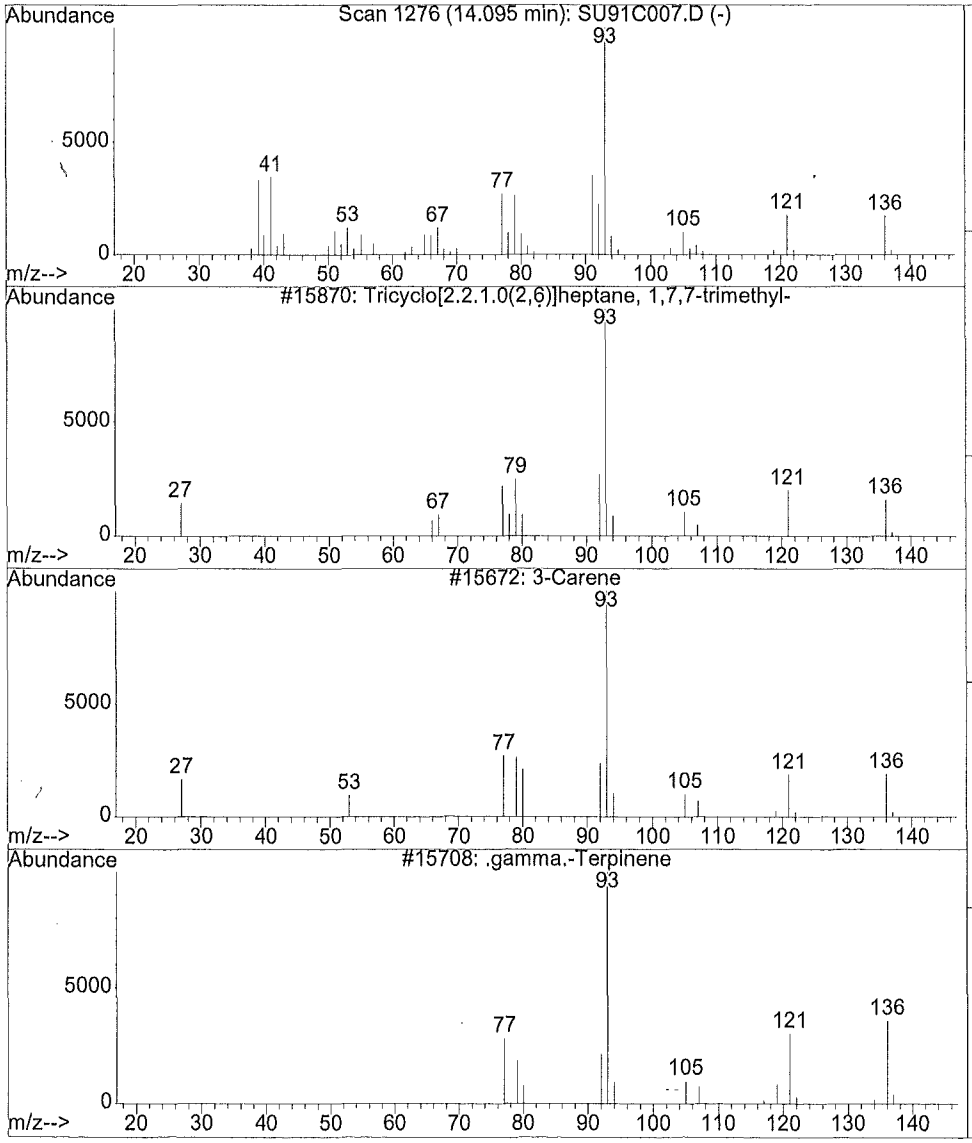
Library Search Compound Report

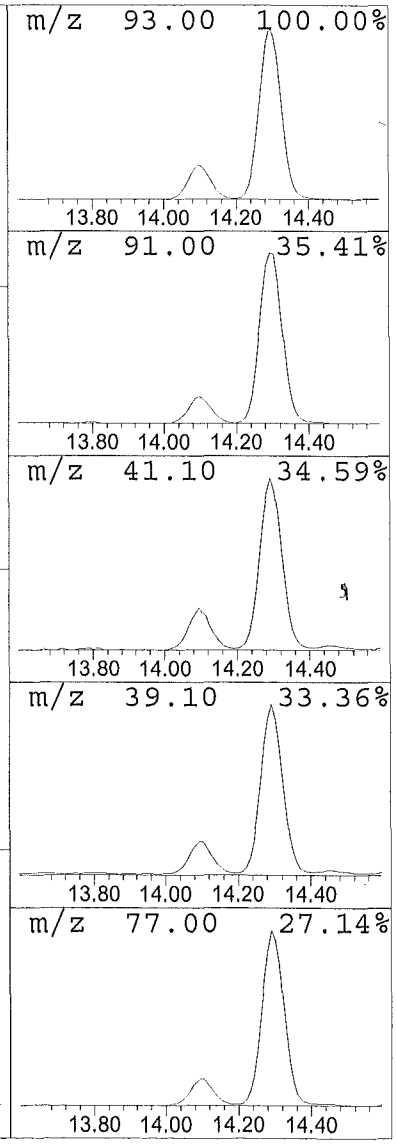
Data File : D:\HPCHEM\1\DATA\09JUN15S\SU91C007.D
Acq Time : 06/09/2015 22:51 Operator: CQC
Sample : 1515552007 F9M45 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Library : D:\DATABASE\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.09	8.77 ug/Kg	699909	Chlorobenzene-d5	3989734

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tricyclo[2.2.1.0(2,6)]heptane, 1,7,	15870	000508-32-7	96.00
2	3-Carene	15672	013466-78-9	93.00
3	.gamma.-Terpinene	15708	000099-85-4	91.00
4	(+)-3-Carene	15686	000498-15-7	90.00
5	Cyclohexene, 4-methylene-1-(1-methy	15844	000099-84-3	90.00





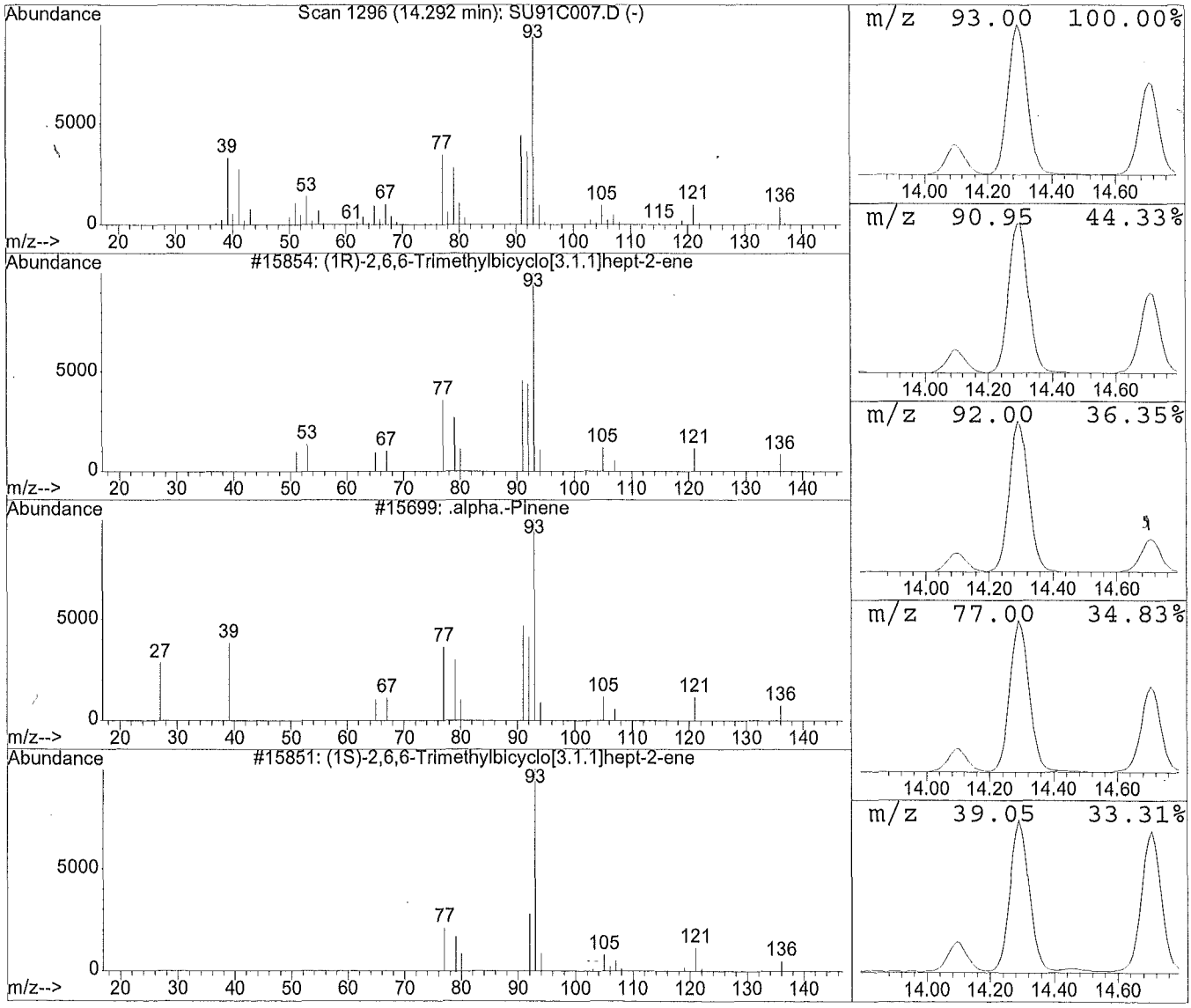
Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU91C007.D
Acq Time : 06/09/2015 22:51 Operator: CQC
Sample : 1515552007 F9M45 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Library : D:\DATABASE\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.29	41.44 ug/Kg	3306411	Chlorobenzene-d5	3989734

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	(1R)-2,6,6-Trimethylbicyclo[3.1.1]h	15854	007785-70-8	97.00
2	.alpha.-Pinene	15699	000080-56-8	96.00
3	(1S)-2,6,6-Trimethylbicyclo[3.1.1]h	15851	007785-26-4	91.00
4	Cyclohexene, 4-methylene-1-(1-methy	15844	000099-84-3	90.00
5	(+)-3-Carene	15686	000498-15-7	87.00



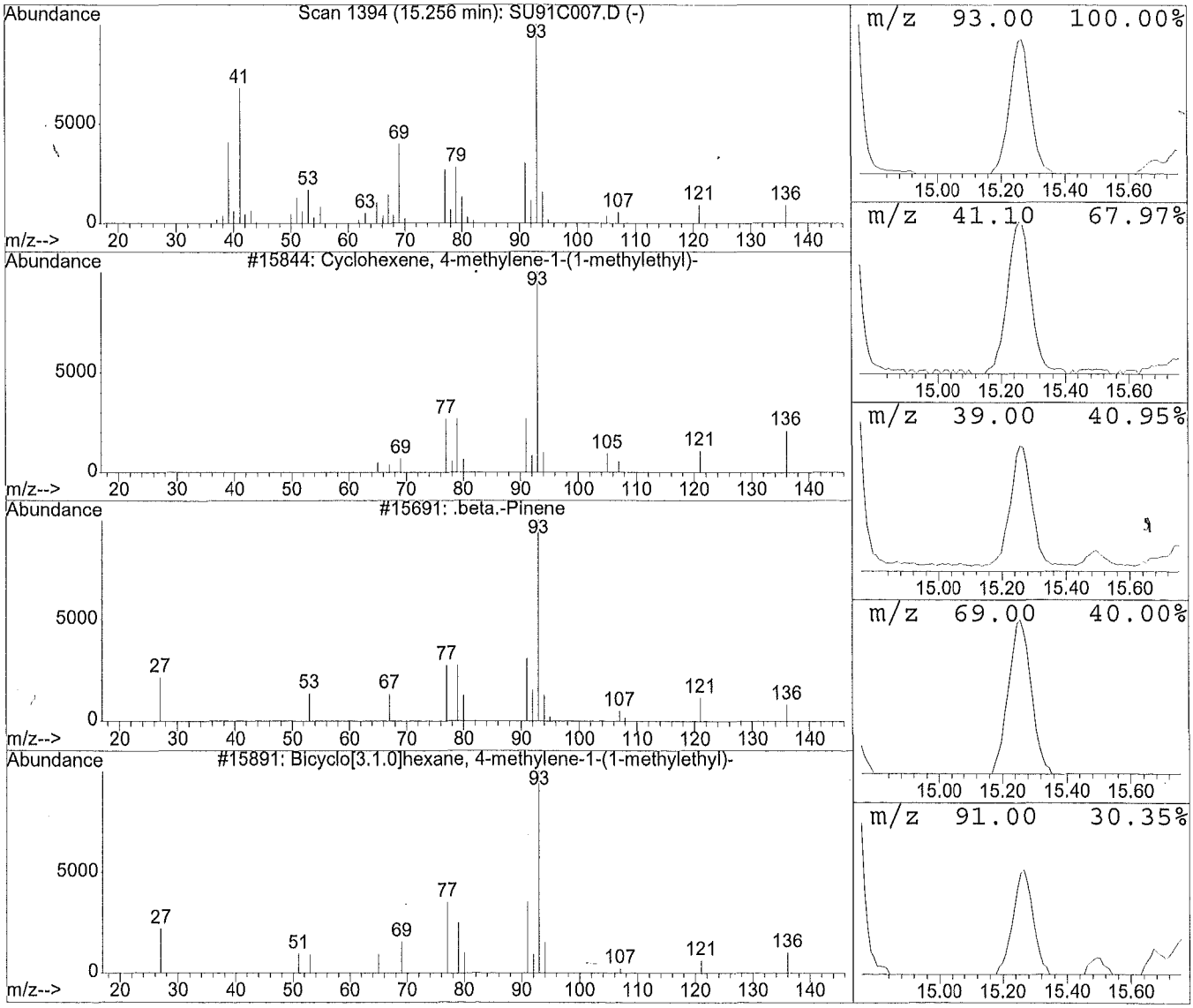
Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU91C007.D
Acq Time : 06/09/2015 22:51 Operator: CQC
Sample : 1515552007 F9M45 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Library : D:\DATABASE\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.26	7.12 ug/Kg	551704	1,4-dichlorobenzene-d4	3873611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexene, 4-methylene-1-(1-methy	15844	000099-84-3	91.00
2	.beta.-Pinene	15691	000127-91-3	81.00
3	Bicyclo[3.1.0]hexane, 4-methylene-1	15891	003387-41-5	81.00
4	Bicyclo[3.1.0]hex-2-ene, 4-methyl-1	15897	028634-89-1	72.00
5	(1R)-2,6,6-Trimethylbicyclo[3.1.1]h	15854	007785-70-8	68.00



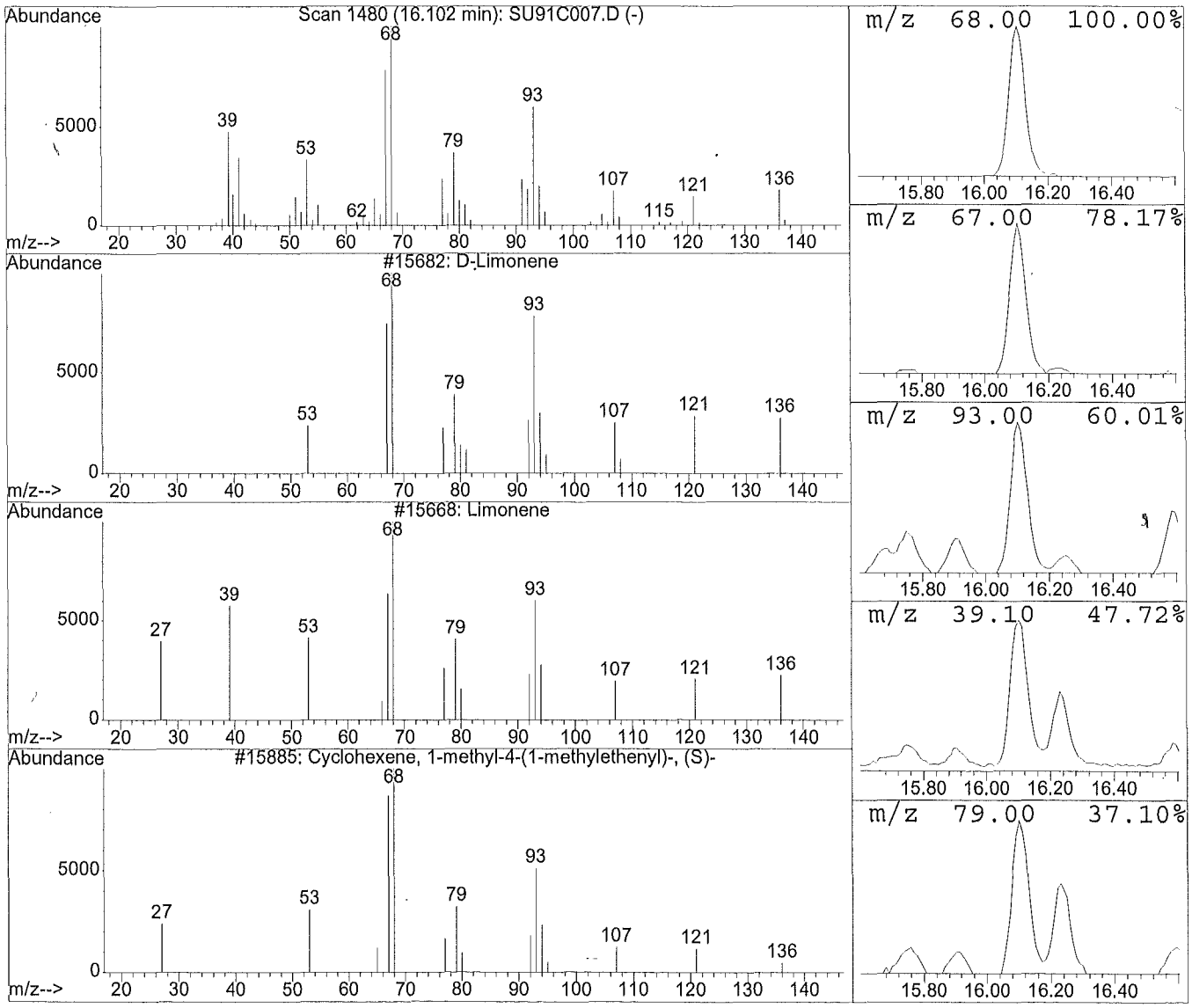
Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU91C007.D
Acq Time : 06/09/2015 22:51 Operator: CQC
Sample : 1515552007 F9M45 Inst : 5972-S
Misc : 1515552 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Library : D:\DATABASE\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.10	8.44 ug/Kg	653601	1,4-dichlorobenzene-d4	3873611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Limonene	15682	005989-27-5	97.00
2	~~Limonene~~	15668	000138-86-3	93.00
3	Cyclohexene, 1-methyl-4-(1-methylet	15885	005989-54-8	90.00
4	Cyclohexene, 4-ethenyl-1,4-dimethyl	15803	001743-61-9	81.00
5	Cyclohexene, 1-methyl-5-(1-methylet	15881	001461-27-4	72.00



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.: F9M36

Instrument ID: 5972-S Calibration Date(s): 06/04/2015 06/04/2015

Heated Purge: (Y/N) Y Calibration Time(s): 20:18 22:20

Purge Volume: 10.0 (mL)

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

LAB FILE ID: RRF 5.0 = SU32S05 RRF 10 = SU33S10
RRF 50 = SU34S50 RRF 100 = SU35S100 RRF 200 = SU36S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.602	0.563	0.450	0.432	0.414	0.492	17.2
Chloromethane	0.297	0.332	0.245	0.224	0.216	0.263	19.0
Vinyl chloride	0.320	0.311	0.255	0.245	0.238	0.274	14.1
Bromomethane	0.447	0.511	0.378	0.378	0.380	0.419	14.2
Chloroethane	0.242	0.231	0.190	0.189	0.186	0.208	12.9
Trichlorofluoromethane	1.047	1.043	0.890	0.859	0.886	0.945	9.7
1,1-Dichloroethene	0.401	0.402	0.331	0.326	0.333	0.359	10.9
1,1,2-Trichloro-1,2,2-trifluoroethane	1.013	1.001	0.827	0.803	0.803	0.889	12.1
Acetone	0.135	0.121	0.071	0.070	0.068	0.093	34.8
Carbon disulfide	1.246	1.212	0.995	0.958	0.926	1.067	14.1
Methyl acetate	0.162	0.193	0.148	0.137	0.127	0.153	16.8
Methylene chloride	0.413	0.394	0.325	0.314	0.304	0.350	14.2
trans-1,2-Dichloroethene	0.427	0.434	0.367	0.361	0.362	0.390	9.5
Methyl tert-butyl ether	0.701	0.679	0.583	0.557	0.553	0.615	11.4
1,1-Dichloroethane	0.860	0.864	0.718	0.685	0.670	0.759	12.5
cis-1,2-Dichloroethene	0.443	0.444	0.373	0.362	0.367	0.398	10.5
2-Butanone	0.167	0.122	0.087	0.083	0.082	0.108	34.2
Bromochloromethane	0.286	0.291	0.247	0.238	0.236	0.259	10.4
Chloroform	1.078	1.097	0.902	0.867	0.843	0.957	12.6
1,1,1-Trichloroethane	1.187	1.240	1.020	0.962	0.922	1.066	13.2
Cyclohexane	0.659	0.671	0.549	0.521	0.503	0.581	13.6
Carbon tetrachloride	1.231	1.265	1.055	0.984	0.940	1.095	13.3
Benzene	1.212	1.291	1.105	1.096	1.064	1.154	8.2
1,2-Dichloroethane	0.549	0.584	0.516	0.508	0.488	0.529	7.2
1,4-Dioxane	0.0016	0.0016	0.0017	0.0016	0.0015	0.0016	3.9
Trichloroethene	0.649	0.697	0.573	0.541	0.533	0.599	11.9
Methylcyclohexane	0.624	0.636	0.516	0.492	0.493	0.552	13.0

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.: F9M36

Instrument ID: 5972-S Calibration Date(s): 06/04/2015 06/04/2015

Heated Purge: (Y/N) Y Calibration Time(s): 20:18 22:20

Purge Volume: 10.0 (mL)

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

LAB FILE ID: RRF 5.0 = SU32S05 RRF 10 = SU33S10
RRF 50 = SU34S50 RRF 100 = SU35S100 RRF 200 = SU36S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
1,2-Dichloropropane	0.445	0.539	0.445	0.426	0.431	0.457	10.1
Bromodichloromethane	1.303	1.422	1.178	1.103	1.066	1.214	12.1
cis-1,3-Dichloropropene	0.752	0.826	0.734	0.698	0.716	0.745	6.6
4-Methyl-2-Pentanone	0.318	0.292	0.245	0.224	0.209	0.258	17.9
Toluene	1.156	1.280	1.181	1.188	1.215	1.204	3.9
trans-1,3-Dichloropropene	0.591	0.663	0.595	0.583	0.593	0.605	5.4
1,1,2-Trichloroethane	0.365	0.395	0.343	0.325	0.321	0.350	8.7
Tetrachloroethene	0.467	0.523	0.461	0.450	0.470	0.474	6.0
2-Hexanone	0.335	0.264	0.178	0.171	0.162	0.222	33.8
Dibromochloromethane	0.970	1.048	0.914	0.872	0.850	0.931	8.6
1,2-Dibromoethane	0.652	0.679	0.611	0.577	0.552	0.614	8.5
Chlorobenzene	1.004	1.081	0.939	0.935	0.933	0.978	6.6
Ethylbenzene	1.403	1.599	1.398	1.410	1.432	1.448	5.9
o-Xylene	0.536	0.581	0.538	0.542	0.562	0.552	3.5
m,p-Xylene	0.526	0.562	0.512	0.522	0.530	0.530	3.6
Styrene	0.851	0.948	0.895	0.927	0.950	0.914	4.6
Bromoform	1.048	1.089	1.018	0.985	0.937	1.015	5.7
Isopropylbenzene	1.625	1.784	1.591	1.614	1.620	1.647	4.7
1,1,2,2-Tetrachloroethane	0.667	0.659	0.570	0.541	0.516	0.591	11.7
1,3-Dichlorobenzene	1.355	1.567	1.377	1.361	1.380	1.408	6.3
1,4-Dichlorobenzene	1.357	1.757	1.490	1.470	1.444	1.504	10.0
1,2-Dichlorobenzene	1.462	1.555	1.383	1.380	1.350	1.426	5.8
1,2-Dibromo-3-chloropropane	0.320	0.297	0.261	0.231	0.218	0.266	16.3
1,2,4-Trichlorobenzene	1.149	1.188	1.018	0.937	0.989	1.056	10.2
1,2,3-Trichlorobenzene	1.024	1.048	0.927	0.841	0.856	0.939	10.1

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.: F9M36

Instrument ID: 5972-S Calibration Date(s): 06/04/2015 06/04/2015

Heated Purge: (Y/N) Y Calibration Time(s): 20:18 22:20

Purge Volume: 10.0 (mL)

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

LAB FILE ID: RRF 5.0 = SU32S05 RRF 10 = SU33S10
RRF 50 = SU34S50 RRF 100 = SU35S100 RRF 200 = SU36S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Vinyl chloride-d3	0.334	0.402	0.289	0.292	0.279	0.319	16.0
Chloroethane-d5	0.343	0.343	0.276	0.282	0.274	0.304	11.9
1,1-Dichloroethene-d2	1.125	1.207	0.966	0.986	0.975	1.052	10.3
2-Butanone-d5	0.096	0.095	0.082	0.081	0.078	0.087	9.6
Chloroform-d	1.058	1.184	0.982	0.976	0.952	1.031	9.2
1,2-Dichloroethane-d4	0.472	0.536	0.462	0.453	0.433	0.471	8.2
Benzene-d6	1.157	1.402	1.189	1.217	1.184	1.230	8.0
1,2-Dichloropropane-d6	0.584	0.711	0.596	0.573	0.565	0.606	9.9
Toluene-d8	0.972	1.203	1.088	1.139	1.160	1.112	8.0
trans-1,3-Dichloropropene-d4	0.523	0.641	0.587	0.581	0.593	0.585	7.1
2-Hexanone-d5	0.092	0.086	0.075	0.069	0.066	0.078	14.5
1,4-Dioxane-d8	0.0011	0.0015	0.0016	0.0016	0.0015	0.0015	12.8
1,1,2,2-Tetrachloroethane-d2	0.638	0.697	0.616	0.602	0.570	0.625	7.5
1,2-Dichlorobenzene-d4	0.932	1.048	0.924	0.948	0.940	0.959	5.3

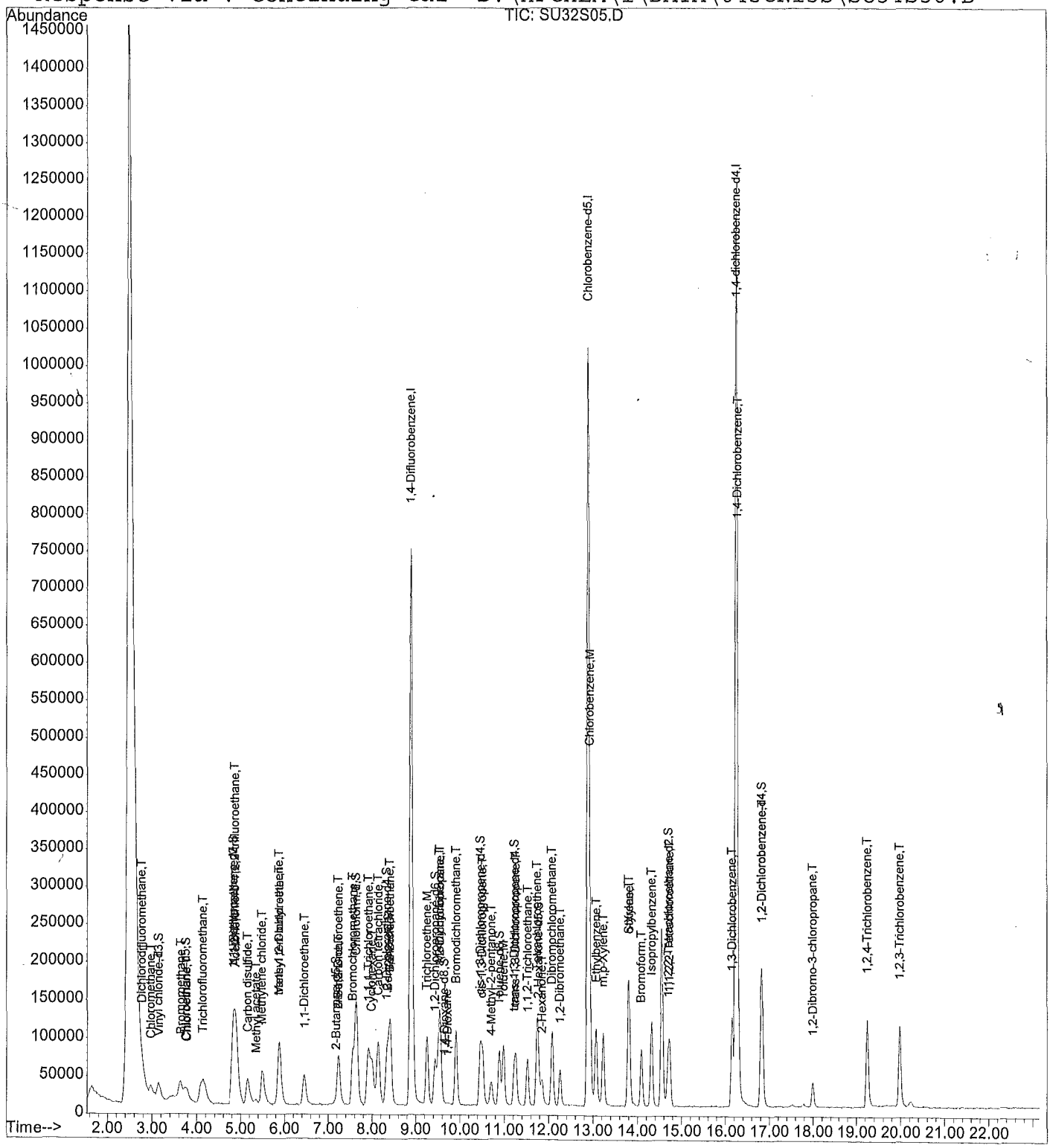
Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU32S05.D
Acq Time : 06/04/2015 20:18 Operator: CQC
Sample : VSTD005SS VSTD005SS 5.0 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.25 uL of 28197, 19; 2 Multiplr: 1.00

Quant Time: Jun 4 22:49 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:50:48 2015 6.6.15
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D



Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU32S05.D
Acq Time : 06/04/2015 20:18 Operator: CQC
Sample : VSTD005SS VSTD005SS 5.0 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.25 uL of 28197, 19; 2 Multiplr: 1.00

Quant Time: Jun 4 22:49 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:49:33 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1149962	50.00 ug/Kg	87.11
30) Chlorobenzene-d5	12.88	117	930688	50.00 ug/Kg	86.95
62) 1,4-dichlorobenzene-d4	16.24	152	537842	50.00 ug/Kg	88.40
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	3.14	65	38398	5.79 ug/Kg	11.57%#
8) Chloroethane-d5	3.75	69	39413	6.21 ug/Kg	12.43%#
11) 1,1-Dichloroethene-d2	4.82	63	129419	5.82 ug/Kg	11.65%#
22) 2-Butanone-d5	7.16	46	22045	11.65 ug/Kg	11.65%#
25) Chloroform-d	7.62	84	121701	5.39 ug/Kg	10.77%#
27) 1,2-Dichloroethane-d4	8.32	65	54235	5.11 ug/Kg	10.22%#
29) 1,4-Dioxane-d8	9.65	96	2616	71.17 ug/Kg	7.12%#
35) Benzene-d6	8.35	84	107697	4.87 ug/Kg	9.74%#
39) 1,2-Dichloropropane-d6	9.43	67	54312	4.90 ug/Kg	9.79%#
42) cis-1,3-Dichloropropene-d4	10.45	79	85146	4.55 ug/Kg	9.10%
44) trans-1,3-Dichloropropene-	11.22	79	48708	4.46 ug/Kg	8.92%#
49) Toluene-d8	10.89	98	90432	4.46 ug/Kg	8.93%#
52) 2-Hexanone-d5	11.78	63	17136	12.30 ug/Kg	12.30%#
61) 1,1,2,2-Tetrachloroethane-	14.69	84	59342	5.17 ug/Kg	10.35%#
67) 1,2-Dichlorobenzene-d4	16.81	152	50128	5.05 ug/Kg	10.09%#
Target Compounds					**Qvalue**
2) Dichlorodifluoromethane	2.77	85	69267	6.69 ug/Kg#	96
3) Chloromethane	2.98	50	34186	6.07 ug/Kg	97
4) Vinyl chloride	3.15	62	36805	6.28 ug/Kg	98
6) Bromomethane	3.64	94	51436	5.92 ug/Kg	96
7) Chloroethane	3.78	64	27874	6.37 ug/Kg	92
9) Trichlorofluoromethane	4.13	101	120445	5.89 ug/Kg	99
10) 1,1-Dichloroethene	4.83	96	46143	6.06 ug/Kg	97
12) 1,1,2-Trichloro-1,2,2-trif	4.88	101	116507	6.13 ug/Kg	98
13) Acetone	4.89	43	31117	19.04 ug/Kg	98
14) Carbon disulfide	5.15	76	143283	6.26 ug/Kg	93
15) Methyl acetate	5.35	43	18659	5.49 ug/Kg#	91
16) Methylene chloride	5.49	84	47481	6.35 ug/Kg	97
17) trans-1,2-Dichloroethene	5.88	96	49098	5.82 ug/Kg	96
18) Methyl tert-butyl ether	5.86	73	80604	6.01 ug/Kg	93
19) 1,1-Dichloroethane	6.45	63	98915	5.99 ug/Kg	98
20) cis-1,2-Dichloroethene	7.23	96	50946	5.93 ug/Kg	98
21) 2-Butanone	7.24	43	38509	19.34 ug/Kg#	90
23) Bromochloromethane	7.56	128	32926	5.80 ug/Kg	98
24) Chloroform	7.64	83	123994	5.98 ug/Kg	98

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

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU32S05.D
Acq Time : 06/04/2015 20:18 Operator: CQC
Sample : VSTD005SS VSTD005SS 5.0 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.25 uL of 28197, 19; 2 Multiplr: 1.00

Quant Time: Jun 4 22:49 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:49:33 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	8.41	62	63118	5.32	ug/Kg	95
28)	1,4-Dioxane	9.72	88	3737	97.88	ug/Kg	95
31)	1,1,1-Trichloroethane	7.91	97	110504	5.82	ug/Kg	98
32)	Cyclohexane	8.00	56	61291	6.00	ug/Kg#	77
33)	Carbon tetrachloride	8.13	117	114584	5.83	ug/Kg	99
34)	Benzene	8.40	78	112777	5.48	ug/Kg#	99
36)	Trichloroethene	9.26	95	60415	5.66	ug/Kg	99
37)	Methylcyclohexane	9.52	55	58082	6.04	ug/Kg	94
38)	1,2-Dichloropropane	9.55	63	41391	4.99	ug/Kg	83
40)	Bromodichloromethane	9.91	83	121234	5.53	ug/Kg	100
41)	cis-1,3-Dichloropropene	10.51	75	70021	5.13	ug/Kg	98
43)	trans-1,3-Dichloropropene	11.26	75	54967	4.96	ug/Kg	96
45)	1,1,2-Trichloroethane	11.52	97	33931	5.32	ug/Kg	99
46)	Dibromochloromethane	12.07	129	90306	5.31	ug/Kg	97
47)	4-Methyl-2-pentanone	10.70	43	59117	12.99	ug/Kg	96
48)	Toluene	10.98	91	107571	4.89	ug/Kg	99
50)	Tetrachloroethene	11.74	164	43485	5.07	ug/Kg	96
51)	2-Hexanone	11.85	43	62304	18.80	ug/Kg	93
53)	1,2-Dibromoethane	12.25	107	60645	5.33	ug/Kg	100
54)	Chlorobenzene	12.93	112	93482	5.35	ug/Kg	90
55)	Ethylbenzene	13.07	91	130567	5.02	ug/Kg	99
56)	m,p-Xylene	13.22	106	48929	5.14	ug/Kg	94
57)	o-Xylene	13.79	106	49906	4.98	ug/Kg	98
58)	Styrene	13.81	104	79224	4.76	ug/Kg	93
59)	Isopropylbenzene	14.32	105	151227	5.11	ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.73	83	62105	5.85	ug/Kg	97
63)	Bromoform	14.09	173	56360	5.15	ug/Kg	97
64)	1,3-Dichlorobenzene	16.15	146	72898	4.92	ug/Kg#	89
65)	1,4-Dichlorobenzene	16.27	146	73012	4.56	ug/Kg#	50
66)	1,2-Dichlorobenzene	16.84	146	78613	5.28	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	17.99	75	17225	6.14	ug/Kg	97
69)	1,2,4-Trichlorobenzene	19.24	180	61790	5.64	ug/Kg	99
70)	1,2,3-Trichlorobenzene	19.98	180	55096	5.52	ug/Kg	98

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

00091

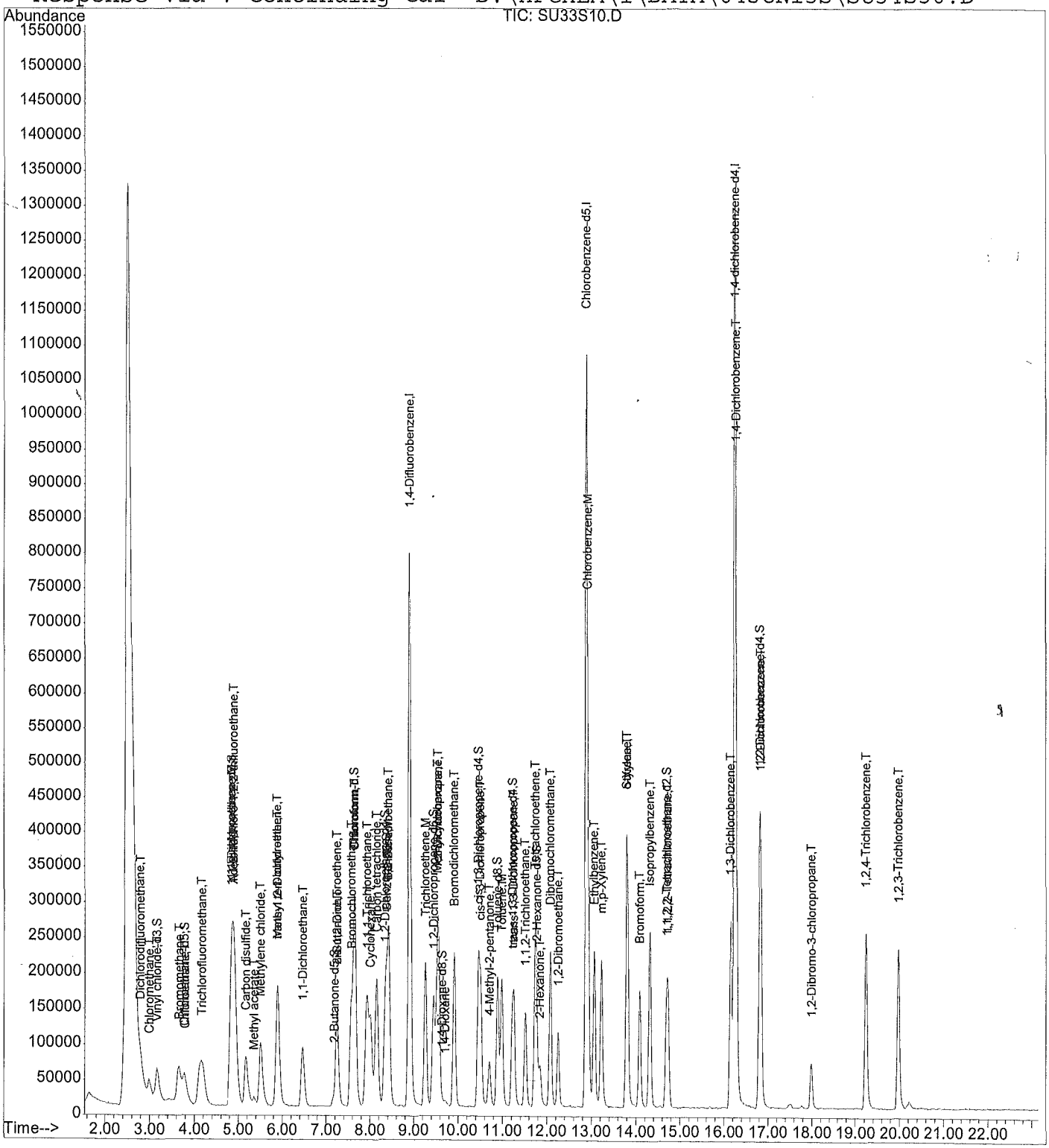
Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU33S10.D
Acq Time : 06/04/2015 20:49 Operator: CQC
Sample : VSTD010SS VSTD010SS 10 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:45 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:50:48 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D

6.6.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU33S10.D
Acq Time : 06/04/2015 20:49 Operator: CQC
Sample : VSTD010SS VSTD010SS 10 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:45 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.89	114	1198153	50.00 ug/Kg	90.76
30) Chlorobenzene-d5	12.88	117	950589	50.00 ug/Kg	88.81
62) 1,4-dichlorobenzene-d4	16.24	152	557983	50.00 ug/Kg	91.71
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	3.16	65	96322	13.93 ug/Kg	27.86%#
8) Chloroethane-d5	3.77	69	82252	12.44 ug/Kg	24.89%#
11) 1,1-Dichloroethene-d2	4.83	63	289298	12.49 ug/Kg	24.99%#
22) 2-Butanone-d5	7.17	46	45686	23.17 ug/Kg	23.17%#
25) Chloroform-d	7.63	84	283729	12.05 ug/Kg	24.11%#
27) 1,2-Dichloroethane-d4	8.32	65	128356	11.61 ug/Kg	23.21%#
29) 1,4-Dioxane-d8	9.64	96	7006	182.95 ug/Kg	18.29%#
35) Benzene-d6	8.36	84	266454	11.79 ug/Kg	23.58%#
39) 1,2-Dichloropropane-d6	9.45	67	135217	11.93 ug/Kg	23.87%#
42) cis-1,3-Dichloropropene-d4	10.46	79	218000	11.40 ug/Kg	22.81%
44) trans-1,3-Dichloropropene-	11.22	79	121773	10.91 ug/Kg	21.83%#
49) Toluene-d8	10.89	98	228761	11.06 ug/Kg	22.11%#
52) 2-Hexanone-d5	11.78	63	32754	23.01 ug/Kg	23.01%#
61) 1,1,2,2-Tetrachloroethane-	14.69	84	132428	11.31 ug/Kg	22.61%#
67) 1,2-Dichlorobenzene-d4	16.81	152	117003	11.35 ug/Kg	22.70%#
Target Compounds					**Qvalue**
2) Dichlorodifluoromethane	2.79	85	134851	12.49 ug/Kg#	99
3) Chloromethane	3.00	50	79451	13.53 ug/Kg	96
4) Vinyl chloride	3.17	62	74597	12.21 ug/Kg	99
6) Bromomethane	3.66	94	122492	13.53 ug/Kg	91
7) Chloroethane	3.80	64	55281	12.12 ug/Kg	96
9) Trichlorofluoromethane	4.17	101	249823	11.72 ug/Kg	99
10) 1,1-Dichloroethene	4.84	96	96267	12.14 ug/Kg	99
12) 1,1,2-Trichloro-1,2,2-trif	4.90	101	239858	12.10 ug/Kg	99
13) Acetone	4.90	43	58093	34.12 ug/Kg	96
14) Carbon disulfide	5.17	76	290482	12.19 ug/Kg	100
15) Methyl acetate	5.35	43	46240	13.05 ug/Kg	94
16) Methylene chloride	5.50	84	94369	12.12 ug/Kg	98
17) trans-1,2-Dichloroethene	5.89	96	104094	11.84 ug/Kg	100
18) Methyl tert-butyl ether	5.88	73	162793	11.66 ug/Kg	98
19) 1,1-Dichloroethane	6.46	63	206948	12.03 ug/Kg	99
20) cis-1,2-Dichloroethene	7.24	96	106493	11.90 ug/Kg	99
21) 2-Butanone	7.24	43	58612	28.26 ug/Kg	96
23) Bromochloromethane	7.57	128	69661	11.79 ug/Kg	96
24) Chloroform	7.65	83	262976	12.17 ug/Kg	99

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

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU33S10.D
Acq Time : 06/04/2015 20:49 Operator: CQC
Sample : VSTD010SS VSTD010SS 10 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:45 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	8.42	62	140012	11.33	ug/Kg	96
28)	1,4-Dioxane	9.71	88	7583	190.62	ug/Kg	91
31)	1,1,1-Trichloroethane	7.92	97	235757	12.16	ug/Kg	99
32)	Cyclohexane	8.01	56	127588	12.23	ug/Kg	99
33)	Carbon tetrachloride	8.15	117	240444	11.98	ug/Kg	99
34)	Benzene	8.42	78	245469	11.68	ug/Kg#	98
36)	Trichloroethene	9.26	95	132498	12.16	ug/Kg	99
37)	Methylcyclohexane	9.52	55	120936	12.32	ug/Kg	97
38)	1,2-Dichloropropane	9.55	63	102392	12.10	ug/Kg	96
40)	Bromodichloromethane	9.91	83	270304	12.07	ug/Kg	99
41)	cis-1,3-Dichloropropene	10.51	75	157042	11.26	ug/Kg	96
43)	trans-1,3-Dichloropropene	11.26	75	126031	11.14	ug/Kg	98
45)	1,1,2-Trichloroethane	11.51	97	75005	11.51	ug/Kg	100
46)	Dibromochloromethane	12.07	129	199320	11.48	ug/Kg	98
47)	4-Methyl-2-pentanone	10.71	43	111215	23.93	ug/Kg	97
48)	Toluene	10.98	91	243416	10.84	ug/Kg	99
50)	Tetrachloroethene	11.74	164	99374	11.33	ug/Kg	99
51)	2-Hexanone	11.85	43	100234	29.62	ug/Kg	95
53)	1,2-Dibromoethane	12.25	107	129076	11.11	ug/Kg	98
54)	Chlorobenzene	12.92	112	205489	11.52	ug/Kg	94
55)	Ethylbenzene	13.06	91	303932	11.43	ug/Kg	100
56)	m,p-Xylene	13.22	106	106939	11.00	ug/Kg	96
57)	o-Xylene	13.80	106	110374	10.78	ug/Kg	95
58)	Styrene	13.81	104	180201	10.60	ug/Kg	96
59)	Isopropylbenzene	14.32	105	339169	11.22	ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.73	83	125294	11.55	ug/Kg	99
63)	Bromoform	14.08	173	121530	10.70	ug/Kg	100
64)	1,3-Dichlorobenzene	16.15	146	174865	11.38	ug/Kg	99
65)	1,4-Dichlorobenzene	16.28	146	196100	11.80	ug/Kg#	79
66)	1,2-Dichlorobenzene	16.84	146	173534	11.24	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	17.99	75	33176	11.40	ug/Kg	98
69)	1,2,4-Trichlorobenzene	19.24	180	132632	11.68	ug/Kg	99
70)	1,2,3-Trichlorobenzene	19.98	180	116973	11.30	ug/Kg	99

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

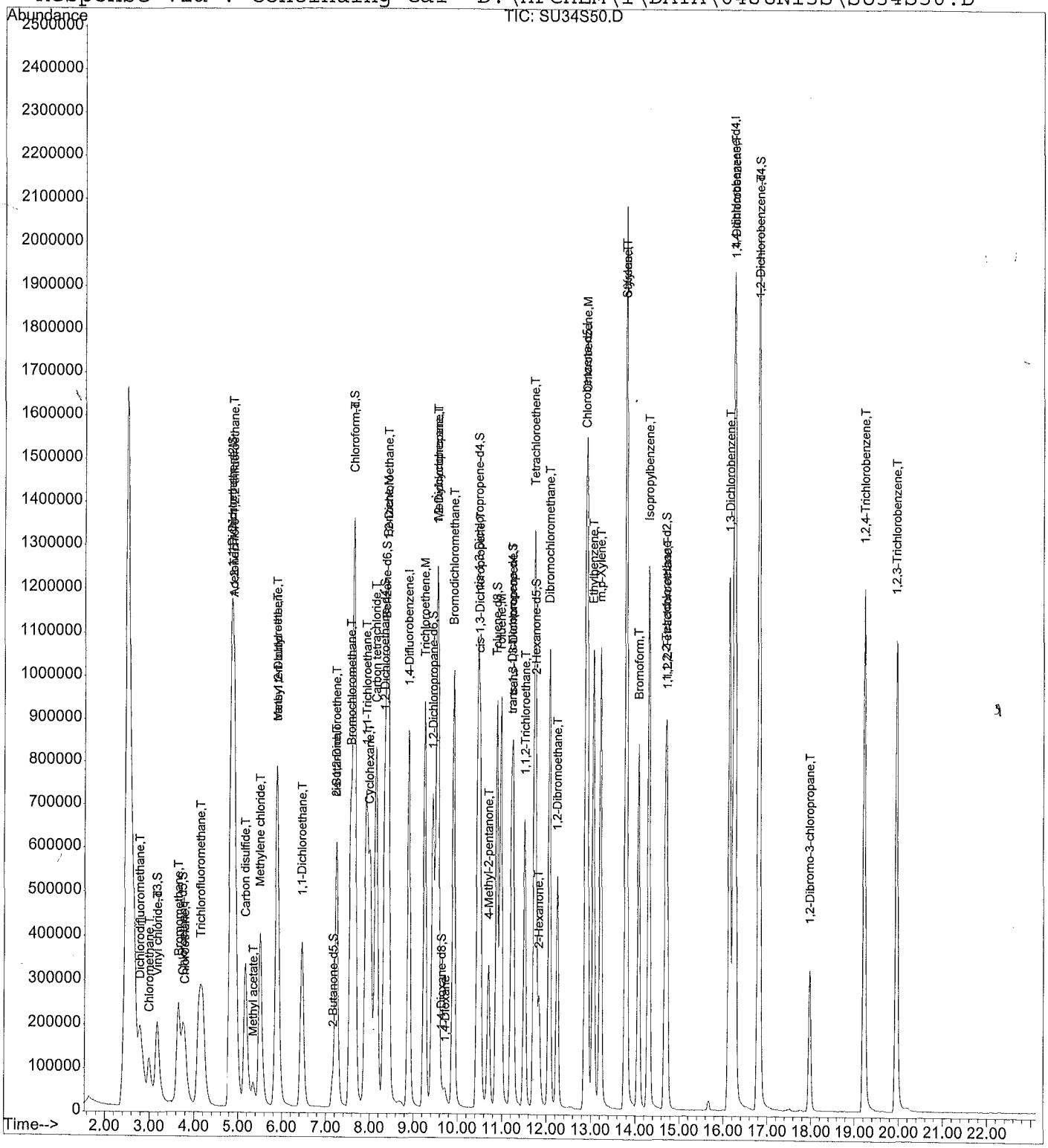
Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
Acq Time : 06/04/2015 21:19 Operator: CQC
Sample : VSTD050SS VSTD050SS 50 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 2.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:44 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:50:48 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D

6.6.15



00095

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
Acq Time : 06/04/2015 21:19 Operator: CQC
Sample : VSTD050SS VSTD050SS 50 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 2.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:44 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.90	114	1320099	50.00 ug/Kg	100.00
30) Chlorobenzene-d5	12.87	117	1070418	50.00 ug/Kg	100.00
62) 1,4-dichlorobenzene-d4	16.23	152	608403	50.00 ug/Kg	100.00
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	380864	50.00 ug/Kg	100.00%
8) Chloroethane-d5	3.76	69	364096	50.00 ug/Kg	100.00%
11) 1,1-Dichloroethene-d2	4.83	63	1275616	50.00 ug/Kg	100.00%
22) 2-Butanone-d5	7.15	46	217200	100.00 ug/Kg	100.00%
25) Chloroform-d	7.63	84	1296715	50.00 ug/Kg	100.00%
27) 1,2-Dichloroethane-d4	8.32	65	609262	50.00 ug/Kg	100.00%
29) 1,4-Dioxane-d8	9.64	96	42193	1000.00 ug/Kg	100.00%
35) Benzene-d6	8.36	84	1272193	50.00 ug/Kg	100.00%
39) 1,2-Dichloropropane-d6	9.44	67	637956	50.00 ug/Kg	100.00%
42) cis-1,3-Dichloropropene-d4	10.45	79	1076340	50.00 ug/Kg	100.00%
44) trans-1,3-Dichloropropene-	11.21	79	628161	50.00 ug/Kg	100.00%
49) Toluene-d8	10.88	98	1164832	50.00 ug/Kg	100.00%
52) 2-Hexanone-d5	11.77	63	160271	100.00 ug/Kg	100.00%
61) 1,1,2,2-Tetrachloroethane-	14.68	84	659528	50.00 ug/Kg	100.00%
67) 1,2-Dichlorobenzene-d4	16.80	152	561883	50.00 ug/Kg	100.00%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.79	85	594619	50.00 ug/Kg#	100
3) Chloromethane	3.00	50	323419	50.00 ug/Kg	100
4) Vinyl chloride	3.18	62	336581	50.00 ug/Kg	100
6) Bromomethane	3.65	94	498846	50.00 ug/Kg	100
7) Chloroethane	3.80	64	251253	50.00 ug/Kg	100
9) Trichlorofluoromethane	4.13	101	1174384	50.00 ug/Kg	100
10) 1,1-Dichloroethene	4.84	96	436797	50.00 ug/Kg	100
12) 1,1,2-Trichloro-1,2,2-trif	4.90	101	1091637	50.00 ug/Kg	100
13) Acetone	4.90	43	187610	100.00 ug/Kg	100
14) Carbon disulfide	5.17	76	1313214	50.00 ug/Kg	100
15) Methyl acetate	5.35	43	195220	50.00 ug/Kg	100
16) Methylene chloride	5.50	84	428922	50.00 ug/Kg	100
17) trans-1,2-Dichloroethene	5.88	96	484374	50.00 ug/Kg	100
18) Methyl tert-butyl ether	5.87	73	769275	50.00 ug/Kg	100
19) 1,1-Dichloroethane	6.45	63	947993	50.00 ug/Kg	100
20) cis-1,2-Dichloroethene	7.23	96	492903	50.00 ug/Kg	100
21) 2-Butanone	7.23	43	228522	100.00 ug/Kg	100
23) Bromochloromethane	7.56	128	325598	50.00 ug/Kg	100
24) Chloroform	7.65	83	1190334	50.00 ug/Kg	100

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

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
Acq Time : 06/04/2015 21:19 Operator: CQC
Sample : VSTD050SS VSTD050SS 50 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 2.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:44 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) 1,2-Dichloroethane	8.42	62	680858	50.00 ug/Kg	100
28) 1,4-Dioxane	9.72	88	43829	1000.00 ug/Kg	100
31) 1,1,1-Trichloroethane	7.92	97	1091876	50.00 ug/Kg	100
32) Cyclohexane	8.00	56	587157	50.00 ug/Kg	98
33) Carbon tetrachloride	8.15	117	1129559	50.00 ug/Kg	99
34) Benzene	8.41	78	1182902	50.00 ug/Kg#	100
36) Trichloroethene	9.25	95	613413	50.00 ug/Kg	100
37) Methylcyclohexane	9.53	55	552779	50.00 ug/Kg	100
38) 1,2-Dichloropropane	9.55	63	476622	50.00 ug/Kg	100
40) Bromodichloromethane	9.91	83	1260815	50.00 ug/Kg	100
41) cis-1,3-Dichloropropene	10.50	75	785441	50.00 ug/Kg	100
43) trans-1,3-Dichloropropene	11.25	75	636692	50.00 ug/Kg	100
45) 1,1,2-Trichloroethane	11.51	97	367020	50.00 ug/Kg	100
46) Dibromochloromethane	12.06	129	977977	50.00 ug/Kg	100
47) 4-Methyl-2-pentanone	10.70	43	523439	100.00 ug/Kg	100
48) Toluene	10.97	91	1264413	50.00 ug/Kg	100
50) Tetrachloroethene	11.73	164	493671	50.00 ug/Kg	100
51) 2-Hexanone	11.84	43	381091	100.00 ug/Kg	100
53) 1,2-Dibromoethane	12.24	107	654141	50.00 ug/Kg	100
54) Chlorobenzene	12.91	112	1004709	50.00 ug/Kg	100
55) Ethylbenzene	13.06	91	1496532	50.00 ug/Kg	100
56) m,p-Xylene	13.22	106	547577	50.00 ug/Kg	99
57) o-Xylene	13.79	106	576380	50.00 ug/Kg	100
58) Styrene	13.80	104	957582	50.00 ug/Kg	100
59) Isopropylbenzene	14.30	105	1702635	50.00 ug/Kg	100
60) 1,1,2,2-Tetrachloroethane	14.72	83	610581	50.00 ug/Kg	100
63) Bromoform	14.07	173	619263	50.00 ug/Kg	100
64) 1,3-Dichlorobenzene	16.14	146	837805	50.00 ug/Kg	99
65) 1,4-Dichlorobenzene	16.27	146	906252	50.00 ug/Kg	99
66) 1,2-Dichlorobenzene	16.82	146	841598	50.00 ug/Kg	100
68) 1,2-Dibromo-3-chloropropan	17.97	75	158672	50.00 ug/Kg	100
69) 1,2,4-Trichlorobenzene	19.22	180	619132	50.00 ug/Kg	100
70) 1,2,3-Trichlorobenzene	19.96	180	564102	50.00 ug/Kg	100

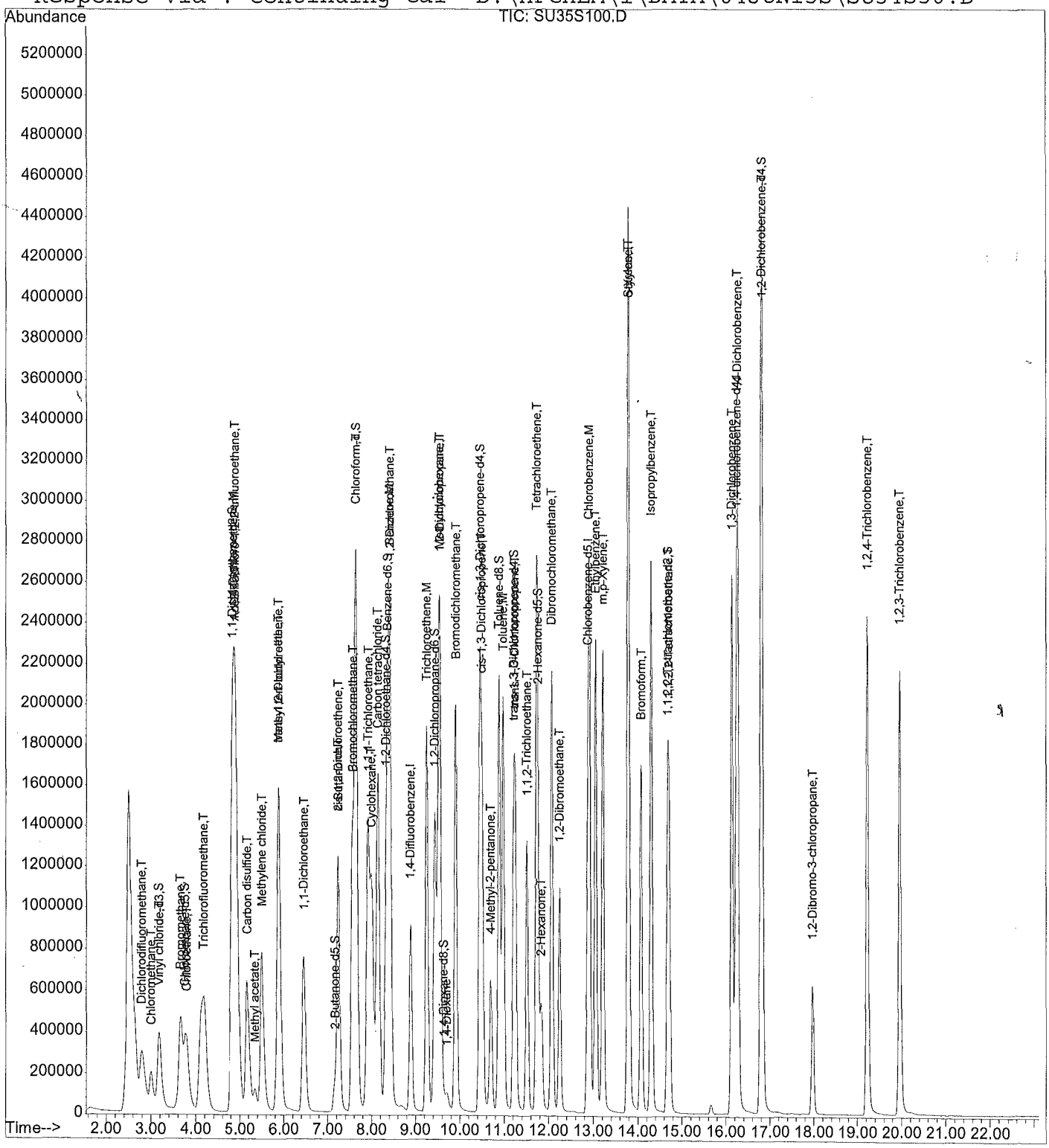
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU35S100.D
Acq Time : 06/04/2015 21:49 Operator: CQC
Sample : VSTD100SS VSTD100SS 100 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 5.0 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:12 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:50:48 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D



Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU35S100.D
Acq Time : 06/04/2015 21:49 Operator: CQC
Sample : VSTD100SS VSTD100SS 100 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 5.0 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:12 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1377471	50.00 ug/Kg	104.35
30) Chlorobenzene-d5	12.87	117	1139640	50.00 ug/Kg	106.47
62) 1,4-dichlorobenzene-d4	16.22	152	660095	50.00 ug/Kg	108.50
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	804167	101.17 ug/Kg	202.35%#
8) Chloroethane-d5	3.76	69	777760	102.36 ug/Kg	204.72%#
11) 1,1-Dichloroethene-d2	4.82	63	2716772	102.05 ug/Kg	204.11%#
22) 2-Butanone-d5	7.15	46	446904	197.19 ug/Kg	197.19%#
25) Chloroform-d	7.62	84	2689142	99.37 ug/Kg	198.74%#
27) 1,2-Dichloroethane-d4	8.31	65	1248592	98.20 ug/Kg	196.40%#
29) 1,4-Dioxane-d8	9.64	96	87141	1979.28 ug/Kg	197.93%#
35) Benzene-d6	8.35	84	2773320	102.38 ug/Kg	204.75%#
39) 1,2-Dichloropropane-d6	9.43	67	1304952	96.06 ug/Kg	192.13%#
42) cis-1,3-Dichloropropene-d4	10.45	79	2272979	99.17 ug/Kg	198.35%
44) trans-1,3-Dichloropropene-	11.20	79	1324916	99.05 ug/Kg	198.11%#
49) Toluene-d8	10.88	98	2595646	104.65 ug/Kg	209.30%#
52) 2-Hexanone-d5	11.76	63	314717	184.44 ug/Kg	184.44%#
61) 1,1,2,2-Tetrachloroethane-	14.67	84	1372595	97.74 ug/Kg	195.48%#
67) 1,2-Dichlorobenzene-d4	16.79	152	1251785	102.67 ug/Kg	205.34%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.79	85	1189513	95.86 ug/Kg#	100
3) Chloromethane	3.00	50	615814	91.24 ug/Kg	98
4) Vinyl chloride	3.18	62	676180	96.26 ug/Kg	99
6) Bromomethane	3.65	94	1042541	100.14 ug/Kg	99
7) Chloroethane	3.80	64	519754	99.12 ug/Kg	99
9) Trichlorofluoromethane	4.17	101	2366731	96.57 ug/Kg	100
10) 1,1-Dichloroethene	4.84	96	898496	98.57 ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	4.90	101	2212151	97.10 ug/Kg	99
13) Acetone	4.90	43	387976	198.19 ug/Kg	98
14) Carbon disulfide	5.16	76	2639149	96.30 ug/Kg	99
15) Methyl acetate	5.35	43	377179	92.58 ug/Kg	100
16) Methylene chloride	5.50	84	864324	96.56 ug/Kg	98
17) trans-1,2-Dichloroethene	5.88	96	994739	98.41 ug/Kg	99
18) Methyl tert-butyl ether	5.87	73	1535158	95.62 ug/Kg	98
19) 1,1-Dichloroethane	6.45	63	1886415	95.35 ug/Kg	100
20) cis-1,2-Dichloroethene	7.23	96	996919	96.92 ug/Kg	100
21) 2-Butanone	7.23	43	457660	191.93 ug/Kg	98
23) Bromochloromethane	7.55	128	654455	96.31 ug/Kg	99
24) Chloroform	7.64	83	2387757	96.12 ug/Kg	99

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

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU35S100.D
Acq Time : 06/04/2015 21:49 Operator: CQC
Sample : VSTD100SS VSTD100SS 100 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 5.0 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:12 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	8.42	62	1400153	98.54 ug/Kg	99
28)	1,4-Dioxane	9.71	88	86560	1892.69 ug/Kg	96
31)	1,1,1-Trichloroethane	7.91	97	2191971	94.28 ug/Kg	99
32)	Cyclohexane	8.00	56	1187773	95.00 ug/Kg	98
33)	Carbon tetrachloride	8.13	117	2242340	93.23 ug/Kg	99
34)	Benzene	8.41	78	2498142	99.18 ug/Kg#	100
36)	Trichloroethene	9.25	95	1234123	94.48 ug/Kg	99
37)	Methylcyclohexane	9.52	55	1122119	95.33 ug/Kg	99
38)	1,2-Dichloropropane	9.55	63	970573	95.63 ug/Kg	98
40)	Bromodichloromethane	9.90	83	2513664	93.63 ug/Kg	100
41)	cis-1,3-Dichloropropene	10.50	75	1591944	95.19 ug/Kg	99
43)	trans-1,3-Dichloropropene	11.24	75	1328924	98.02 ug/Kg	99
45)	1,1,2-Trichloroethane	11.51	97	740361	94.73 ug/Kg	99
46)	Dibromochloromethane	12.06	129	1987806	95.46 ug/Kg	98
47)	4-Methyl-2-pentanone	10.69	43	1020246	183.07 ug/Kg	100
48)	Toluene	10.97	91	2708486	100.60 ug/Kg	100
50)	Tetrachloroethene	11.73	164	1024603	97.47 ug/Kg	100
51)	2-Hexanone	11.83	43	778081	191.77 ug/Kg	99
53)	1,2-Dibromoethane	12.24	107	1314792	94.39 ug/Kg	99
54)	Chlorobenzene	12.91	112	2131644	99.64 ug/Kg	99
55)	Ethylbenzene	13.04	91	3214500	100.87 ug/Kg	100
56)	m,p-Xylene	13.21	106	1189124	101.99 ug/Kg	99
57)	o-Xylene	13.77	106	1234926	100.62 ug/Kg	98
58)	Styrene	13.79	104	2111897	103.57 ug/Kg	97
59)	Isopropylbenzene	14.29	105	3678831	101.47 ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.71	83	1231988	94.76 ug/Kg	99
63)	Bromoform	14.07	173	1301031	96.82 ug/Kg	100
64)	1,3-Dichlorobenzene	16.13	146	1797226	98.86 ug/Kg	98
65)	1,4-Dichlorobenzene	16.26	146	1940823	98.69 ug/Kg	95
66)	1,2-Dichlorobenzene	16.81	146	1821835	99.76 ug/Kg	98
68)	1,2-Dibromo-3-chloropropan	17.96	75	305100	88.61 ug/Kg	98
69)	1,2,4-Trichlorobenzene	19.21	180	1236378	92.03 ug/Kg	99
70)	1,2,3-Trichlorobenzene	19.95	180	1110836	90.75 ug/Kg	99

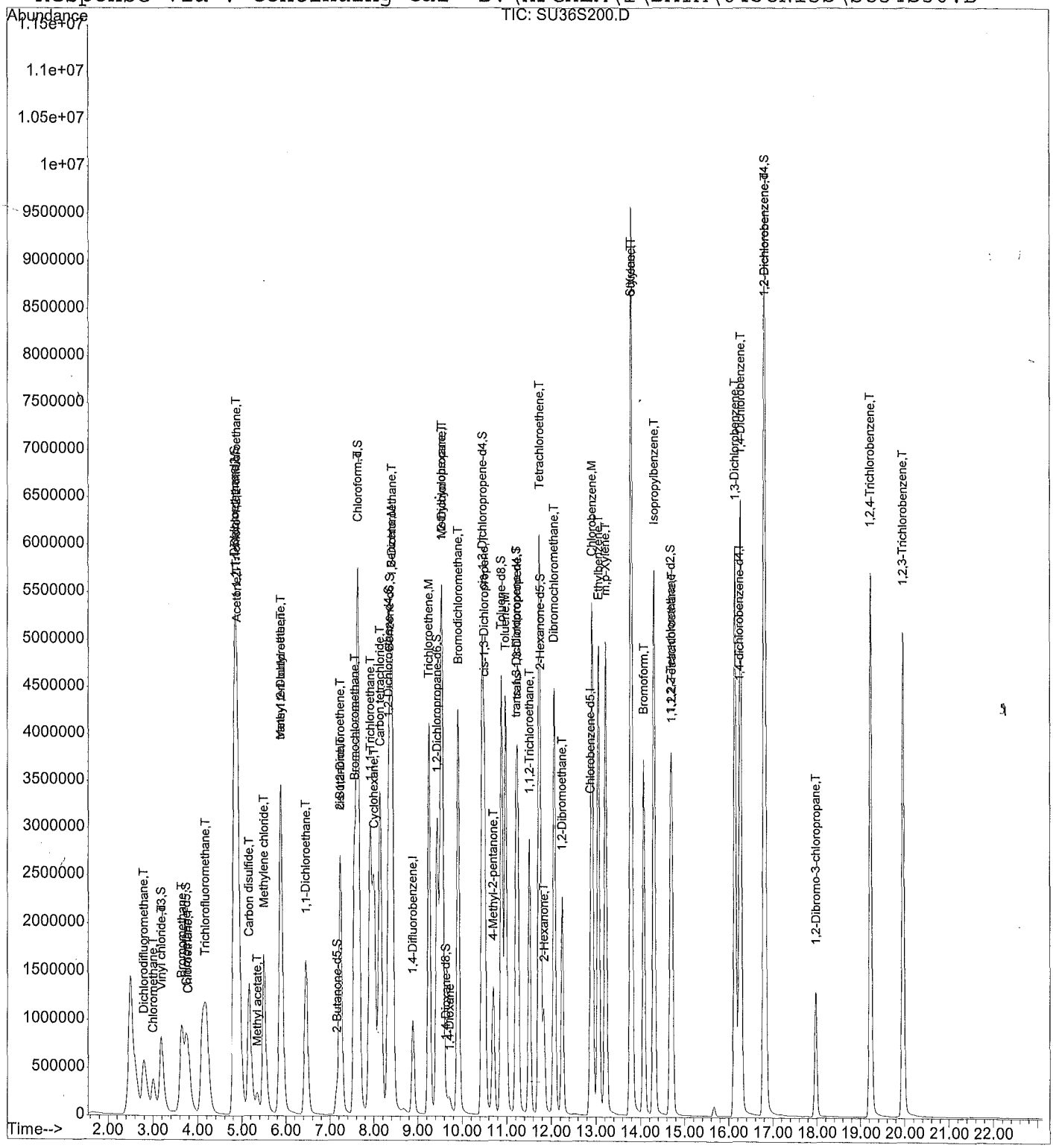
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU36S200.D
Acq Time : 06/04/2015 22:20 Operator: CQC
Sample : VSTD200SS VSTD200SS 200 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 10 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:43 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:50:48 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D



Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU36S200.D
Acq Time : 06/04/2015 22:20 Operator: CQC
Sample : VSTD200SS VSTD200SS 200 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 10 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:43 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1490772	50.00 ug/Kg	112.93
30) Chlorobenzene-d5	12.87	117	1253866	50.00 ug/Kg	117.14
62) 1,4-dichlorobenzene-d4	16.22	152	761190	50.00 ug/Kg	125.11
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	1663918	193.43 ug/Kg	386.86%#
8) Chloroethane-d5	3.74	69	1632959	198.58 ug/Kg	397.15%#
11) 1,1-Dichloroethene-d2	4.83	63	5813839	201.79 ug/Kg	403.59%#
22) 2-Butanone-d5	7.15	46	935997	381.60 ug/Kg	381.60%#
25) Chloroform-d	7.62	84	5675548	193.79 ug/Kg	387.58%#
27) 1,2-Dichloroethane-d4	8.32	65	2583206	187.72 ug/Kg	375.45%#
29) 1,4-Dioxane-d8	9.64	96	179984	3777.36 ug/Kg	377.74%#
35) Benzene-d6	8.35	84	5937889	199.23 ug/Kg	398.46%#
39) 1,2-Dichloropropane-d6	9.43	67	2832121	189.49 ug/Kg	378.99%#
42) cis-1,3-Dichloropropene-d4	10.45	79	5058004	200.59 ug/Kg	401.17%#
44) trans-1,3-Dichloropropene-	11.20	79	2974448	202.12 ug/Kg	404.24%#
49) Toluene-d8	10.88	98	5817324	213.17 ug/Kg	426.35%#
52) 2-Hexanone-d5	11.76	63	657853	350.41 ug/Kg	350.41%#
61) 1,1,2,2-Tetrachloroethane-	14.68	84	2860684	185.14 ug/Kg	370.29%#
67) 1,2-Dichlorobenzene-d4	16.79	152	2863053	203.63 ug/Kg	407.27%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.79	85	2466707	183.67 ug/Kg#	99
3) Chloromethane	3.01	50	1289628	176.55 ug/Kg	99
4) Vinyl chloride	3.18	62	1418579	186.61 ug/Kg	99
6) Bromomethane	3.64	94	2264096	200.95 ug/Kg	99
7) Chloroethane	3.78	64	1111186	195.81 ug/Kg	97
9) Trichlorofluoromethane	4.17	101	5284427	199.23 ug/Kg	99
10) 1,1-Dichloroethene	4.84	96	1986655	201.38 ug/Kg	96
12) 1,1,2-Trichloro-1,2,2-trif	4.89	101	4788867	194.23 ug/Kg	98
13) Acetone	4.89	43	811278	382.92 ug/Kg	96
14) Carbon disulfide	5.16	76	5520835	186.14 ug/Kg	98
15) Methyl acetate	5.35	43	756251	171.52 ug/Kg	98
16) Methylene chloride	5.50	84	1815412	187.40 ug/Kg	98
17) trans-1,2-Dichloroethene	5.88	96	2161097	197.54 ug/Kg	98
18) Methyl tert-butyl ether	5.87	73	3296792	189.75 ug/Kg	98
19) 1,1-Dichloroethane	6.45	63	3996181	186.64 ug/Kg	99
20) cis-1,2-Dichloroethene	7.23	96	2189216	196.65 ug/Kg	99
21) 2-Butanone	7.23	43	979028	379.37 ug/Kg	97
23) Bromochloromethane	7.55	128	1404807	191.03 ug/Kg	94
24) Chloroform	7.64	83	5028404	187.04 ug/Kg	99

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

: 00092

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU36S200.D
Acq Time : 06/04/2015 22:20 Operator: CQC
Sample : VSTD200SS VSTD200SS 200 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 10 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:43 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	8.42	62	2908392	189.13 ug/Kg	98
28)	1,4-Dioxane	9.72	88	178377	3603.90 ug/Kg	97
31)	1,1,1-Trichloroethane	7.92	97	4625057	180.81 ug/Kg	99
32)	Cyclohexane	7.99	56	2524854	183.55 ug/Kg	99
33)	Carbon tetrachloride	8.13	117	4712973	178.10 ug/Kg	97
34)	Benzene	8.41	78	5335295	192.52 ug/Kg#	98
36)	Trichloroethene	9.24	95	2673803	186.06 ug/Kg	98
37)	Methylcyclohexane	9.52	55	2471072	190.81 ug/Kg	98
38)	1,2-Dichloropropane	9.55	63	2163816	193.78 ug/Kg	95
40)	Bromodichloromethane	9.90	83	5346183	180.99 ug/Kg	100
41)	cis-1,3-Dichloropropene	10.50	75	3592321	195.22 ug/Kg	96
43)	trans-1,3-Dichloropropene	11.24	75	2972849	199.30 ug/Kg	96
45)	1,1,2-Trichloroethane	11.51	97	1612409	187.52 ug/Kg	98
46)	Dibromochloromethane	12.07	129	4262431	186.04 ug/Kg	96
47)	4-Methyl-2-pentanone	10.69	43	2099825	342.47 ug/Kg	99
48)	Toluene	10.97	91	6094197	205.73 ug/Kg	99
50)	Tetrachloroethene	11.73	164	2359190	203.98 ug/Kg	99
51)	2-Hexanone	11.83	43	1629821	365.10 ug/Kg	99
53)	1,2-Dibromoethane	12.24	107	2767368	180.58 ug/Kg	99
54)	Chlorobenzene	12.91	112	4679477	198.81 ug/Kg	98
55)	Ethylbenzene	13.05	91	7184031	204.91 ug/Kg	100
56)	m,p-Xylene	13.21	106	2660685	207.41 ug/Kg	98
57)	o-Xylene	13.78	106	2819150	208.78 ug/Kg	99
58)	Styrene	13.79	104	4766477	212.47 ug/Kg	95
59)	Isopropylbenzene	14.30	105	8122961	203.64 ug/Kg	98
60)	1,1,2,2-Tetrachloroethane	14.72	83	2588659	180.97 ug/Kg	99
63)	Bromoform	14.07	173	2852315	184.07 ug/Kg	100
64)	1,3-Dichlorobenzene	16.13	146	4200502	200.37 ug/Kg	98
65)	1,4-Dichlorobenzene	16.26	146	4396053	193.86 ug/Kg	93
66)	1,2-Dichlorobenzene	16.82	146	4109859	195.16 ug/Kg	97
68)	1,2-Dibromo-3-chloropropan	17.97	75	664292	167.31 ug/Kg	98
69)	1,2,4-Trichlorobenzene	19.22	180	3010465	194.32 ug/Kg	100
70)	1,2,3-Trichlorobenzene	19.96	180	2605190	184.57 ug/Kg	98

(#) = 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.: F9M36

Instrument ID: 5972-S Calibration Date: 06/09/2015 Time: 17:03

Lab File ID: SU80S50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S3 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.492	0.407	0.010	-17.4	40.0
Chloromethane	0.263	0.215	0.010	-18.3	40.0
Vinyl chloride	0.274	0.239	0.100	-12.9	25.0
Bromomethane	0.419	0.363	0.100	-13.3	25.0
Chloroethane	0.208	0.188	0.010	-9.3	40.0
Trichlorofluoromethane	0.945	0.850	0.010	-10.0	40.0
1,1-Dichloroethene	0.359	0.322	0.100	-10.3	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.889	0.790	0.010	-11.2	40.0
Acetone	0.093	0.073	0.010	-21.8	40.0
Carbon disulfide	1.067	0.919	0.010	-13.9	40.0
Methyl acetate	0.153	0.155	0.010	1.1	40.0
Methylene chloride	0.350	0.316	0.010	-9.6	40.0
trans-1,2-Dichloroethene	0.390	0.356	0.010	-8.8	40.0
Methyl tert-butyl ether	0.615	0.603	0.010	-1.9	40.0
1,1-Dichloroethane	0.759	0.702	0.200	-7.5	25.0
cis-1,2-Dichloroethene	0.398	0.368	0.010	-7.5	40.0
2-Butanone	0.108	0.093	0.010	-14.1	40.0
Bromochloromethane	0.259	0.247	0.050	-4.9	25.0
Chloroform	0.957	0.886	0.200	-7.5	25.0
1,1,1-Trichloroethane	1.066	0.967	0.100	-9.3	25.0
Cyclohexane	0.581	0.532	0.010	-8.4	40.0
Carbon tetrachloride	1.095	1.009	0.100	-7.8	25.0
Benzene	1.154	1.087	0.400	-5.8	25.0
1,2-Dichloroethane	0.529	0.532	0.100	0.5	25.0
1,4-Dioxane	0.0016	0.0018	0.0050	13.9	50.0
Trichloroethene	0.599	0.560	0.300	-6.4	25.0
Methylcyclohexane	0.552	0.509	0.010	-7.9	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.: F9M36

Instrument ID: 5972-S Calibration Date: 06/09/2015 Time: 17:03

Lab File ID: SU80S50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S3 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.457	0.443	0.010	-3.1	40.0
Bromodichloromethane	1.214	1.165	0.200	-4.1	25.0
cis-1,3-Dichloropropene	0.745	0.741	0.200	-0.6	25.0
4-Methyl-2-Pentanone	0.258	0.260	0.010	0.8	40.0
Toluene	1.204	1.173	0.400	-2.6	25.0
trans-1,3-Dichloropropene	0.605	0.624	0.100	3.2	25.0
1,1,2-Trichloroethane	0.350	0.358	0.100	2.4	25.0
Tetrachloroethene	0.474	0.462	0.100	-2.6	25.0
2-Hexanone	0.222	0.194	0.010	-12.5	40.0
Dibromochloromethane	0.931	0.936	0.100	0.5	25.0
1,2-Dibromoethane	0.614	0.628	0.010	2.4	40.0
Chlorobenzene	0.978	0.954	0.500	-2.5	25.0
Ethylbenzene	1.448	1.402	0.100	-3.2	25.0
o-Xylene	0.552	0.546	0.300	-1.1	25.0
m,p-Xylene	0.530	0.521	0.300	-1.8	25.0
Styrene	0.914	0.923	0.300	1.0	25.0
Bromoform	1.015	1.042	0.050	2.6	25.0
Isopropylbenzene	1.647	1.627	0.010	-1.2	40.0
1,1,2,2-Tetrachloroethane	0.591	0.610	0.300	3.3	25.0
1,3-Dichlorobenzene	1.408	1.389	0.600	-1.3	25.0
1,4-Dichlorobenzene	1.504	1.518	0.500	0.9	25.0
1,2-Dichlorobenzene	1.426	1.414	0.400	-0.9	25.0
1,2-Dibromo-3-chloropropane	0.266	0.275	0.010	3.6	40.0
1,2,4-Trichlorobenzene	1.056	1.074	0.200	1.7	25.0
1,2,3-Trichlorobenzene	0.939	0.990	0.200	5.4	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.: F9M36

Instrument ID: 5972-S Calibration Date: 06/09/2015 Time: 17:03

Lab File ID: SU80S50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S3 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.319	0.262	0.010	-17.9	25.0
Chloroethane-d5	0.304	0.267	0.010	-12.1	40.0
1,1-Dichloroethene-d2	1.052	0.924	0.010	-12.2	25.0
2-Butanone-d5	0.087	0.090	0.010	3.9	40.0
Chloroform-d	1.031	0.951	0.010	-7.7	25.0
1,2-Dichloroethane-d4	0.471	0.456	0.010	-3.3	25.0
Benzene-d6	1.230	1.148	0.010	-6.6	25.0
1,2-Dichloropropane-d6	0.606	0.574	0.010	-5.2	40.0
Toluene-d8	1.112	1.069	0.010	-3.9	25.0
trans-1,3-Dichloropropene-d4	0.585	0.600	0.010	2.6	25.0
2-Hexanone-d5	0.078	0.080	0.010	3.4	40.0
1,4-Dioxane-d8	0.0015	0.0017	0.0050	18.5	50.0
1,1,2,2-Tetrachloroethane-d2	0.625	0.641	0.010	2.6	25.0
1,2-Dichlorobenzene-d4	0.959	0.928	0.010	-3.2	25.0

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

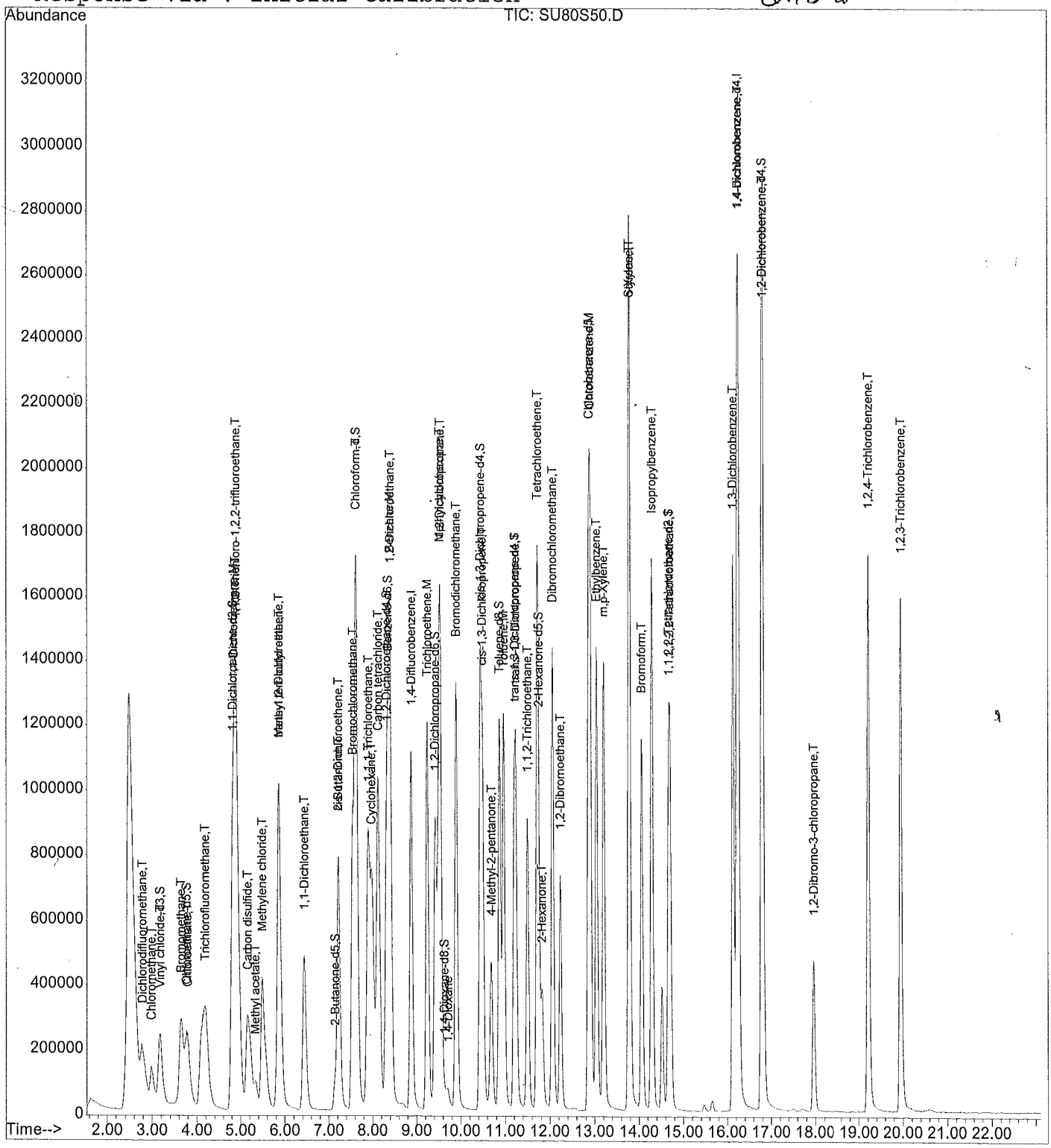
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU80S50.D
Acq Time : 06/09/2015 17:03 Operator: CQC
Sample : VSTD050S3 VSTD050S3 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199; 2.0 uL of 28268 Multiplr: 1.00

Quant Time: Jun 9 17:26 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.15.15



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Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU80S50.D
Acq Time : 06/09/2015 17:03 Operator: CQC
Sample : VSTD050S3 VSTD050S3 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199; 2.0 uL of 28268 Multiplr: 1.00

Quant Time: Jun 9 17:26 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1733598	50.00 ug/Kg	131.32
30) Chlorobenzene-d5	12.86	117	1432581	50.00 ug/Kg	133.83
62) 1,4-dichlorobenzene-d4	16.22	152	846184	50.00 ug/Kg	139.08
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	453865	41.03 ug/Kg	82.05%
8) Chloroethane-d5	3.76	69	462811	43.97 ug/Kg	87.94%
11) 1,1-Dichloroethene-d2	4.81	63	1601892	43.92 ug/Kg	87.83%
22) 2-Butanone-d5	7.14	46	311954	103.89 ug/Kg	103.89%
25) Chloroform-d	7.61	84	1648309	46.13 ug/Kg	92.27%
27) 1,2-Dichloroethane-d4	8.31	65	790024	48.37 ug/Kg	96.75%
29) 1,4-Dioxane-d8	9.64	96	59884	1184.93 ug/Kg	118.49%
35) Benzene-d6	8.34	84	1644488	46.68 ug/Kg	93.36%
39) 1,2-Dichloropropane-d6	9.42	67	822757	47.42 ug/Kg	94.83%
42) cis-1,3-Dichloropropene-d4	10.44	79	1431901	49.26 ug/Kg	98.52%
44) trans-1,3-Dichloropropene-	11.20	79	859470	51.28 ug/Kg	102.55%
49) Toluene-d8	10.87	98	1531407	48.05 ug/Kg	96.10%
52) 2-Hexanone-d5	11.76	63	229763	103.42 ug/Kg	103.42%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	918225	51.31 ug/Kg	102.62%
67) 1,2-Dichlorobenzene-d4	16.78	152	784868	48.38 ug/Kg	96.77%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.80	85	705143	41.32 ug/Kg#	99
3) Chloromethane	2.99	50	371927	40.83 ug/Kg	97
4) Vinyl chloride	3.18	62	413506	43.54 ug/Kg	98
6) Bromomethane	3.64	94	629949	43.37 ug/Kg	100
7) Chloroethane	3.80	64	326402	45.33 ug/Kg	99
9) Trichlorofluoromethane	4.18	101	1473735	44.98 ug/Kg	100
10) 1,1-Dichloroethene	4.83	96	557400	44.83 ug/Kg	99
12) 1,1,2-Trichloro-1,2,2-trif	4.90	101	1368860	44.39 ug/Kg	99
13) Acetone	4.88	43	252680	78.19 ug/Kg	99
14) Carbon disulfide	5.16	76	1593072	43.05 ug/Kg	100
15) Methyl acetate	5.34	43	268897	50.57 ug/Kg	98
16) Methylene chloride	5.48	84	548181	45.18 ug/Kg	100
17) trans-1,2-Dichloroethene	5.87	96	617243	45.61 ug/Kg	100
18) Methyl tert-butyl ether	5.86	73	1045433	49.06 ug/Kg	99
19) 1,1-Dichloroethane	6.44	63	1217403	46.24 ug/Kg	100
20) cis-1,2-Dichloroethene	7.22	96	638246	46.26 ug/Kg	100
21) 2-Butanone	7.23	43	322591	85.92 ug/Kg	99
23) Bromochloromethane	7.54	128	427531	47.54 ug/Kg	97
24) Chloroform	7.63	83	1535781	46.26 ug/Kg	100

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

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU80S50.D
Acq Time : 06/09/2015 17:03 Operator: CQC
Sample : VSTD050S3 VSTD050S3 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199; 2.0 uL of 28268 Multiplr: 1.00

Quant Time: Jun 9 17:26 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	8.41	62	921785	50.26 ug/Kg	99
28)	1,4-Dioxane	9.71	88	62668	1139.09 ug/Kg	96
31)	1,1,1-Trichloroethane	7.89	97	1385167	45.34 ug/Kg	100
32)	Cyclohexane	7.98	56	761479	45.78 ug/Kg	97
33)	Carbon tetrachloride	8.12	117	1445923	46.09 ug/Kg	98
34)	Benzene	8.40	78	1557337	47.12 ug/Kg#	99
36)	Trichloroethene	9.24	95	802898	46.80 ug/Kg	99
37)	Methylcyclohexane	9.51	55	728660	46.05 ug/Kg	99
38)	1,2-Dichloropropane	9.54	63	634615	48.45 ug/Kg	98
40)	Bromodichloromethane	9.89	83	1668590	47.96 ug/Kg	99
41)	cis-1,3-Dichloropropene	10.49	75	1061699	49.71 ug/Kg	100
43)	trans-1,3-Dichloropropene	11.24	75	894296	51.61 ug/Kg	99
45)	1,1,2-Trichloroethane	11.50	97	512831	51.19 ug/Kg	99
46)	Dibromochloromethane	12.06	129	1340656	50.27 ug/Kg	98
47)	4-Methyl-2-pentanone	10.68	43	744126	100.84 ug/Kg	100
48)	Toluene	10.97	91	1680555	48.71 ug/Kg	100
50)	Tetrachloroethene	11.72	164	661942	48.72 ug/Kg	99
51)	2-Hexanone	11.82	43	556032	87.46 ug/Kg	99
53)	1,2-Dibromoethane	12.23	107	900361	51.18 ug/Kg	99
54)	Chlorobenzene	12.90	112	1366968	48.76 ug/Kg	100
55)	Ethylbenzene	13.04	91	2008607	48.40 ug/Kg	100
56)	m,p-Xylene	13.21	106	746276	49.11 ug/Kg	98
57)	o-Xylene	13.77	106	782082	49.47 ug/Kg	100
58)	Styrene	13.79	104	1322541	50.50 ug/Kg	98
59)	Isopropylbenzene	14.29	105	2331207	49.41 ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.70	83	874111	51.65 ug/Kg	99
63)	Bromoform	14.06	173	881557	51.30 ug/Kg	100
64)	1,3-Dichlorobenzene	16.12	146	1175459	49.33 ug/Kg	98
65)	1,4-Dichlorobenzene	16.25	146	1284207	50.47 ug/Kg	98
66)	1,2-Dichlorobenzene	16.81	146	1196245	49.57 ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	17.96	75	232835	51.81 ug/Kg	99
69)	1,2,4-Trichlorobenzene	19.21	180	909064	50.86 ug/Kg	100
70)	1,2,3-Trichlorobenzene	19.95	180	837593	52.69 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.: F9M36

Instrument ID: 5972-S Calibration Date: 06/10/2015 Time: 02:57

Lab File ID: SU99F50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S4 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.492	0.411	0.010	-16.6	50.0
Chloromethane	0.263	0.226	0.010	-14.0	50.0
Vinyl chloride	0.274	0.241	0.010	-11.9	50.0
Bromomethane	0.419	0.372	0.010	-11.1	50.0
Chloroethane	0.208	0.184	0.010	-11.3	50.0
Trichlorofluoromethane	0.945	0.826	0.010	-12.6	50.0
1,1-Dichloroethene	0.359	0.325	0.010	-9.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.889	0.807	0.010	-9.3	50.0
Acetone	0.093	0.093	0.010	-0.2	50.0
Carbon disulfide	1.067	0.949	0.010	-11.0	50.0
Methyl acetate	0.153	0.147	0.010	-4.0	50.0
Methylene chloride	0.350	0.326	0.010	-6.8	50.0
trans-1,2-Dichloroethene	0.390	0.361	0.010	-7.4	50.0
Methyl tert-butyl ether	0.615	0.589	0.010	-4.1	50.0
1,1-Dichloroethane	0.759	0.705	0.010	-7.1	50.0
cis-1,2-Dichloroethene	0.398	0.372	0.010	-6.5	50.0
2-Butanone	0.108	0.101	0.010	-6.5	50.0
Bromochloromethane	0.259	0.253	0.010	-2.4	50.0
Chloroform	0.957	0.908	0.010	-5.2	50.0
1,1,1-Trichloroethane	1.066	0.972	0.010	-8.8	50.0
Cyclohexane	0.581	0.514	0.010	-11.5	50.0
Carbon tetrachloride	1.095	1.008	0.010	-8.0	50.0
Benzene	1.154	1.077	0.010	-6.6	50.0
1,2-Dichloroethane	0.529	0.522	0.010	-1.3	50.0
1,4-Dioxane	0.0016	0.0017	0.0050	7.2	50.0
Trichloroethene	0.599	0.557	0.010	-7.0	50.0
Methylcyclohexane	0.552	0.489	0.010	-11.4	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.: F9M36

Instrument ID: 5972-S Calibration Date: 06/10/2015 Time: 02:57

Lab File ID: SU99F50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S4 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.457	0.437	0.010	-4.4	50.0
Bromodichloromethane	1.214	1.176	0.010	-3.1	50.0
cis-1,3-Dichloropropene	0.745	0.720	0.010	-3.5	50.0
4-Methyl-2-Pentanone	0.258	0.243	0.010	-5.5	50.0
Toluene	1.204	1.146	0.010	-4.8	50.0
trans-1,3-Dichloropropene	0.605	0.600	0.010	-0.8	50.0
1,1,2-Trichloroethane	0.350	0.353	0.010	0.8	50.0
Tetrachloroethene	0.474	0.457	0.010	-3.7	50.0
2-Hexanone	0.222	0.205	0.010	-7.5	50.0
Dibromochloromethane	0.931	0.959	0.010	3.1	50.0
1,2-Dibromoethane	0.614	0.636	0.010	3.6	50.0
Chlorobenzene	0.978	0.947	0.010	-3.3	50.0
Ethylbenzene	1.448	1.382	0.010	-4.6	50.0
o-Xylene	0.552	0.540	0.010	-2.2	50.0
m,p-Xylene	0.530	0.506	0.010	-4.6	50.0
Styrene	0.914	0.914	0.010	-0.1	50.0
Bromoform	1.015	1.039	0.010	2.3	50.0
Isopropylbenzene	1.647	1.591	0.010	-3.4	50.0
1,1,2,2-Tetrachloroethane	0.591	0.602	0.010	1.8	50.0
1,3-Dichlorobenzene	1.408	1.346	0.010	-4.4	50.0
1,4-Dichlorobenzene	1.504	1.491	0.010	-0.8	50.0
1,2-Dichlorobenzene	1.426	1.381	0.010	-3.2	50.0
1,2-Dibromo-3-chloropropane	0.266	0.255	0.010	-4.0	50.0
1,2,4-Trichlorobenzene	1.056	1.008	0.010	-4.6	50.0
1,2,3-Trichlorobenzene	0.939	0.914	0.010	-2.7	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.: F9M36

Instrument ID: 5972-S Calibration Date: 06/10/2015 Time: 02:57

Lab File ID: SU99F50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S4 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.319	0.271	0.010	-15.2	50.0
Chloroethane-d5	0.304	0.265	0.010	-12.6	50.0
1,1-Dichloroethene-d2	1.052	0.938	0.010	-10.9	50.0
2-Butanone-d5	0.087	0.090	0.010	4.2	50.0
Chloroform-d	1.031	0.977	0.010	-5.2	50.0
1,2-Dichloroethane-d4	0.471	0.461	0.010	-2.1	50.0
Benzene-d6	1.230	1.140	0.010	-7.3	50.0
1,2-Dichloropropane-d6	0.606	0.575	0.010	-5.1	50.0
Toluene-d8	1.112	1.062	0.010	-4.6	50.0
trans-1,3-Dichloropropene-d4	0.585	0.579	0.010	-1.0	50.0
2-Hexanone-d5	0.078	0.079	0.010	1.5	50.0
1,4-Dioxane-d8	0.0015	0.0017	0.0050	18.1	50.0
1,1,2,2-Tetrachloroethane-d2	0.625	0.640	0.010	2.4	50.0
1,2-Dichlorobenzene-d4	0.959	0.928	0.010	-3.1	50.0

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

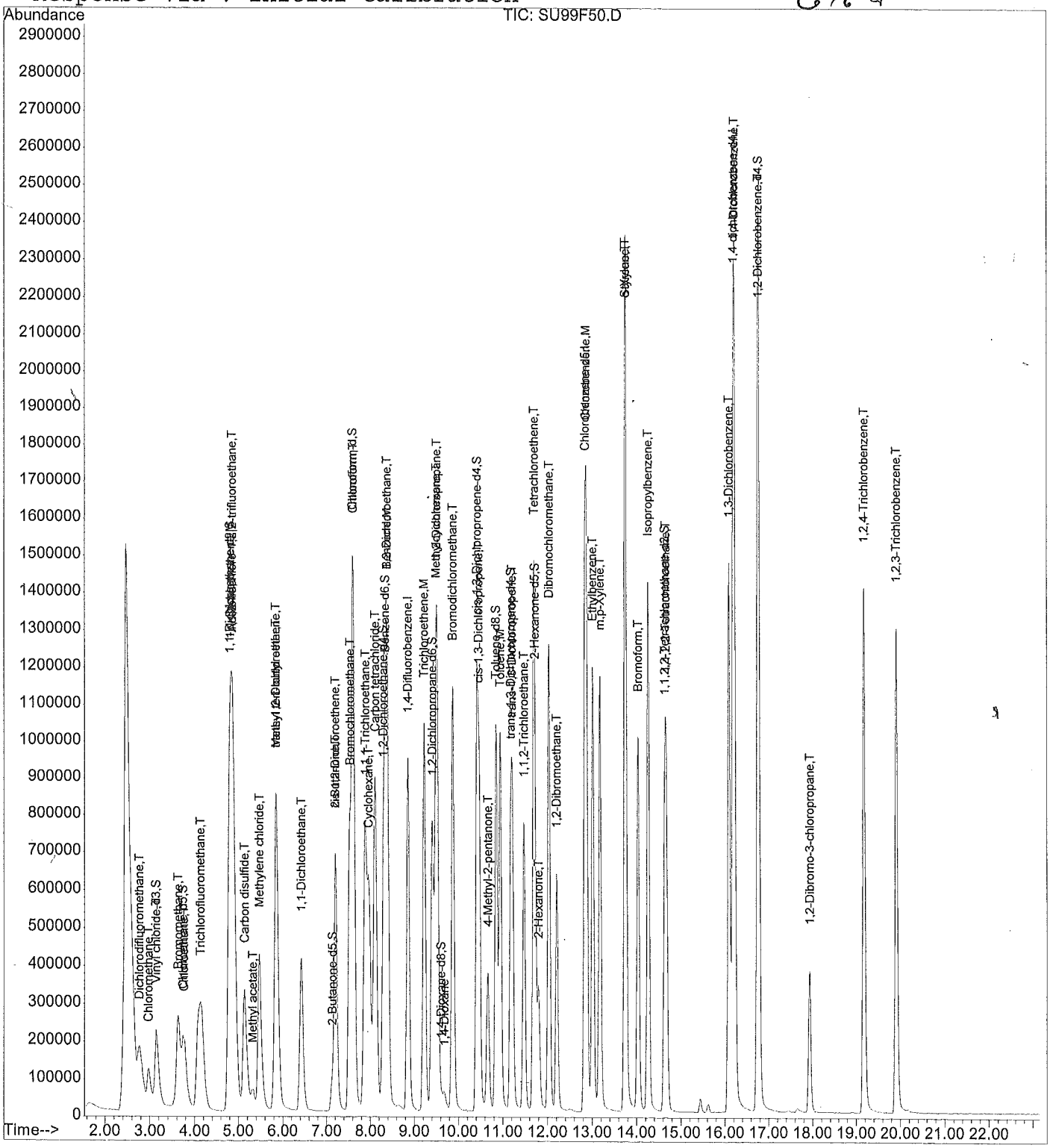
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU99F50.D
Acq Time : 06/10/2015 02:57 Operator: CQC
Sample : VSTD050S4 VSTD050S4 50 ug/Kg FCS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 10 3:19 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 16 17:27:26 2015
Response via : Initial Calibration

6/16/15



00183

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU99F50.D
Acq Time : 06/10/2015 02:57 Operator: CQC
Sample : VSTD050S4 VSTD050S4 50 ug/Kg FCS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 10 3:19 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1459258	50.00 ug/Kg	110.54
30) Chlorobenzene-d5	12.83	117	1215256	50.00 ug/Kg	113.53
62) 1,4-dichlorobenzene-d4	16.18	152	733204	50.00 ug/Kg	120.51
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	3.15	65	394790	42.40 ug/Kg	84.79%
8) Chloroethane-d5	3.75	69	387317	43.71 ug/Kg	87.43%
11) 1,1-Dichloroethene-d2	4.80	63	1368290	44.56 ug/Kg	89.13%
22) 2-Butanone-d5	7.12	46	263455	104.23 ug/Kg	104.23%
25) Chloroform-d	7.59	84	1426128	47.42 ug/Kg	94.84%
27) 1,2-Dichloroethane-d4	8.29	65	672658	48.93 ug/Kg	97.86%
29) 1,4-Dioxane-d8	9.61	96	50256	1181.37 ug/Kg	118.14%
35) Benzene-d6	8.32	84	1385070	46.35 ug/Kg	92.69%
39) 1,2-Dichloropropane-d6	9.40	67	698638	47.46 ug/Kg	94.93%
42) cis-1,3-Dichloropropene-d4	10.42	79	1191193	48.31 ug/Kg	96.61%
44) trans-1,3-Dichloropropene-	11.17	79	703938	49.51 ug/Kg	99.02%
49) Toluene-d8	10.84	98	1290229	47.72 ug/Kg	95.44%
52) 2-Hexanone-d5	11.73	63	191263	101.49 ug/Kg	101.49%
61) 1,1,2,2-Tetrachloroethane-	14.63	84	777272	51.20 ug/Kg	102.40%
67) 1,2-Dichlorobenzene-d4	16.75	152	680727	48.43 ug/Kg	96.86%
Target Compounds					**Qvalue**
2) Dichlorodifluoromethane	2.77	85	599295	41.72 ug/Kg#	100
3) Chloromethane	2.97	50	329639	42.99 ug/Kg	99
4) Vinyl chloride	3.15	62	352296	44.07 ug/Kg	100
6) Bromomethane	3.63	94	543349	44.44 ug/Kg	99
7) Chloroethane	3.77	64	268684	44.33 ug/Kg	100
9) Trichlorofluoromethane	4.14	101	1205241	43.70 ug/Kg	99
10) 1,1-Dichloroethene	4.81	96	474331	45.32 ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	4.87	101	1177518	45.36 ug/Kg	99
13) Acetone	4.87	43	271536	99.83 ug/Kg	100
14) Carbon disulfide	5.14	76	1385527	44.48 ug/Kg	99
15) Methyl acetate	5.32	43	214757	47.98 ug/Kg	99
16) Methylene chloride	5.47	84	475976	46.60 ug/Kg	99
17) trans-1,2-Dichloroethene	5.85	96	527192	46.28 ug/Kg	99
18) Methyl tert-butyl ether	5.84	73	860185	47.95 ug/Kg	100
19) 1,1-Dichloroethane	6.43	63	1029310	46.44 ug/Kg	99
20) cis-1,2-Dichloroethene	7.20	96	542697	46.73 ug/Kg	100
21) 2-Butanone	7.20	43	295496	93.50 ug/Kg	99
23) Bromochloromethane	7.53	128	369565	48.82 ug/Kg	96
24) Chloroform	7.62	83	1324361	47.39 ug/Kg	99

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

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU99F50.D
Acq Time : 06/10/2015 02:57 Operator: CQC
Sample : VSTD050S4 VSTD050S4 50 ug/Kg FCS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 10 3:19 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	8.38	62	761987	49.36 ug/Kg	99
28)	1,4-Dioxane	9.69	88	49650	1072.13 ug/Kg	96
31)	1,1,1-Trichloroethane	7.88	97	1181644	45.60 ug/Kg	100
32)	Cyclohexane	7.97	56	624166	44.24 ug/Kg	99
33)	Carbon tetrachloride	8.11	117	1224809	46.02 ug/Kg	99
34)	Benzene	8.37	78	1308871	46.68 ug/Kg#	98
36)	Trichloroethene	9.22	95	676461	46.48 ug/Kg	99
37)	Methylcyclohexane	9.49	55	594621	44.29 ug/Kg	99
38)	1,2-Dichloropropane	9.52	63	530949	47.78 ug/Kg	97
40)	Bromodichloromethane	9.87	83	1429104	48.43 ug/Kg	99
41)	cis-1,3-Dichloropropene	10.47	75	874448	48.27 ug/Kg	99
43)	trans-1,3-Dichloropropene	11.22	75	728787	49.58 ug/Kg	98
45)	1,1,2-Trichloroethane	11.47	97	428401	50.41 ug/Kg	99
46)	Dibromochloromethane	12.03	129	1165811	51.53 ug/Kg	98
47)	4-Methyl-2-pentanone	10.67	43	591462	94.49 ug/Kg	100
48)	Toluene	10.94	91	1393257	47.60 ug/Kg	100
50)	Tetrachloroethene	11.69	164	554853	48.14 ug/Kg	100
51)	2-Hexanone	11.80	43	498839	92.49 ug/Kg	99
53)	1,2-Dibromoethane	12.20	107	772844	51.78 ug/Kg	100
54)	Chlorobenzene	12.87	112	1150241	48.37 ug/Kg	99
55)	Ethylbenzene	13.01	91	1679556	47.71 ug/Kg	100
56)	m,p-Xylene	13.18	106	615031	47.71 ug/Kg	99
57)	o-Xylene	13.74	106	656089	48.92 ug/Kg	99
58)	Styrene	13.76	104	1110150	49.97 ug/Kg	99
59)	Isopropylbenzene	14.26	105	1932996	48.30 ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.67	83	730977	50.92 ug/Kg	99
63)	Bromoform	14.03	173	761709	51.16 ug/Kg	100
64)	1,3-Dichlorobenzene	16.09	146	986988	47.80 ug/Kg	99
65)	1,4-Dichlorobenzene	16.22	146	1093426	49.59 ug/Kg	97
66)	1,2-Dichlorobenzene	16.77	146	1012422	48.42 ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	17.93	75	186882	48.00 ug/Kg	97
69)	1,2,4-Trichlorobenzene	19.17	180	738787	47.71 ug/Kg	100
70)	1,2,3-Trichlorobenzene	19.91	180	670481	48.67 ug/Kg	99

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

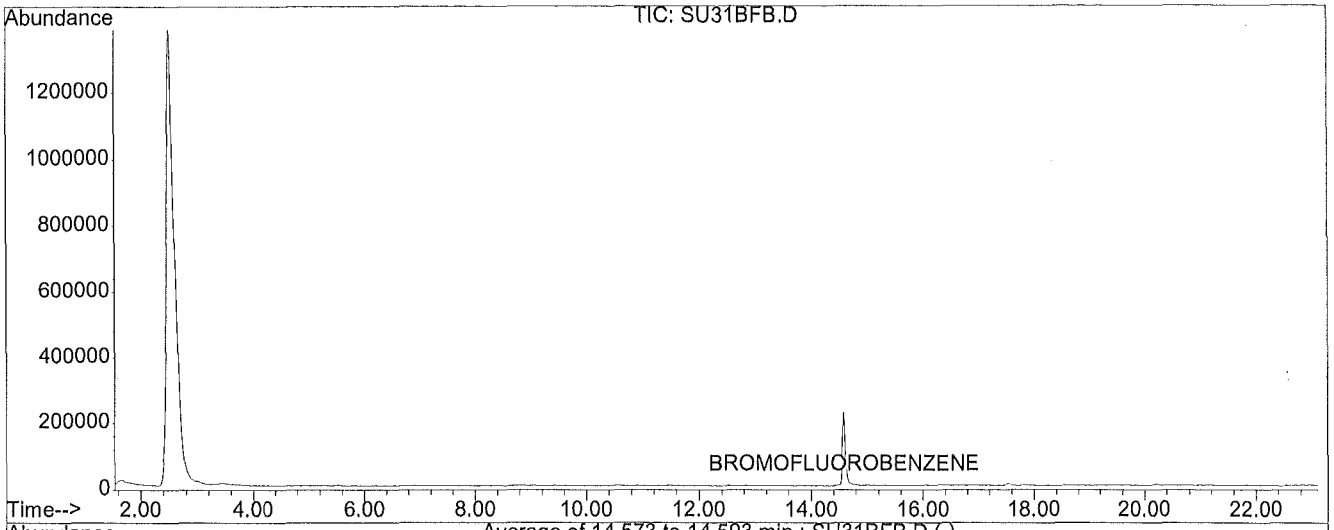
00185

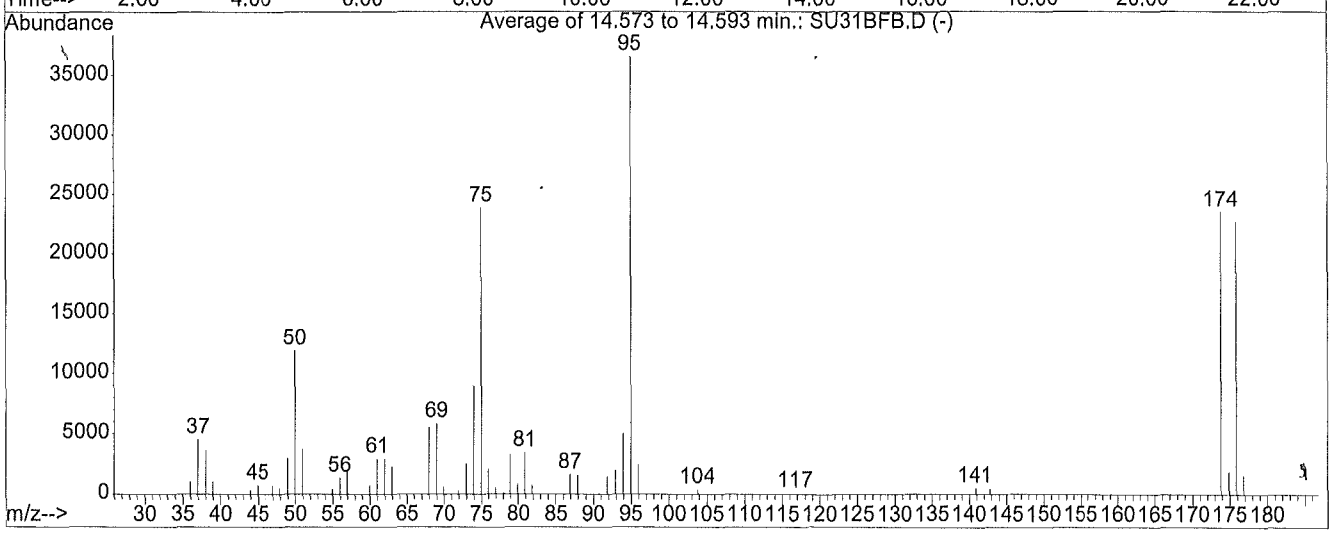
SOM01.1 BFB

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU31BFB.D
Acq Time : 06/04/2015 19:46 Operator: CQC
Sample : BFBSS 50 ng BFB Inst : 5972-S
Misc : 2.0 uL of 27660 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\BFB_SOM.M (RTE Integrator)
Title :

6.6.15





Peak Apex is scan: 1326
Average of 3 Scans: 1325,1326,1327 minus Background scan: 1318

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.6	11914	PASS
75	95	30	80	65.3	23885	PASS
95	95	100	100	100.0	36560	PASS
96	95	5	9	6.7	2460	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	64.4	23539	PASS
175	174	5	9	7.9	1859	PASS
176	174	95	101	96.5	22715	PASS
177	176	5	9	7.0	1580	PASS

BFBSS 50 ng BFB 5972-S 06/04/2015 19:46 5972-S

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU31BFB.D
Inject Time: 06/04/2015 19:46 Operator:CQC
Sample : BFBSS 5 Inst :5972-S
Misc : 2.0 uL of 27660

Average of 14.573 to 14.593 min.: SU31BFB.D
BFBSS 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1055	55.00	454	73.00	2534	87.95	1607
37.00	4528	56.00	1356	74.00	8961	90.80	130
38.05	3647	57.00	2068	75.00	23885	91.90	1492
39.00	1043	60.00	716	75.95	2033	92.95	1985
44.00	322	61.00	2930	76.95	509	94.00	5027
45.00	737	62.00	2923	78.10	120	95.00	36560
47.00	697	63.00	2315	78.90	3293	96.00	2460
47.95	512	68.00	5535	79.90	804	103.85	424
49.00	2997	69.00	5828	80.85	3412	116.80	124
50.00	11914	70.00	598	81.85	725	140.85	511
51.00	3755	71.95	260	86.90	1630	142.80	473

Average of 14.573 to 14.593 min.: SU31BFB.D
BFBSS 50 ng BFB
Modified:subtracted

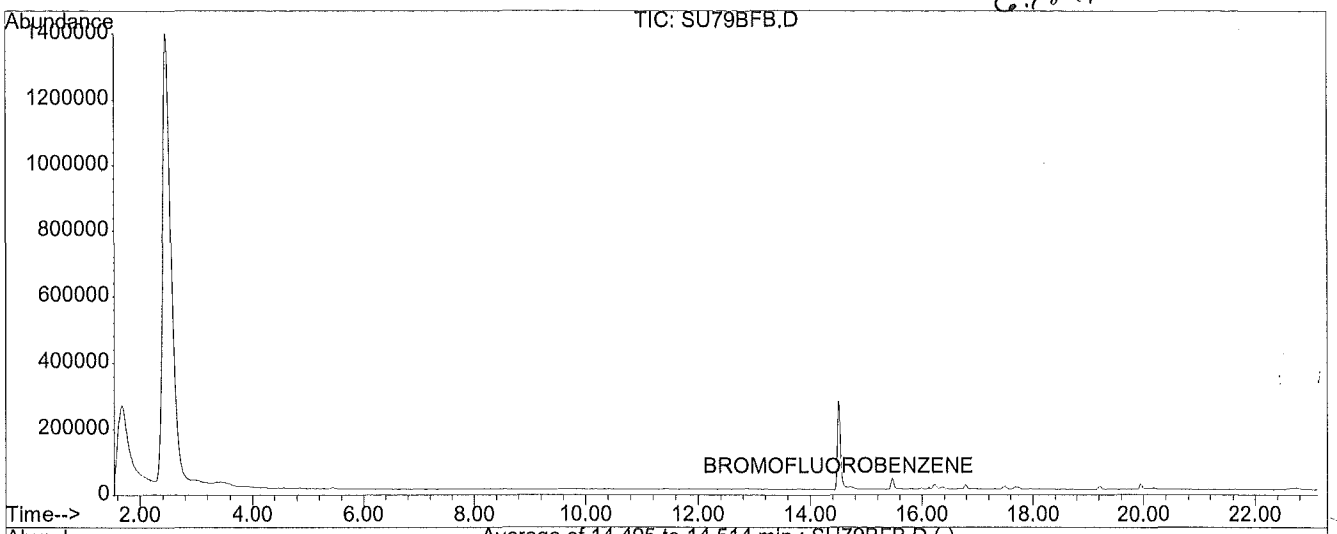
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.85	23539						
174.90	1859						
175.85	22715						
176.85	1580						

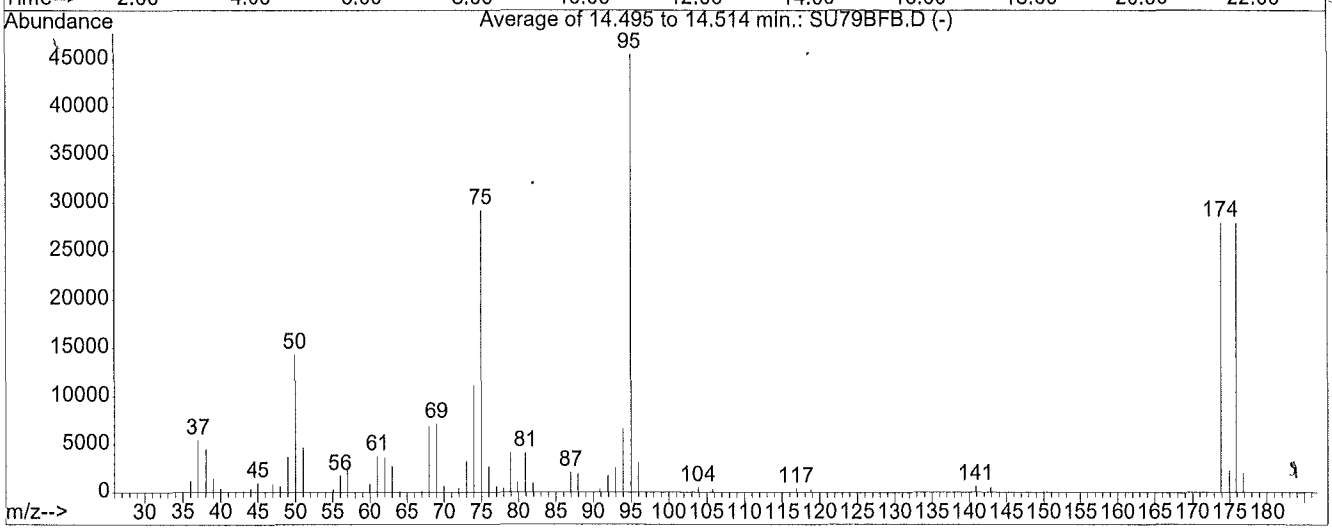
SOM01.1 BFB

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU79BFB.D
Acq Time : 06/09/2015 16:32 Operator: CQC
Sample : BFBS2 50 ng BFB Inst : 5972-S
Misc : 2.0 uL of 28268 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\BFB_SOM.M (RTE Integrator)
Title :

6.10.15





Peak Apex is scan: 1318
Average of 3 Scans: 1317,1318,1319 minus Background scan: 1310

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	31.4	14319	PASS
75	95	30	80	64.1	29203	PASS
95	95	100	100	100.0	45544	PASS
96	95	5	9	6.9	3134	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	61.3	27925	PASS
175	174	5	9	8.2	2282	PASS
176	174	95	101	99.9	27907	PASS
177	176	5	9	7.1	1985	PASS

BFBS2 50 ng BFB 5972-S 06/09/2015 16:32 5972-S

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU79BFB.D
Inject Time: 06/09/2015 16:32 Operator:CQC
Sample : BFBS2 5 Inst :5972-S
Misc : 2.0 uL of 28268

Average of 14.495 to 14.514 min.: SU79BFB.D
BFBS2 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1176	49.00	3716	67.00	134	78.90	4139
37.00	5421	50.00	14319	68.00	6884	79.85	1036
38.05	4476	51.00	4684	69.00	7131	80.90	4129
39.00	1443	55.05	326	70.00	694	81.90	956
40.00	424	56.00	1731	71.95	429	86.95	2077
41.00	68	57.00	2859	73.00	3292	87.95	1945
43.00	111	59.95	885	74.00	11136	90.85	399
44.00	347	61.00	3752	75.00	29203	91.95	1769
45.00	966	62.00	3639	76.00	2684	92.90	2513
47.00	804	63.00	2747	77.00	642	93.95	6642
48.00	680	64.00	167	77.95	411	95.00	45544

Average of 14.495 to 14.514 min.: SU79BFB.D
BFBS2 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.95	3134						
103.85	514						
105.80	380						
116.85	420						
118.80	355						
140.90	653						
142.85	512						
173.85	27925						
174.95	2282						
175.85	27907						
176.85	1985						

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

EPA SAMPLE NO.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450812

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU81BLK

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

% Moisture: not dec. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	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	0.21	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.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450812

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU81BLK

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

% Moisture: not dec. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	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	0.31	J
106-46-7	1,4-Dichlorobenzene	0.36	J
95-50-1	1,2-Dichlorobenzene	0.34	J
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.75	J
87-61-6	1,2,3-Trichlorobenzene	1.2	J

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

EPA SAMPLE NO.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450812

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU81BLK

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

% Moisture: not dec. Date Analyzed: 06/09/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (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.

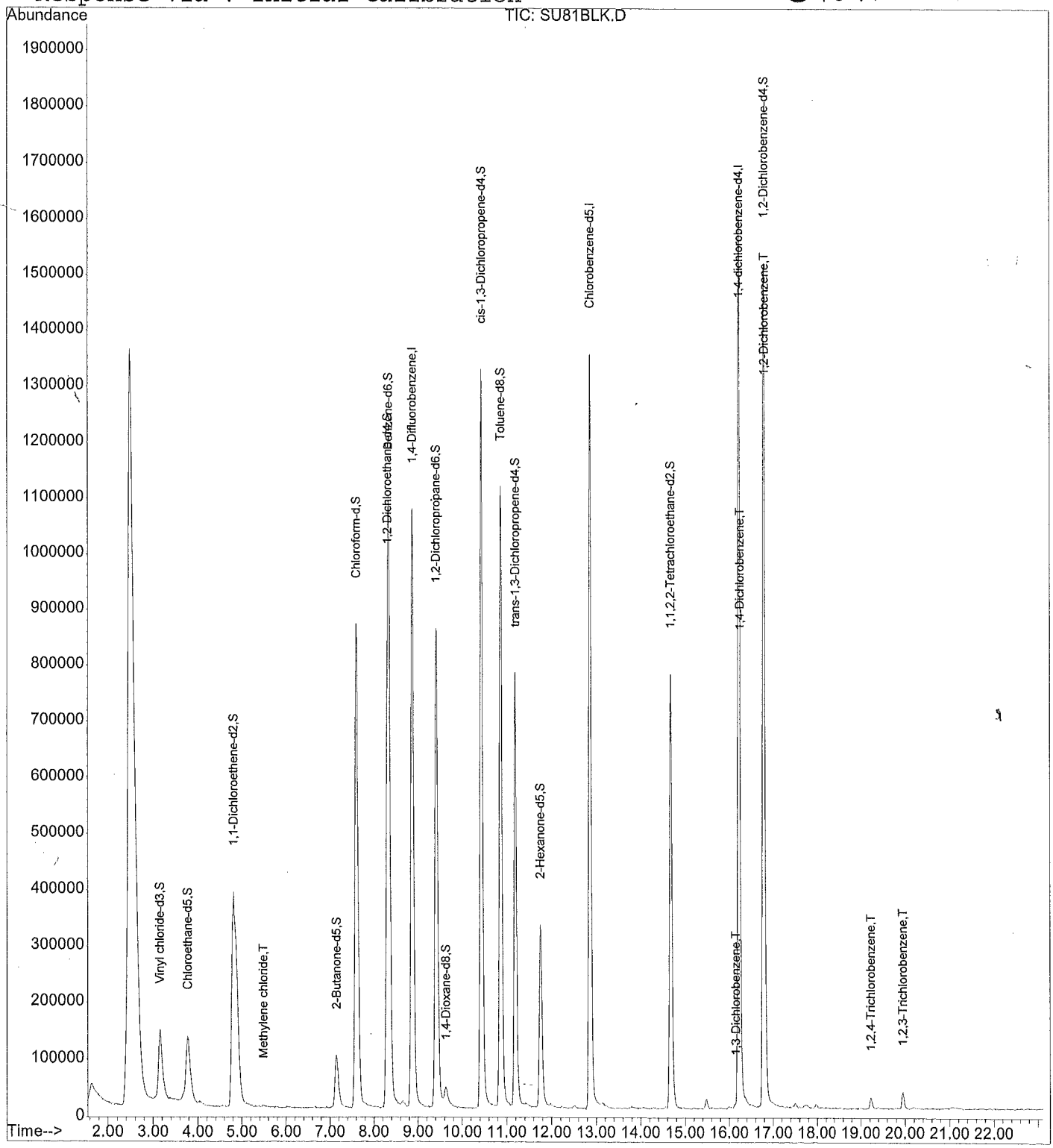
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU81BLK.D
Acq Time : 06/09/2015 17:35 Operator: CQC
Sample : 450611/450812/450814 VBLKS2 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 10 0:26 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.10.15



:00113

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU81BLK.D
Acq Time : 06/09/2015 17:35 Operator: CQC
Sample : 450611/450812/450814 VBLKS2 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 10 0:26 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.87	114	1670353	50.00 ug/Kg	126.53
30) Chlorobenzene-d5	12.87	117	1290075	50.00 ug/Kg	120.52
62) 1,4-dichlorobenzene-d4	16.22	152	738229	50.00 ug/Kg	121.34
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	464923	43.62 ug/Kg	87.24%
8) Chloroethane-d5	3.77	69	434889	42.88 ug/Kg	85.76%
11) 1,1-Dichloroethene-d2	4.82	63	1205458	34.30 ug/Kg	68.60%
22) 2-Butanone-d5	7.15	46	321136	110.99 ug/Kg	110.99%
25) Chloroform-d	7.60	84	1545816	44.90 ug/Kg	89.80%
27) 1,2-Dichloroethane-d4	8.30	65	755691	48.02 ug/Kg	96.05%
29) 1,4-Dioxane-d8	9.63	96	53239	1093.33 ug/Kg	109.33%
35) Benzene-d6	8.34	84	1574844	49.64 ug/Kg	99.28%
39) 1,2-Dichloropropane-d6	9.41	67	744695	47.66 ug/Kg	95.32%
42) cis-1,3-Dichloropropene-d4	10.44	79	1355254	51.77 ug/Kg	103.55%
44) trans-1,3-Dichloropropene-	11.19	79	788188	52.22 ug/Kg	104.44%
49) Toluene-d8	10.87	98	1416566	49.36 ug/Kg	98.71%
52) 2-Hexanone-d5	11.75	63	232883	116.41 ug/Kg	116.41%
61) 1,1,2,2-Tetrachloroethane-	14.68	84	793419	49.23 ug/Kg	98.47%
67) 1,2-Dichlorobenzene-d4	16.79	152	698089	49.33 ug/Kg	98.66%
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	5.50	84	2417	0.21 ug/Kg#	18
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\09JUN15S\SU81BLK.D
Acq Time : 06/09/2015 17:35 Operator: CQC
Sample : 450611/450812/450814 VBLKS2 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

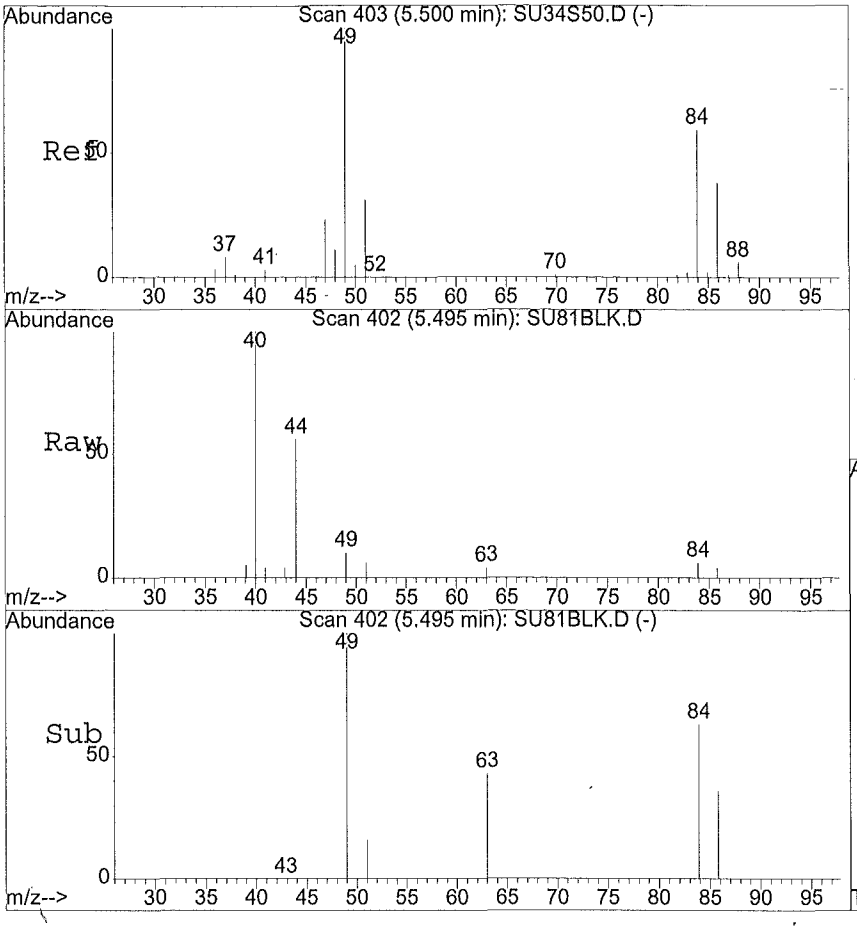
Quant Time: Jun 10 0:26 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	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	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	16.14	146	6358	0.31 ug/Kg#	57
65)	1,4-Dichlorobenzene	16.26	146	7997	0.36 ug/Kg#	1
66)	1,2-Dichlorobenzene	16.81	146	7159	0.34 ug/Kg#	1
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	19.21	180	11771	0.75 ug/Kg	97
70)	1,2,3-Trichlorobenzene	19.94	180	16793	1.21 ug/Kg	97

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

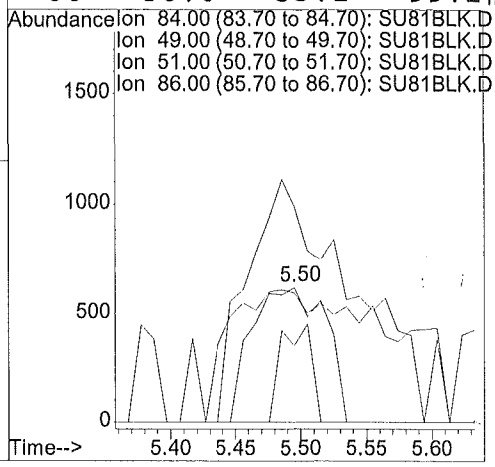
:00115

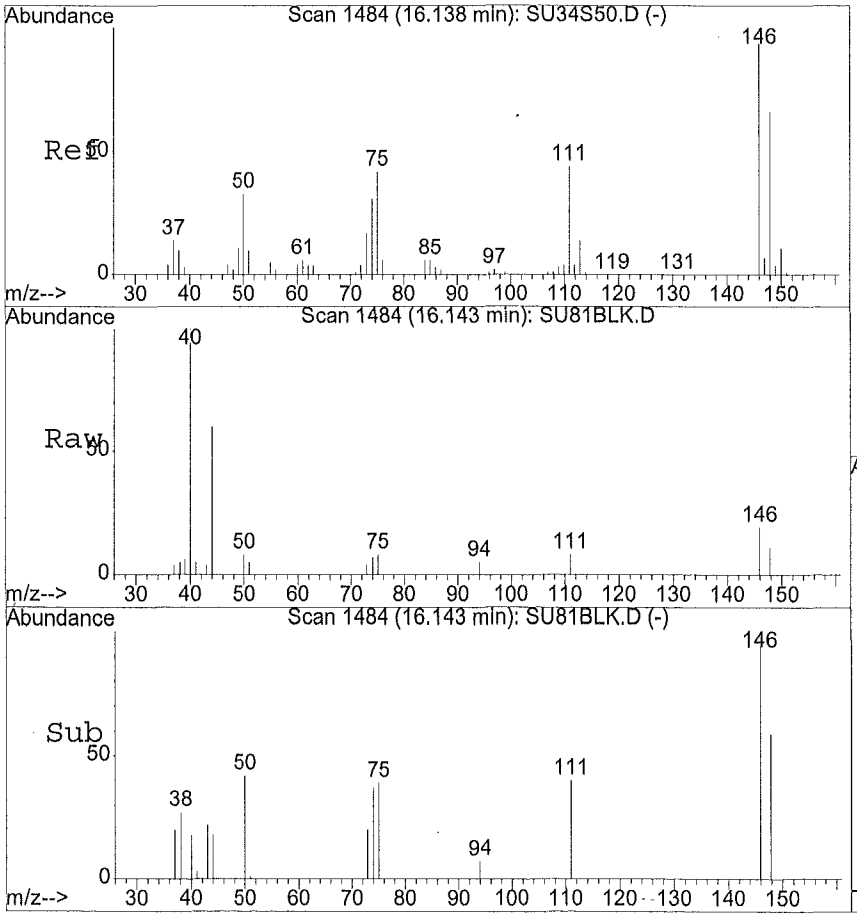


#16
Methylene chloride
Concen: 0.21 ug/Kg
RT: 5.50 min Scan# 402
Delta R.T. -0.00 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:84 Resp: 2417

Ion	Ratio	Lower	Upper
84	100		
49	264.2	85.4	256.1#
51	175.8	26.8	80.4#
86	30.0	33.1	99.2#

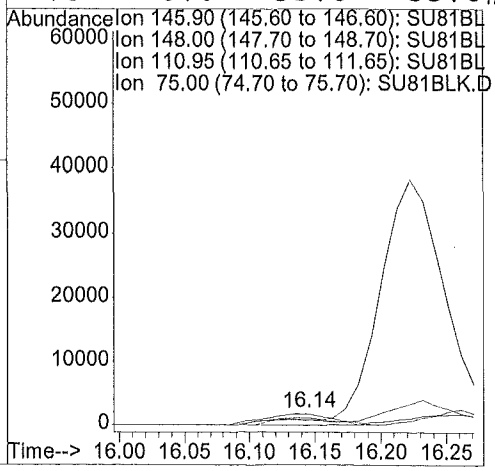


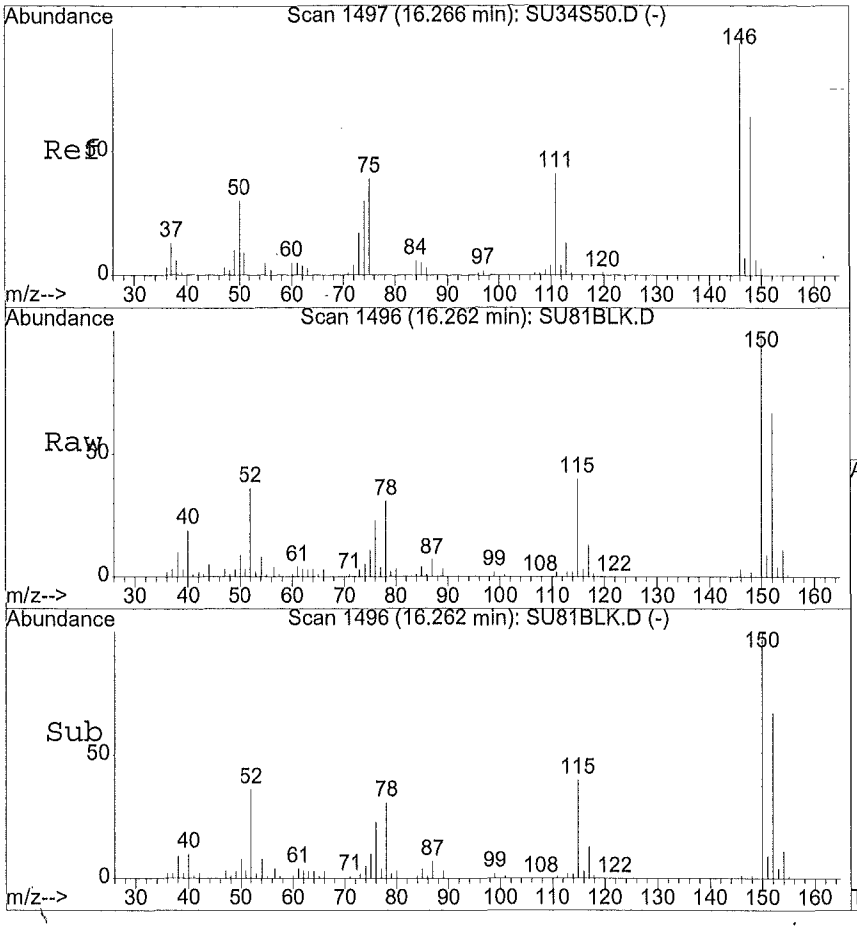


#64
1,3-Dichlorobenzene
Concen: 0.31 ug/Kg
RT: 16.14 min Scan# 1484
Delta R.T. 0.01 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:145.9 Resp: 6358

Ion	Ratio	Lower	Upper
146	100		
148	58.6	51.8	77.6
111	0.0	35.9	53.9#
75	0.0	35.8	53.6#

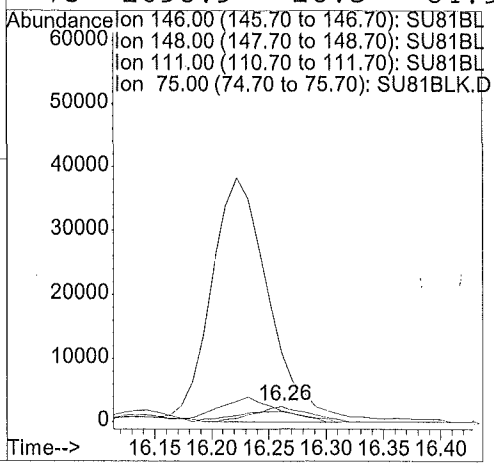


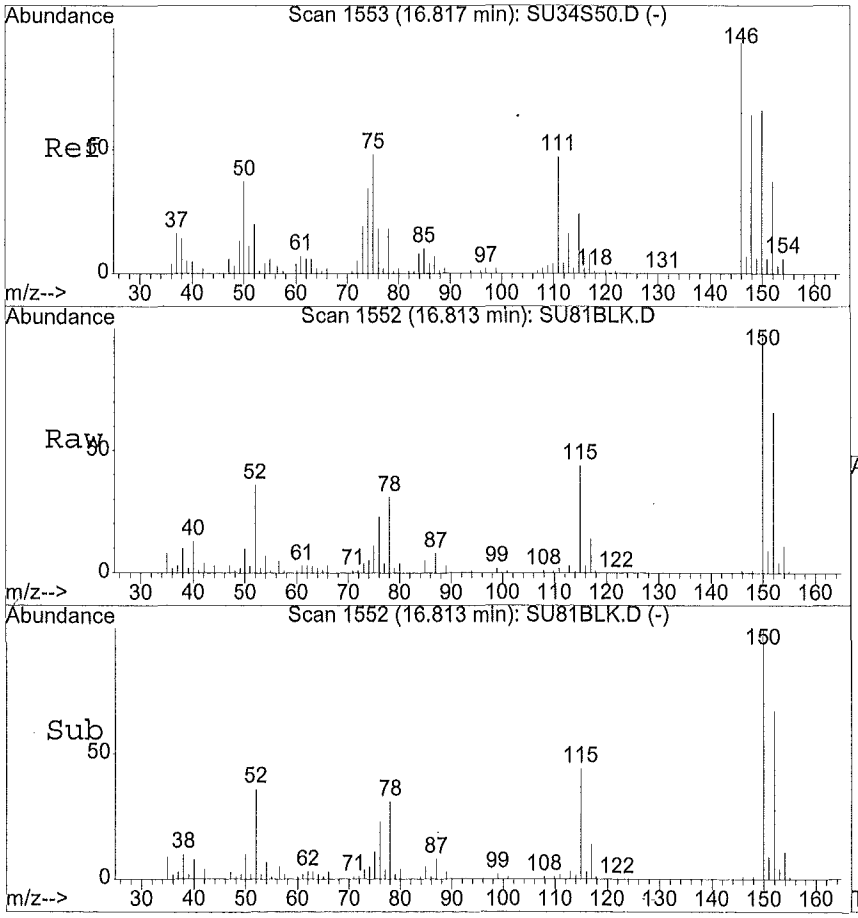


#65
1,4-Dichlorobenzene
Concen: 0.36 ug/Kg
RT: 16.26 min Scan# 1496
Delta R.T. -0.00 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:146 Resp: 7997

Ion	Ratio	Lower	Upper
146	100		
148	88.5	32.2	96.6
111	177.4	21.9	65.5#
75	1698.9	28.3	84.9#

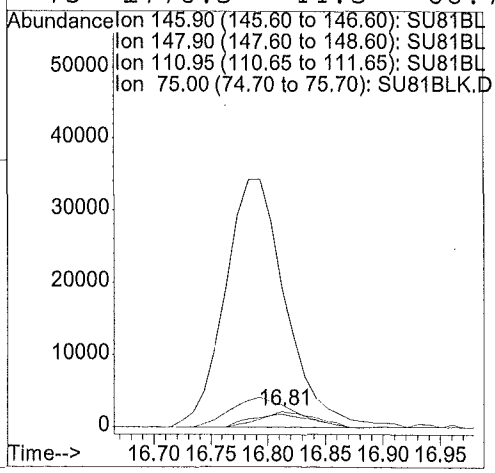


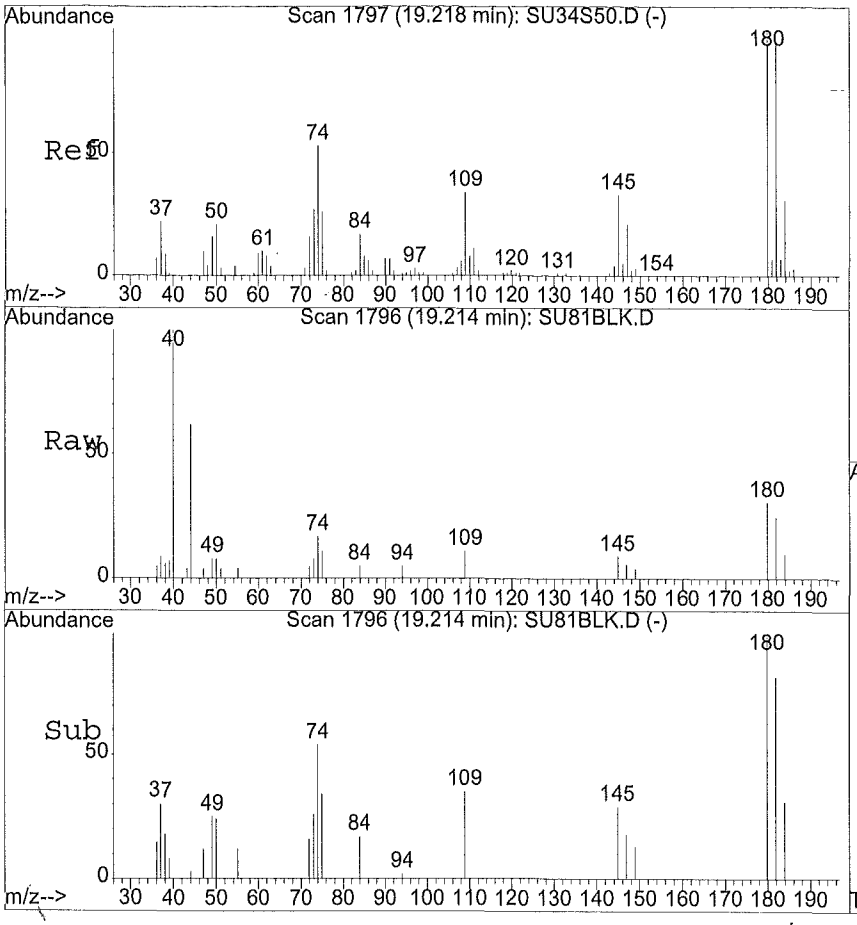


#66
1,2-Dichlorobenzene
Concen: 0.34 ug/Kg
RT: 16.81 min Scan# 1552
Delta R.T. -0.00 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:145.9 Resp: 7159

Ion	Ratio	Lower	Upper
146	100		
148	93.5	52.6	78.8#
111	220.3	38.3	57.5#
75	1776.3	44.5	66.7#

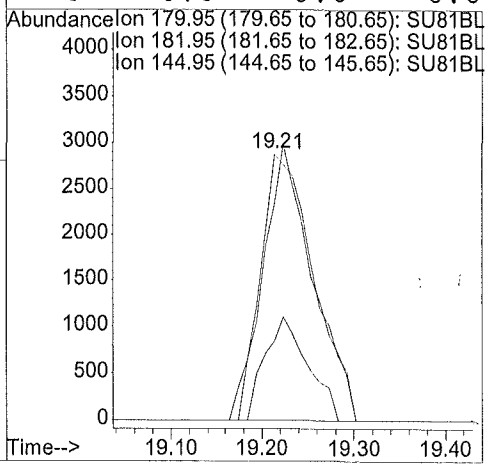


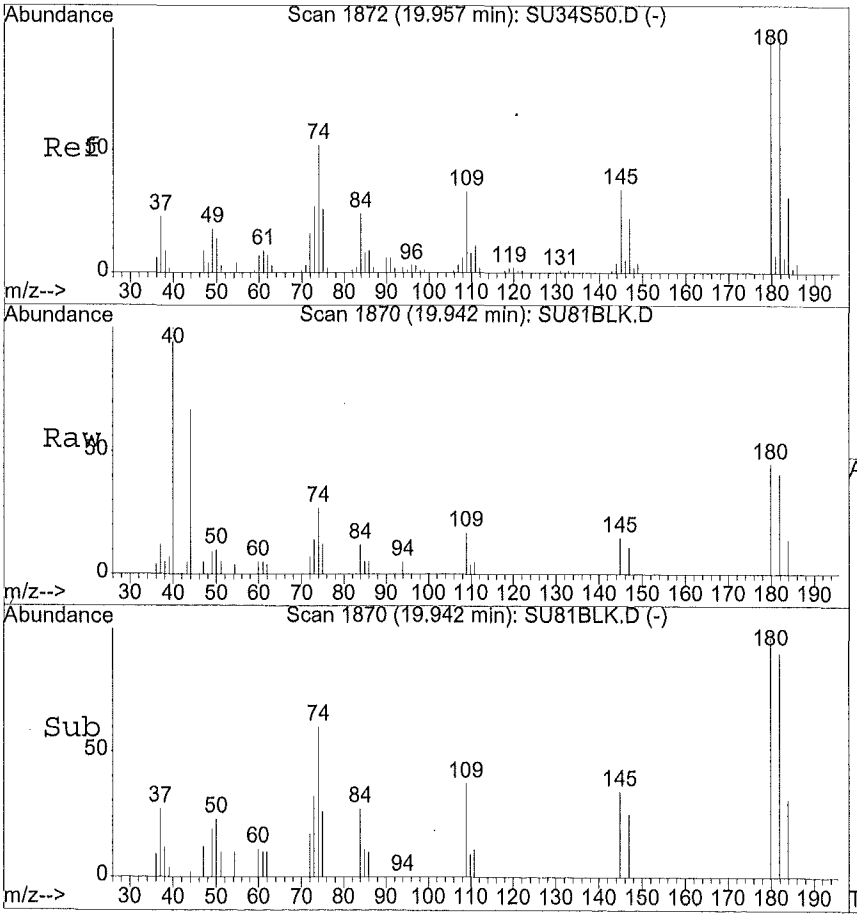


#69
1,2,4-Trichlorobenzene
Concen: 0.75 ug/Kg
RT: 19.21 min Scan# 1796
Delta R.T. -0.00 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:179.95 Resp: 11771

Ion	Ratio	Lower	Upper
180	100		
182	93.0	76.8	115.2
145	30.5	26.5	39.7
0	0.0	0.0	0.0

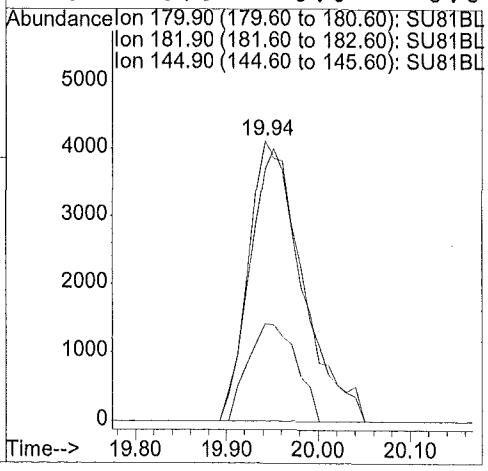




#70
1,2,3-Trichlorobenzene
Concen: 1.21 ug/Kg
RT: 19.94 min Scan# 1870
Delta R.T. -0.01 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:179.9 Resp: 16793

Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.4	114.6
145	30.7	27.8	41.8
0	0.0	0.0	0.0



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

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450813

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU98HBLK

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

% Moisture: not dec. Date Analyzed: 06/10/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	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	0.40	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.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450813

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU98HBLK

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

% Moisture: not dec. Date Analyzed: 06/10/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	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.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450813

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU98HBLK

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

% Moisture: not dec. Date Analyzed: 06/10/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

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

[1] EPA-designated Registry Number.

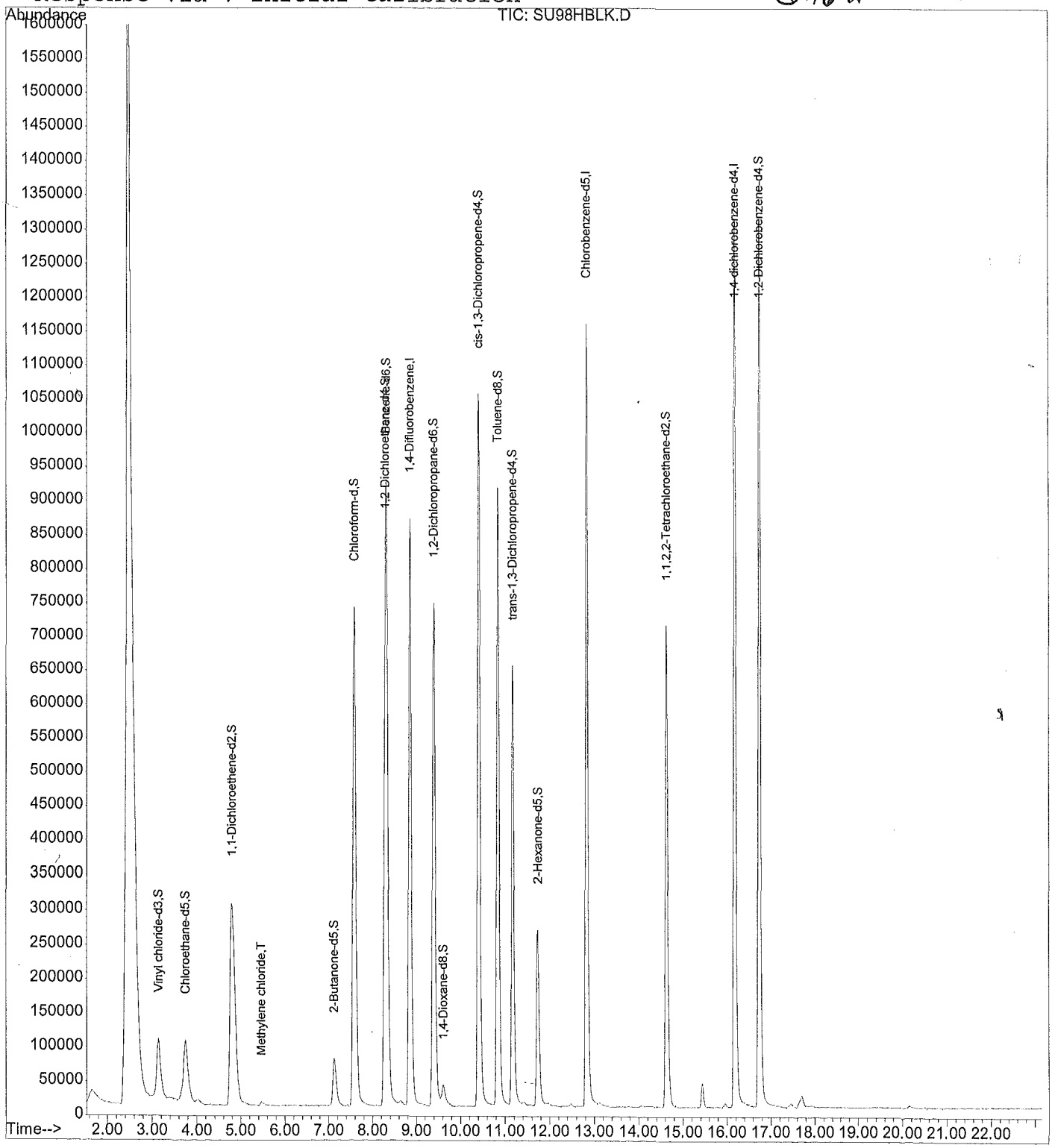
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU98HBLK.D
Acq Time : 06/10/2015 02:26 Operator: CQC
Sample : 450612/450813 VHBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 16 23:50 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 16 17:27:26 2015
Response via : Initial Calibration

6.16.15



: 99122

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU98HBLK.D
Acq Time : 06/10/2015 02:26 Operator: CQC
Sample : 450612/450813 VHBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 16 23:50 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1339343	50.00 ug/Kg	101.46
30) Chlorobenzene-d5	12.83	117	1074241	50.00 ug/Kg	100.36
62) 1,4-dichlorobenzene-d4	16.18	152	610942	50.00 ug/Kg	100.42
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.14	65	350094	40.96 ug/Kg	81.93%
8) Chloroethane-d5	3.75	69	347613	42.75 ug/Kg	85.49%
11) 1,1-Dichloroethene-d2	4.80	63	901911	32.00 ug/Kg	64.01%
22) 2-Butanone-d5	7.12	46	246561	106.28 ug/Kg	106.28%
25) Chloroform-d	7.59	84	1307571	47.37 ug/Kg	94.74%
27) 1,2-Dichloroethane-d4	8.28	65	665934	52.78 ug/Kg	105.56%
29) 1,4-Dioxane-d8	9.60	96	45950	1176.85 ug/Kg	117.69%
35) Benzene-d6	8.32	84	1292299	48.92 ug/Kg	97.84%
39) 1,2-Dichloropropane-d6	9.40	67	637692	49.01 ug/Kg	98.02%
42) cis-1,3-Dichloropropene-d4	10.41	79	1123173	51.53 ug/Kg	103.05%
44) trans-1,3-Dichloropropene-	11.17	79	656136	52.20 ug/Kg	104.41%
49) Toluene-d8	10.84	98	1141480	47.76 ug/Kg	95.53%
52) 2-Hexanone-d5	11.74	63	191931	115.21 ug/Kg	115.21%
61) 1,1,2,2-Tetrachloroethane-	14.63	84	732279	54.57 ug/Kg	109.14%
67) 1,2-Dichlorobenzene-d4	16.75	152	606994	51.83 ug/Kg	103.66%
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	5.47	84	3778	0.40 ug/Kg#	66
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

00123

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU98HBLK.D
Acq Time : 06/10/2015 02:26 Operator: CQC
Sample : 450612/450813 VHBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

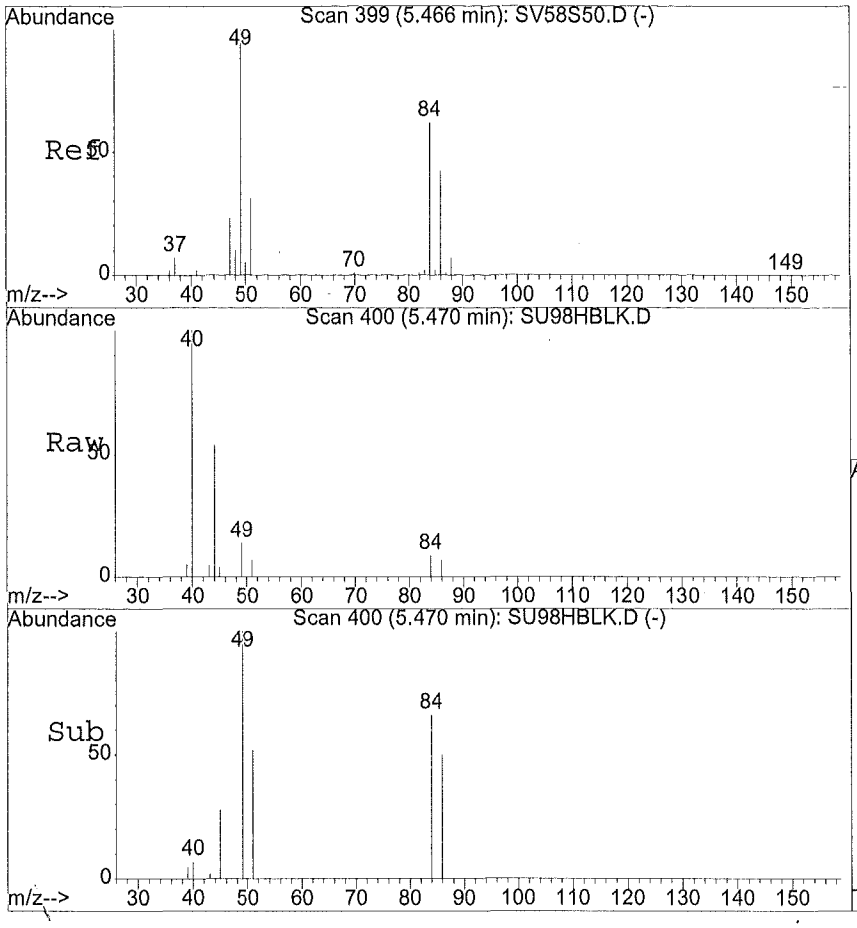
Quant Time: Jun 16 23:50 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	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	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

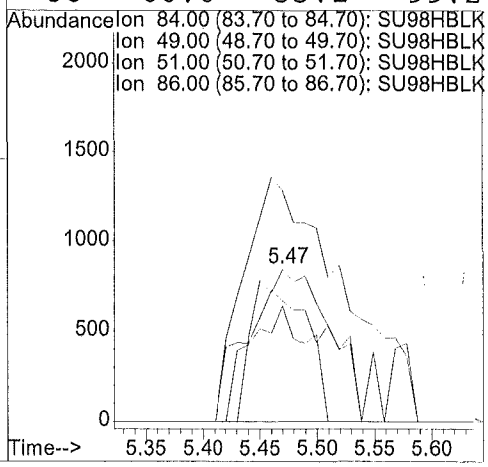
00124



#16
Methylene chloride
Concen: 0.40 ug/Kg
RT: 5.47 min Scan# 400
Delta R.T. -0.03 min
Lab File: SU98HBLK.D
Acq: 06/10/2015 02:26

Tgt Ion:84 Resp: 3778

Ion	Ratio	Lower	Upper
84	100		
49	215.3	85.4	256.1
51	105.2	26.8	80.4#
86	60.0	33.1	99.2



2J - FORM II SV-3

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	F9M36	39	42	43	19	45	43	43	0 *
02	F9M42	50	41	49	49	47	47	52	0 *
03	F9M43	61	57	60	23	67	67	57	0 *
04	F9M44	70	66	70	32	76	77	66	0 *
05	F9M45	64	60	64	29	70	70	62	0 *
06	SBLK11	72	66	71	39	75	77	66	6
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(17-103)
SDMC2 (BCE) = Bis(2-chloroethyl)ether-d8	(12-98)
SDMC3 (2CP) = 2-Chlorophenol-d4	(13-101)
SDMC4 (4MP) = 4-Methylphenol-d8	(8-100)
SDMC5 (NBZ) = Nitrobenzene-d5	(16-103)
SDMC6 (2NP) = 2-Nitrophenol-d4	(16-104)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(23-104)
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

2K - FORM II SV-4
SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	F9M36	47	42	50	46	36	39	45 *	36 *	3
02	F9M42	58	51	55	56	33	52	54	49	1
03	F9M43	71	65	70	69	51	63	68	58	1
04	F9M44	79	74	78	77	53	67	72	64	1
05	F9M45	73	67	73	71	49	63	69	60	1
06	SBLK11	81	77	75	80	77	79	81	79	0
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(43-111)
SDMC10 (ACY) = Acenaphthylene-d8	(20-97)
SDMC11 (4NP) = 4-Nitrophenol-d4	(16-166)
SDMC12 (FLR) = Fluorene-d10	(40-108)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(1-121)
SDMC14 (ANC) = Anthracene-d10	(22-98)
SDMC15 (PYR) = Pyrene-d10	(51-120)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(43-111)

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.

SBLK11

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: GBQ03BLK Lab Sample ID: 450511

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

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/16/2015

Level: (LOW/MED) LOW Time Analyzed: 19:08

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9M36	1515552001	DED03F01	06/17/2015
02	F9M42	1515552004	GBQ06F04	06/16/2015
03	F9M43	1515552005	GBQ07F05	06/16/2015
04	F9M44	1515552006	GBQ08F06	06/16/2015
05	F9M45	1515552007	GBQ09F07	06/16/2015
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
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22				
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25				
26				
27				
28				
29				
30				

COMMENTS:

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

EPA SAMPLE NO.

DFTPPDG

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: DFG02S20 DFTPP Injection Date: 05/21/2015

Instrument ID: 5975-D DFTPP Injection Time: 14:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.0
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	30.4
70	Less than 2.0% of mass 69	0.3 (1.0) 1
127	10.0 - 80.0% of mass 198	40.8
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than mass 443	9.9
442	50.0 - 100% of mass 198	65.3
443	15.0 - 24.0% of mass 442	12.7 (19.4) 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	SSTD020DG	SSTD020DG	DFG02S20	05/21/2015	14:38
02	SSTD005DG	SSTD005DG	DFG03S05	05/21/2015	15:14
03	SSTD010DG	SSTD010DG	DFG04S10	05/21/2015	15:48
04	SSTD040DG	SSTD040DG	DFG05S40	05/21/2015	16:22
05	SSTD080DG	SSTD080DG	DFG06S80	05/21/2015	16:56
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

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

EPA SAMPLE NO.

DFTPPDD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: DED02S20 DFTPP Injection Date: 06/17/2015

Instrument ID: 5975-D DFTPP Injection Time: 13:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.3
68	Less than 2.0% of mass 69	0.5 (1.4) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	44.5
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	23.4
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than mass 443	7.9
442	50.0 - 100% of mass 198	52.3
443	15.0 - 24.0% of mass 442	10.4 (19.8) 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	SSTD020DD	SSTD020DD	DED02S20	06/17/2015	13:06
02	F9M36	1515552001	DED03F01	06/17/2015	13:41
03	SSTD020D1	SSTD020D1	DED06S20	06/17/2015	15:25
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

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

EPA SAMPLE NO.

DFTPPGX

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: GAX01S20 DFTPP Injection Date: 05/27/2015

Instrument ID: 5975-G DFTPP Injection Time: 15:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.8 (2.0) 1
69	Mass 69 relative abundance	38.4
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	51.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than mass 443	12.1
442	50.0 - 100% of mass 198	79.9
443	15.0 - 24.0% of mass 442	15.8 (19.8) 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	SSTD020GX	SSTD020GX	GAX01S20	05/27/2015	15:49
02	SSTD005GX	SSTD005GX	GAX02S05	05/27/2015	16:21
03	SSTD010GX	SSTD010GX	GAX03S10	05/27/2015	16:54
04	SSTD040GX	SSTD040GX	GAX06S40	05/27/2015	18:30
05	SSTD080GX	SSTD080GX	GAX07S80	05/27/2015	19:02
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

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

EPA SAMPLE NO.

DFTPPGQ

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: GBQ01S20 DFTPP Injection Date: 06/16/2015

Instrument ID: 5975-G DFTPP Injection Time: 18:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.0
68	Less than 2.0% of mass 69	0.7 (2.0) 1
69	Mass 69 relative abundance	35.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.9
197	Less than 2.0% of mass 198	0.0
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	24.4
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than mass 443	12.9
442	50.0 - 100% of mass 198	86.1
443	15.0 - 24.0% of mass 442	16.6 (19.2) 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	SSTD020GQ	SSTD020GQ	GBQ01S20	06/16/2015	18:04
02	SBLK11	450511	GBQ03BLK	06/16/2015	19:08
03	F9M42	1515552004	GBQ06F04	06/16/2015	20:45
04	F9M43	1515552005	GBQ07F05	06/16/2015	21:17
05	F9M44	1515552006	GBQ08F06	06/16/2015	21:50
06	F9M45	1515552007	GBQ09F07	06/16/2015	22:22
07	SSTD020Q1	SSTD020Q1	GBQ10S20	06/16/2015	22:54
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

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.: F9M36

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DD Date Analyzed: 06/17/2015

Lab File ID (Standard): DED02S20 Time Analyzed: 13:06

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	467363	5.03	1609688	6.46	1046498	9.13
	UPPER LIMIT	934726	5.53	3219376	6.96	2092996	9.63
	LOWER LIMIT	233682	4.53	804844	5.96	523249	8.63
	EPA SAMPLE NO.						
01	F9M36	662308	5.03	2295063	6.46	1582295	9.13
02							
03							
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.

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.: F9M36

EPA Sample No.(SSTD020##): SSTD020DD Date Analyzed: 06/17/2015

Lab File ID (Standard): DED02S20 Time Analyzed: 13:06

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	1839689	11.77	2353832	15.92	2009866	18.42
	UPPER LIMIT	3679378	12.27	4707664	16.42	4019732	18.92
	LOWER LIMIT	919845	11.27	1176916	15.42	1004933	17.92
	EPA SAMPLE NO.						
01	F9M36	2952061	11.77	3544493	15.92	3223320	18.42
02							
03							
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.

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.: F9M36

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GQ Date Analyzed: 06/16/2015

Lab File ID (Standard): GBQ01S20 Time Analyzed: 18:04

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	314339	4.96	1178314	6.37	670140	9.02
	UPPER LIMIT	628678	5.46	2356628	6.87	1340280	9.52
	LOWER LIMIT	157170	4.46	589157	5.87	335070	8.52
	EPA SAMPLE NO.						
01	SBLK11	310647	4.96	1208205	6.37	695732	9.02
02	F9M42	276875	4.96	1098262	6.37	646208	9.02
03	F9M43	315198	4.96	1208444	6.37	692134	9.02
04	F9M44	318767	4.96	1226370	6.37	700765	9.02
05	F9M45	318407	4.96	1226952	6.37	713188	9.02
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.

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.: F9M36

EPA Sample No.(SSTD020##): SSTD020GQ Date Analyzed: 06/16/2015

Lab File ID (Standard): GBQ01S20 Time Analyzed: 18:04

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	1140094	11.65	1124381	15.83	1103431	18.26
	UPPER LIMIT	2280188	12.15	2248762	16.33	2206862	18.76
	LOWER LIMIT	570047	11.15	562191	15.33	551716	17.76
	EPA SAMPLE NO.						
01	SBLK11	1133208	11.65	1083251	15.83	1056163	18.25
02	F9M42	1086576	11.65	1069177	15.83	1020891	18.26
03	F9M43	1151247	11.65	1125882	15.83	1089064	18.26
04	F9M44	1171685	11.65	1172545	15.83	1128995	18.26
05	F9M45	1192571	11.65	1175820	15.83	1134750	18.26
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.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DED03F01

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

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/17/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	210	U

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

EPA SAMPLE NO.

F9M36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DED03F01

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

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/17/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9M36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DED03F01

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/17/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Acetaldehyde, O-ethyloxime-	2.46	150	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.45	130	JB
03		Unknown Butanoic acid, 3-methyl-	3.59	200	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.65	4300	JB
05		Unknown 1H-Pyrrole-2,5-dione	4.43	680	J
06		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	4.66	460	J
07		Unknown Ethanone, 1-oxiranyl-	5.26	110	J
08	57-10-3	n-Hexadecanoic acid	12.87	150	JN
09	629-54-9	Hexadecanamide	14.33	97.	JNB
10	301-02-0	9-Octadecenamide, (Z)-	15.24	1000	JNB
11	1599-67-3	1-Docosene	16.84	96.	JN
12	112-84-5	13-Docosenamide, (Z)-	17.22	150	JN
13		Unknown Phthalic anhydride	18.99	490	J
14		Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.	21.78	130	J
15		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	24.02	430	J
16	1058-61-3	Stigmast-4-en-3-one	24.98	150	JN
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	630	J

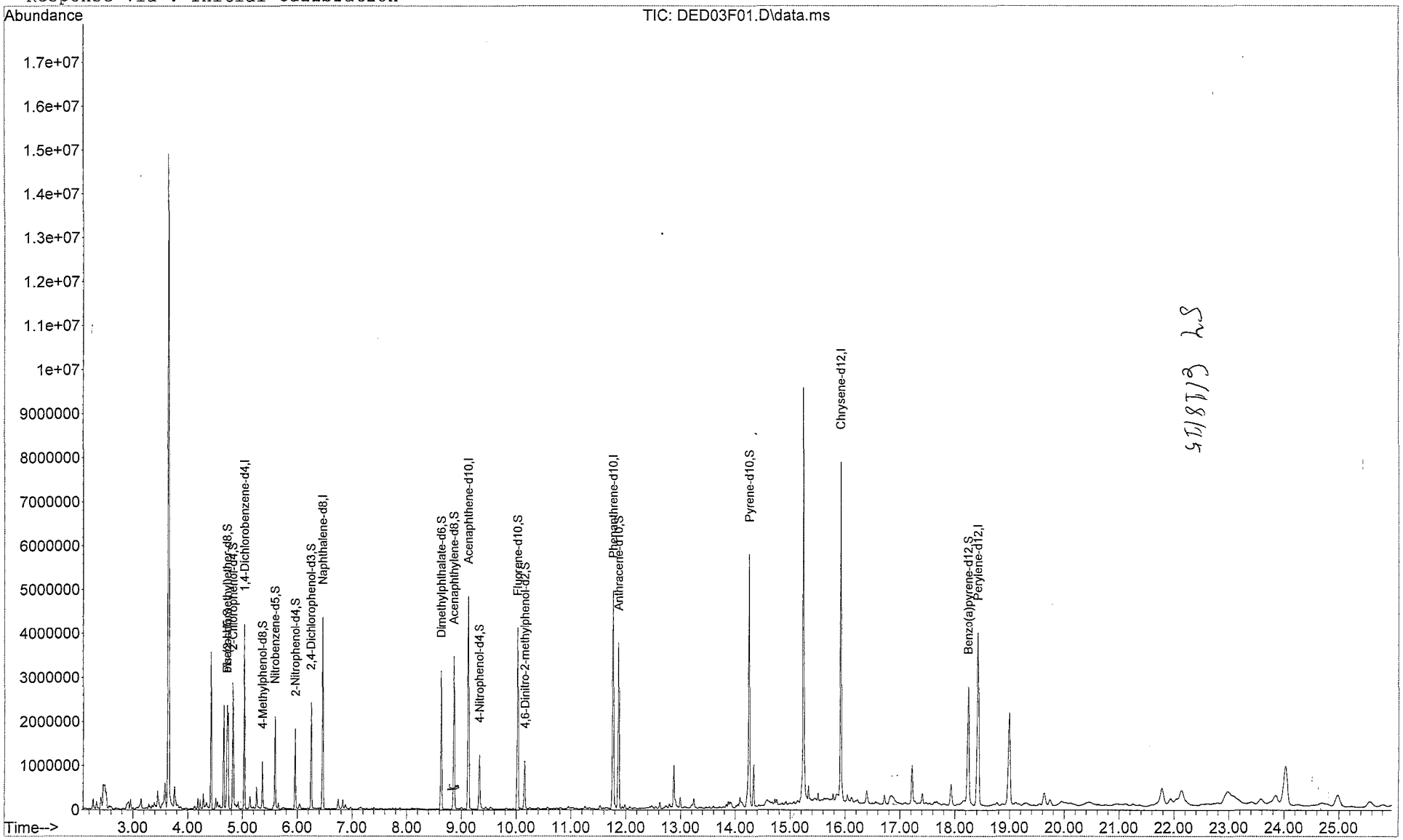
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 11:43:36 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



SY 6/18/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:43:36 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.03	152	662308	20.00 ug/ml
16) Naphthalene-d8	6.46	136	2295063	20.00 ug/ml
33) Acenaphthene-d10	9.13	164	1582295	20.00 ug/ml
59) Phenanthrene-d10	11.77	188	2952061	20.00 ug/ml
73) Chrysene-d12	15.92	240	3544493	20.00 ug/ml
81) Perylene-d12	18.42	264	3223320	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	643404	15.609ug/ml
6) bis-(2-chloroethyl)ether-d	4.72	67	506562	16.795ug/mL
7) 2-Chlorophenol-d4	4.82	132	708552	17.245ug/ml
13) 4-Methylphenol-d8	5.36	113	234299	7.583ug/mL
17) Nitrobenzene-d5	5.59	128	336715	17.913ug/ml
21) 2-Nitrophenol-d4	5.96	143	386309	17.330ug/mL
25) 2,4-Dichlorophenol-d3	6.25	165	614832	17.068ug/mL
28) 4-Chloroaniline-d4	6.55	131	1276	0.047ug/mL
42) Dimethylphthalate-d6	8.63	166	1829925	18.757ug/mL
45) Acenaphthylene-d8	8.86	160	2157258	16.794ug/mL
50) 4-Nitrophenol-d4	9.33	143	322825	19.924ug/mL
57) Fluorene-d10	10.03	176	1586113	18.399ug/mL
61) 4,6-Dinitro-2-methylphenol	10.16	200	270251	14.496ug/mL
69) Anthracene-d10	11.87	188	2331978	15.419ug/mL
75) Pyrene-d10	14.25	212	2682705	17.973ug/mL
86) Benzo(a)pyrene-d12	18.24	264	2115547	14.342ug/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)

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:43:36 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

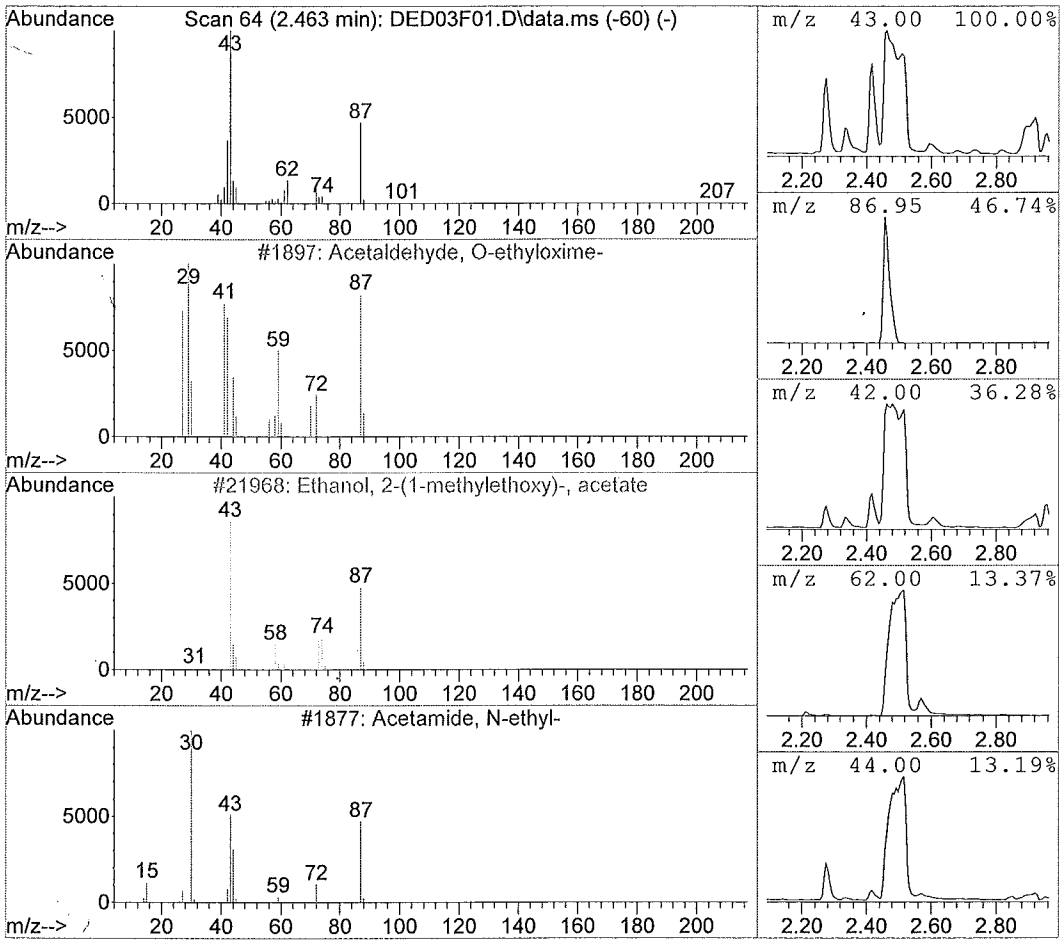
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.46	3.66 ug/ml	723356	1,4-Dichlorobenzene-d4	3950324

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetaldehyde, O-ethyloxime-	1897	1000288-34-6	37.00
2	Ethanol, 2-(1-methylethoxy)-, aceta	21968	019234-20-9	23.00
3	Acetamide, N-ethyl-	1877	000625-50-3	12.00
4	Ethyl Acetate	2018	000141-78-6	9.00
5	Thiocyanic acid, ethyl ester	1856	000542-90-5	9.00



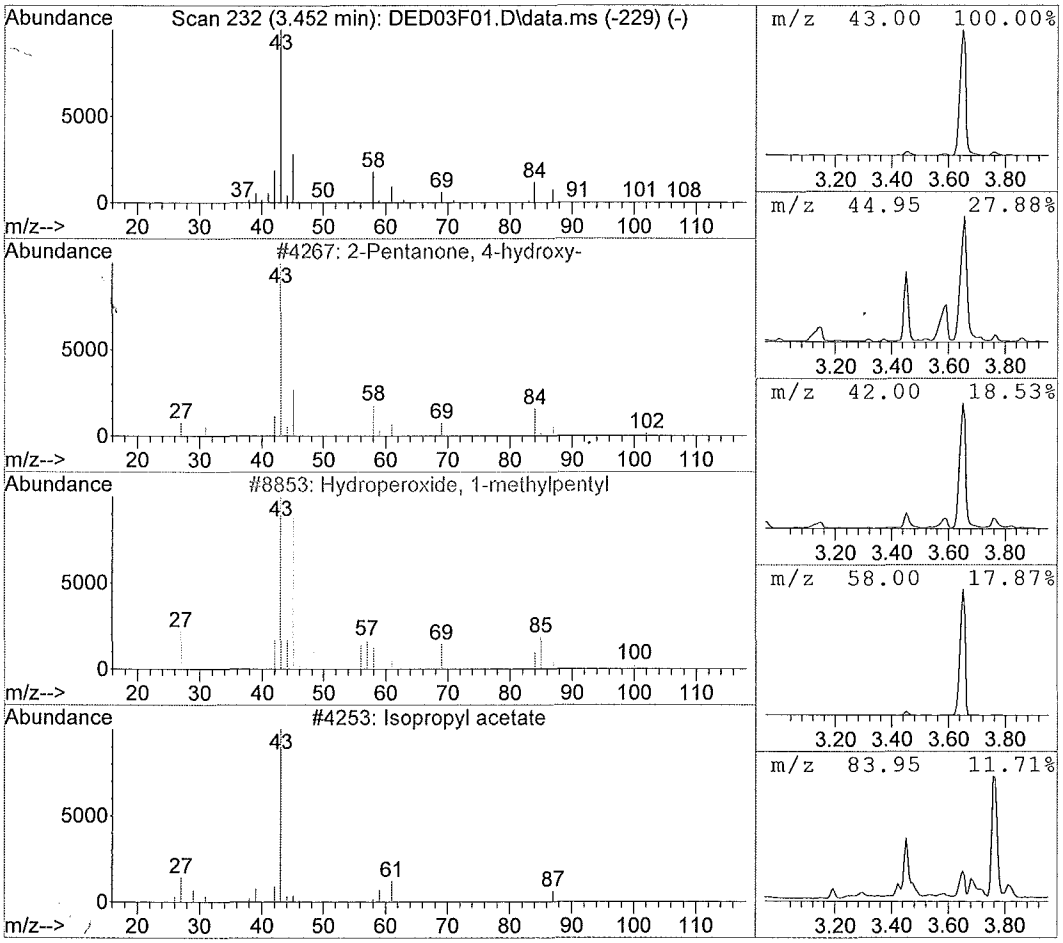
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.45	3.21 ug/ml	633223	1,4-Dichlorobenzene-d4	3950324

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	78.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Isopropyl acetate	4253	000108-21-4	17.00
4	Butane	233	000106-97-8	9.00
5	Ethylamine	86	000075-04-7	9.00



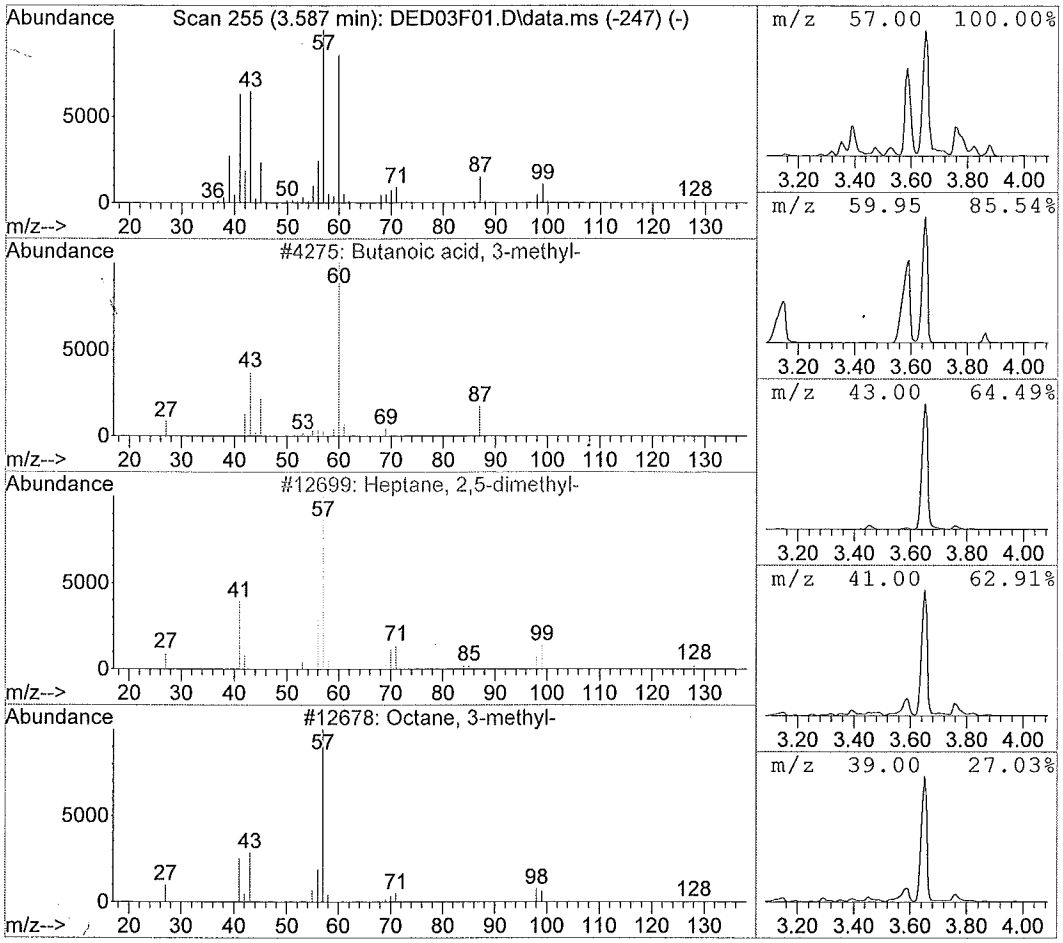
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	4.83 ug/ml	953987	1,4-Dichlorobenzene-d4	3950324

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butanoic acid, 3-methyl-	4275	000503-74-2	53.00
2	Heptane, 2,5-dimethyl-	12699	002216-30-0	22.00
3	Octane, 3-methyl-	12678	002216-33-3	18.00
4	2-Pentanol, 4,4-dimethyl-	8385	006144-93-0	12.00
5	4-Pentenal, 2-methyl-	3194	005187-71-3	10.00



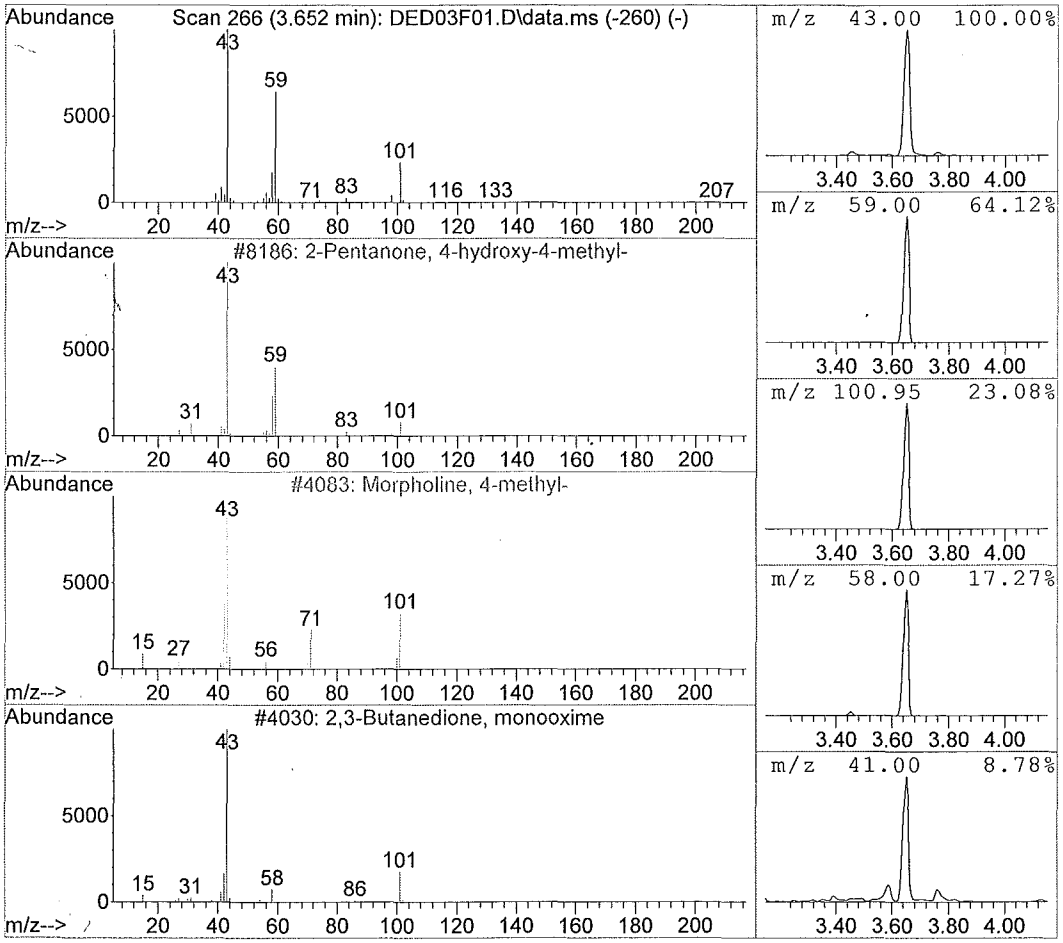
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	102.27 ug/ml	20199334	1,4-Dichlorobenzene-d4	3950324

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Morpholine, 4-methyl-	4083	000109-02-4	9.00
3	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
4	Acetone	213	000067-64-1	9.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00



Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.76	3.45 ug/ml	681918	1,4-Dichlorobenzene-d4	3950324

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12693	003074-71-3	94.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	72.00
3	Hexane, 3-ethyl-	7622	000619-99-8	64.00
4	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	64.00
5	Heptane, 4-ethyl-	12666	002216-32-2	59.00

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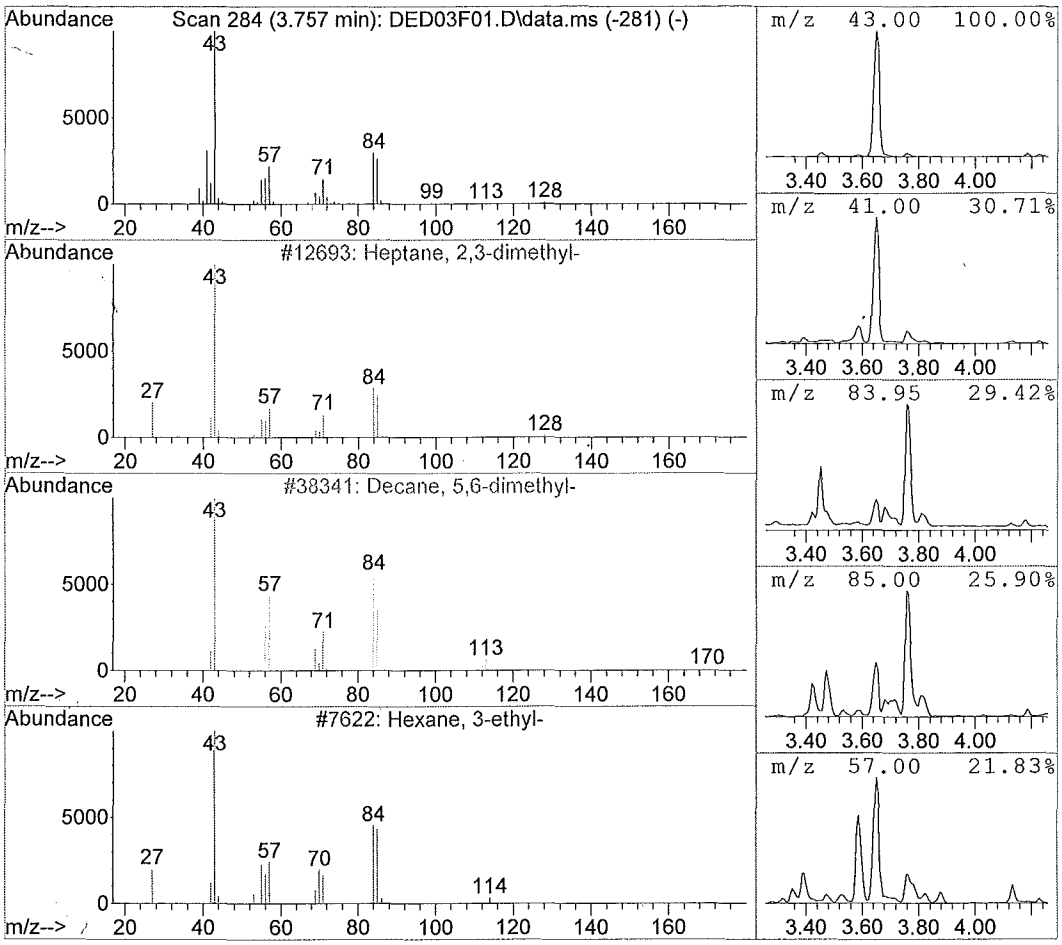


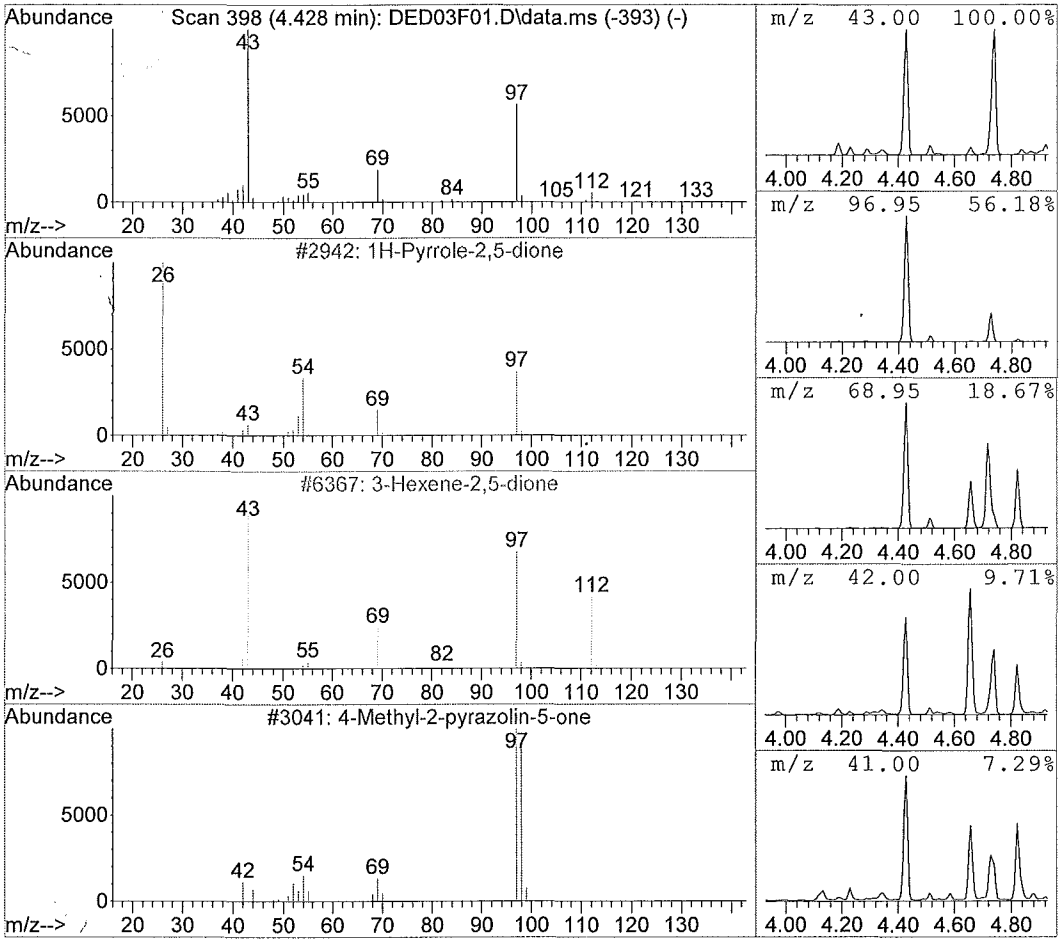
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.43	16.23 ug/ml	3206638	1,4-Dichlorobenzene-d4	3950324

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
2	3-Hexene-2,5-dione	6367	004436-75-3	38.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
4	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	25.00
5	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00



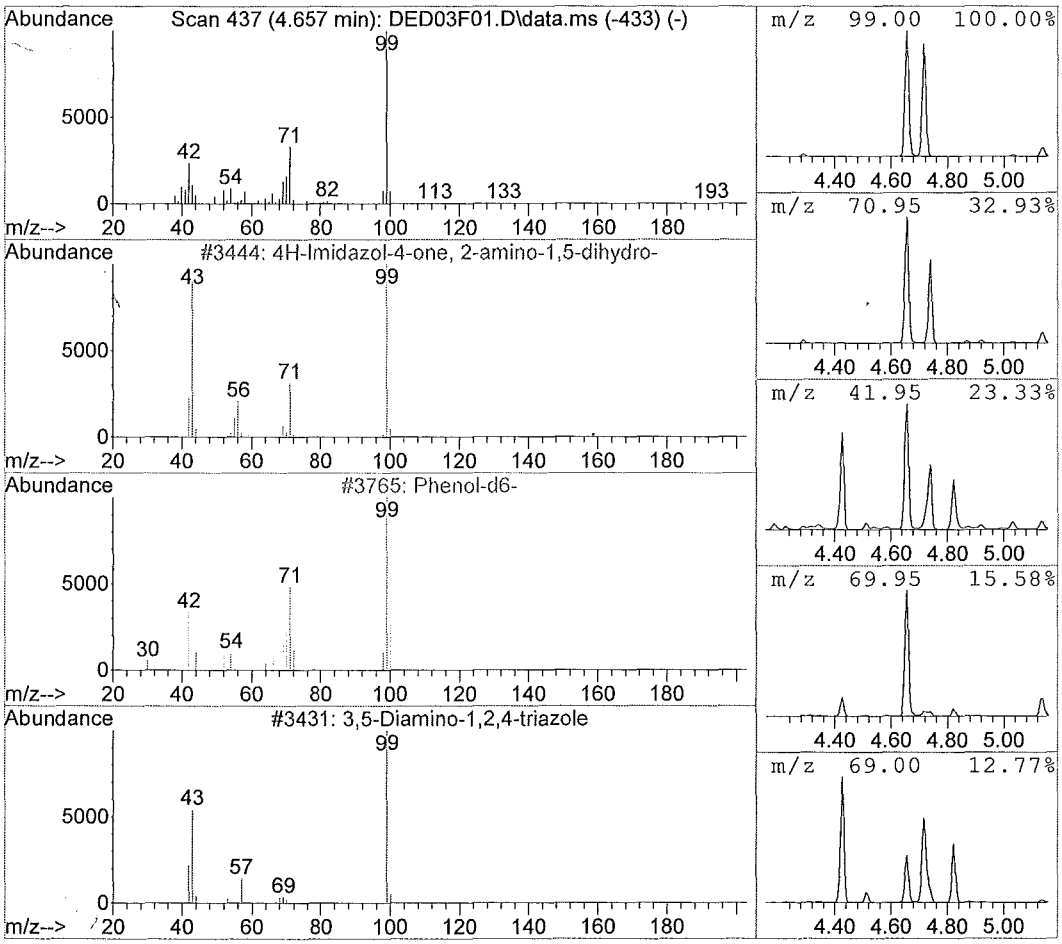
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.66	10.97 ug/ml	2166214	1,4-Dichlorobenzene-d4	3950324

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	80.00
2	Phenol-d6-	3765	013127-88-3	78.00
3	3,5-Diamino-1,2,4-triazole	3431	001455-77-2	50.00
4	2-Furancarboxylic acid, tetrahydro-	20637	022073-04-7	45.00
5	n-Heptyl methylphosphonofluoridate	58530	162085-82-7	45.00



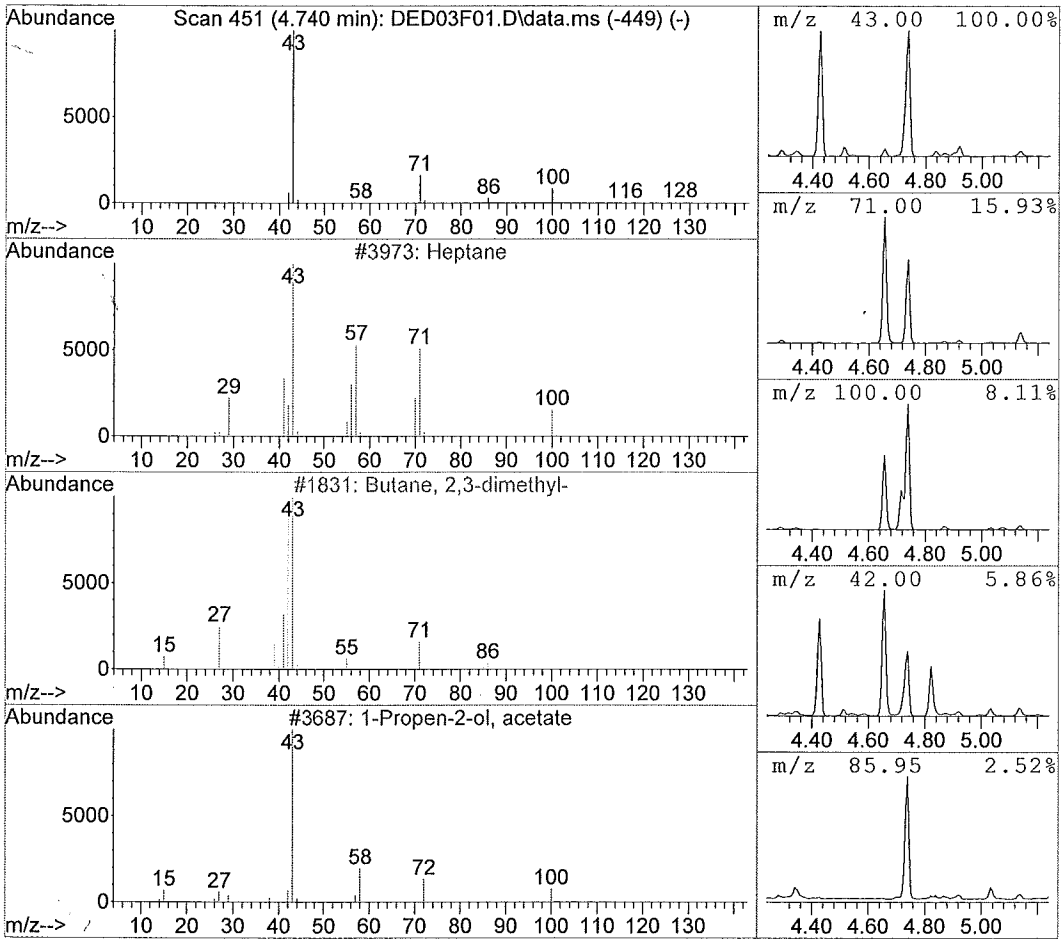
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.74	9.20 ug/ml	1816523	1,4-Dichlorobenzene-d4	3950324

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane	3973	000142-82-5	9.00
2	Butane, 2,3-dimethyl- SA	1831	000079-29-8	7.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	5-Methyloxazolidine	1878	058328-22-6	5.00
5	Furan, tetrahydro-2-methyl-	1806	000096-47-9	5.00



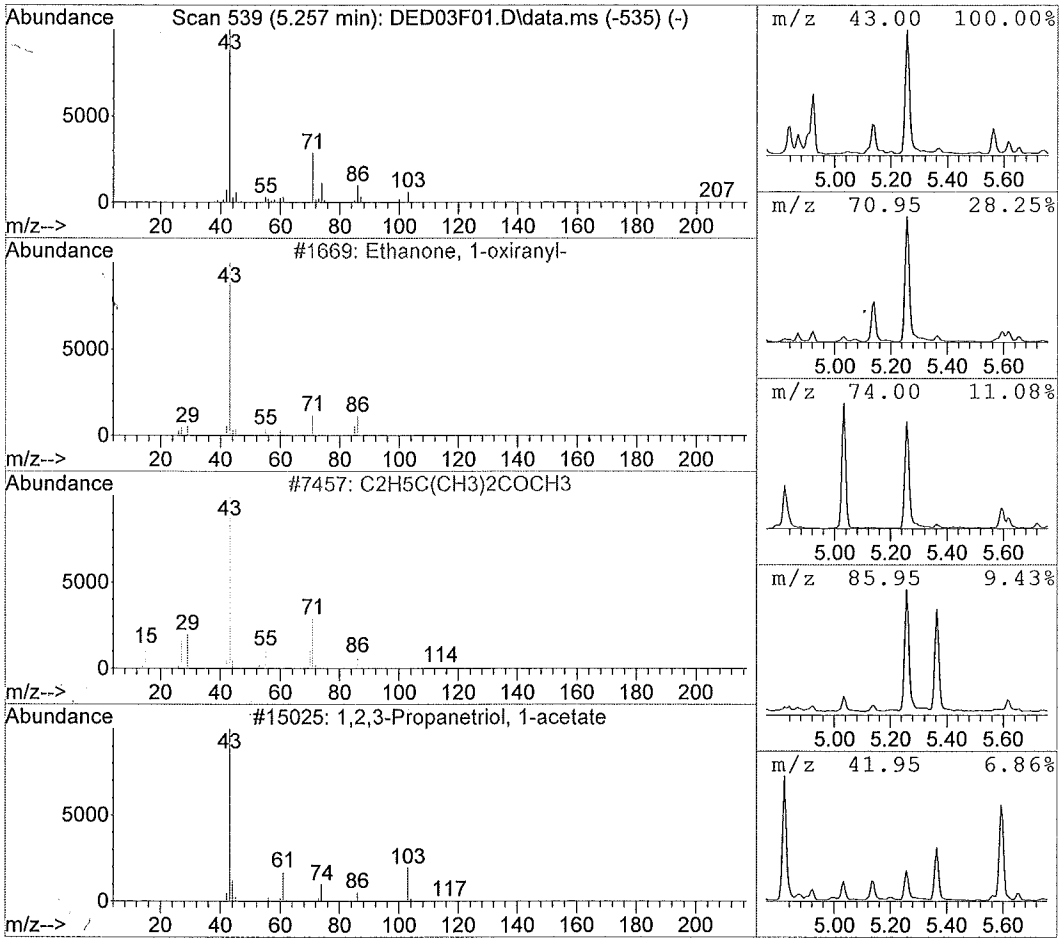
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.26	2.55 ug/ml	502803	1,4-Dichlorobenzene-d4	3950324

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	35.00
2	C2H5C(CH3)2COCH3	7457	020669-04-9	33.00
3	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	25.00
4	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
5	Ethanol, 2-(pentyloxy)-, acetate	41640	005312-09-4	17.00



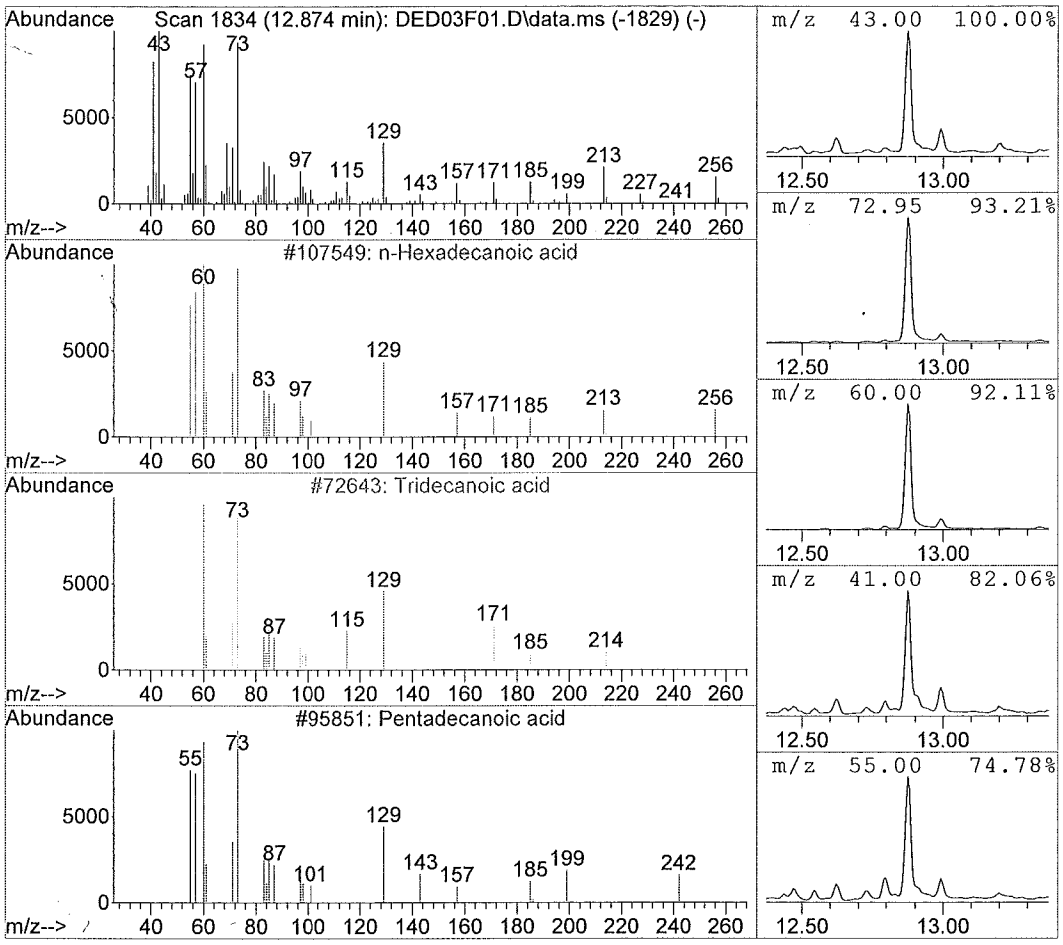
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.87	3.51 ug/ml	1323161	Phenanthrene-d10	7540189

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72643	000638-53-9	93.00
3	Pentadecanoic acid	95851	001002-84-2	81.00
4	Tetradecanoic acid	84453	000544-63-8	64.00
5	n-Decanoic acid	39469	000334-48-5	60.00



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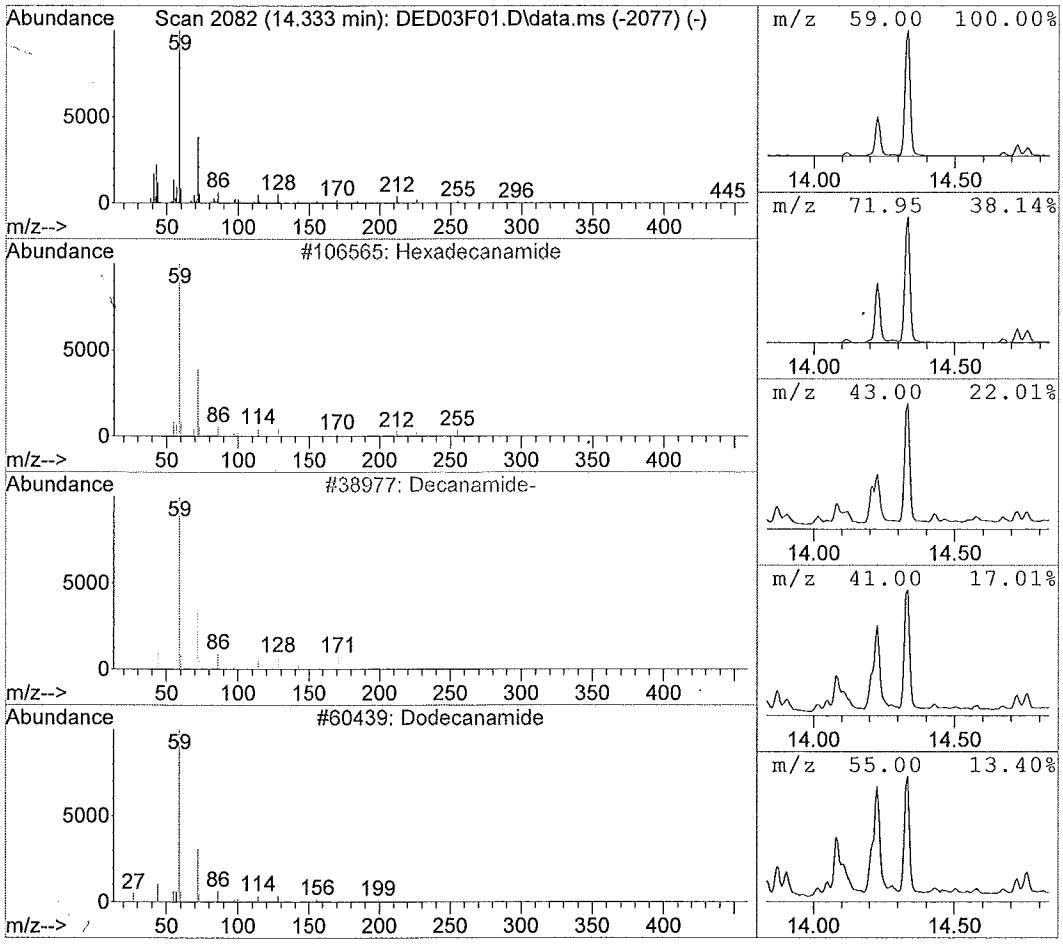
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.33	2.32 ug/ml	1171319	Chrysene-d12	10117256

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Decanamide-	38977	002319-29-1	90.00
3	Dodecanamide	60439	001120-16-7	90.00
4	Tetradecanamide	83608	000638-58-4	86.00
5	Nonanamide	29478	001120-07-6	64.00



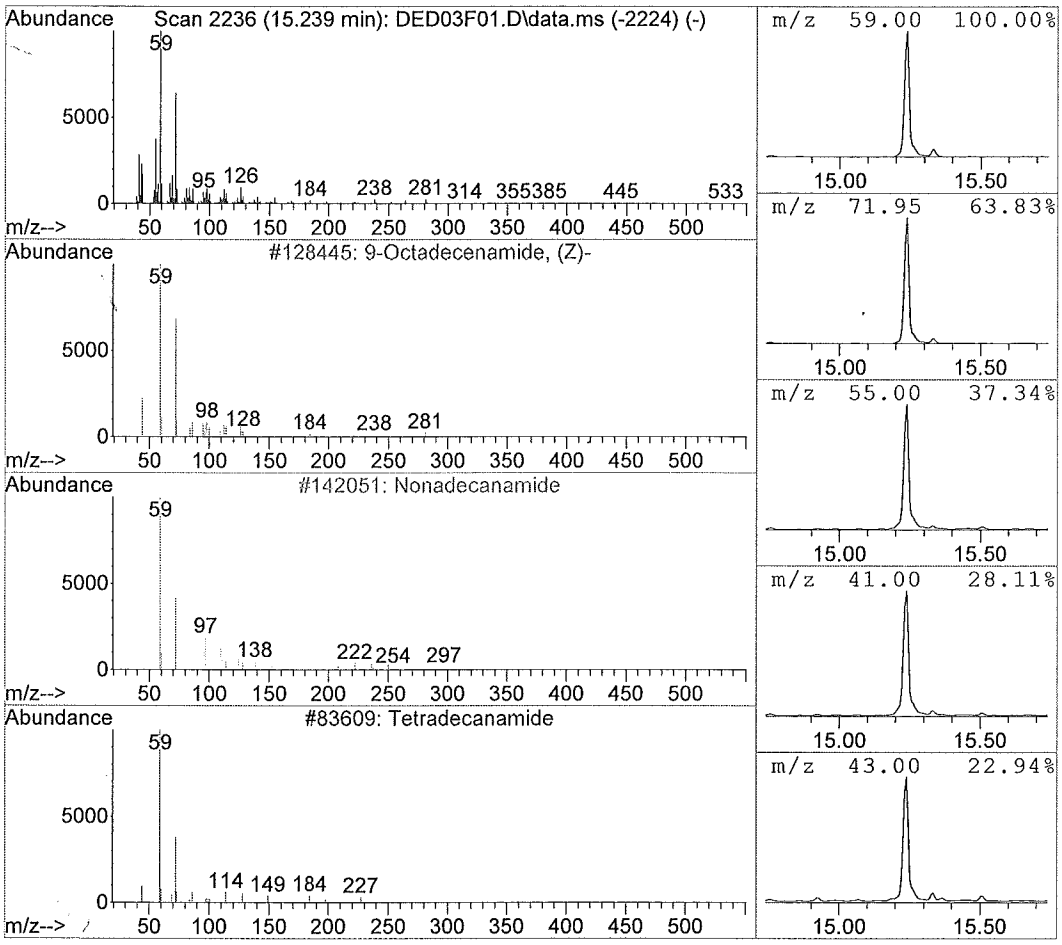
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.24	24.36 ug/ml	12321867	Chrysene-d12	10117256

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Nonadecanamide	142051	058185-32-3	72.00
3	Tetradecanamide	83609	000638-58-4	64.00
4	Hexadecanamide	106564	000629-54-9	64.00
5	Octanamide	20317	000629-01-6	53.00



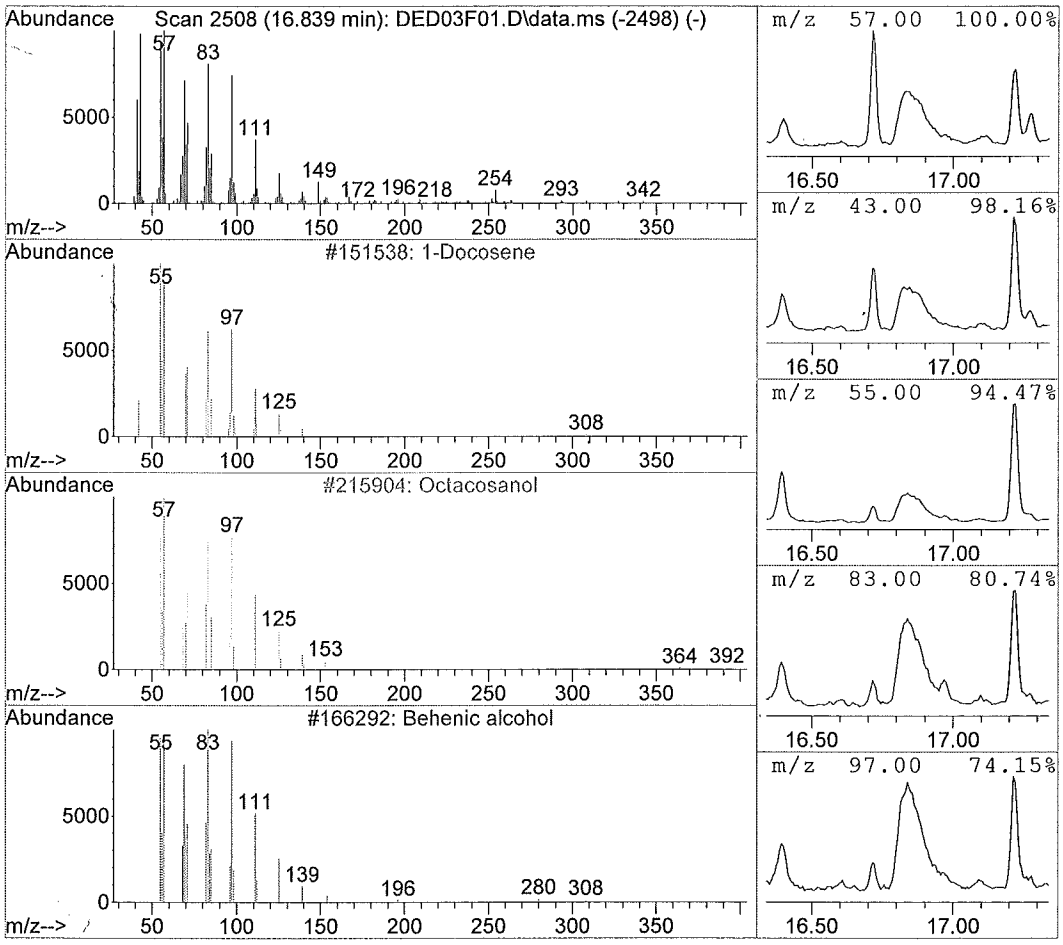
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.84	2.29 ug/ml	1160162	Chrysene-d12	10117256

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Docosene	151538	001599-67-3	99.00
2	Octacosanol	215904	000557-61-9	94.00
3	Behenic alcohol	166292	000661-19-8	93.00
4	1-Heneicosanol	155046	015594-90-8	93.00
5	n-Tetracosanol-1	186968	000506-51-4	91.00



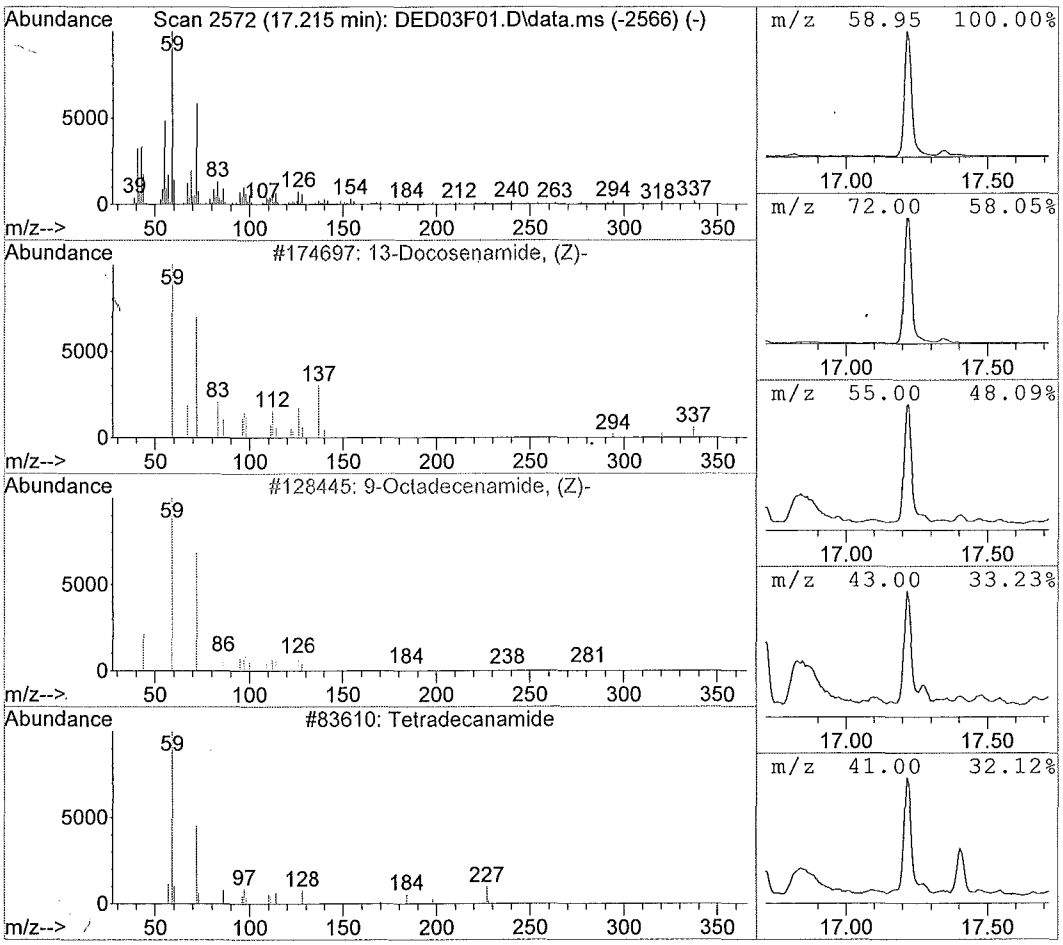
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.22	3.50 ug/ml	1520434	Perylene-d12	8679653

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
3	Tetradecanamide	83610	000638-58-4	78.00
4	Octadecanamide	130204	000124-26-5	72.00
5	Hexadecanamide	106565	000629-54-9	72.00



Library Search Compound Report

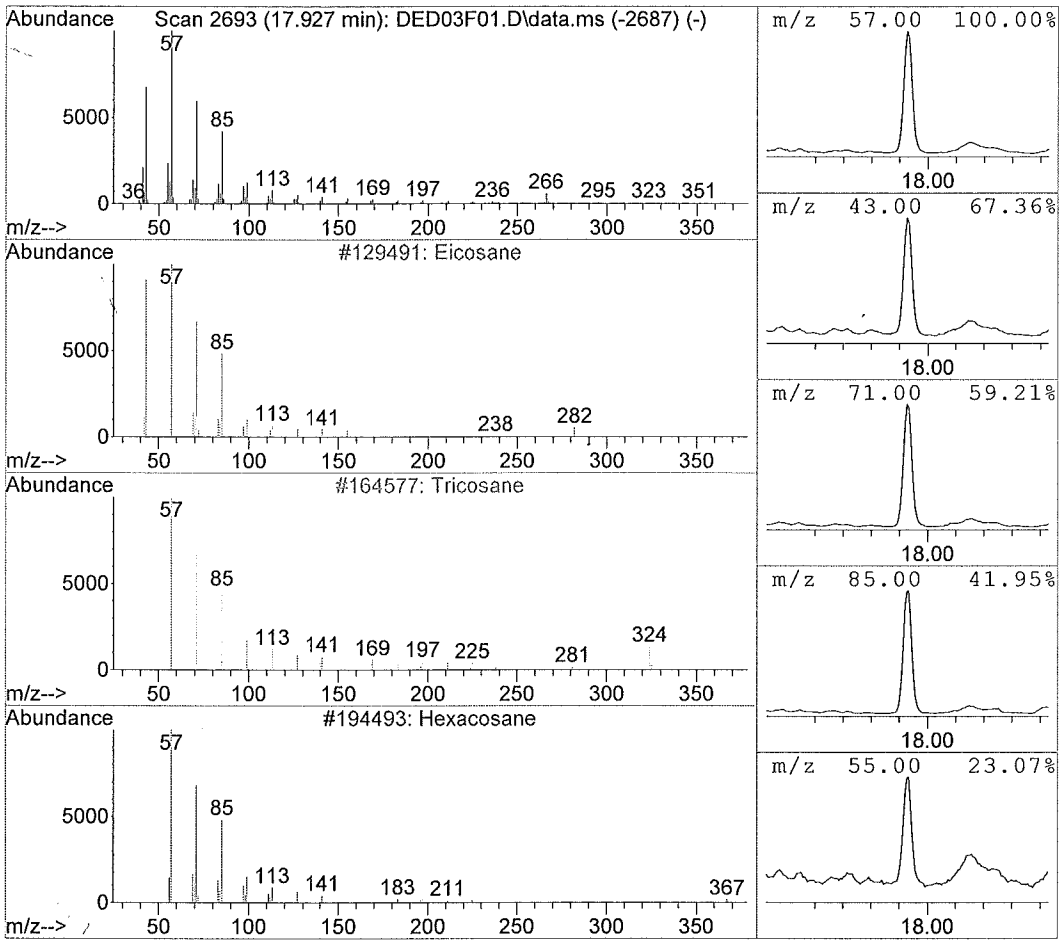
Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.93	2.40 ug/ml	1039603	Perylene-d12	8679653

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	129491	000112-95-8	96.00
2	Tricosane	164577	000638-67-5	95.00
3	Hexacosane	194493	000630-01-3	94.00
4	Heptadecane, 9-hexyl-	164584	055124-79-3	94.00
5	Heptacosane	202661	000593-49-7	91.00

5A



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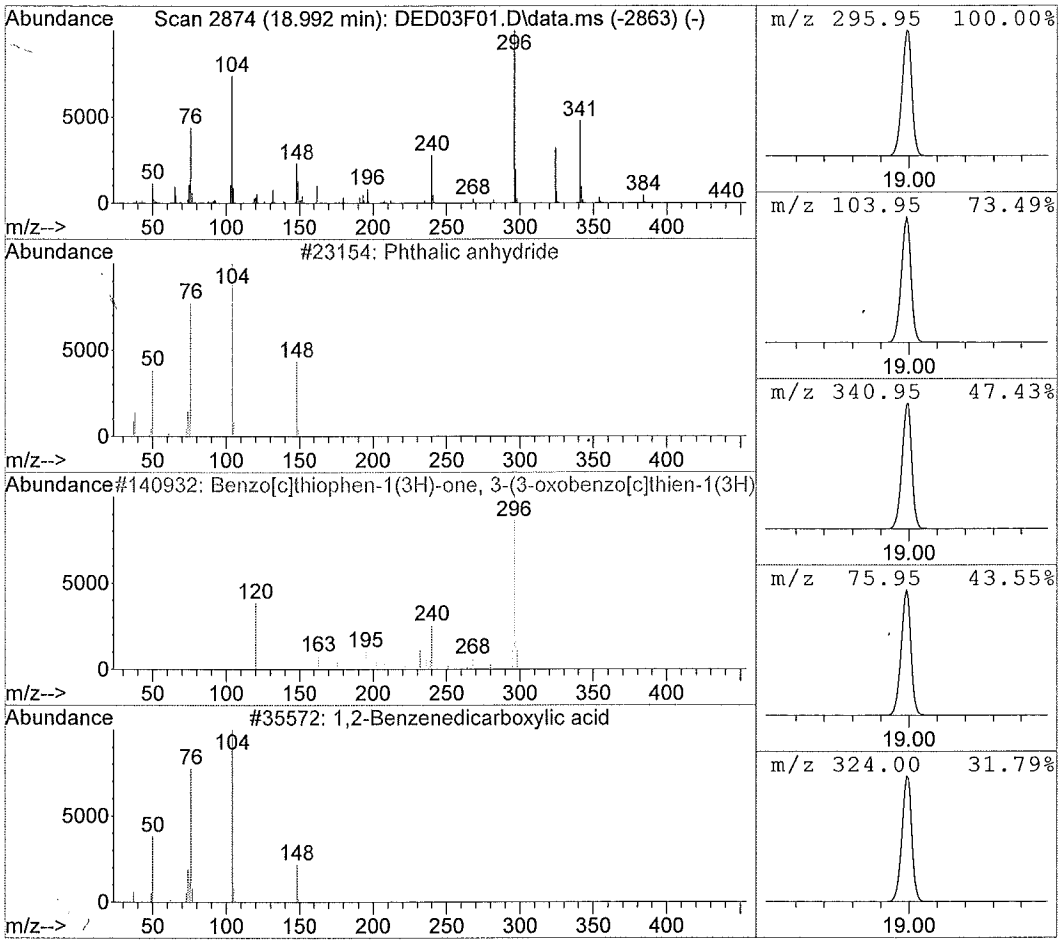
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.99	11.71 ug/ml	5080095	Perylene-d12	8679653

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00
3	1,2-Benzenedicarboxylic acid	35572	000088-99-3	16.00
4	Cyclohept[b]indol-6(5H)-one, 2-cycl	141251	339284-86-5	14.00
5	Spiro[isobenzofuran-1(3H)-one-3,2'-	63945	054103-04-7	12.00



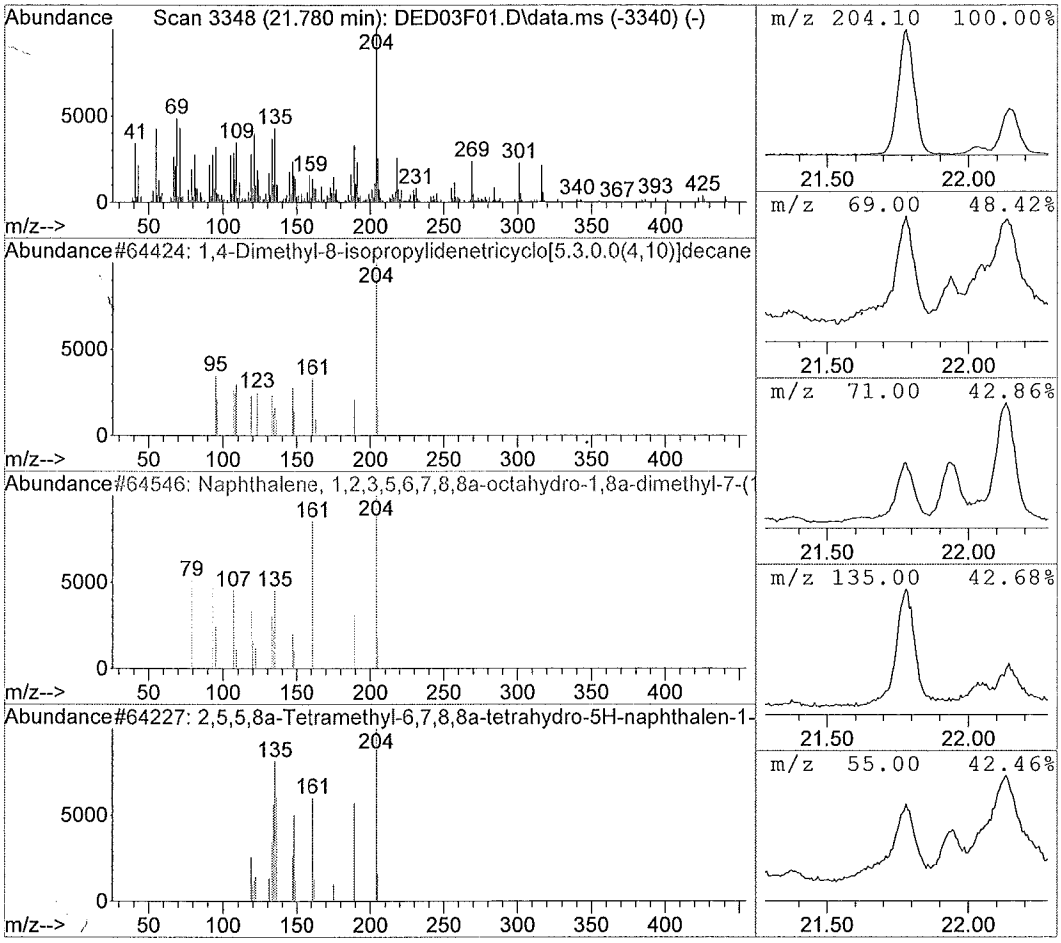
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.78	3.17 ug/ml	1373925	Perylene-d12	8679653

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	51.00
2	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	46.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	46.00
4	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
5	3,5-Dichloro-2,4-dimethyl-1-methoxy	64841	1000250-17-8	35.00



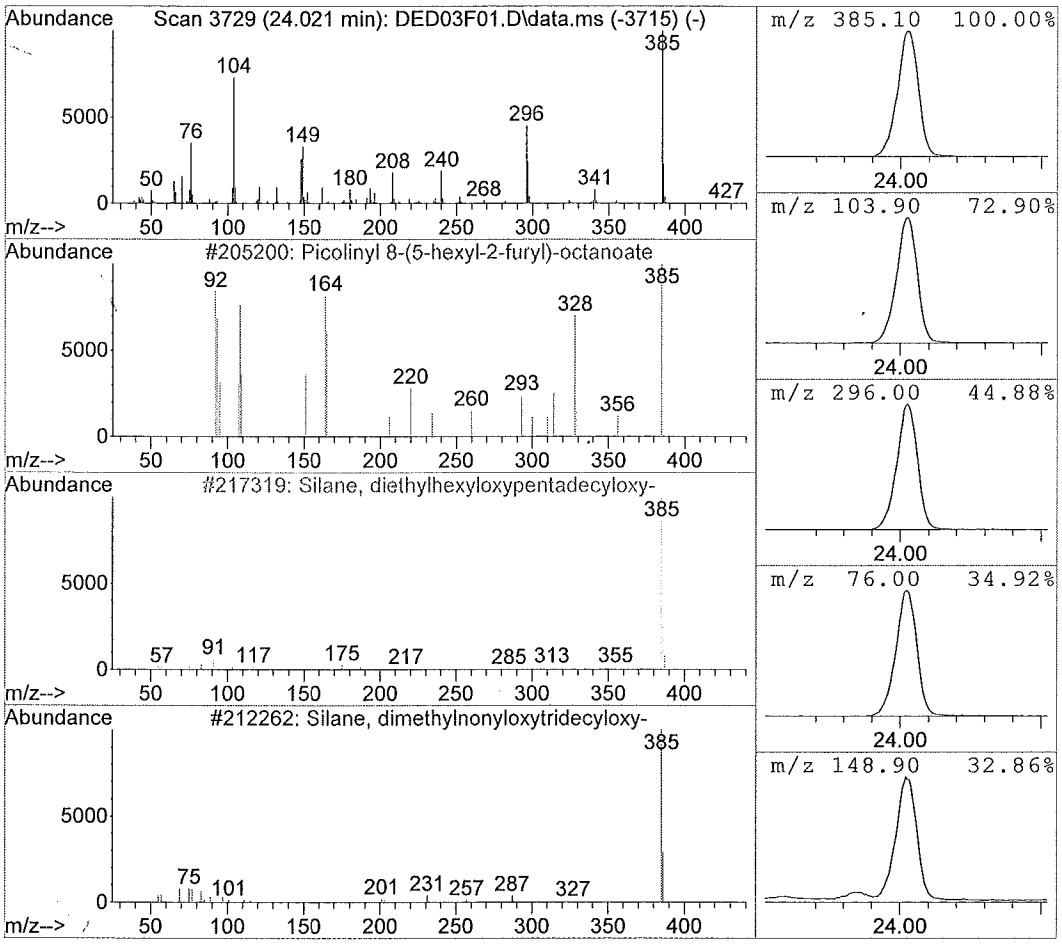
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.02	10.34 ug/ml	4485856	Perylene-d12	8679653

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	22.00
2	Silane, diethylhexyloxypentadecylox	217319	1000363-74-3	10.00
3	Silane, dimethylnonyloxytridecyloxy	212262	1000356-05-2	10.00
4	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	10.00
5	Silane, dimethyldecyloxydodecyloxy-	212259	1000346-92-7	10.00



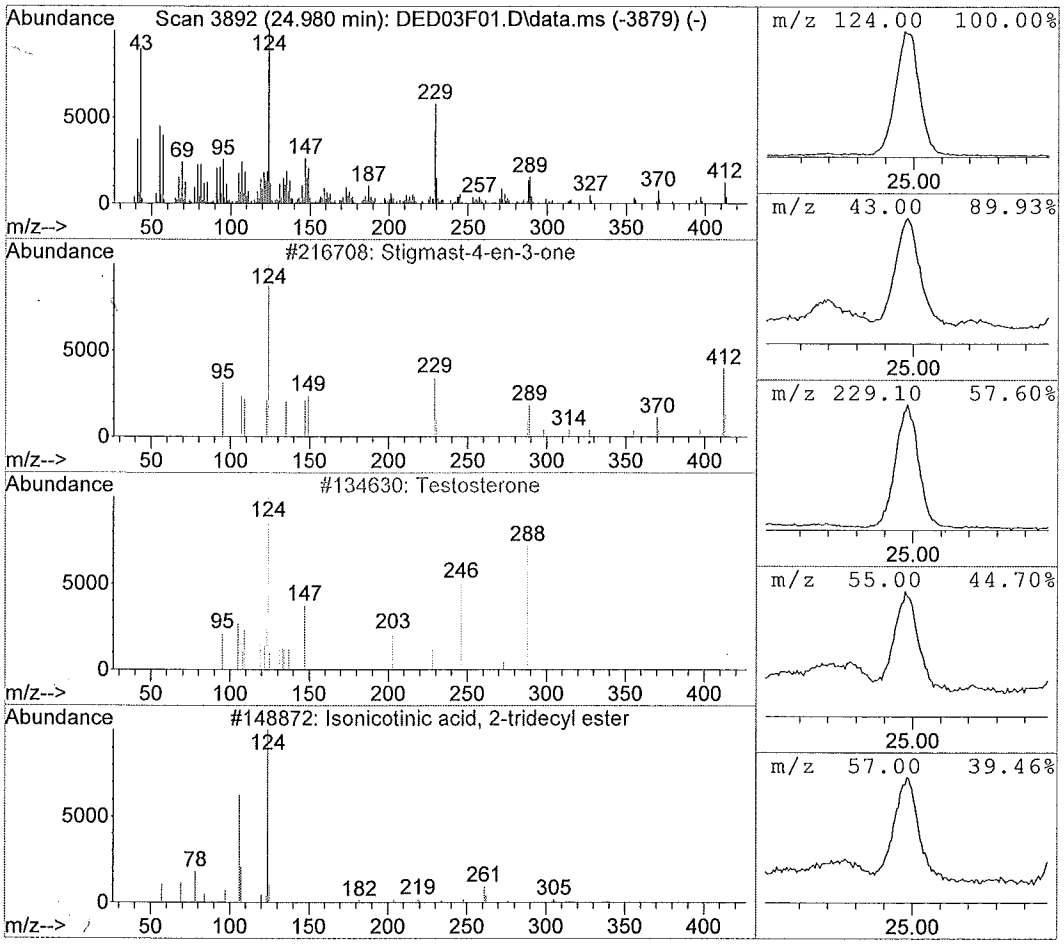
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\17JUN15\DED03F01.D Vial: 2
Acq On : 06/17/2015 13:41 Operator: SY
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.98	3.60 ug/ml	1563975	Perylene-d12	8679653

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	94.00
2	Testosterone	134630	000058-22-0	70.00
3	Isonicotinic acid, 2-tridecyl ester	148872	1000299-89-3	35.00
4	Testosterone cypionate	216679	000058-20-8	27.00
5	3-(3a,6a-Dimethyl-2,5-dioxo-hexahyd	106232	1000192-27-6	25.00



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

EPA SAMPLE NO.

F9M42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552004

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBQ06F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

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

EPA SAMPLE NO.: F9M42

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552004
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBQ06F04
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015
GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	19.	J
129-00-0	Pyrene	19.	J
85-68-7	Butylbenzylphthalate	93.	J
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	18.	J
117-81-7	Bis(2-ethylhexyl)phthalate	200	
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	23.	J
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.: F9M42

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552004
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBQ06F04
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015
GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Butanoic acid, anhydride	2.36	87.	J
02		Unknown 2-Furanone, 3,4-dihydroxytetrahydro	2.43	190	J
03		Unknown 1,6-Octadiene, 2,7-dimethyl-	3.18	85.	J
04		Unknown 2-Propenoic acid, 2-methyl-, ethenyl est	3.42	80.	J
05		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.57	3000	JB
06		Unknown 2(3H)-Furanone, 5-acetyldihydro-	4.27	150	J
07		Unknown 3-Hexene-2,5-dione	4.35	340	JB
08		Unknown Hydroxylamine, O-(3-methylbutyl)-	5.18	210	J
09	57-10-3	n-Hexadecanoic acid	12.78	210	JN
10	629-54-9	Hexadecanamide	14.26	130	JNB
11		Unknown 9-Octadecenamide, (Z)-	14.65	340	J
12	301-02-0	9-Octadecenamide, (Z)-	15.17	710	JNB
13		Unknown 2-Ethoxy-2-oxoethyl 2,2,2-trifluoroaceta	16.32	140	J
14	112-84-5	13-Docosenamide, (Z)-	17.13	560	JN
15		Unknown 10-Nonadecanone	19.37	80.	J
16	557-61-9	Octacosanol	19.72	550	JN
17	83-46-5	.beta.-Sitosterol	22.63	240	JN
18	4555-56-0	D:C-Friedo-B':A'-neogammacer-9(11)-ene, 3-methox	24.16	410	JN
19		Unknown Testosterone	24.64	600	J
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1000	J

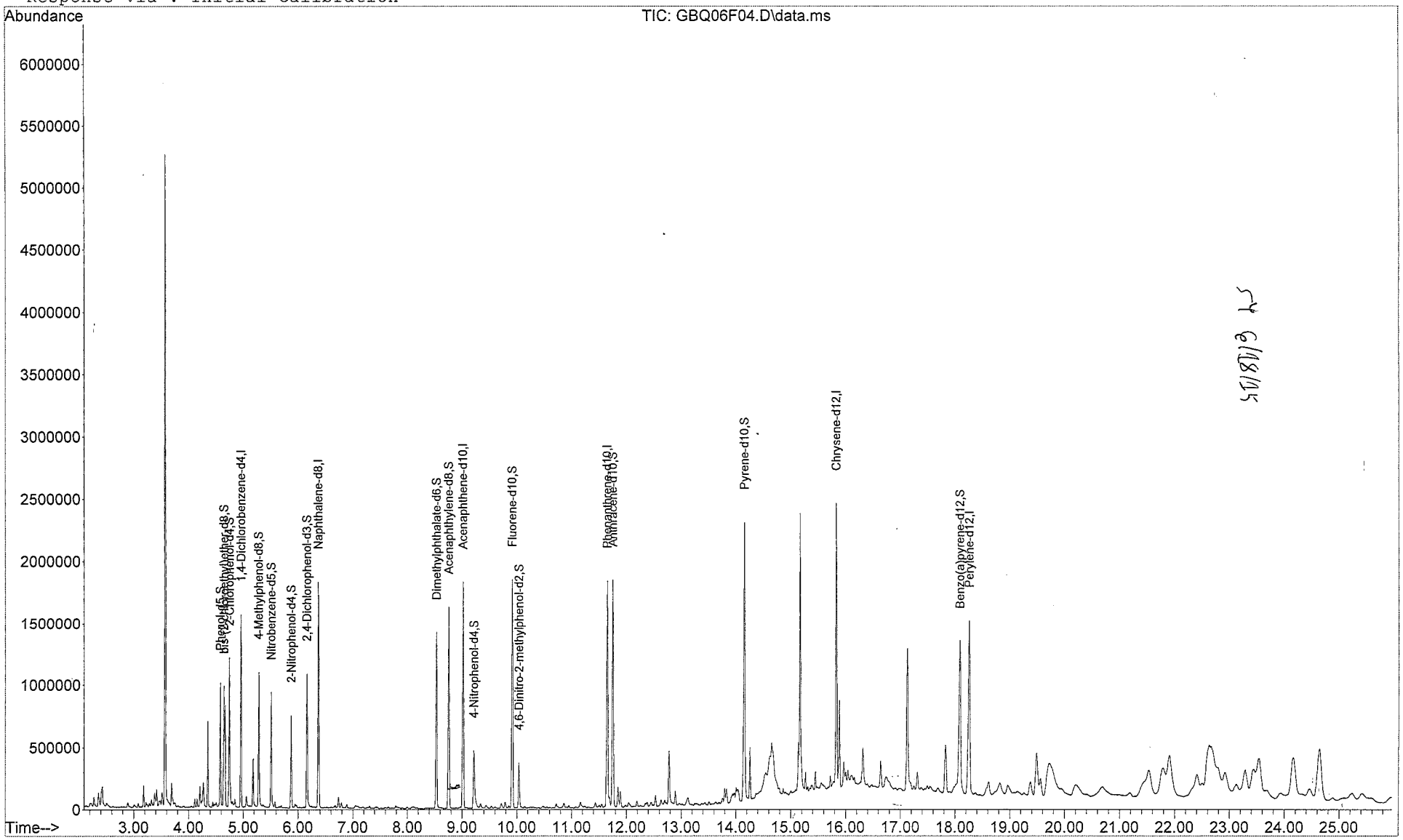
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 11:31:59 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



6/18/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:31:59 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	276875	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1098262	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	646208	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1086576	20.00 ug/ml
73) Chrysene-d12	15.83	240	1069177	20.00 ug/ml
81) Perylene-d12	18.26	264	1020891	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	386982	20.043ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	192113	16.250ug/mL
7) 2-Chlorophenol-d4	4.75	132	374531	19.757ug/ml
13) 4-Methylphenol-d8	5.28	113	297363	19.782ug/mL
17) Nitrobenzene-d5	5.51	128	172982	18.773ug/ml
21) 2-Nitrophenol-d4	5.87	143	194928	18.982ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	312476	20.772ug/mL
28) 4-Chloroaniline-d4	6.46	131	2566	0.157ug/mL
42) Dimethylphthalate-d6	8.53	166	904645	23.019ug/mL
45) Acenaphthylene-d8	8.76	160	1077577	20.546ug/mL
50) 4-Nitrophenol-d4	9.22	143	184527	22.049ug/mL
57) Fluorene-d10	9.92	176	768951	22.527ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	94055	13.178ug/mL
69) Anthracene-d10	11.75	188	1142931	20.794ug/mL
75) Pyrene-d10	14.16	212	1054721	21.699ug/mL
86) Benzo(a)pyrene-d12	18.09	264	906212	19.569ug/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)

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:31:59 2015 Results File: GSOM01D4.RES

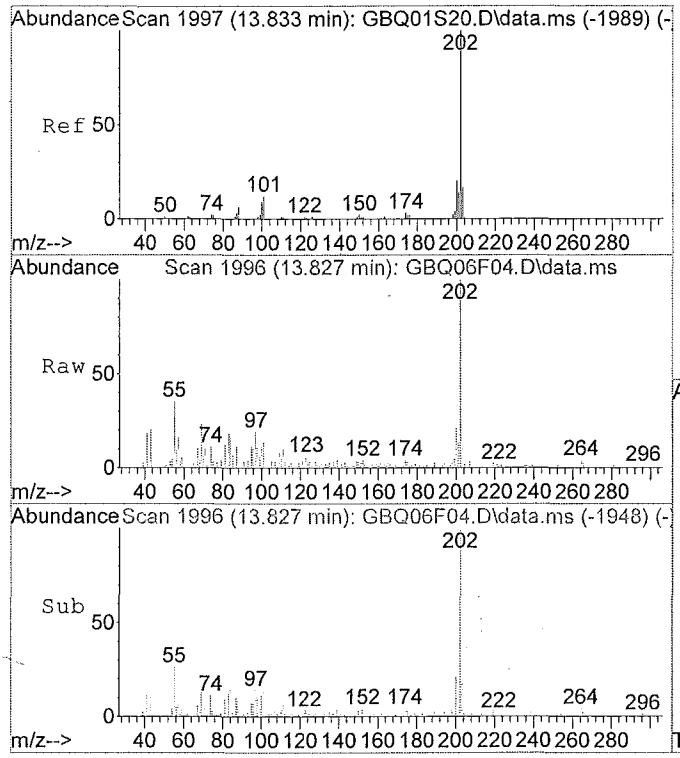
Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

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	13.83	202	28833	0.471ug/ml	98
74) Pyrene	14.18	202	32336	0.488ug/ml m	28
76) Butylbenzylphthalate	15.14	149	82849	2.363ug/ml	95
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	15.86	228	25588	0.464ug/ml	95
80) Bis-(2-ethylhexyl)phthalat	15.89	149	266330	5.161ug/ml	97
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	17.49	252	34118	0.575ug/ml	96
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	

SY 6/18/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

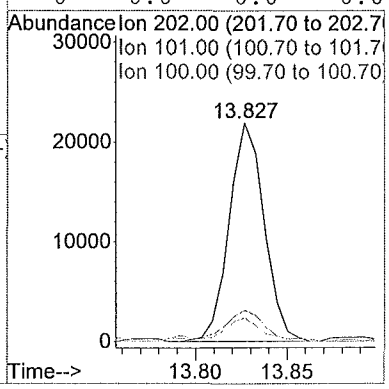
: 00197

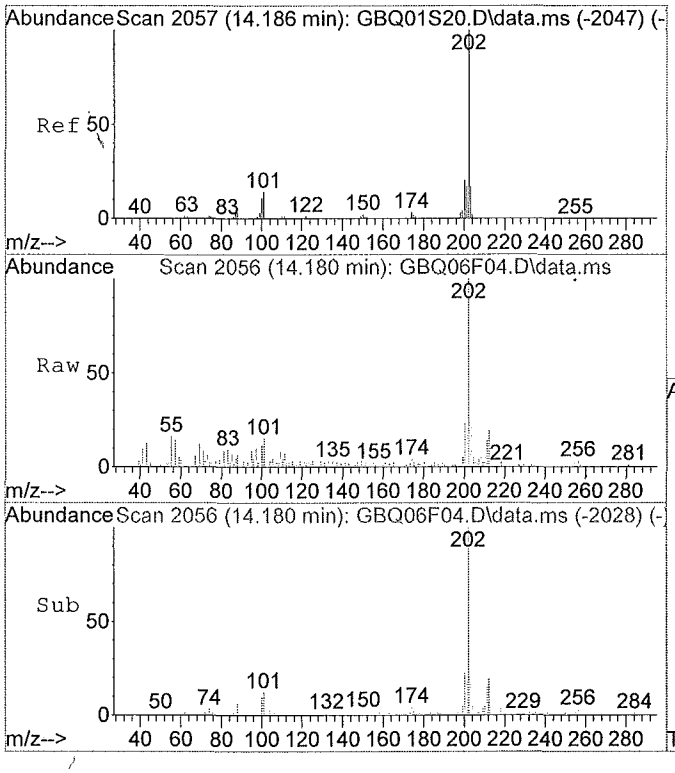


#72
Fluoranthene
Concen: 0.47 ug/ml
RT: 13.83 min Scan# 1996
Delta R.T. -0.01 min
Lab File: GBQ06F04.D
Acq: 06/16/2015 20:45

Tgt Ion:202 Resp: 28833

Ion	Ratio	Lower	Upper
202	100		
101	15.6	10.5	19.5
100	12.0	7.4	13.8
0	0.0	0.0	0.0

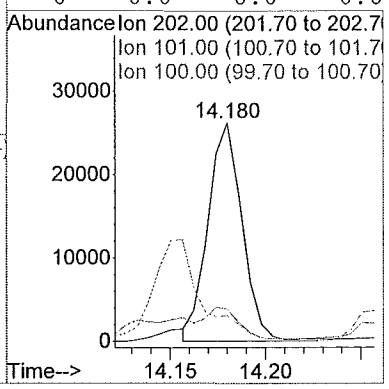


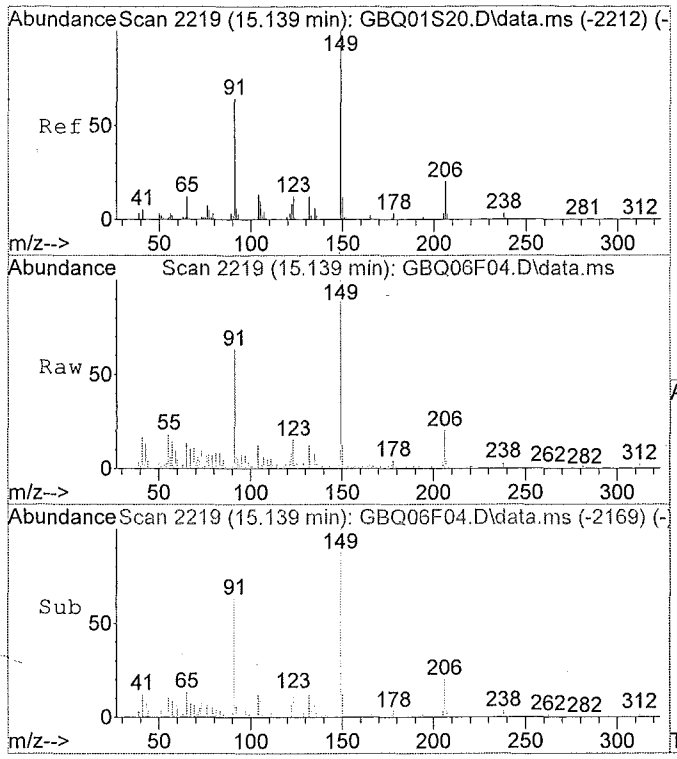


#74
Pyrene
Concen: 0.49 ug/ml m
RT: 14.18 min Scan# 2056
Delta R.T. -0.01 min
Lab File: GBQ06F04.D
Acq: 06/16/2015 20:45

Tgt Ion:202 Resp: 32336

Ion	Ratio	Lower	Upper
202	100		
101	32.1	12.2	22.7#
100	67.3	10.1	18.7#
0	0.0	0.0	0.0

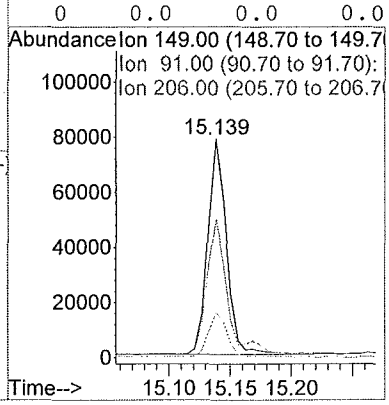


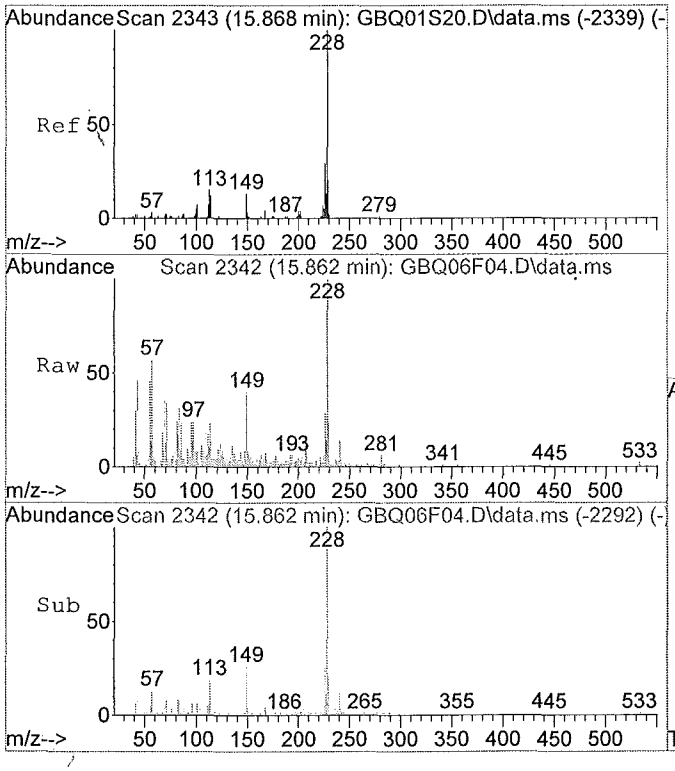


#76
Butylbenzylphthalate
Concen: 2.36 ug/ml
RT: 15.14 min Scan# 2219
Delta R.T. -0.01 min
Lab File: GBQ06F04.D
Acq: 06/16/2015 20:45

Tgt Ion:149 Resp: 82849

Ion	Ratio	Lower	Upper
149	100		
91	67.3	50.7	94.3
206	22.6	16.4	30.4
0	0.0	0.0	0.0

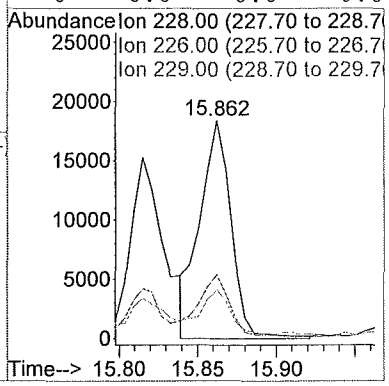


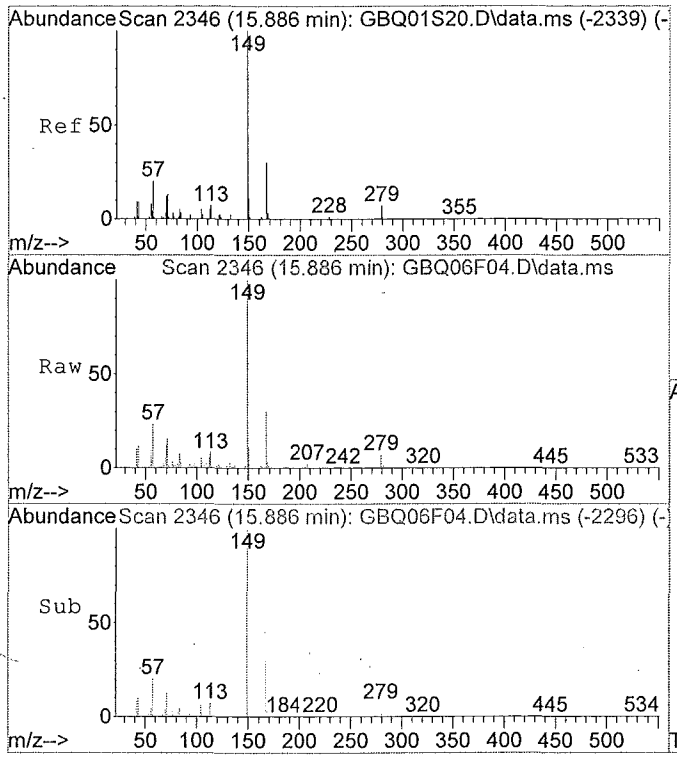


#79
Chrysene
Concen: 0.46 ug/ml
RT: 15.86 min Scan# 2342
Delta R.T. -0.01 min
Lab File: GBQ06F04.D
Acq: 06/16/2015 20:45

Tgt Ion:228 Resp: 25588

Ion	Ratio	Lower	Upper
228	100		
226	32.0	20.1	37.3
229	21.5	13.7	25.5
0	0.0	0.0	0.0

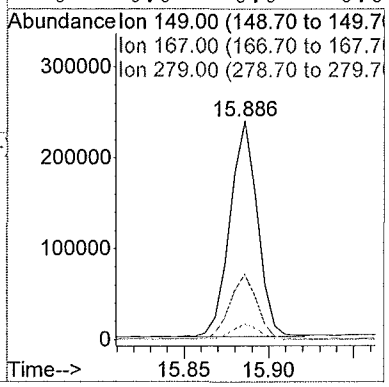


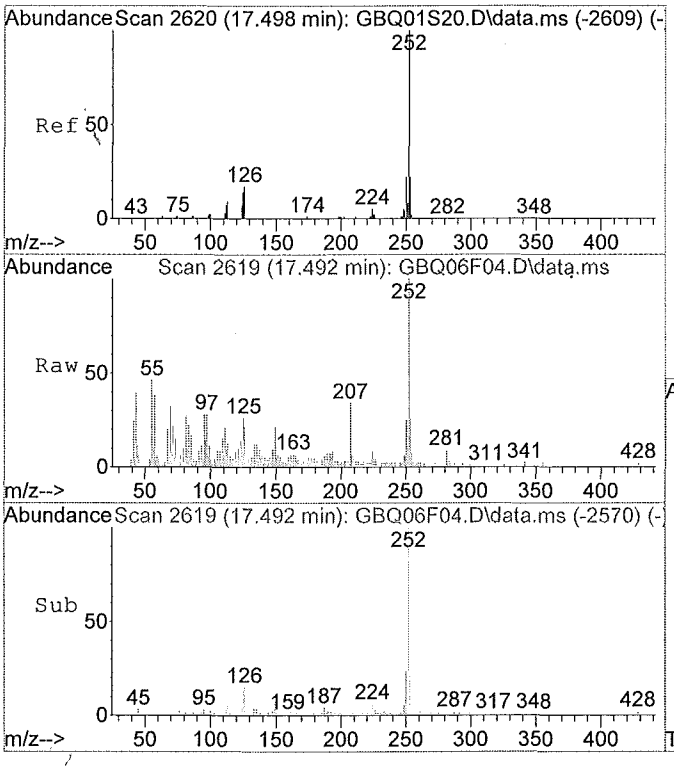


#80
Bis-(2-ethylhexyl)phthalate
Concen: 5.16 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBQ06F04.D
Acq: 06/16/2015 20:45

Tgt Ion:149 Resp: 266330

Ion	Ratio	Lower	Upper
149	100		
167	29.5	22.0	40.8
279	7.3	5.0	9.2
0	0.0	0.0	0.0

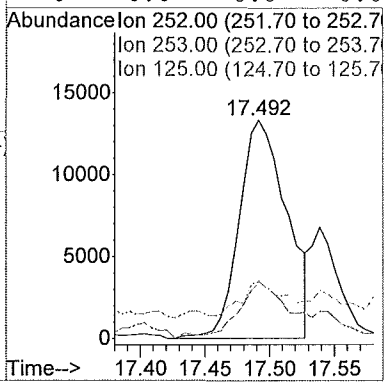




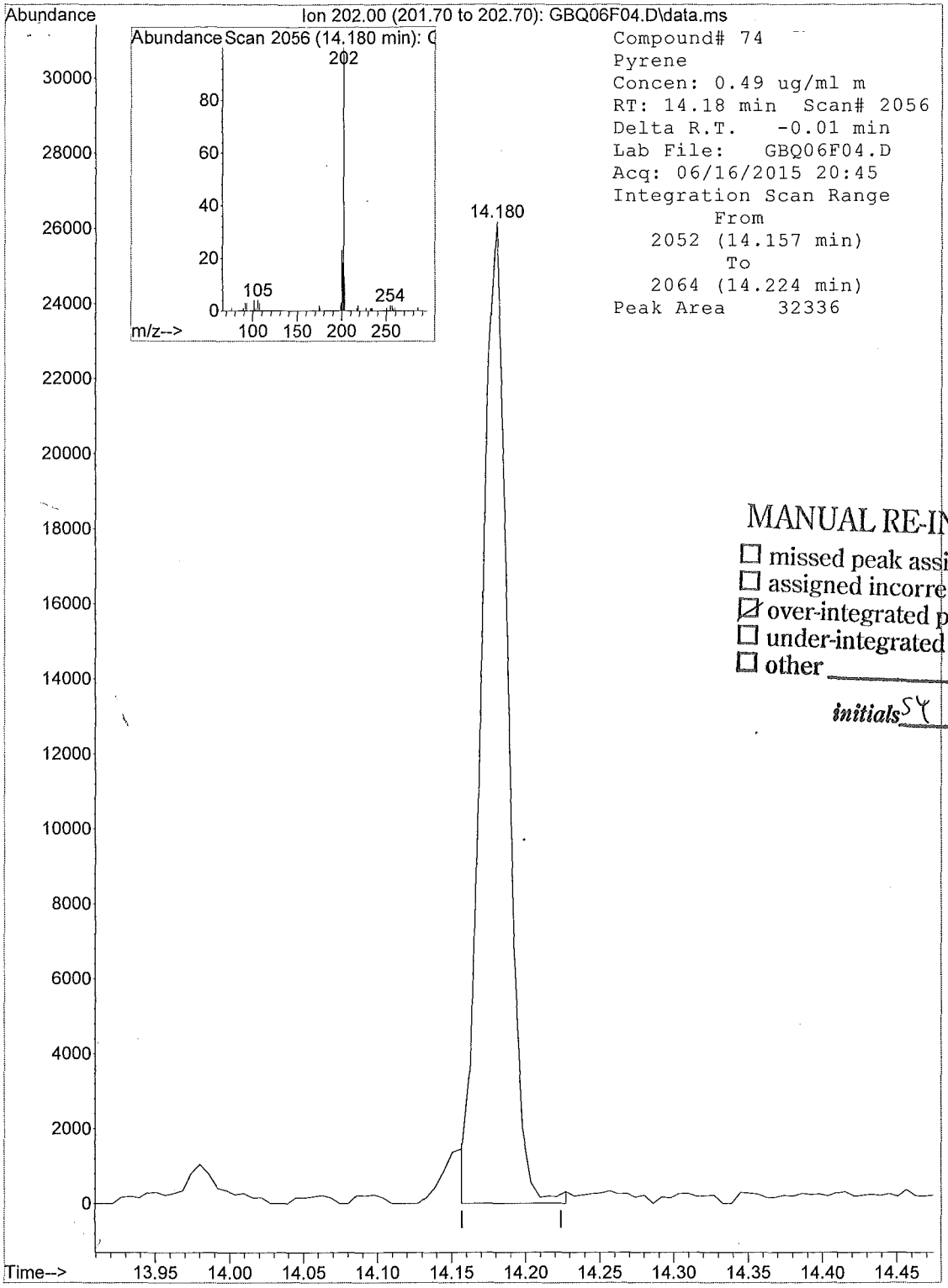
#83
Benzo(b)fluoranthene
Concen: 0.57 ug/ml
RT: 17.49 min Scan# 2619
Delta R.T. -0.01 min
Lab File: GBQ06F04.D
Acq: 06/16/2015 20:45

Tgt Ion:252 Resp: 34118

Ion	Ratio	Lower	Upper
252	100		
253	23.8	15.1	28.1
125	14.3	10.6	19.8
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Pyrene



MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/18/15

GSOM01D4.M 5975-G GSOM01D4.M 1515552004 F9M42 . SOIL SOM

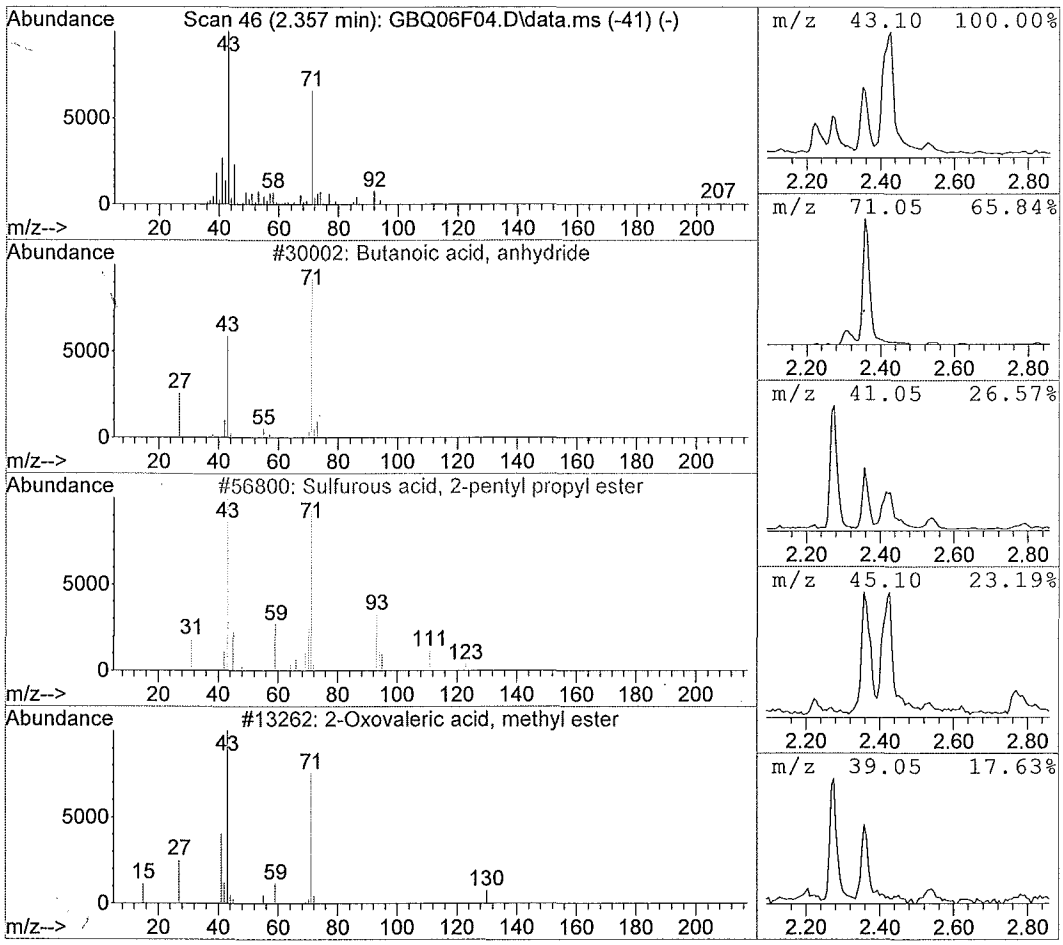
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.36	2.21 ug/ml	168799	1,4-Dichlorobenzene-d4	1530659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butanoic acid, anhydride	30002	000106-31-0	53.00
2	Sulfurous acid, 2-pentyl propyl est	56800	1000309-15-1	50.00
3	2-Oxovaleric acid, methyl ester	13262	1000353-27-4	50.00
4	3-Buten-2-ol, 2-methyl-	1792	000115-18-4	47.00
5	Pentane, 2-bromo-	24066	000107-81-3	47.00



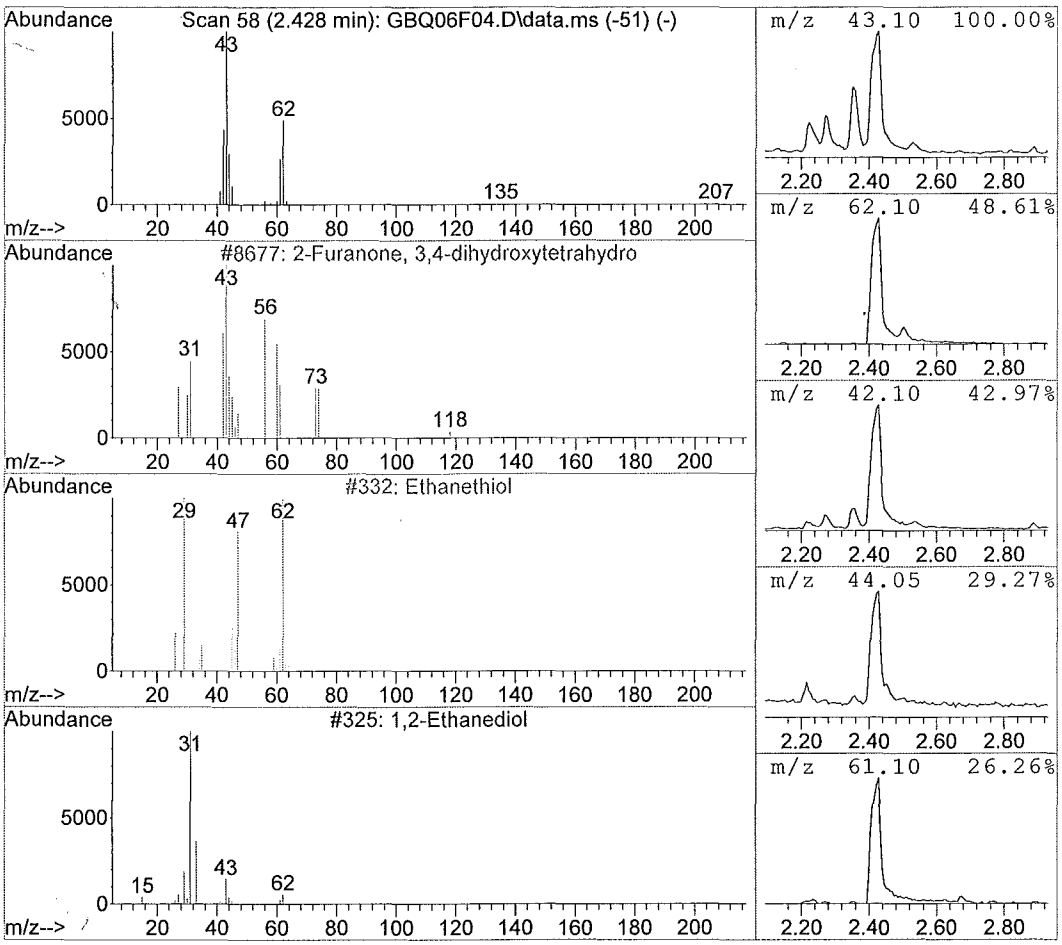
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.43	4.76 ug/ml	364247	1,4-Dichlorobenzene-d4	1530659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Furanone, 3,4-dihydroxytetrahydro	8677	1000198-03-7	9.00
2	Ethanethiol	332	000075-08-1	7.00
3	1,2-Ethanediol	325	000107-21-1	7.00
4	Peroxide, dimethyl	330	000690-02-8	7.00
5	Ethene, chloro-	323	000075-01-4	5.00



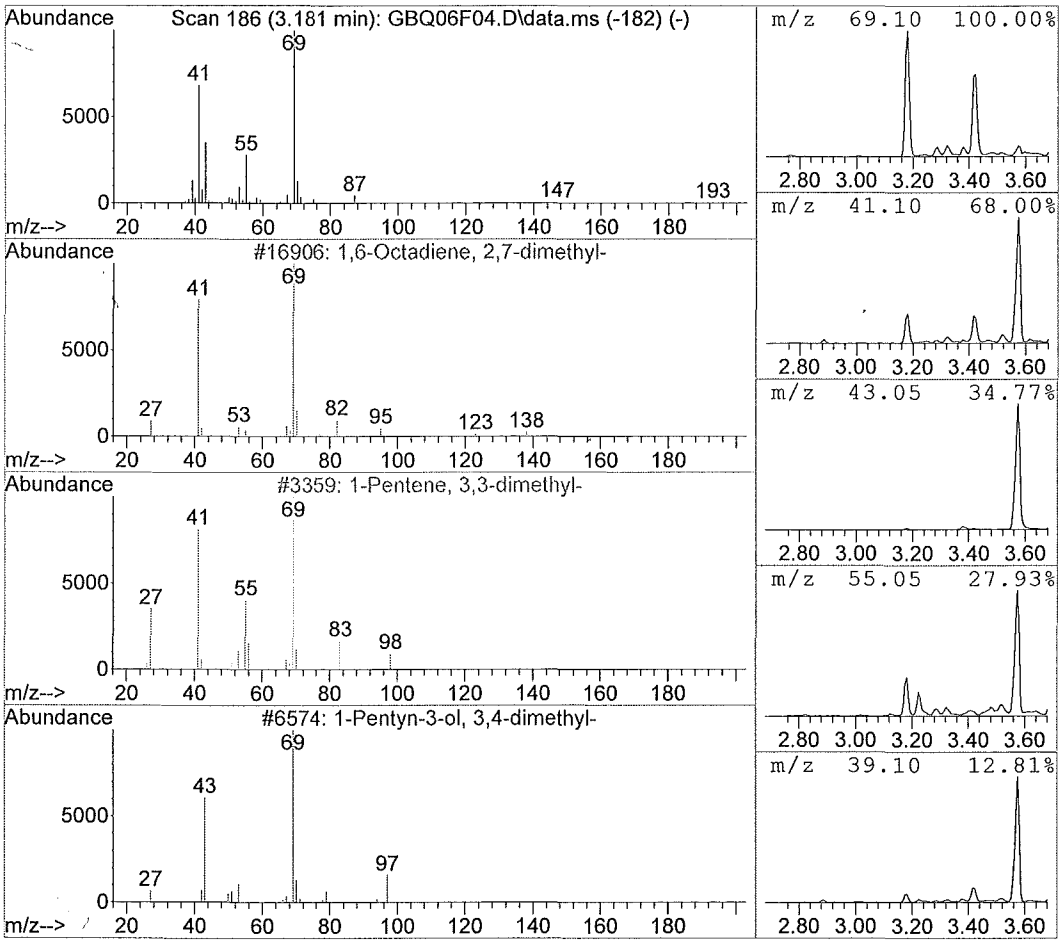
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.18	2.14 ug/ml	164072	1,4-Dichlorobenzene-d4	1530659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,6-Octadiene, 2,7-dimethyl-	16906	040195-09-3	43.00
2	1-Pentene, 3,3-dimethyl-	3359	003404-73-7	40.00
3	1-Pentyn-3-ol, 3,4-dimethyl-	6574	001482-15-1	39.00
4	Cyanamide, dimethyl-	504	001467-79-4	9.00
5	2,6-Octadiene, 2,6-dimethyl-	16908	002792-39-4	9.00



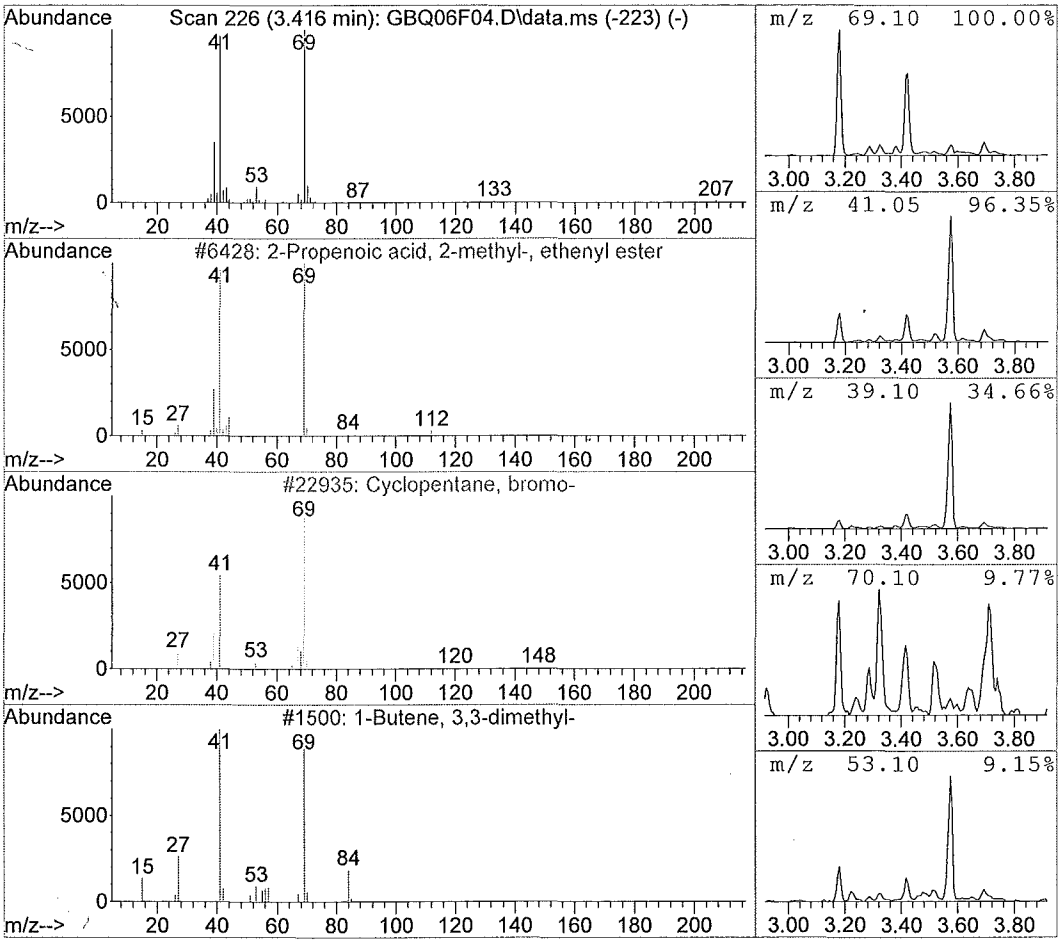
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.42	2.03 ug/ml	155039	1,4-Dichlorobenzene-d4	1530659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propenoic acid, 2-methyl-, etheny	6428	004245-37-8	72.00
2	Cyclopentane, bromo-	22935	000137-43-9	64.00
3	1-Butene, 3,3-dimethyl-	1500	000558-37-2	43.00
4	Butane, 2,3-dimethyl-2-nitro-	13900	034075-28-0	43.00
5	Geranyl nitrile	23324	101660-61-1	43.00



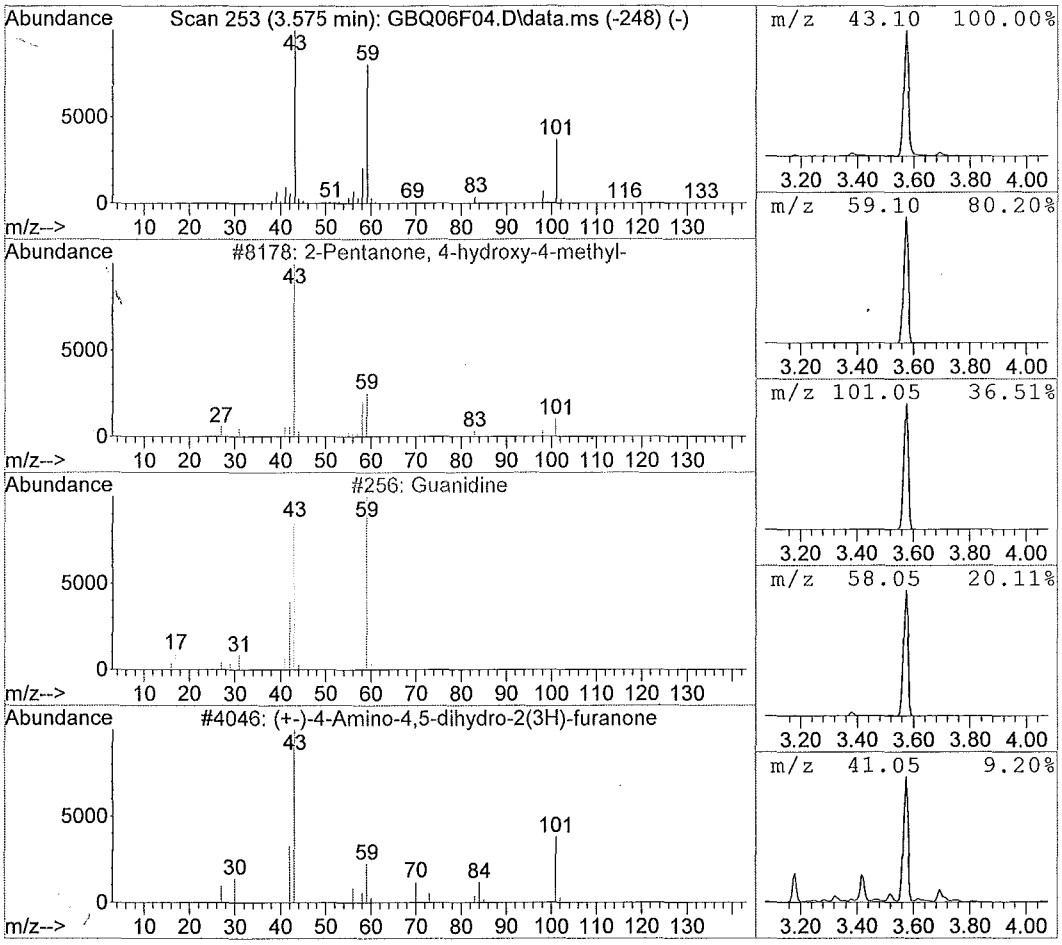
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	76.46 ug/ml	5851813	1,4-Dichlorobenzene-d4	1530659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	5-Hexen-2-one	3159	000109-49-9	9.00



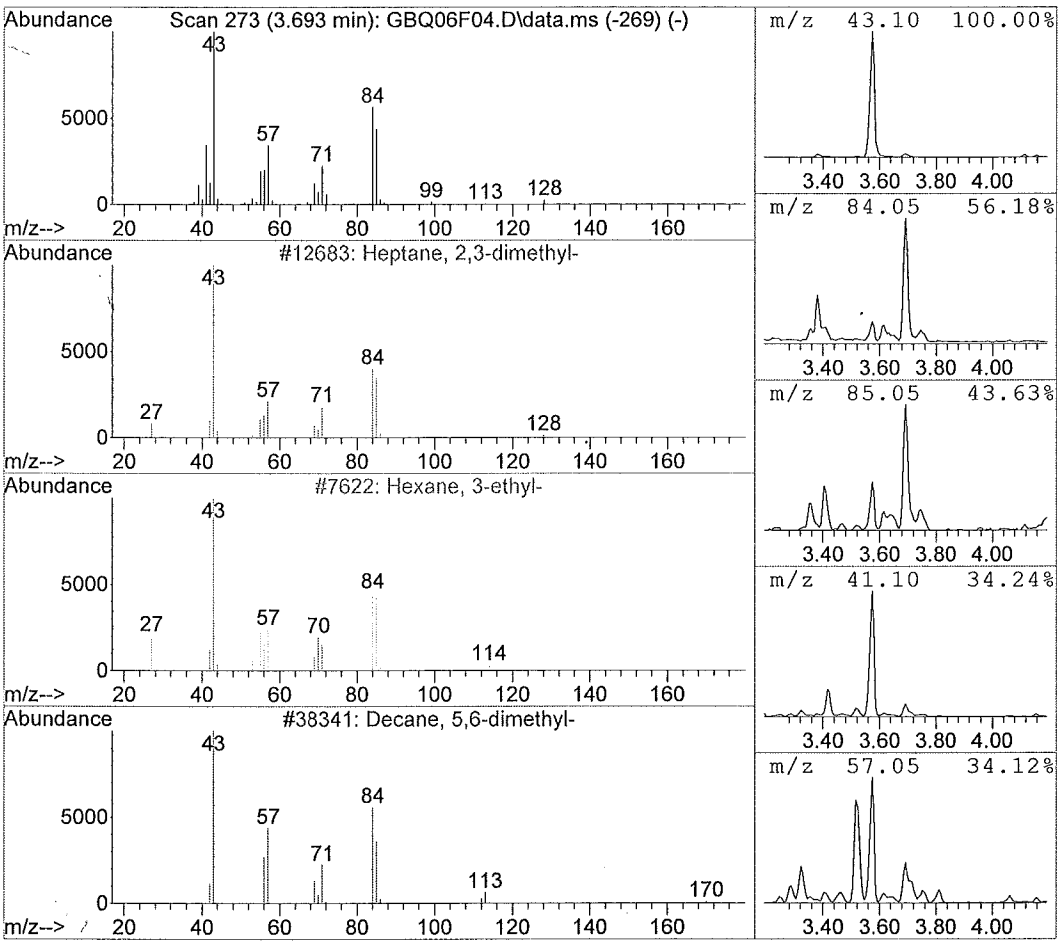
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	3.40 ug/ml	260466	1,4-Dichlorobenzene-d4	1530659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl- BA	12683	003074-71-3	81.00
2	Hexane, 3-ethyl-	7622	000619-99-8	74.00
3	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
4	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	58.00
5	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	56.00



00177

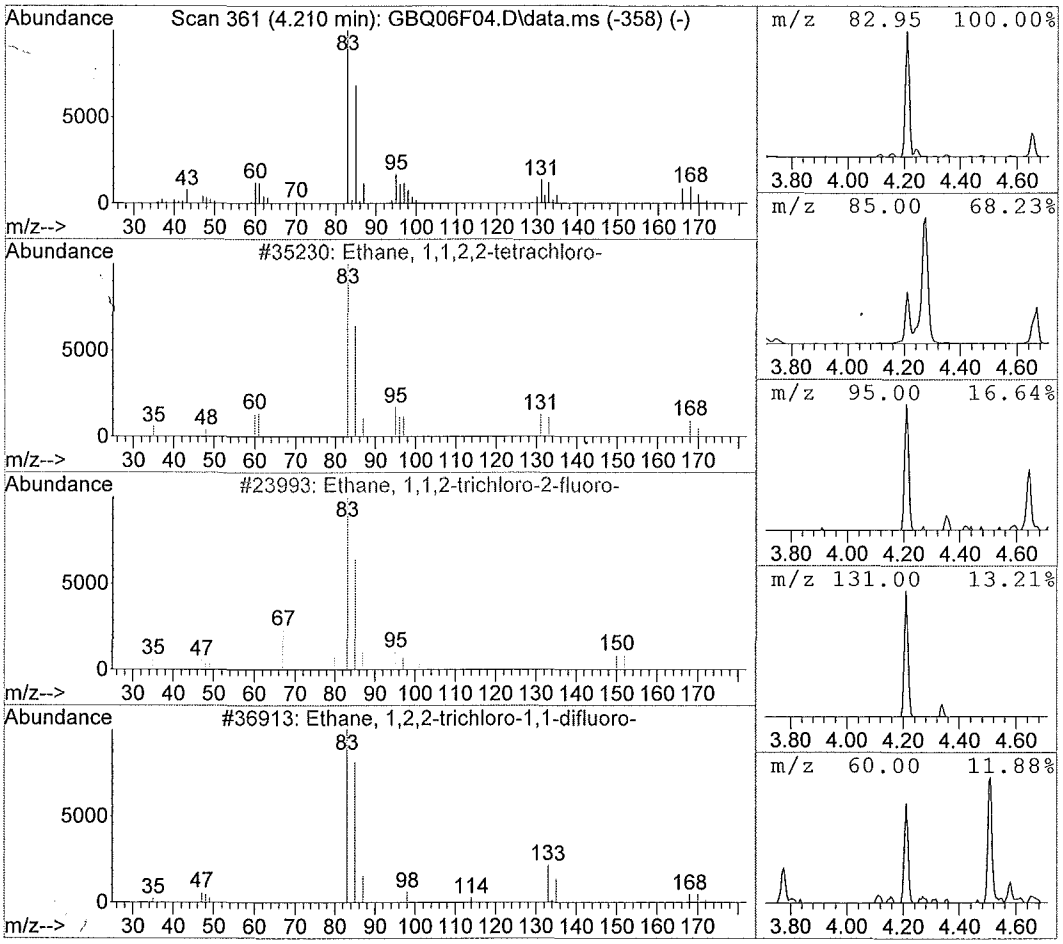
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.56 ug/ml	195926	1,4-Dichlorobenzene-d4	1530659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	97.00
2	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	43.00
4	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	42.00
5	Methane, dichloronitro-	13083	007119-89-3	40.00



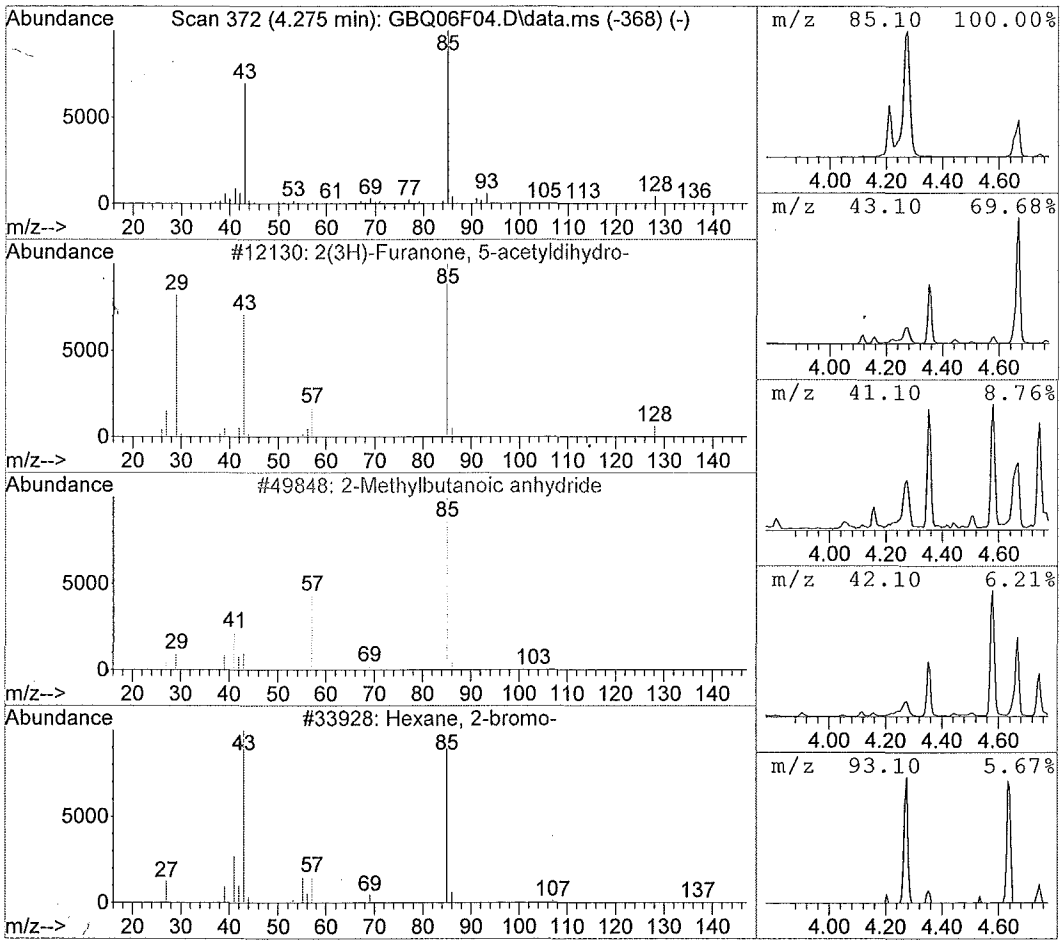
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	3.83 ug/ml	293140	1,4-Dichlorobenzene-d4	1530659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	80.00
2	2-Methylbutanoic anhydride	49848	001468-39-9	39.00
3	Hexane, 2-bromo-	33928	003377-86-4	23.00
4	2(3H)-Furanone, dihydro-5-propyl-	12280	000105-21-5	9.00
5	Hexane, 3-bromo-	33931	003377-87-5	9.00



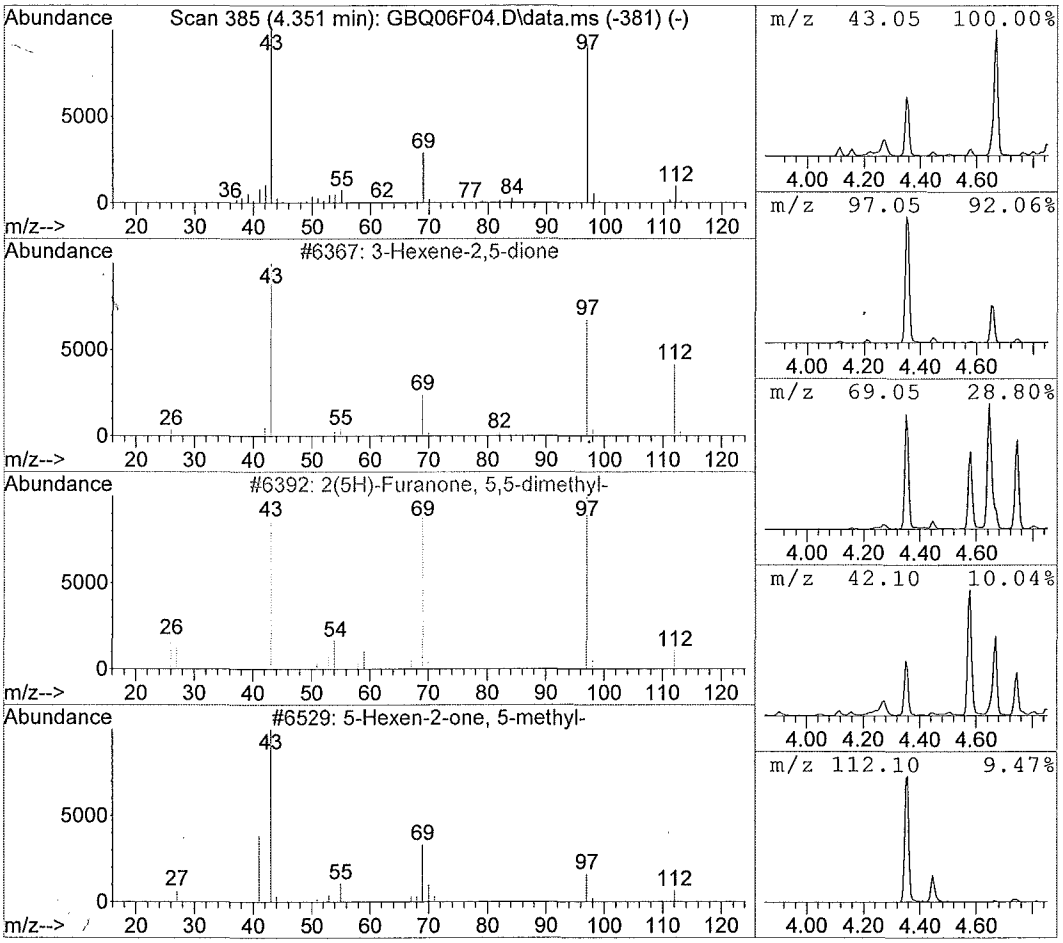
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	8.67 ug/ml	663630	1,4-Dichlorobenzene-d4	1530659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	64.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	50.00
3	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	22.00
4	1-(Trimethylsilyl)-1-propyne	6338	006224-91-5	9.00
5	1,3-Butadien-1-ol, acetate	6386	001515-76-0	9.00



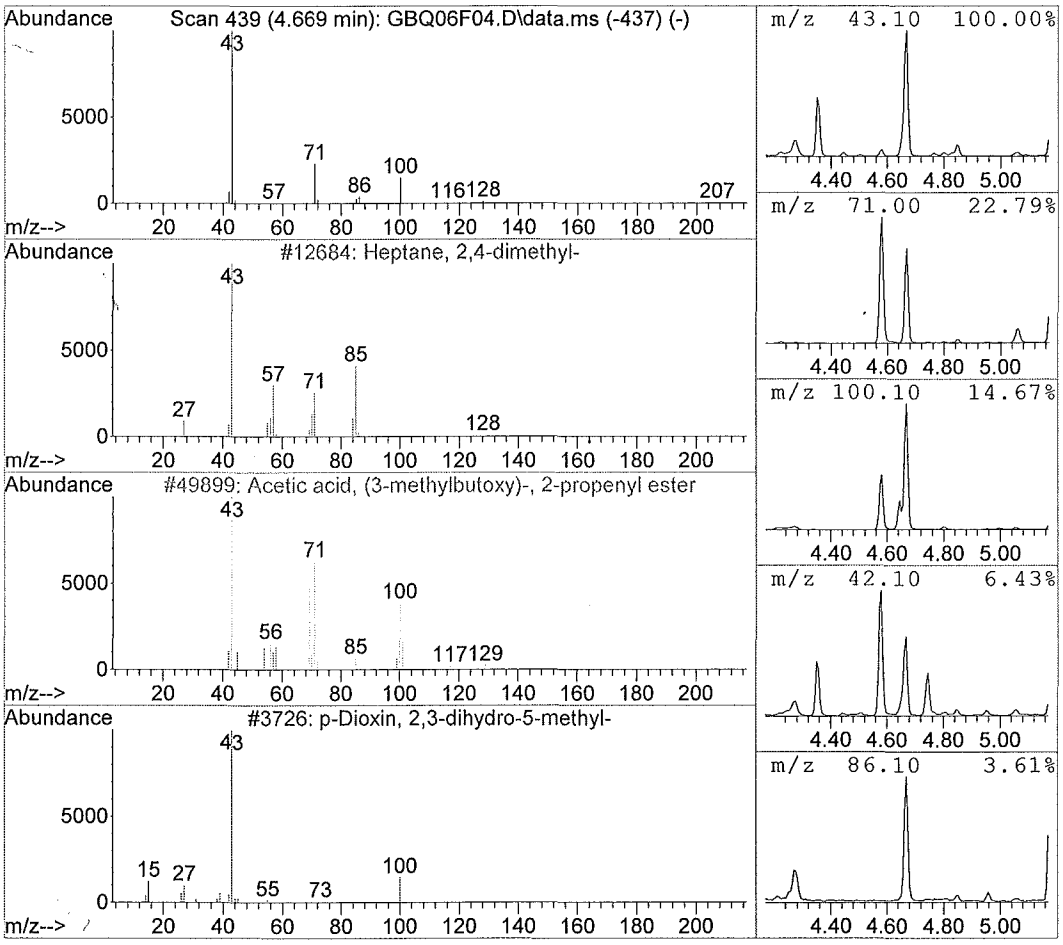
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.67	8.83 ug/ml	675894	1,4-Dichlorobenzene-d4	1530659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl- BA	12684	002213-23-2	45.00
2	Acetic acid, (3-methylbutoxy)-, 2-p	49899	067634-00-8	9.00
3	p-Dioxin, 2,3-dihydro-5-methyl-	3726	003973-22-6	7.00
4	Octane, 4-methyl-	12674	002216-34-4	7.00
5	Furan, tetrahydro-2-methyl-	1806	000096-47-9	7.00



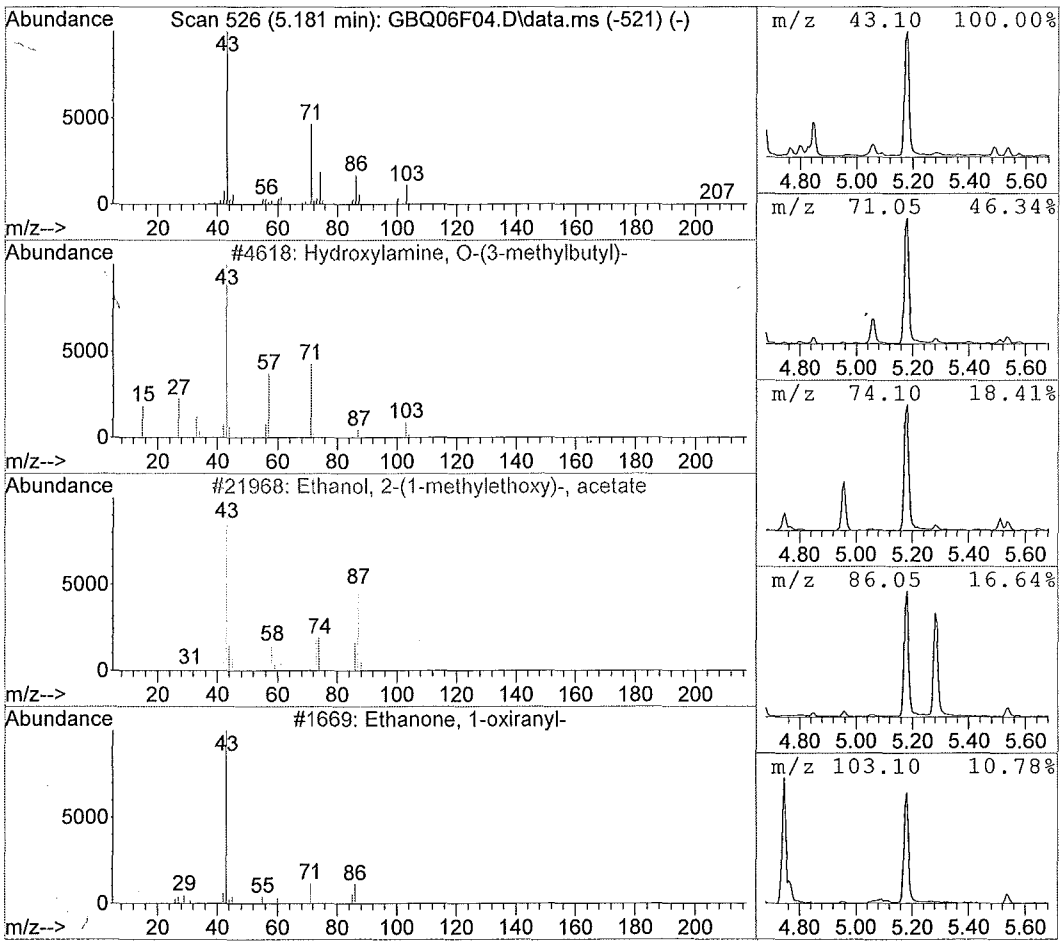
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.18	5.31 ug/ml	406154	1,4-Dichlorobenzene-d4	1530659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	42.00
2	Ethanol, 2-(1-methylethoxy)-, aceta	21968	019234-20-9	16.00
3	Ethanone, 1-oxiranyl-	1669	004401-11-0	14.00
4	Butanoic acid, 3-hydroxy-, methyl e	8734	053562-86-0	12.00
5	Butanoic acid, 3-hydroxy-, methyl e	8721	001487-49-6	12.00



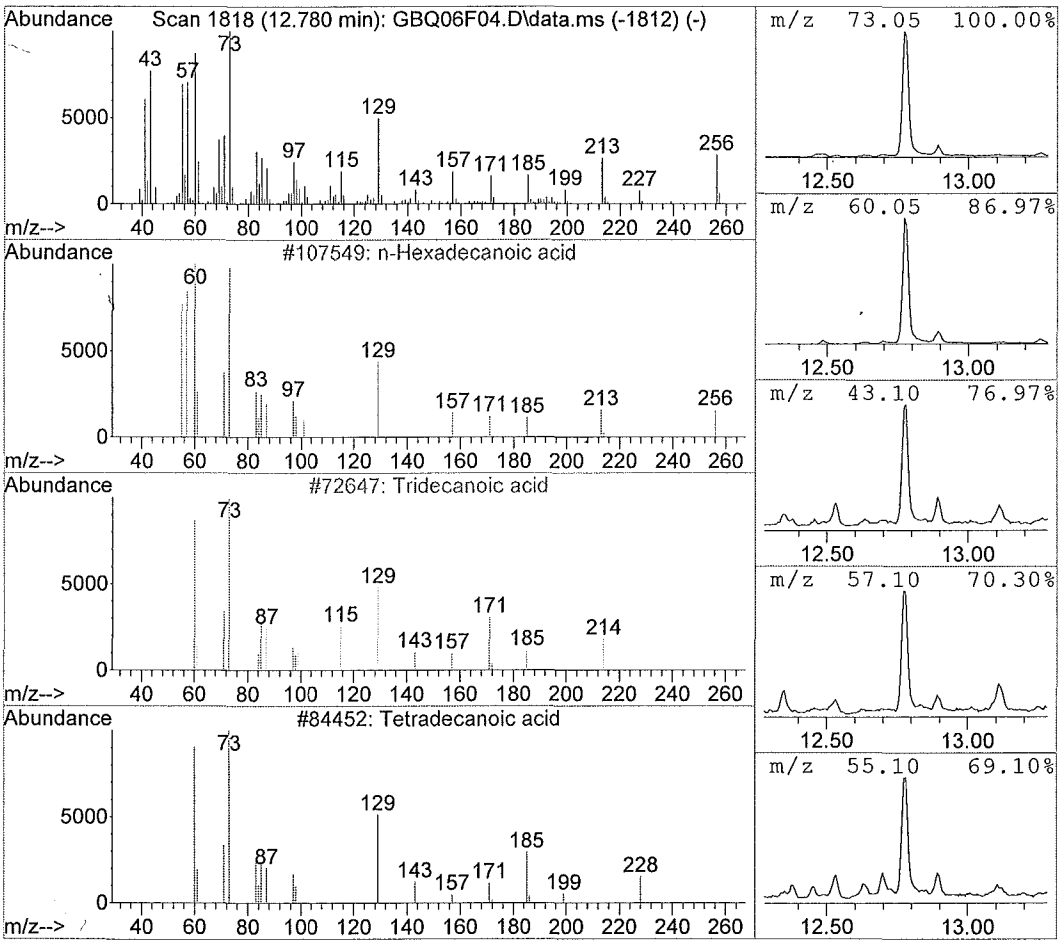
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.78	5.37 ug/ml	728726	Phenanthrene-d10	2713941

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72647	000638-53-9	95.00
3	Tetradecanoic acid	84452	000544-63-8	90.00
4	Pentadecanoic acid	95851	001002-84-2	87.00
5	n-Decanoic acid	39474	000334-48-5	86.00



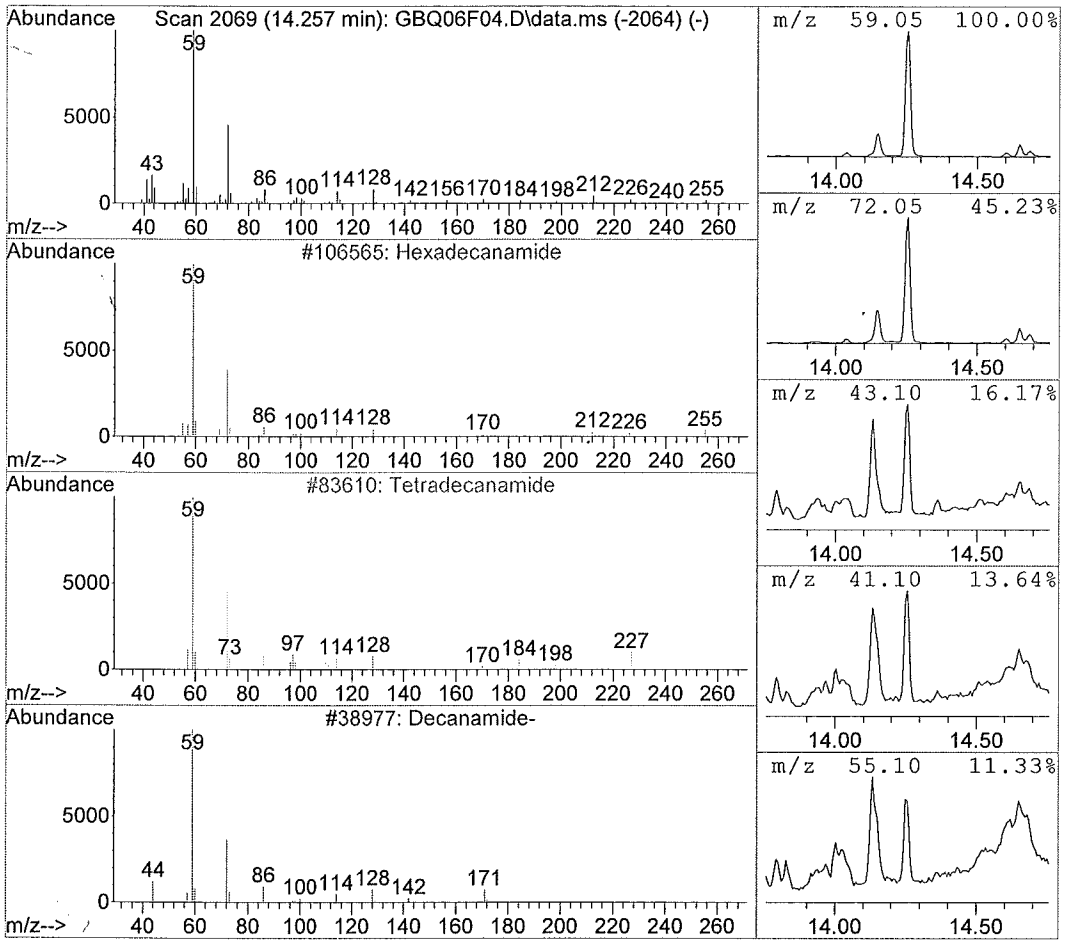
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	3.36 ug/ml	503650	Chrysene-d12	2994000

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	96.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	74.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



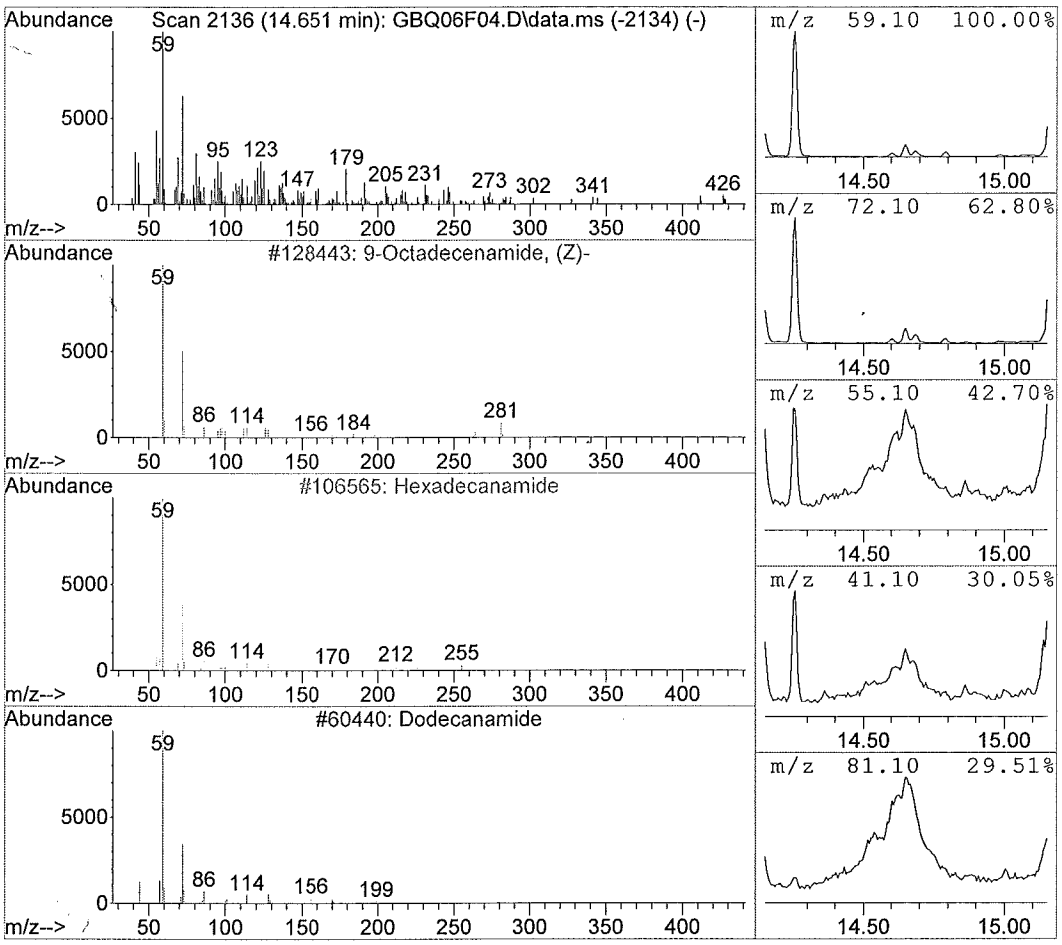
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.65	8.53 ug/ml	1276977	Chrysene-d12	2994000

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	55.00
2	Hexadecanamide	106565	000629-54-9	49.00
3	Dodecanamide	60440	001120-16-7	41.00
4	Nonadecanamide	142051	058185-32-3	35.00
5	Tetradecanamide	83608	000638-58-4	35.00



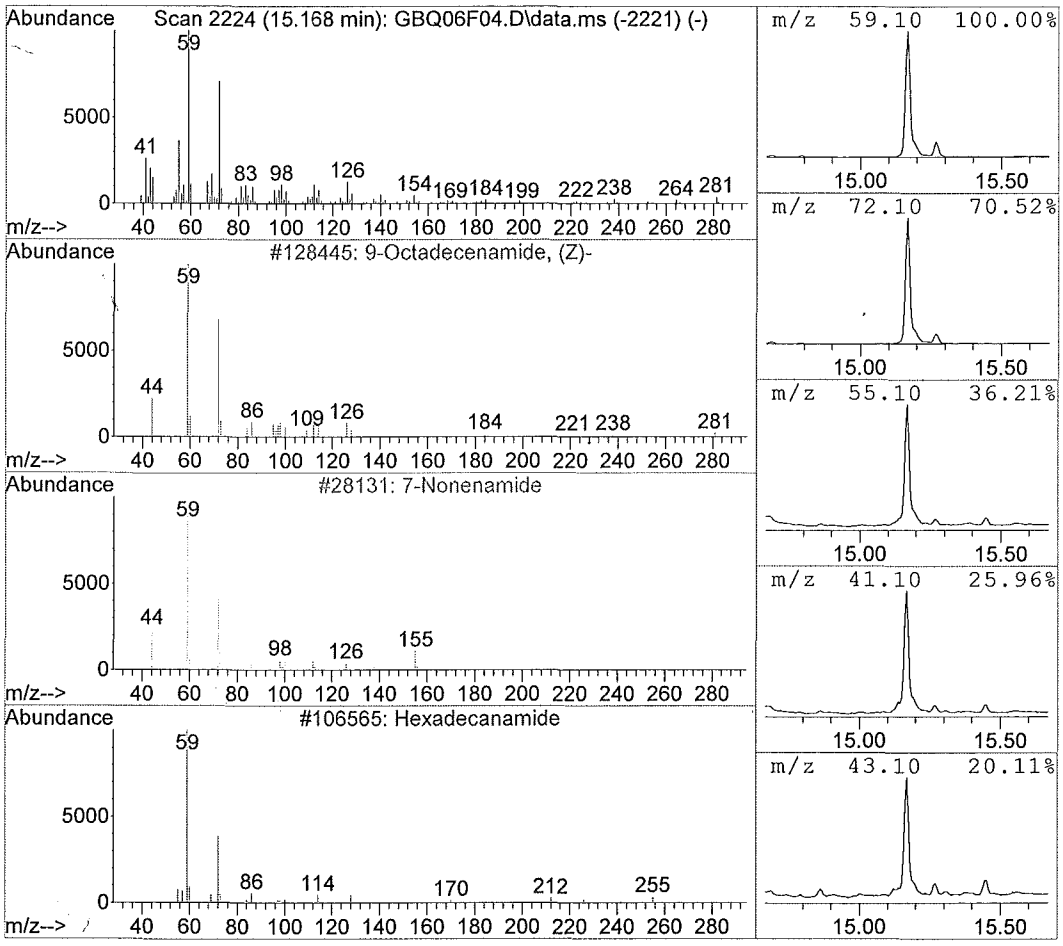
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	17.96 ug/ml	2689173	Chrysene-d12	2994000

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	7-Nonenamide	28131	090949-53-4	78.00
3	Hexadecanamide	106565	000629-54-9	53.00
4	Tetradecanamide	83609	000638-58-4	53.00
5	Octanamide	20317	000629-01-6	50.00



Library Search Compound Report

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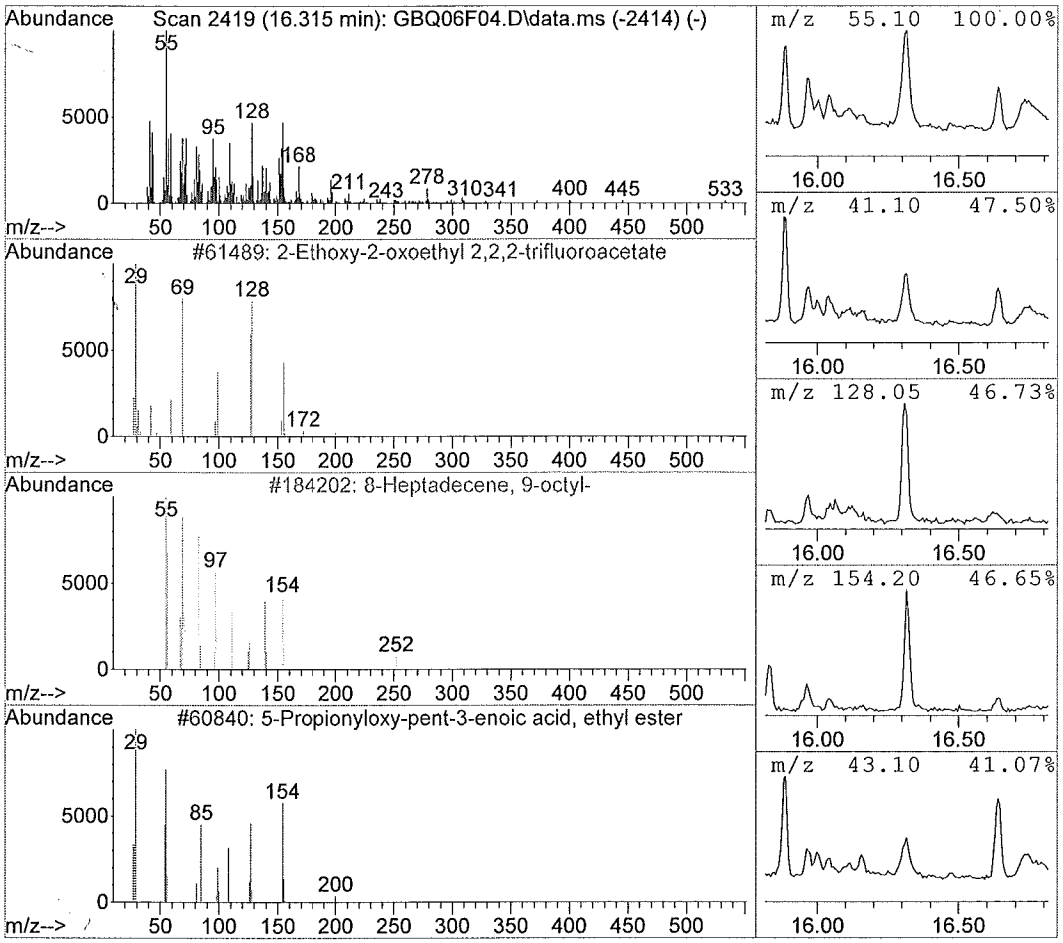
Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On    : 06/16/2015 20:45                          Operator: SY
Sample    : 1515552004  F9M42                         Inst    : 5975-G
Misc      : . SOIL SOM                                Injection volume : 1uL
MS Integration Params: rteint.p

Method    : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title     : EPA/CLP SOM01
Library   : C:\Database\NIST11.L
```

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.32	3.54 ug/ml	530260	Chrysene-d12	2994000

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Ethoxy-2-oxoethyl 2,2,2-trifluoro	61489	137131-10-3	9.00
2	8-Heptadecene, 9-octyl-	184202	024306-18-1	9.00
3	5-Propionyloxy-pent-3-enoic acid, e	60840	1000192-53-7	9.00
4	Cyclohexa-2,4-dienecarboxylic acid,	57726	1000304-34-0	9.00
5	Propanoic acid, 3-bromo-, ethyl est	45859	000539-74-2	9.00



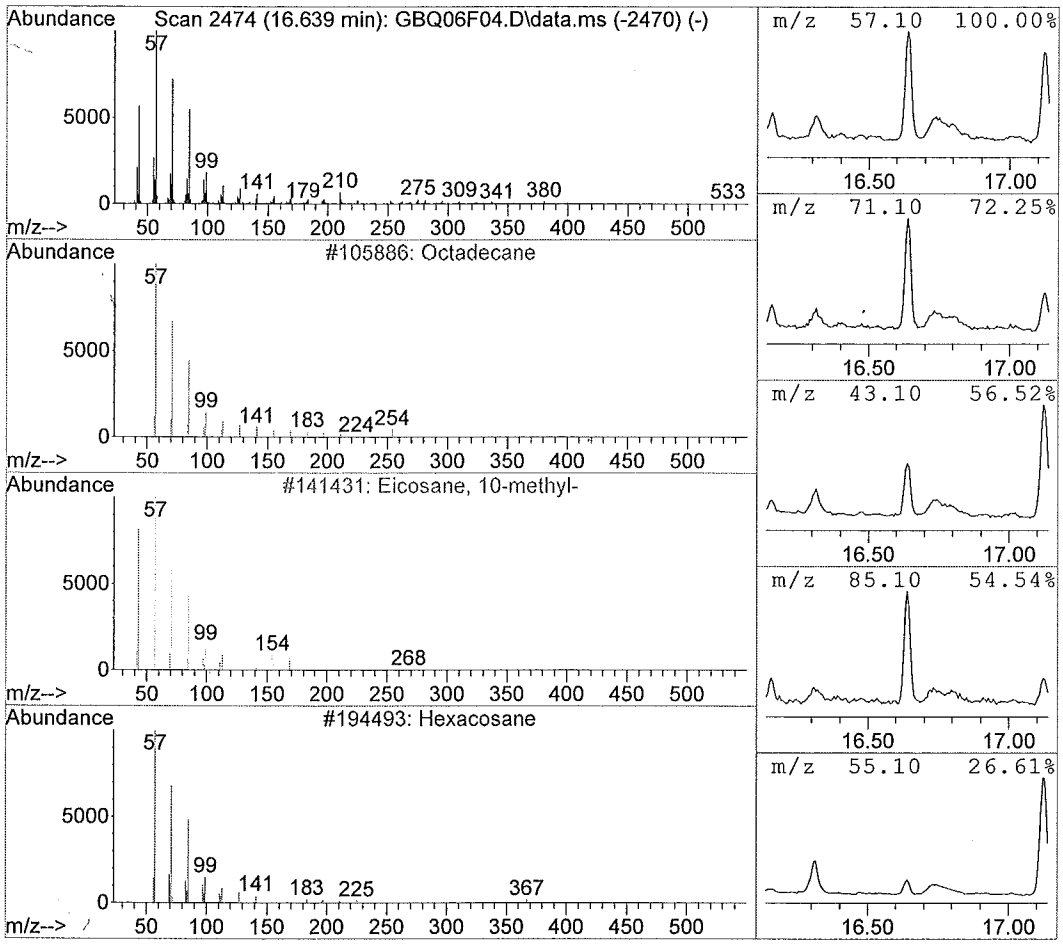
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.64	2.10 ug/ml	314138	Chrysene-d12	2994000

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecane SA	105886	000593-45-3	93.00
2	Eicosane, 10-methyl-	141431	054833-23-7	93.00
3	Hexacosane	194493	000630-01-3	90.00
4	Tetratetracontane	241528	007098-22-8	90.00
5	2-methyloctacosane	215181	1000376-72-8	90.00



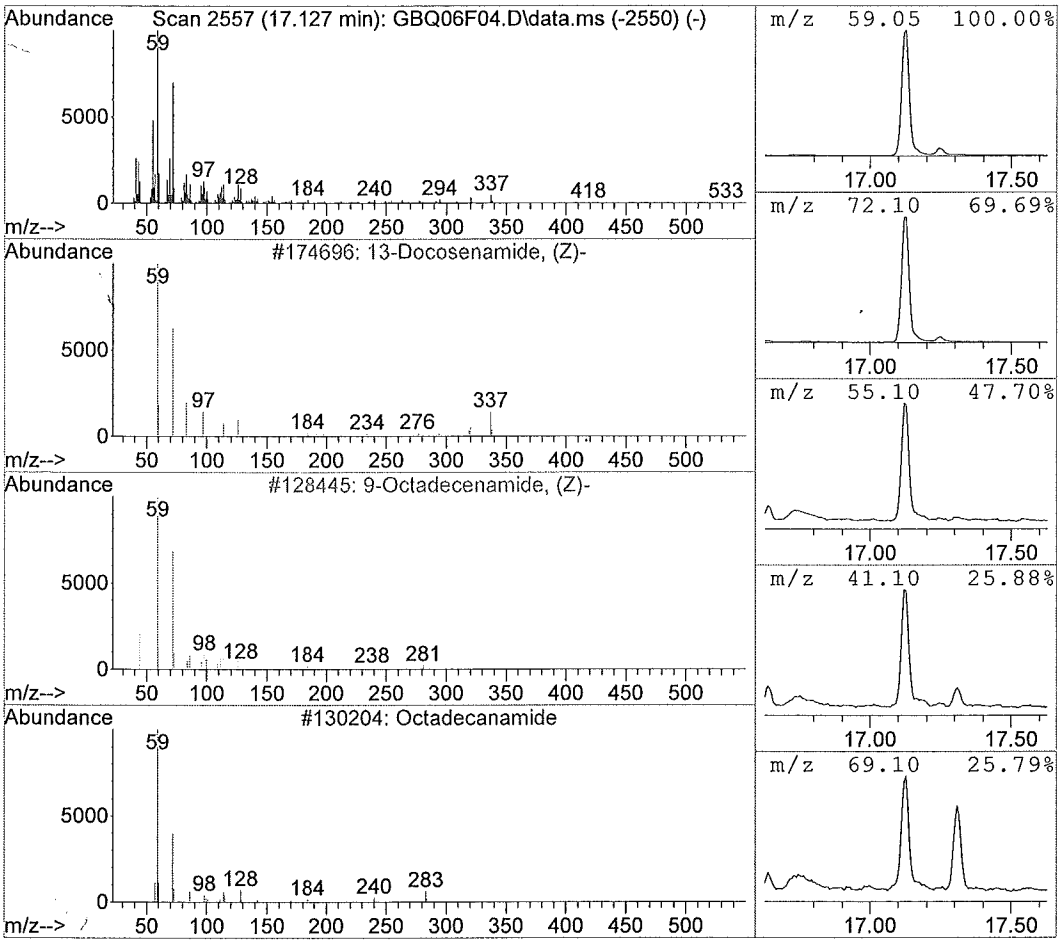
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.13	14.29 ug/ml	2170894	Perylene-d12	3038260

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Octadecanamide	130204	000124-26-5	50.00
4	Dodecanamide	60440	001120-16-7	47.00
5	N-Chloroacetyl-dl-erythro-O-methylt	68766	1000214-48-1	38.00



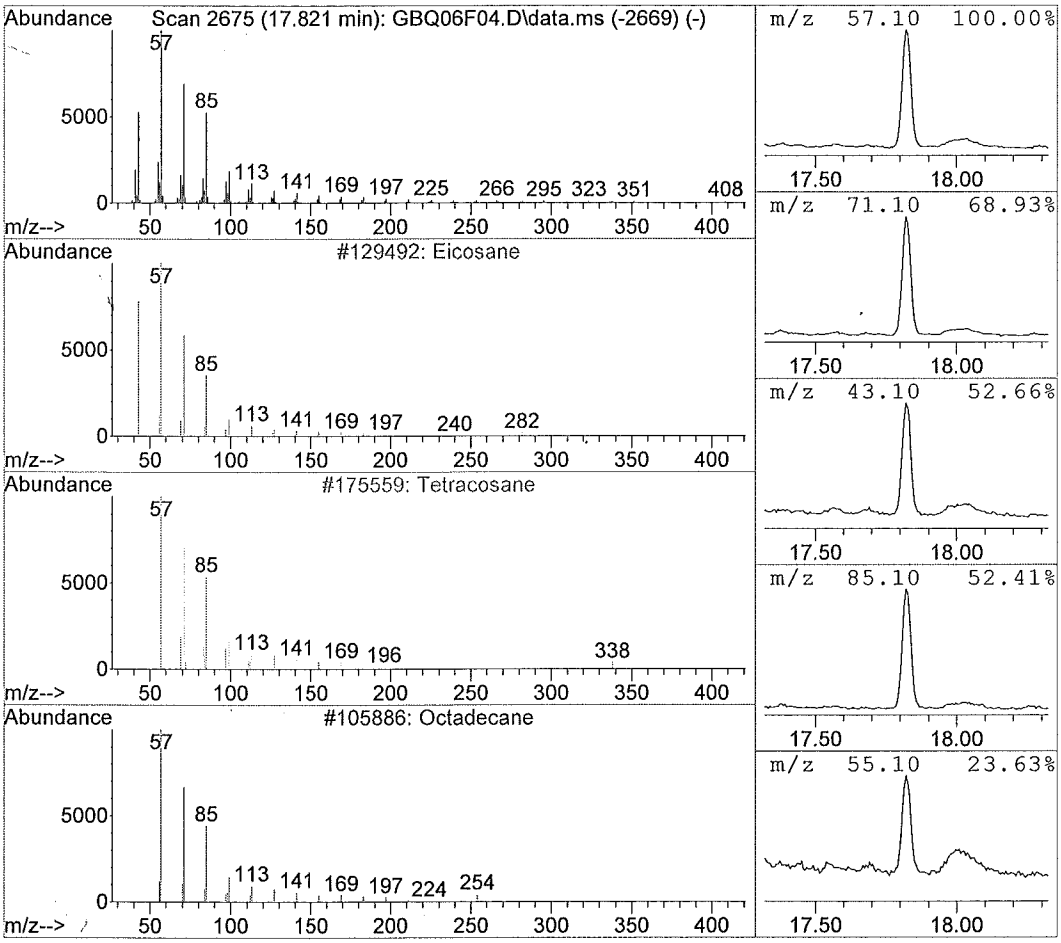
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.82	5.29 ug/ml	802897	Perylene-d12	3038260

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	SA 129492	000112-95-8	97.00
2	Tetracosane	175559	000646-31-1	94.00
3	Octadecane	105886	000593-45-3	93.00
4	Hexacosane	194493	000630-01-3	93.00
5	Heptadecane	94345	000629-78-7	93.00



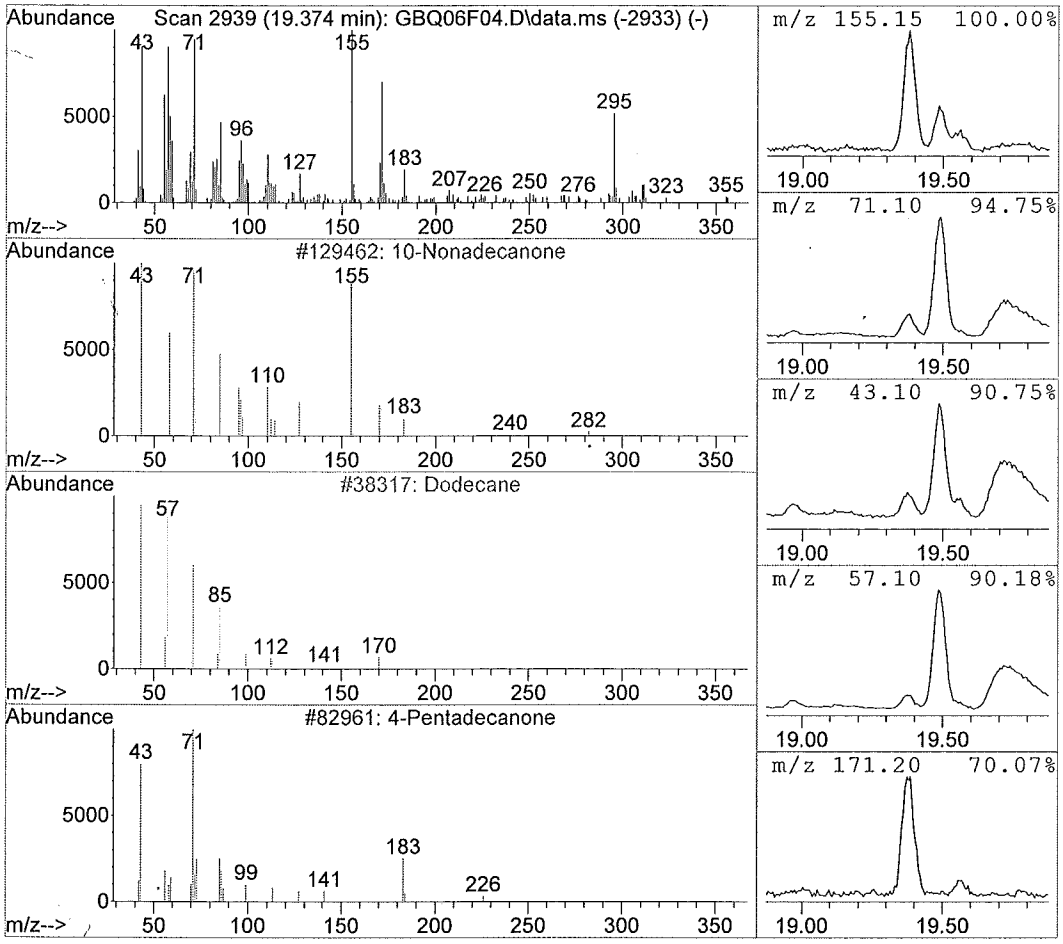
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.37	2.03 ug/ml	308505	Perylene-d12	3038260

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	10-Nonadecanone	129462	000504-57-4	58.00
2	Dodecane	38317	000112-40-3	44.00
3	4-Pentadecanone	82961	000925-51-9	38.00
4	Hexadecane	83027	000544-76-3	30.00
5	Nonadecane	117638	000629-92-5	25.00



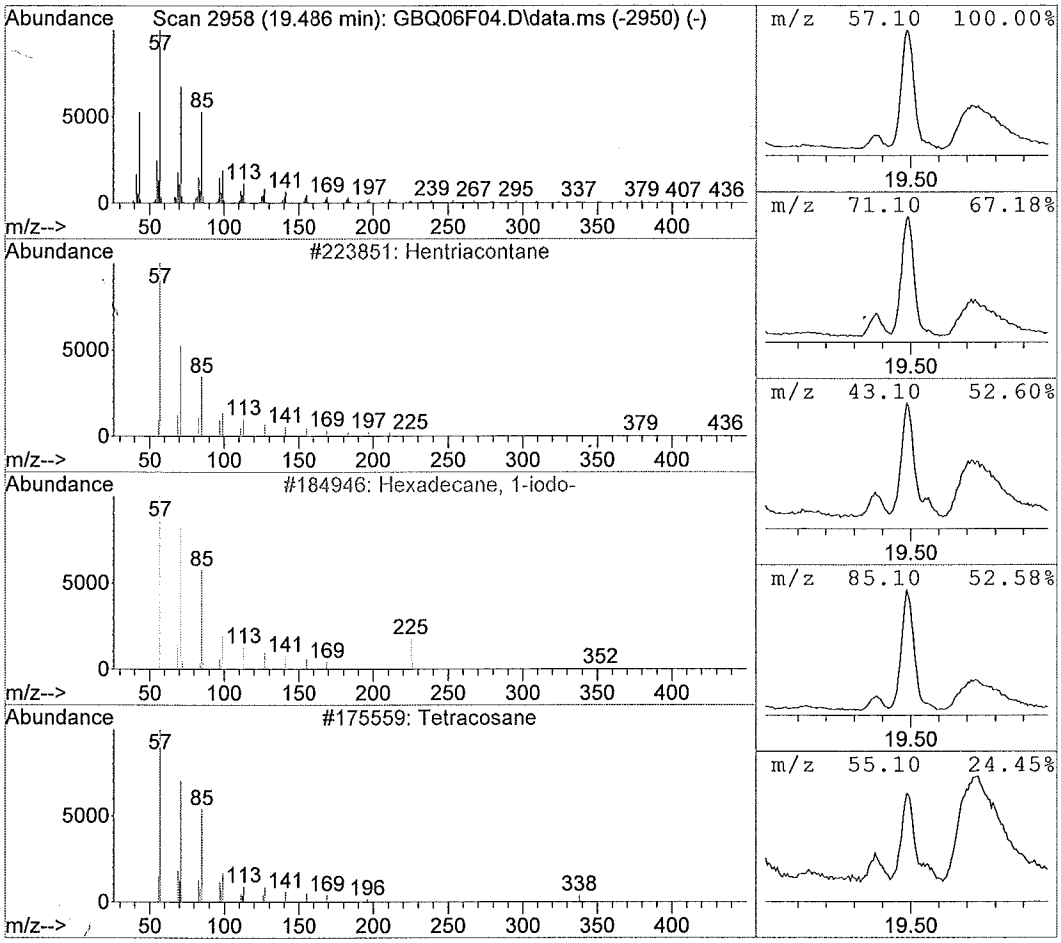
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	6.37 ug/ml	967079	Perylene-d12	3038260

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane 5A	223851	000630-04-6	98.00
2	Hexadecane, 1-iodo-	184946	000544-77-4	95.00
3	Tetracosane	175559	000646-31-1	94.00
4	Docosane	153222	000629-97-0	93.00
5	Hexacosane	194493	000630-01-3	91.00



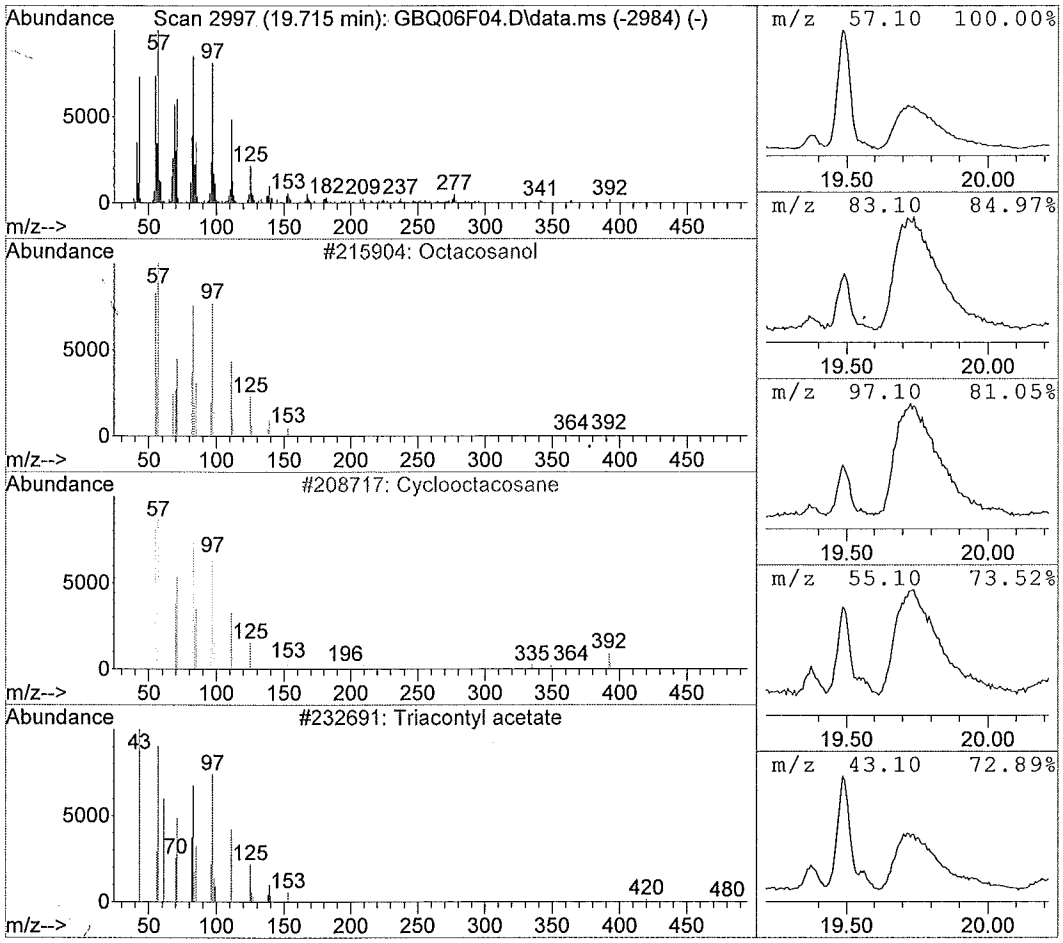
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.72	13.89 ug/ml	2109780	Perylene-d12	3038260

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosanol	215904	000557-61-9	95.00
2	Cyclooctacosane	208717	000297-24-5	94.00
3	Triacontyl acetate	232691	041755-58-2	94.00
4	Heptacosyl acetate	224391	1000351-78-2	94.00
5	n-Tetracosanol-1	186968	000506-51-4	93.00



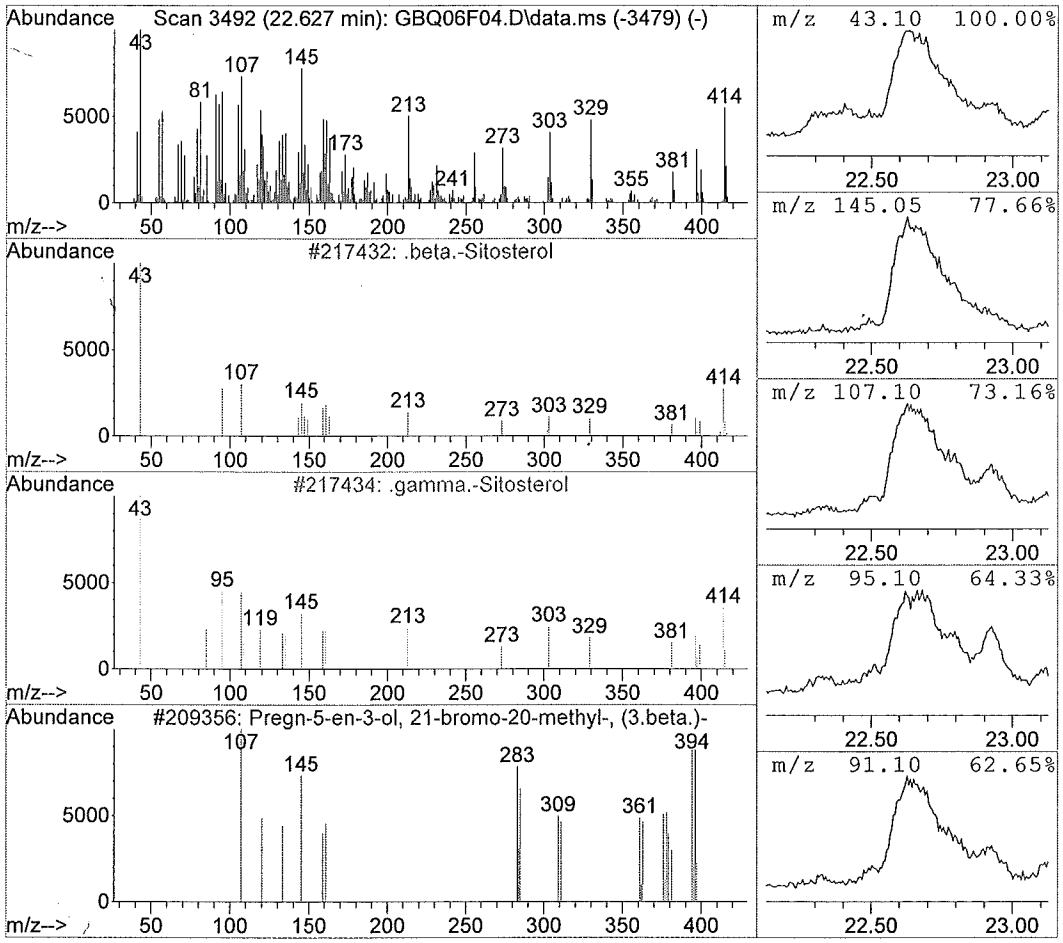
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.63	6.18 ug/ml	938661	Perylene-d12	3038260

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Sitosterol	217432	000083-46-5	93.00
2	.gamma.-Sitosterol	217434	000083-47-6	91.00
3	Pregn-5-en-3-ol, 21-bromo-20-methyl	209356	055103-80-5	46.00
4	Stigmast-7-en-3-ol, (3.beta.,5.alph	217448	018525-35-4	46.00
5	5-Cholesten-3.beta.-ol-7-one, methy	217421	1000332-98-5	41.00



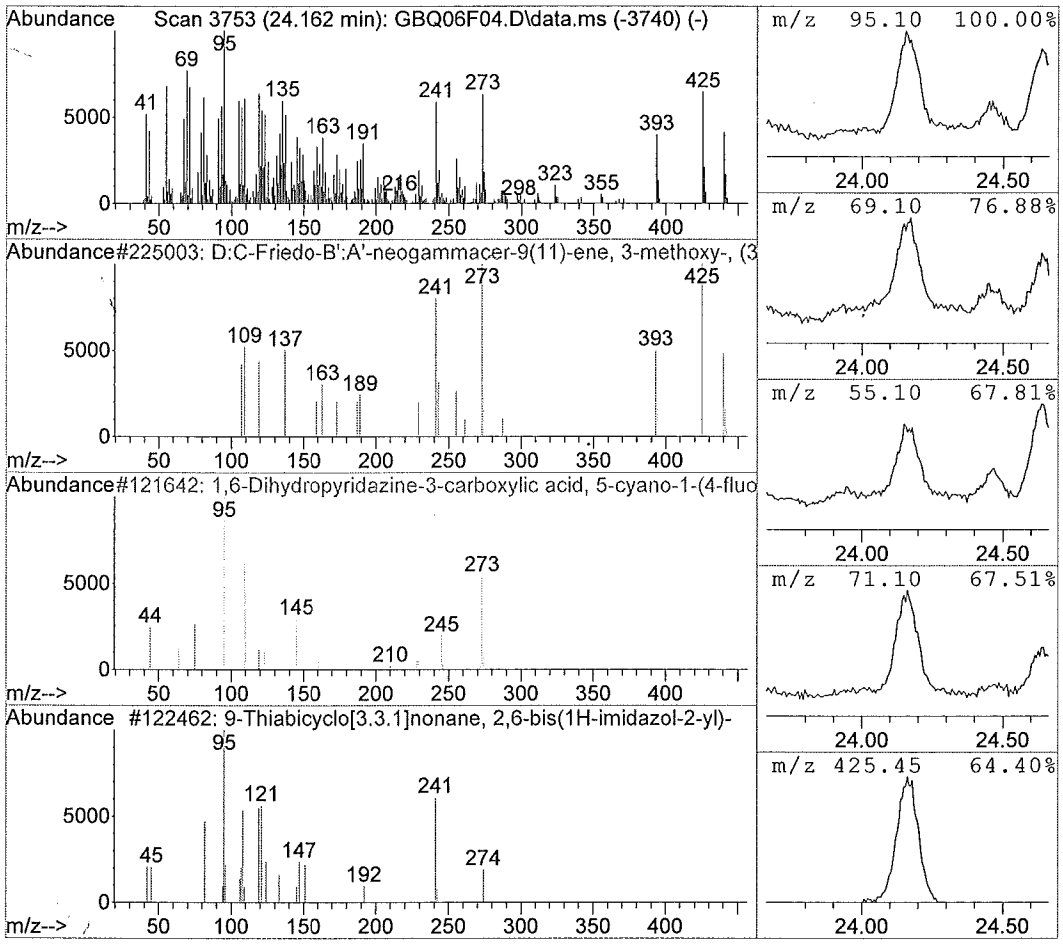
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.16	10.30 ug/ml	1564216	Perylene-d12	3038260

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D:C-Friedo-B':A'-neogammacer-9(11)-	225003	004555-56-0	90.00
2	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	27.00
3	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	18.00
4	Urs-20-en-16-one, 3-hydroxy-, (3.be	224987	042482-69-9	15.00
5	6-Oxo-6H-pyran-3-carboxamide (3-chl	112947	351373-76-7	11.00



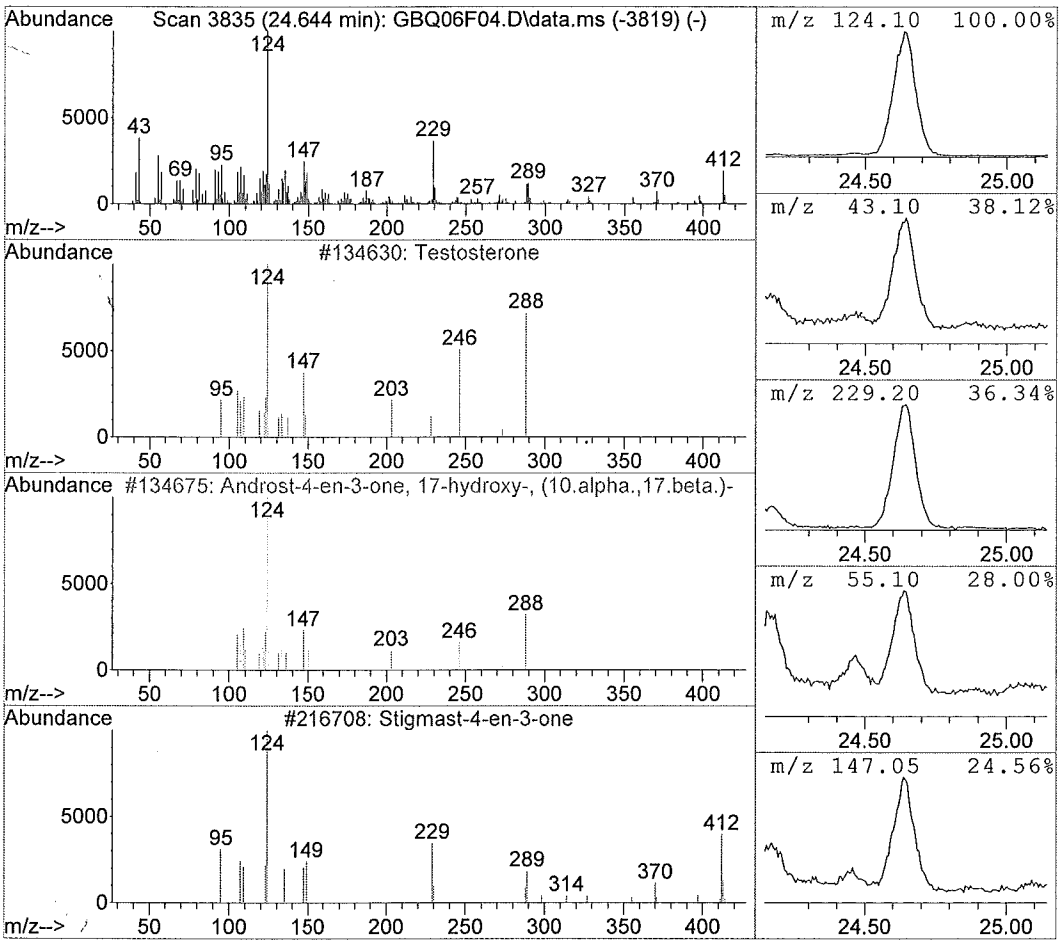
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ06F04.D Vial: 5
Acq On : 06/16/2015 20:45 Operator: SY
Sample : 1515552004 F9M42 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.64	15.18 ug/ml	2305306	Perylene-d12	3038260

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Testosterone	134630	000058-22-0	78.00
2	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	64.00
3	Stigmast-4-en-3-one	216708	001058-61-3	50.00
4	Hexanethioic acid, (2-hexanethioyla	134189	1000193-53-9	41.00
5	Androst-4-en-3-one, 17-hydroxy-, (1	134666	000481-30-1	38.00



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

EPA SAMPLE NO.

F9M43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBQ07F05

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

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

EPA SAMPLE NO.

F9M43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBQ07F05

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	130	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.: F9M43

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552005
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBQ07F05
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015
GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.41	240	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	81.	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	4300	JB
04		Unknown 3-Hexene-2,5-dione	4.36	440	JB
05		Unknown 4-Heptanone	5.06	160	J
06		Unknown Hydroxylamine, O-(3-methylbutyl)-	5.18	160	J
07	629-54-9	Hexadecanamide	14.26	160	JNB
08	301-02-0	9-Octadecenamide, (Z)-	15.17	1500	JNB
09		Unknown 2,11-Dimethyl-2,11-dodecanediol	16.32	140	J
10	112-84-5	13-Docosenamide, (Z)-	17.12	560	JN
11		Unknown trans-4'-Dimethylamino-3-nitrochalcone	18.82	180	J
12		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	21.53	260	J
13		Unknown 2,6-Bis(4-nitro-phenylthio)pyridine	23.69	230	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	630	J

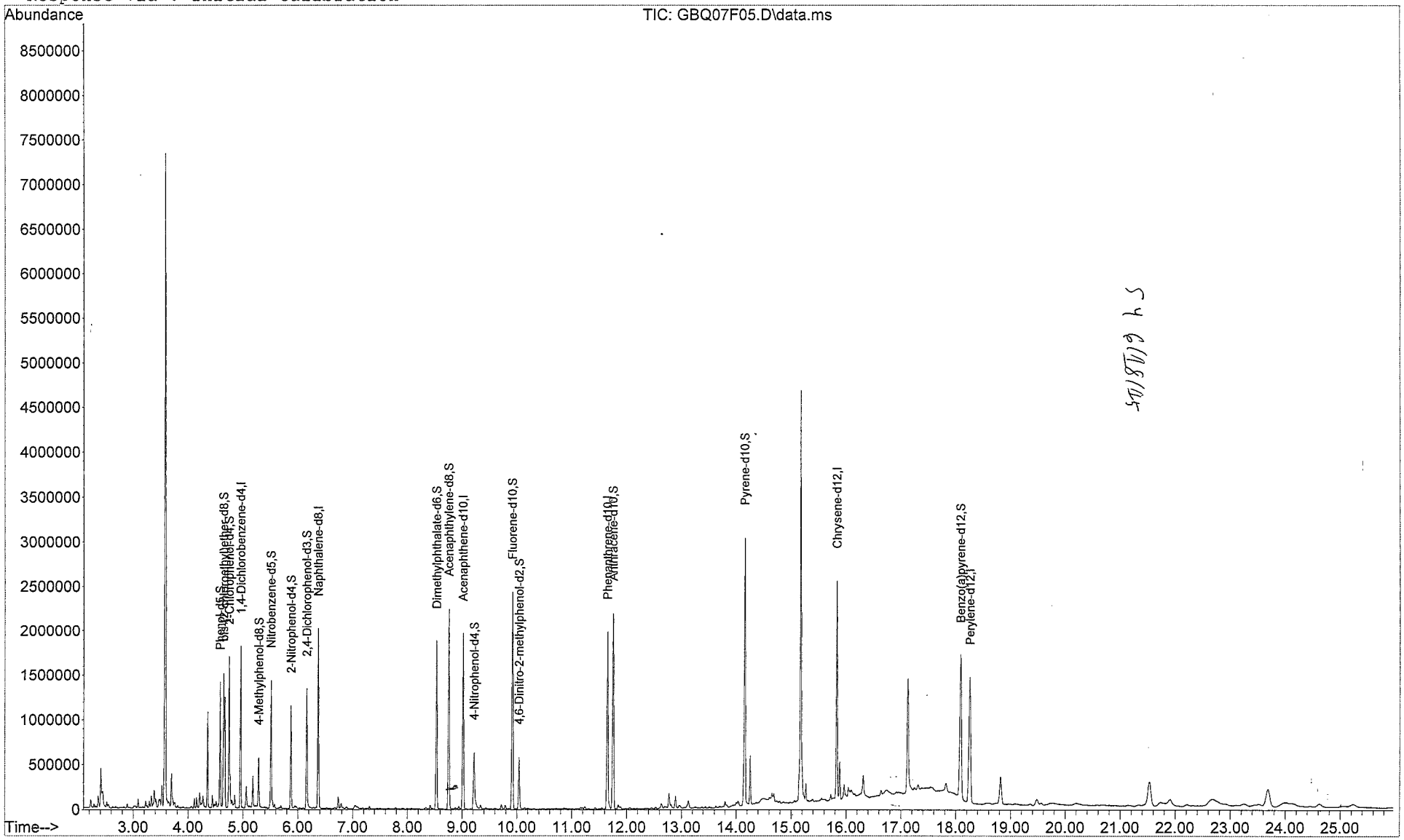
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 11:32:12 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



GBQ07F05.D GSOM01D4.M Thu Jun 18 11:37:35 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:32:12 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	315198	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1208444	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	692134	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1151247	20.00 ug/ml
73) Chrysene-d12	15.83	240	1125882	20.00 ug/ml
81) Perylene-d12	18.26	264	1089064	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	540262	24.580ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	308303	22.908ug/mL
7) 2-Chlorophenol-d4	4.75	132	518552	24.029ug/ml
13) 4-Methylphenol-d8	5.29	113	160545	9.382ug/mL
17) Nitrobenzene-d5	5.51	128	271518	26.780ug/ml
21) 2-Nitrophenol-d4	5.87	143	303506	26.861ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	375661	22.695ug/mL
28) 4-Chloroaniline-d4	6.46	131	3307	0.184ug/mL
42) Dimethylphthalate-d6	8.53	166	1200709	28.525ug/mL
45) Acenaphthylene-d8	8.76	160	1459850	25.987ug/mL
50) 4-Nitrophenol-d4	9.22	143	249638	27.850ug/mL
57) Fluorene-d10	9.92	176	1003784	27.455ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	153470	20.295ug/mL
69) Anthracene-d10	11.75	188	1460649	25.082ug/mL
75) Pyrene-d10	14.16	212	1390347	27.163ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1147824	23.235ug/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)

00291

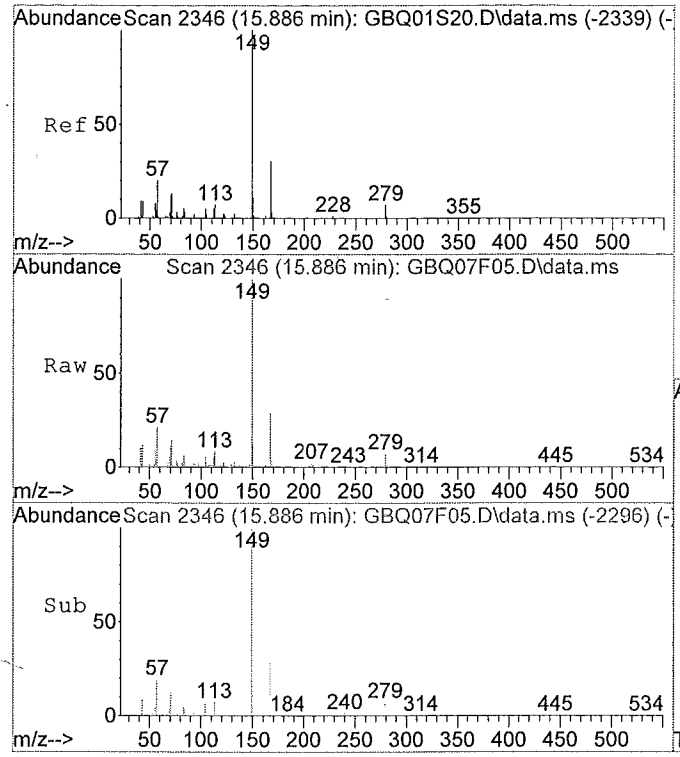
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:32:12 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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	179051	3.295ug/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	

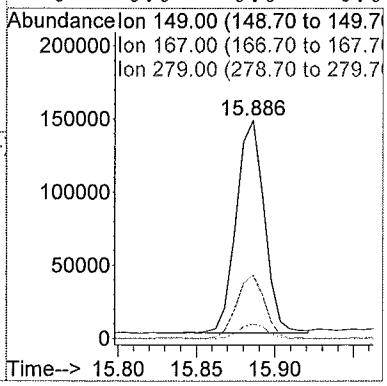
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 3.30 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBQ07F05.D
Acq: 06/16/2015 21:17

Tgt Ion:149 Resp: 179051

Ion	Ratio	Lower	Upper
149	100		
167	29.2	22.0	40.8
279	7.0	5.0	9.2
0	0.0	0.0	0.0



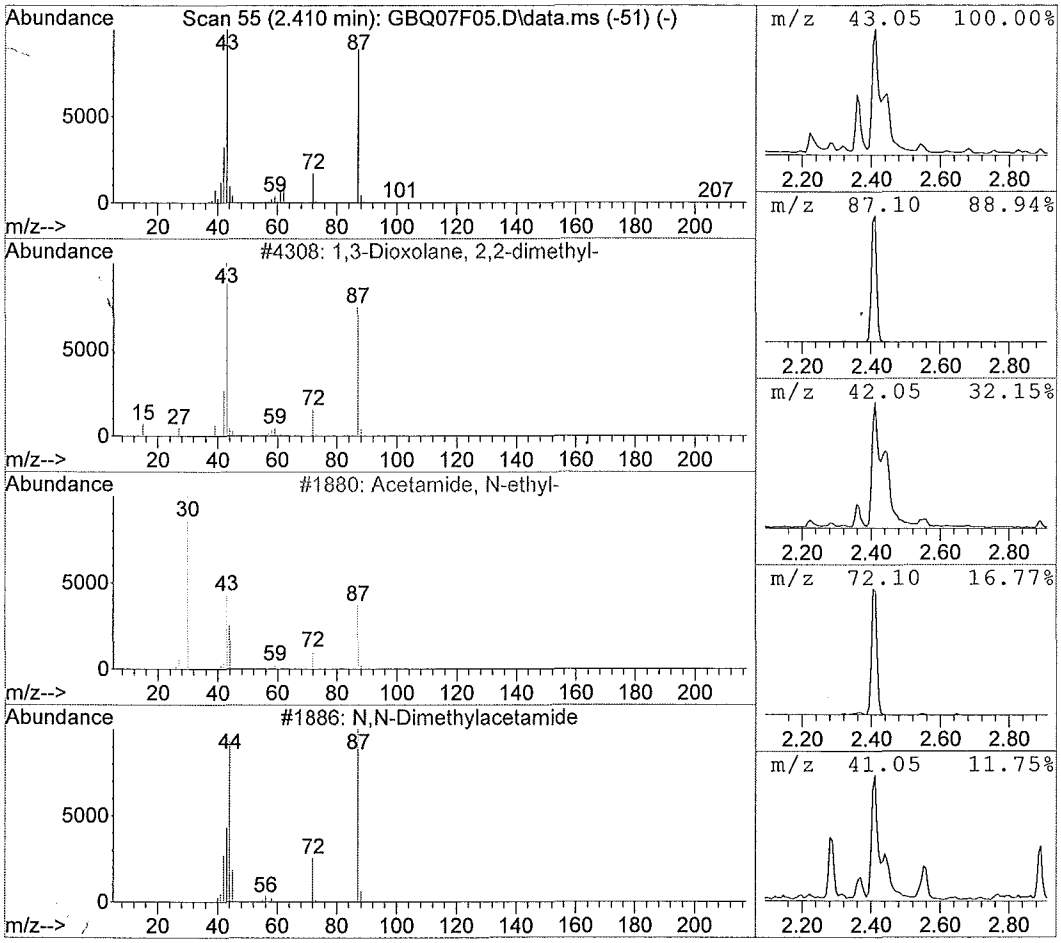
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.41	6.17 ug/ml	535885	1,4-Dichlorobenzene-d4	1737463

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	59.00
2	Acetamide, N-ethyl-	1880	000625-50-3	50.00
3	N,N-Dimethylacetamide	1886	000127-19-5	37.00
4	Oxazolidin-2-one	1845	000497-25-6	37.00
5	Ethanol, 2,2'-oxybis-, diacetate	53397	000628-68-2	28.00



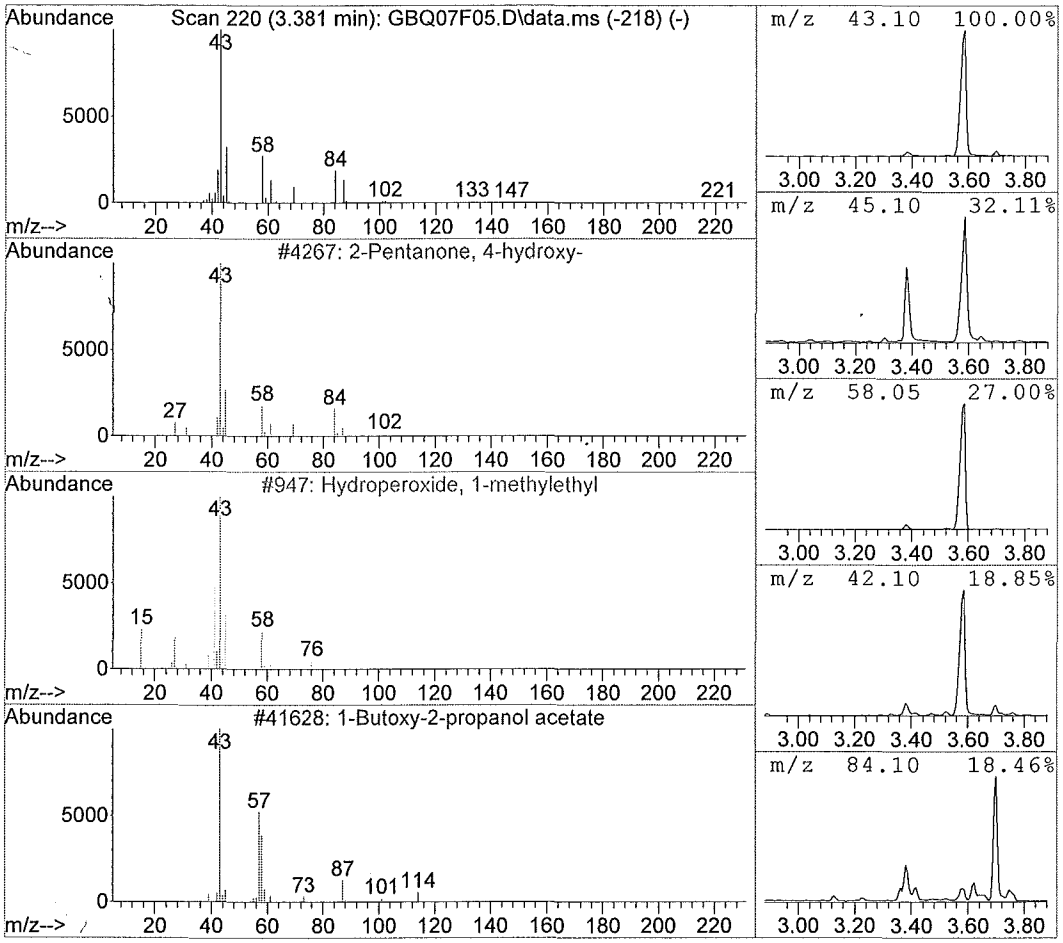
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	2.09 ug/ml	181269	1,4-Dichlorobenzene-d4	1737463

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	42.00
2	Hydroperoxide, 1-methylethyl	947	003031-75-2	33.00
3	1-Butoxy-2-propanol acetate	41628	085409-76-3	25.00
4	Hexanoic acid, 5-oxo-, ethyl ester	30020	013984-57-1	23.00
5	2-Hexanol, acetate	20845	005953-49-1	23.00



Library Search Compound Report

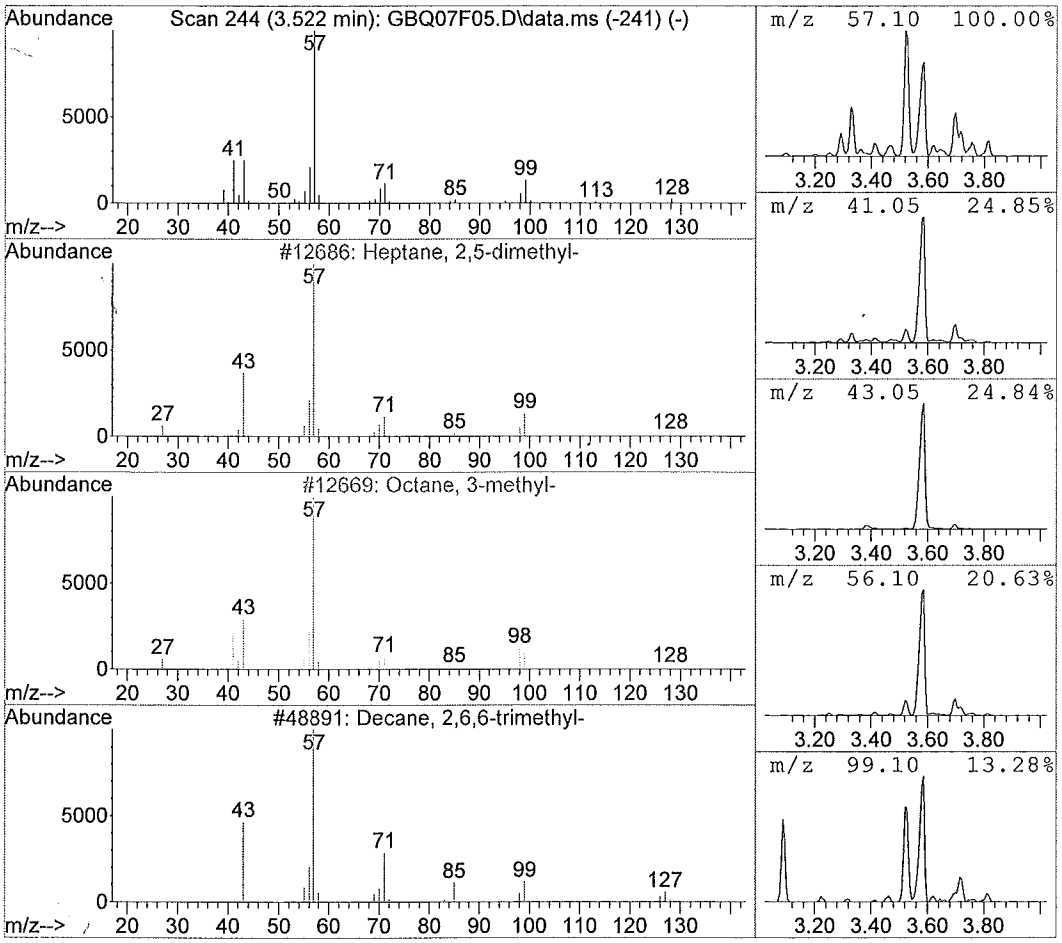
Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.92 ug/ml	253681	1,4-Dichlorobenzene-d4	1737463

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,5-dimethyl-	12686	002216-30-0	91.00
2	Octane, 3-methyl-	12669	002216-33-3	90.00
3	Decane, 2,6,6-trimethyl-	48891	062108-24-1	59.00
4	Heptane, 3,5-dimethyl-	12702	000926-82-9	59.00
5	Heptane, 2,3,5-trimethyl-	19206	020278-85-7	53.00

BA



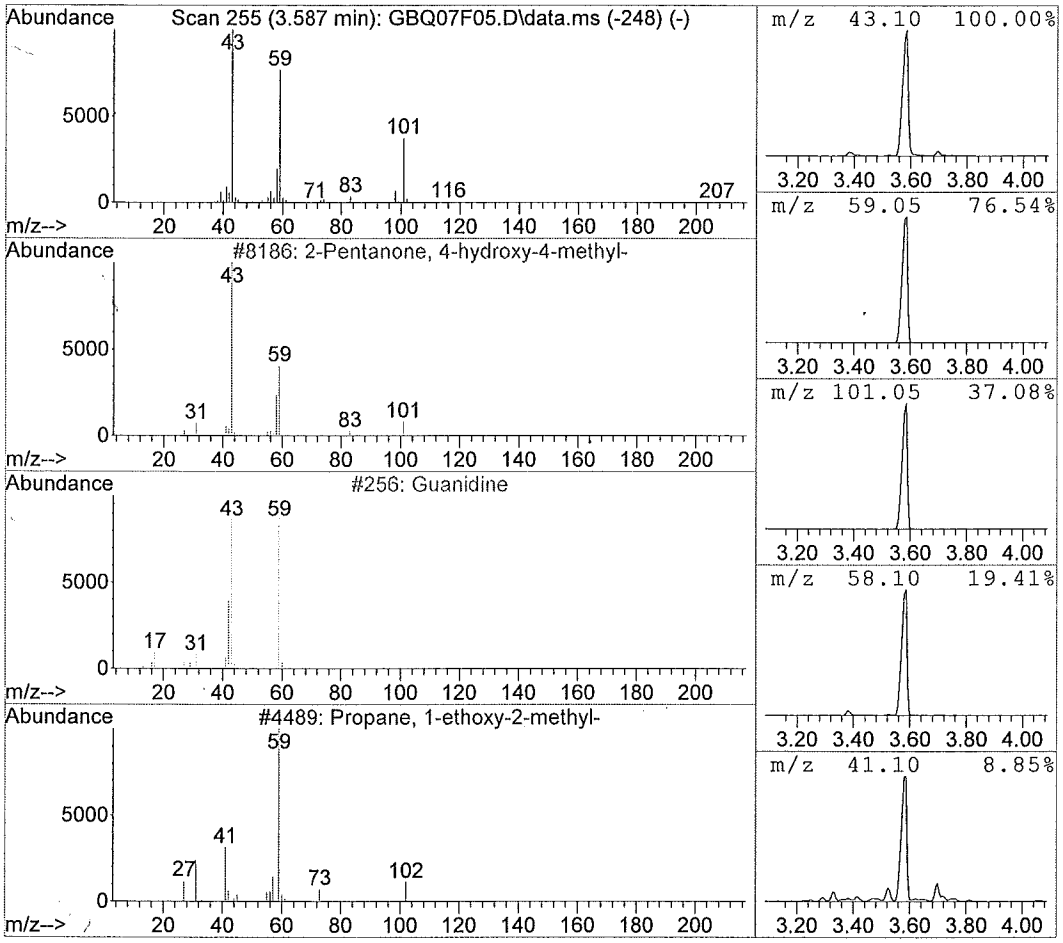
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	110.57 ug/ml	9605827	1,4-Dichlorobenzene-d4	1737463

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Guanidine	256	000113-00-8	50.00
3	Propane, 1-ethoxy-2-methyl-	4489	000627-02-1	37.00
4	4-Hydroxy-3-hexanone	8102	004984-85-4	33.00
5	3-Pentanol, 2-methyl-	4460	000565-67-3	33.00



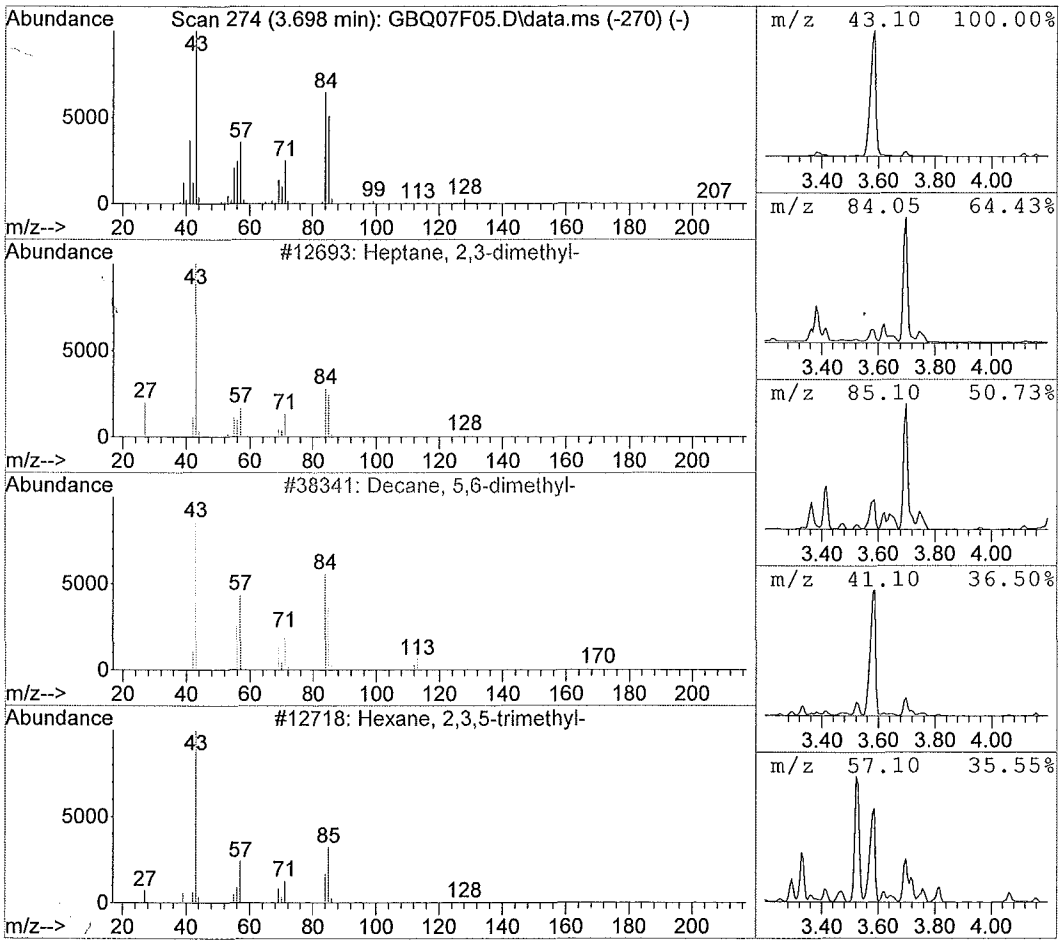
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	4.59 ug/ml	398973	1,4-Dichlorobenzene-d4	1737463

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12693	003074-71-3	74.00
2	Decane, 5,6-dimethyl- BA	38341	001636-43-7	64.00
3	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	59.00
4	Hexanal, 3,3-dimethyl-	12523	055320-57-5	53.00
5	Hexane, 1-(hexyloxy)-2-methyl-	61361	074421-17-3	50.00



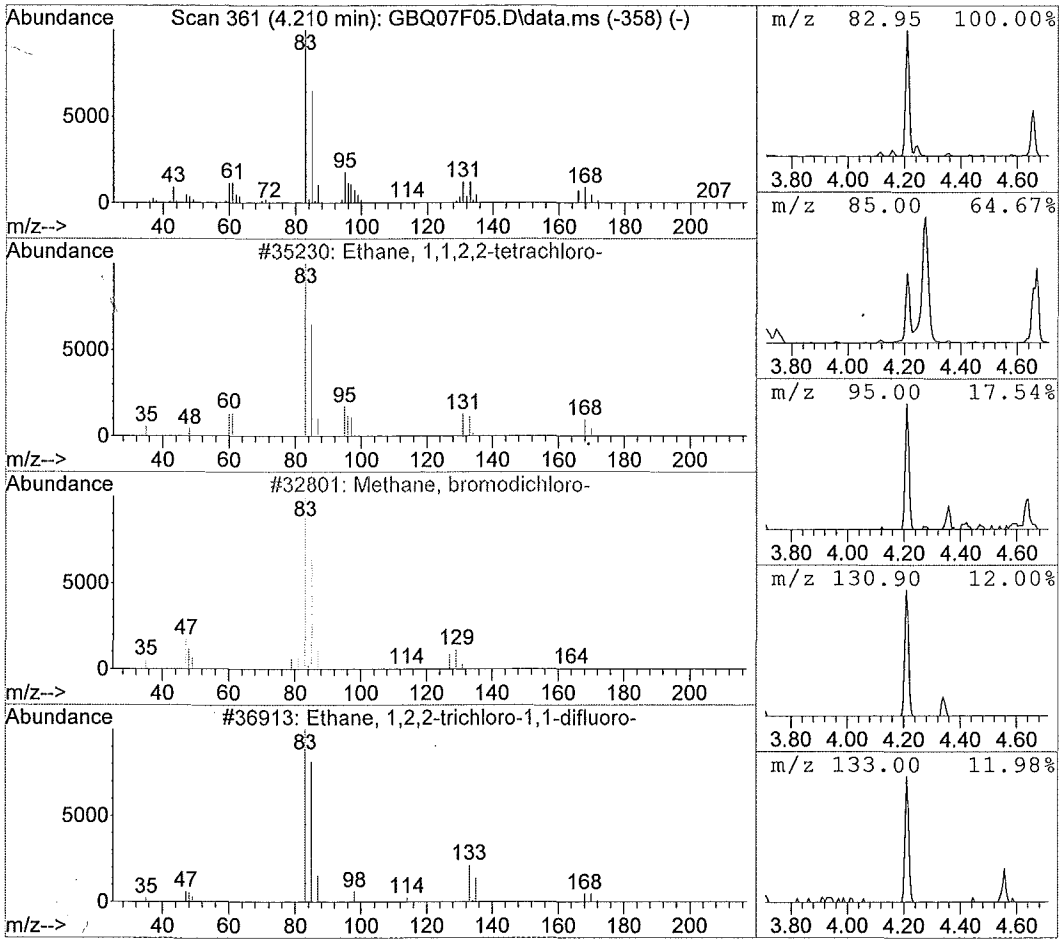
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.19 ug/ml	189953	1,4-Dichlorobenzene-d4	1737463

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	97.00
2	Methane, bromodichloro-	32801	000075-27-4	50.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	45.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	45.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	42.00



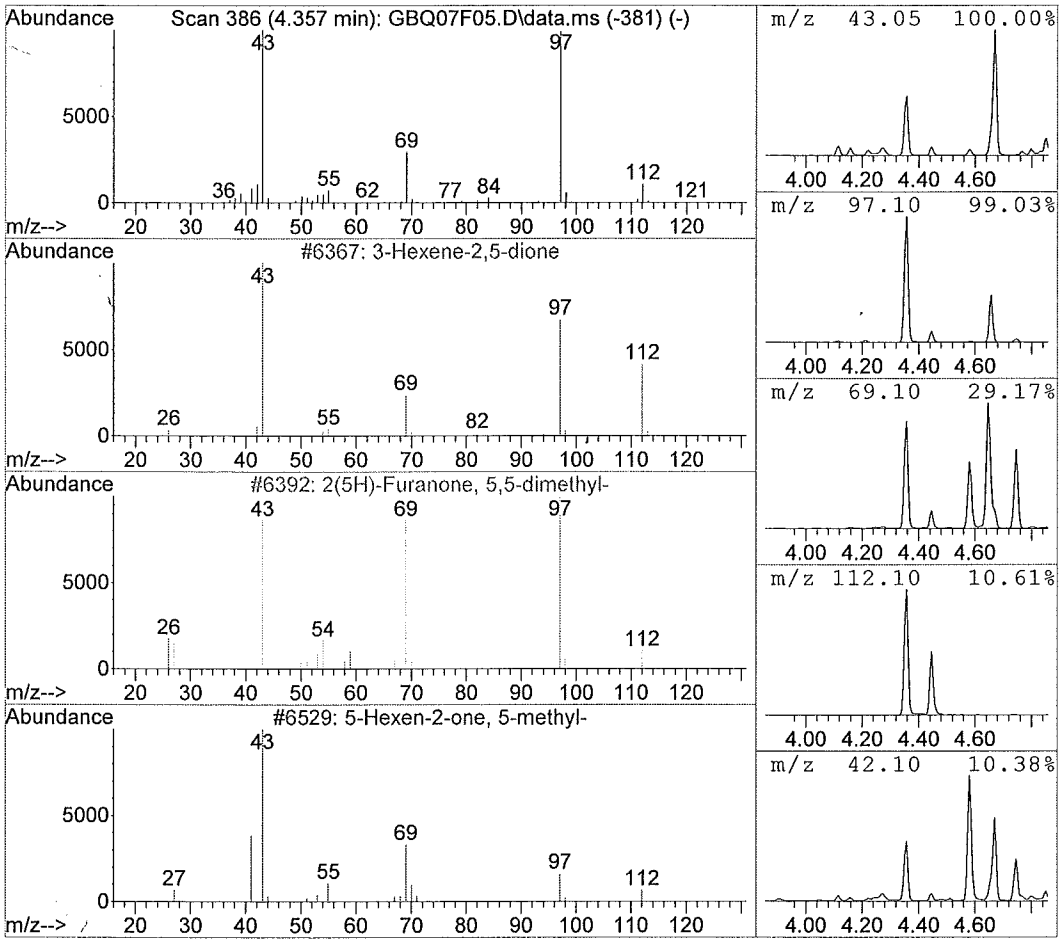
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.36	11.31 ug/ml	982816	1,4-Dichlorobenzene-d4	1737463

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00
4	Cyclohexane, 1,3-dimethyl-, cis-	6809	000638-04-0	9.00
5	Acetyl cyanide	478	000631-57-2	9.00



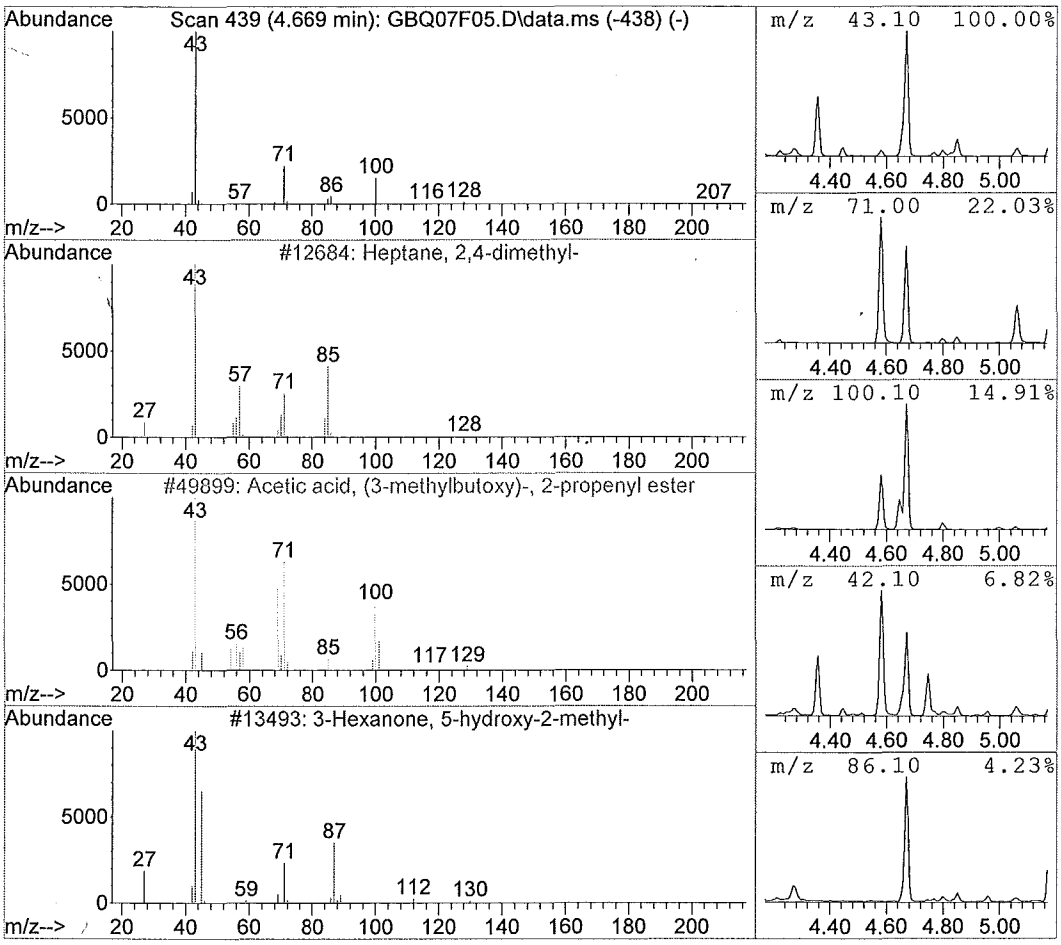
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.67	8.85 ug/ml	769234	1,4-Dichlorobenzene-d4	1737463

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl- BA	12684	002213-23-2	45.00
2	Acetic acid, (3-methylbutoxy)-, 2-p	49899	067634-00-8	9.00
3	3-Hexanone, 5-hydroxy-2-methyl-	13493	059357-07-2	9.00
4	Octane, 2-methyl-	12672	003221-61-2	7.00
5	Octane, 4-methyl-	12674	002216-34-4	7.00



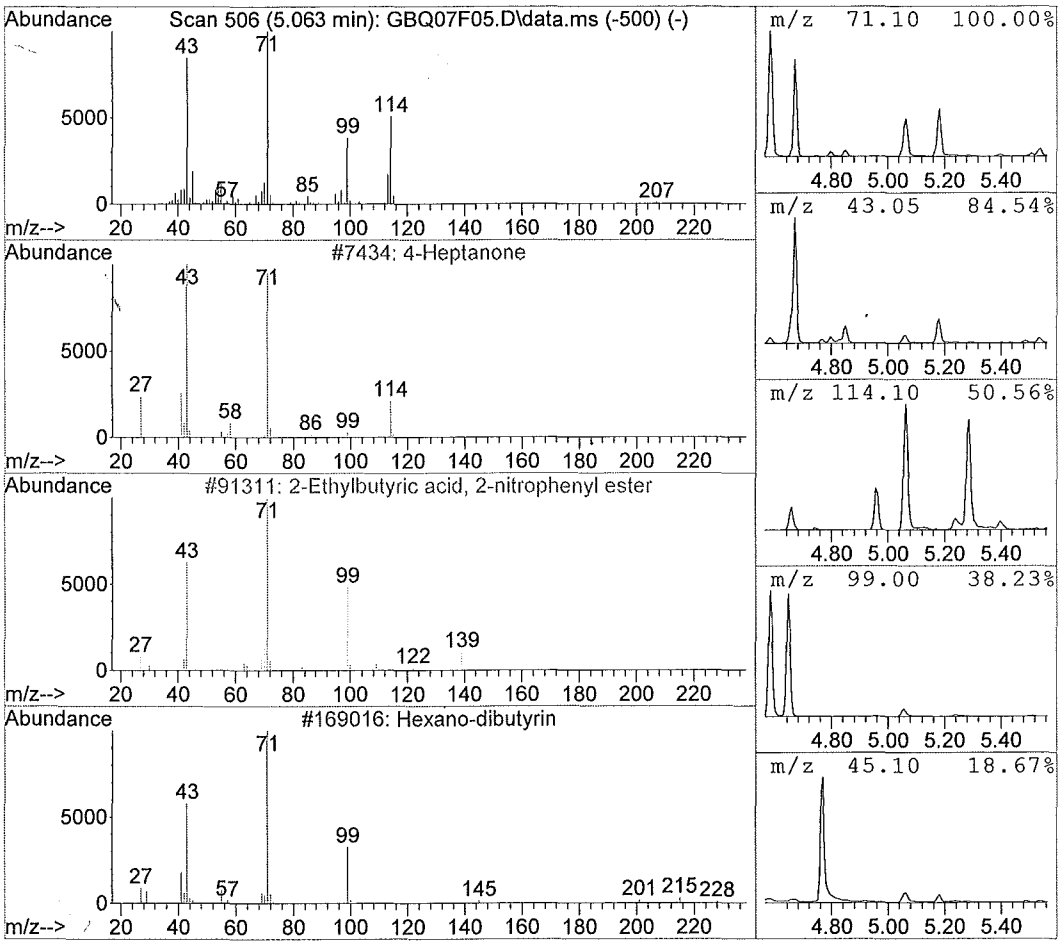
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.06	4.03 ug/ml	350341	1,4-Dichlorobenzene-d4	1737463

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Heptanone	7434	000123-19-3	50.00
2	2-Ethylbutyric acid, 2-nitrophenyl	91311	1000369-86-5	50.00
3	Hexano-dibutyrin	169016	065235-12-3	47.00
4	2-Pentene, 5-(pentyloxy)-, (E)-	28311	056052-85-8	47.00
5	Butyric acid, 2,2-dimethyl-, vinyl	19806	013170-00-8	43.00



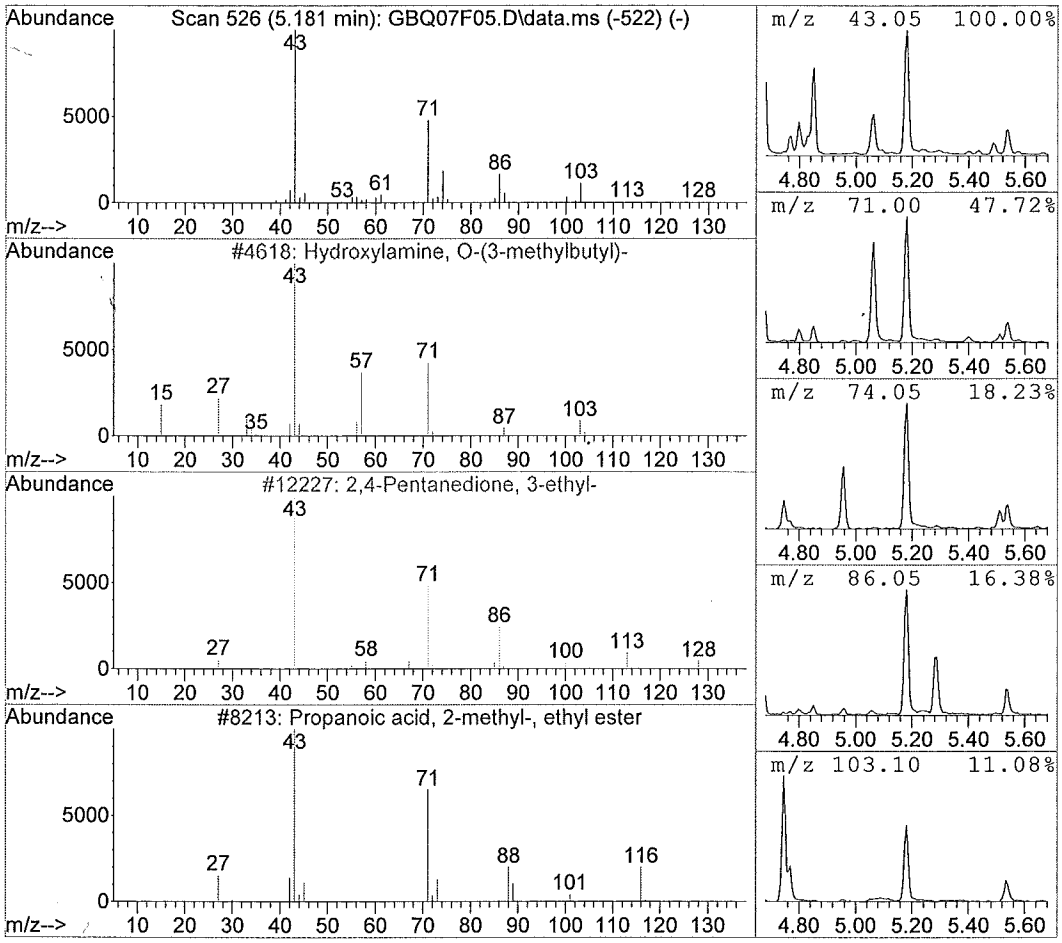
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.18	4.06 ug/ml	352649	1,4-Dichlorobenzene-d4	1737463

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	42.00
2	2,4-Pentanedione, 3-ethyl-	12227	001540-34-7	36.00
3	Propanoic acid, 2-methyl-, ethyl es	8213	000097-62-1	17.00
4	Ethanol, 2-(1-methylethoxy)-, aceta	21968	019234-20-9	16.00
5	3-Methoxymethoxybutyric acid	22988	1000191-76-0	12.00



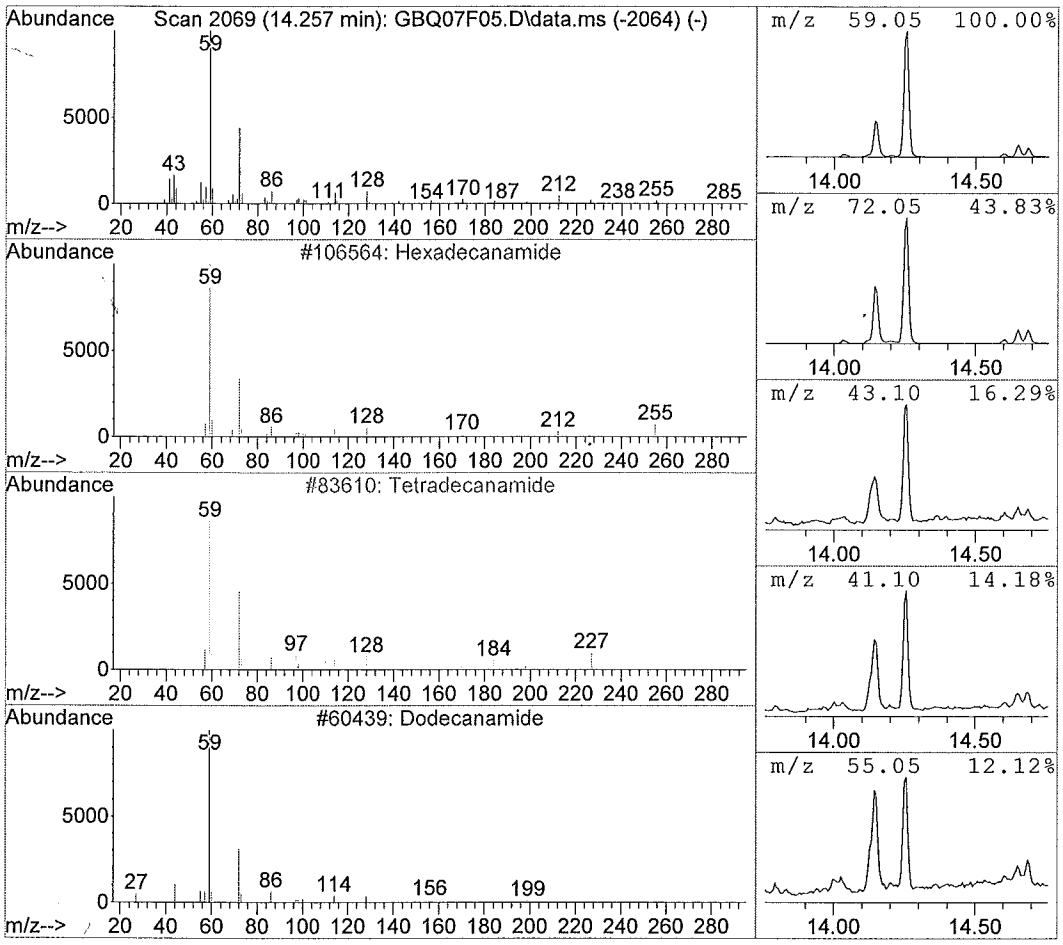
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	4.07 ug/ml	640521	Chrysene-d12	3145194

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	96.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	7-Nonenamide	28131	090949-53-4	50.00



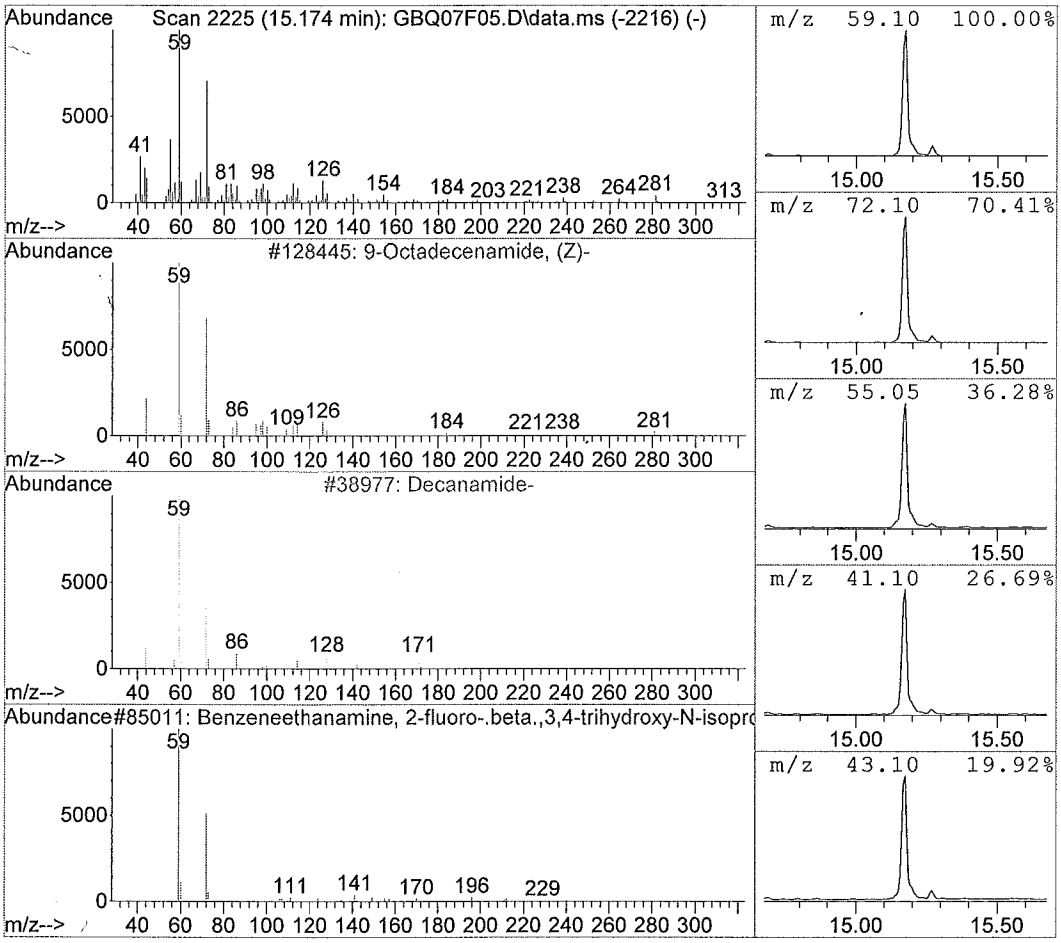
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	39.53 ug/ml	6216266	Chrysene-d12	3145194

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Decanamide-	38977	002319-29-1	59.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	53.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
5	Octanamide	20317	000629-01-6	50.00



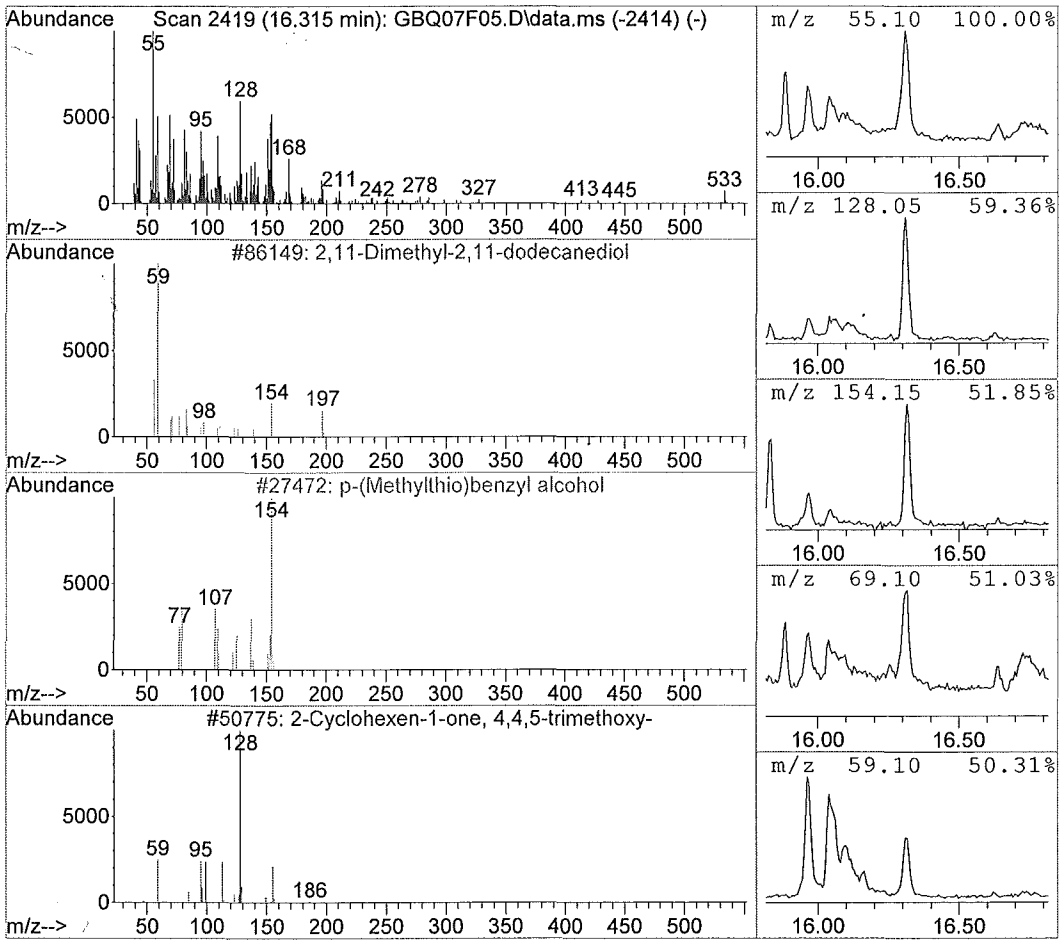
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.32	3.49 ug/ml	549457	Chrysene-d12	3145194

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,11-Dimethyl-2,11-dodecanediol	86149	022092-59-7	25.00
2	p-(Methylthio)benzyl alcohol	27472	003446-90-0	10.00
3	2-Cyclohexen-1-one, 4,4,5-trimethox	50775	056180-51-9	10.00
4	Acenaphthene	27111	000083-32-9	10.00
5	2-Acetyl-4,4-dimethyl-cyclopent-2-e	26055	081979-96-6	10.00



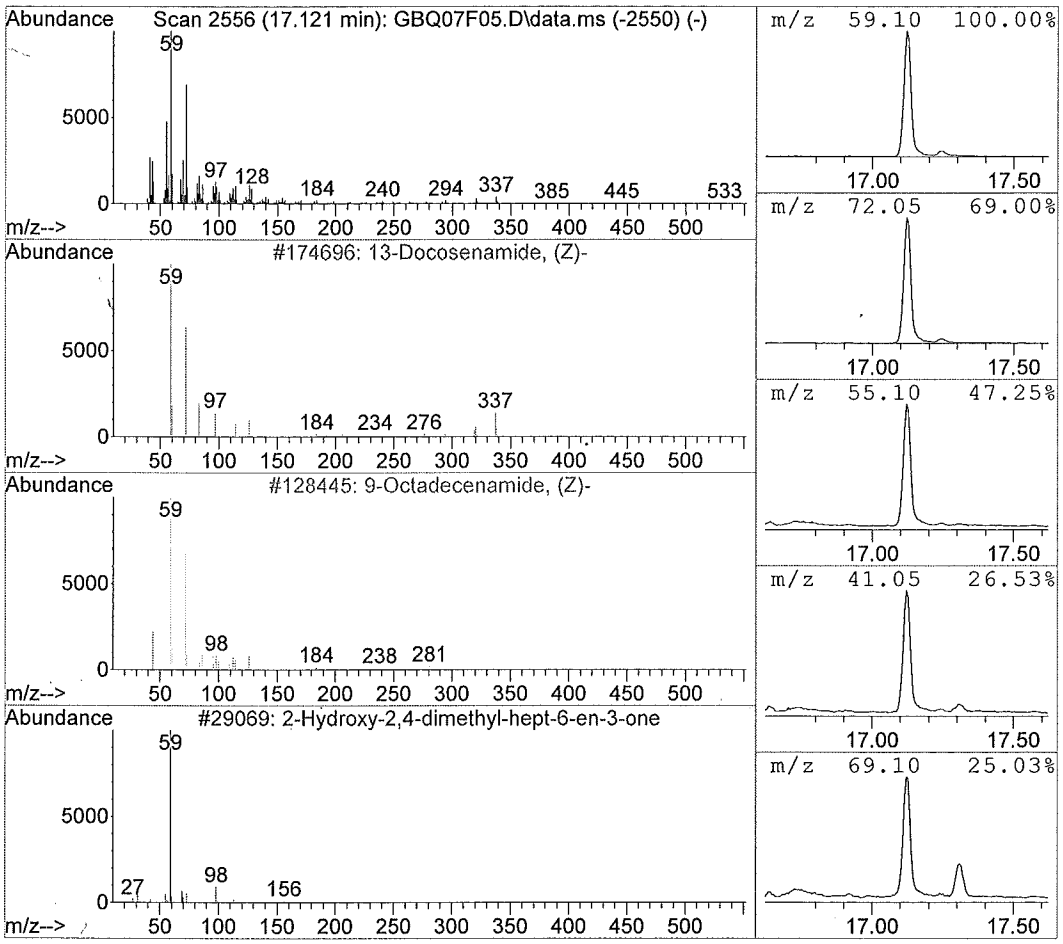
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	14.46 ug/ml	2387196	Perylene-d12	3301969

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	95.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	2-Hydroxy-2,4-dimethyl-hept-6-en-3-	29069	1000192-56-0	38.00
4	4-Ethyl-3-octanol	29613	019781-26-1	35.00
5	Tetradecanamide	83608	000638-58-4	35.00



00217

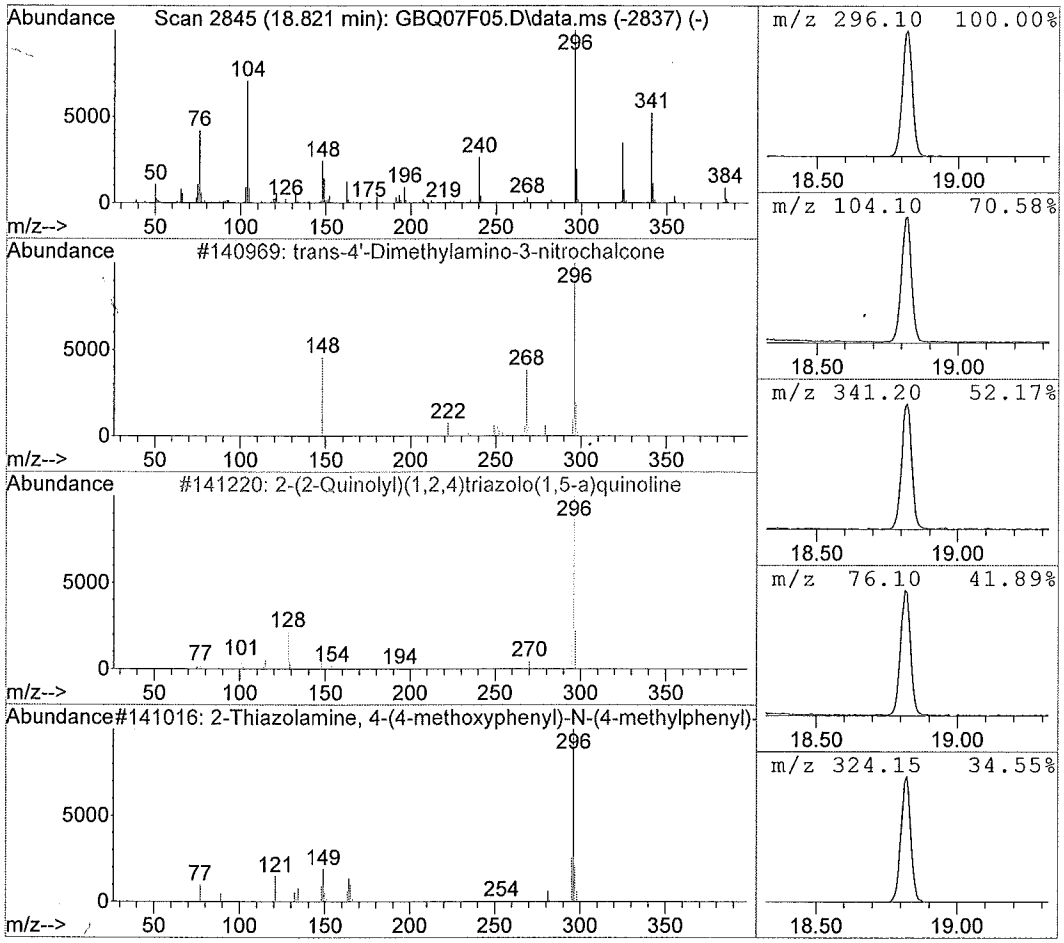
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.82	4.60 ug/ml	759482	Perylene-d12	3301969

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	16.00
2	2-(2-Quinolyl)(1,2,4)triazolo(1,5-a	141220	1000241-15-8	12.00
3	2-Thiazolamine, 4-(4-methoxyphenyl)	141016	1000319-57-2	12.00
4	1,1'-Biphenyl, 4,4'-diisocyanato-3,	140853	000091-93-0	10.00
5	Isoindole-1,3(1H,3H)-dione, 5-benzo	177758	331269-95-5	10.00



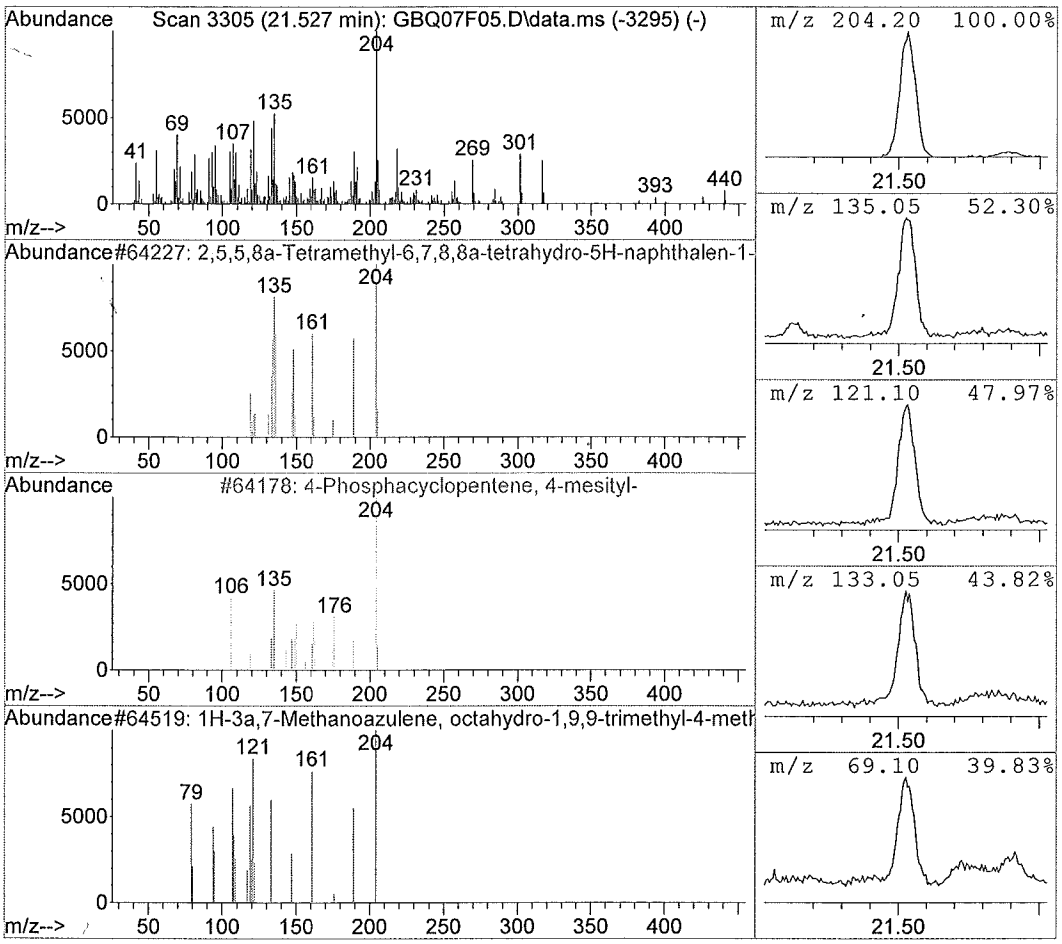
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.53	6.66 ug/ml	1099323	Perylene-d12	3301969

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
2	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
3	1H-3a,7-Methanoazulene, octahydro-1	64519	000508-55-4	41.00
4	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	41.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	41.00



00219

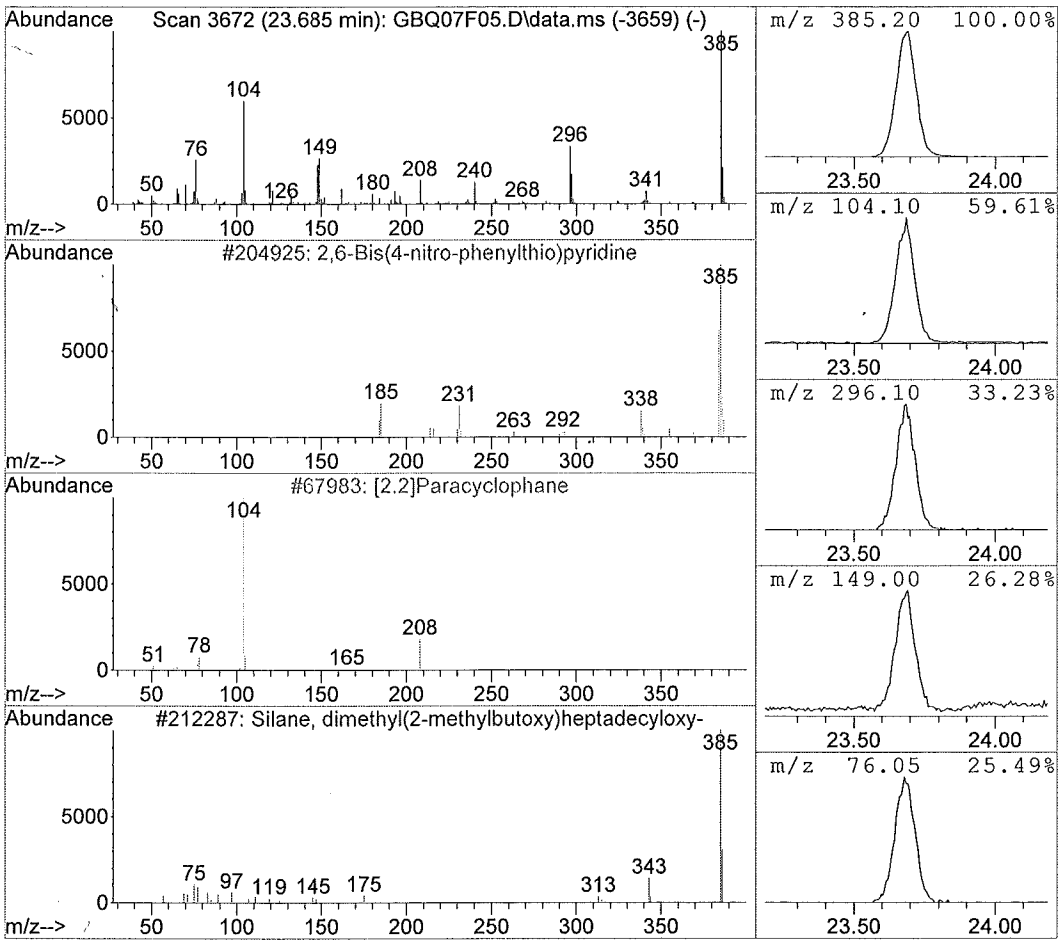
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ07F05.D Vial: 6
Acq On : 06/16/2015 21:17 Operator: SY
Sample : 1515552005 F9M43 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.69	5.85 ug/ml	965277	Perylene-d12	3301969

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Bis(4-nitro-phenylthio)pyridine	204925	078649-02-2	32.00
2	[2.2]Paracyclophane	67983	001633-22-3	15.00
3	Silane, dimethyl(2-methylbutoxy)hep	212287	1000347-02-9	12.00
4	Silane, diethyl(2-hexyloxy)pentadec	217329	1000363-51-0	12.00
5	(+)-Diethyl L-tartrate	66417	000087-91-2	10.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBQ08F06

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	210	U

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

EPA SAMPLE NO.

F9M44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBQ08F06

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	25.	J
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	310	
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	20.	J
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.: F9M44

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552006
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBQ08F06
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015
GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Propanone, 1-chloro-	2.36	88.	J
02		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.41	170	J
03		Unknown 2-Pentanone, 4-hydroxy-	3.39	100	JB
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	5000	JB
05	29393-32-6	2(3H)-Furanone, 5-acetyldihydro-	4.27	100	JN
06		Unknown 2(5H)-Furanone, 5,5-dimethyl-	4.36	550	J
07	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	4.77	94.	JN
08		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	5.06	110	J
09		Unknown Hydroxylamine, O-(3-methylbutyl)-	5.18	250	J
10	1000333-19-5	cis-9-Hexadecenoic acid	12.70	110	JN
11	57-10-3	n-Hexadecanoic acid	12.78	370	JN
12	638-58-4	Tetradecanamide	12.90	84.	JN
13	112-80-1	Oleic Acid	14.01	100	JN
14		Unknown Fluoranthene, 2-methyl-	14.03	92.	J
15	629-54-9	Hexadecanamide	14.26	220	JNB
16	301-02-0	9-Octadecenamide, (Z)-	15.17	1900	JNB
17		Unknown Tetradecanamide	15.97	110	J
18		Unknown 1-Decanol, 2-hexyl-	16.31	230	J
19	112-84-5	13-Docosenamide, (Z)-	17.12	150	JN
20	506-51-4	n-Tetracosanol-1	19.70	120	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1500	J

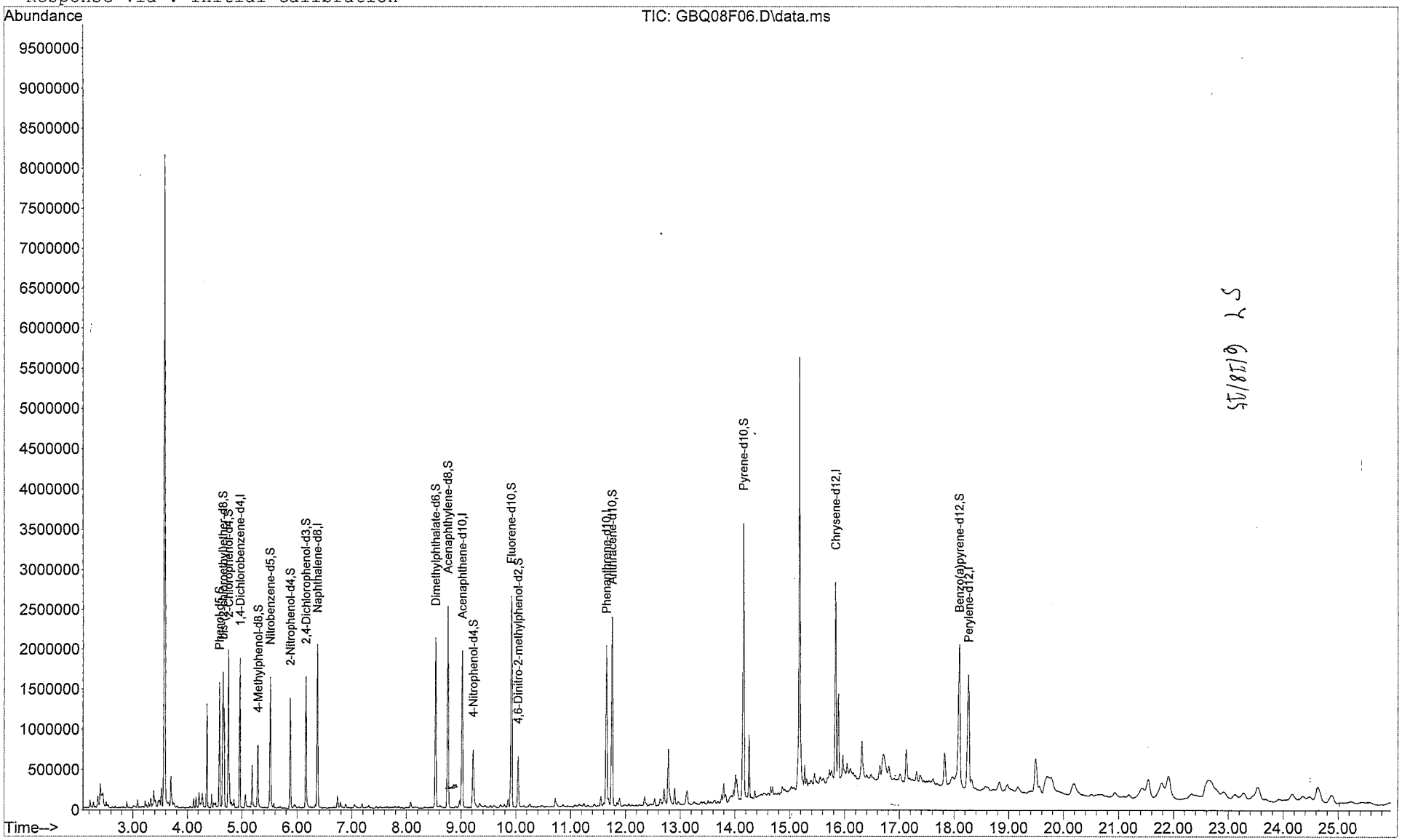
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 11:33:02 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



GBQ08F06.D GSOM01D4.M Thu Jun 18 11:37:49 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:33:02 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	318767	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1226370	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	700765	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1171685	20.00 ug/ml
73) Chrysene-d12	15.83	240	1172545	20.00 ug/ml
81) Perylene-d12	18.26	264	1128995	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	626458	28.182ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	360766	26.506ug/mL
7) 2-Chlorophenol-d4	4.75	132	611590	28.022ug/ml
13) 4-Methylphenol-d8	5.29	113	219854	12.704ug/mL
17) Nitrobenzene-d5	5.51	128	314782	30.593ug/ml
21) 2-Nitrophenol-d4	5.87	143	353483	30.827ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	446070	26.555ug/mL
28) 4-Chloroaniline-d4	6.43	131	1814	0.100ug/mL
42) Dimethylphthalate-d6	8.53	166	1348475	31.641ug/mL
45) Acenaphthylene-d8	8.76	160	1675400	29.457ug/mL
50) 4-Nitrophenol-d4	9.22	143	283011	31.185ug/mL
57) Fluorene-d10	9.92	176	1145740	30.952ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	164695	21.399ug/mL
69) Anthracene-d10	11.76	188	1588213	26.796ug/mL
75) Pyrene-d10	14.16	212	1542413	28.935ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1301977	25.424ug/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)

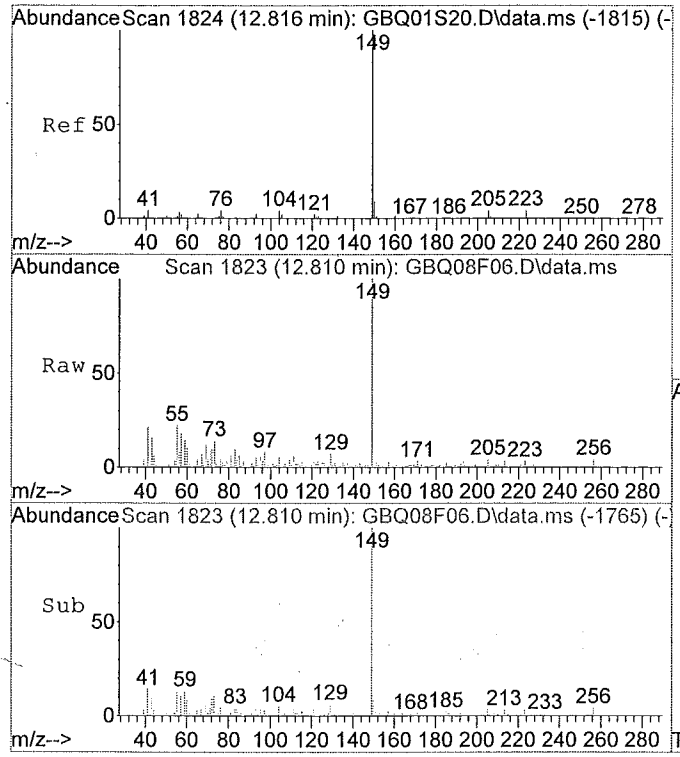
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:33:02 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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	12.81	149	48879	0.605ug/ml	98
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	429386	7.588ug/ml	98
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.49	252	31577	0.481ug/ml	97
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	

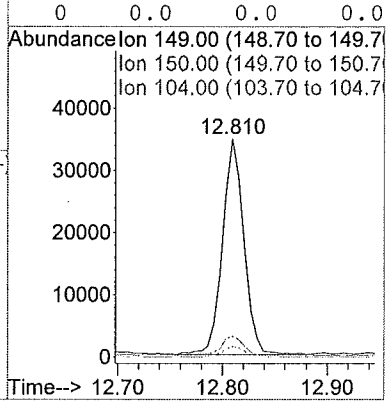
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

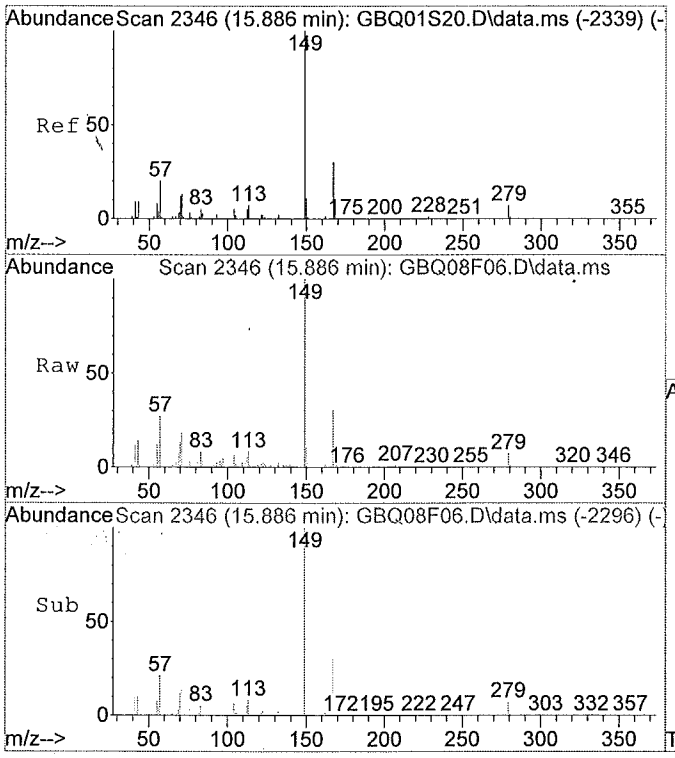


#71
Di-n-butylphthalate
Concen: 0.60 ug/ml
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: GBQ08F06.D
Acq: 06/16/2015 21:50

Tgt Ion:149 Resp: 48879

Ion	Ratio	Lower	Upper
149	100		
150	9.9	6.4	11.8
104	5.4	3.6	6.6
0	0.0	0.0	0.0

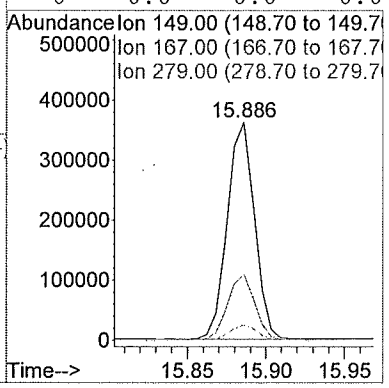


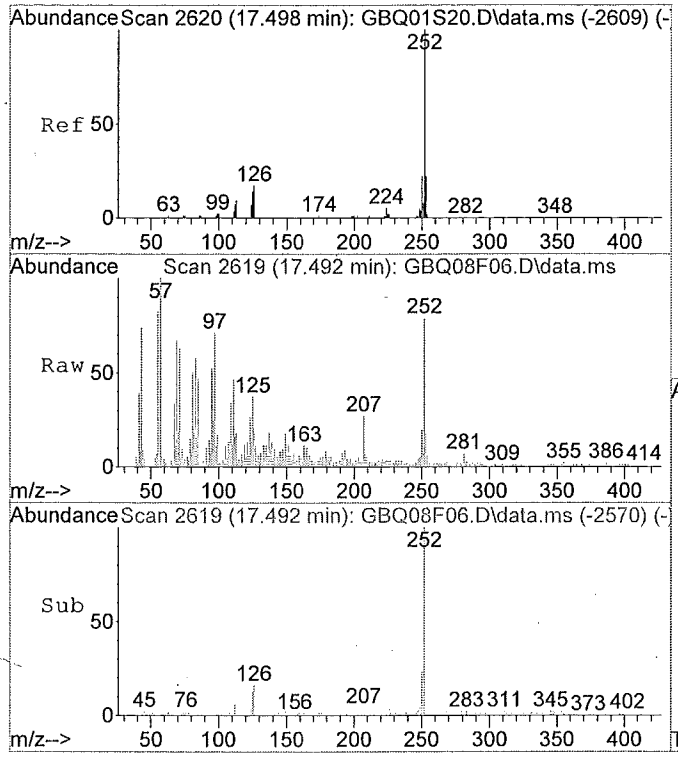


#80
Bis-(2-ethylhexyl)phthalate
Concen: 7.59 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBQ08F06.D
Acq: 06/16/2015 21:50

Tgt Ion:149 Resp: 429386

Ion	Ratio	Lower	Upper
149	100		
167	30.2	22.0	40.8
279	7.2	5.0	9.2
0	0.0	0.0	0.0

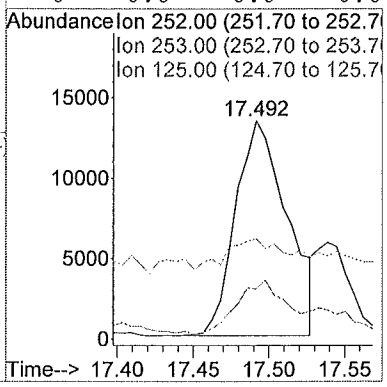




#83
Benzo(b)fluoranthene
Concen: 0.48 ug/ml
RT: 17.49 min Scan# 2619
Delta R.T. -0.01 min
Lab File: GBQ08F06.D
Acq: 06/16/2015 21:50

Tgt Ion:252 Resp: 31577

Ion	Ratio	Lower	Upper
252	100		
253	23.1	15.1	28.1
125	14.5	10.6	19.8
0	0.0	0.0	0.0



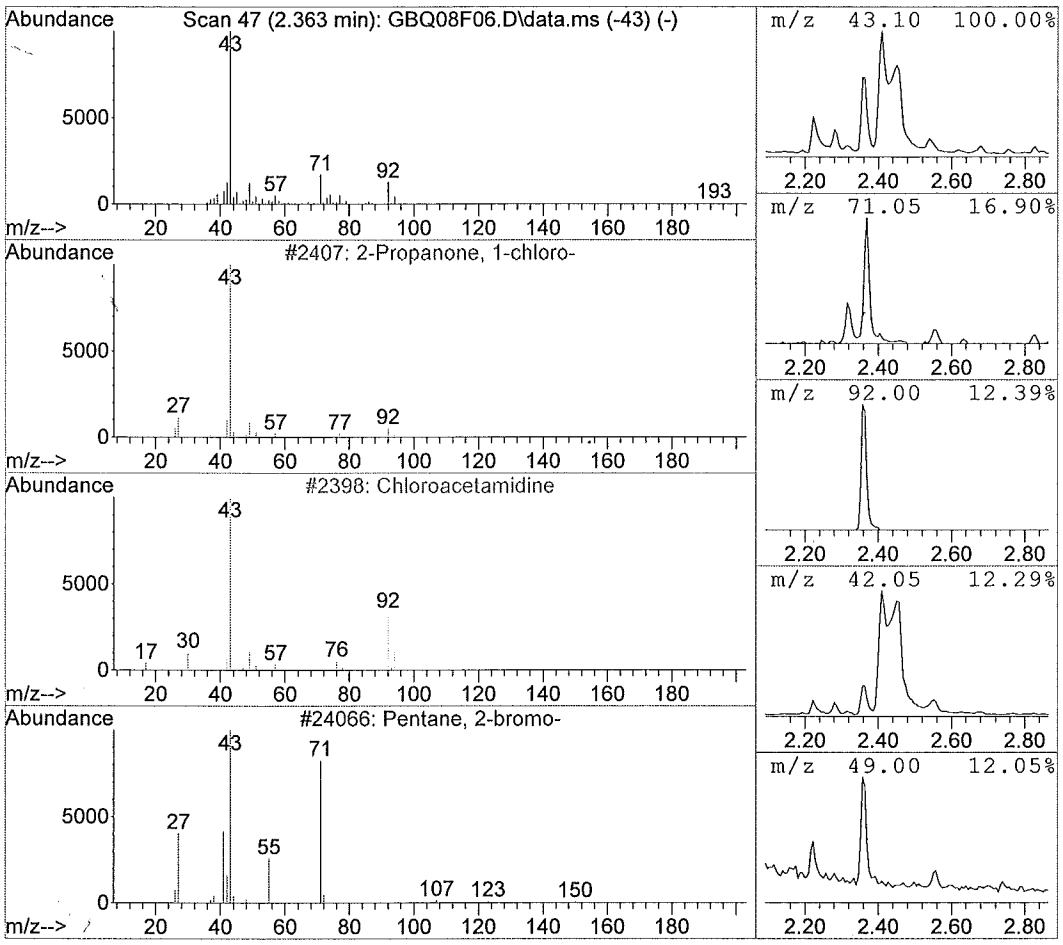
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.36	2.16 ug/ml	189331	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	72.00
2	Chloroacetamidine	2398	020846-52-0	59.00
3	Pentane, 2-bromo-	24066	000107-81-3	43.00
4	Acetic acid, chloro-, 1-methylbutyl	34032	090380-52-2	25.00
5	Vinyl butyrate	7162	000123-20-6	23.00



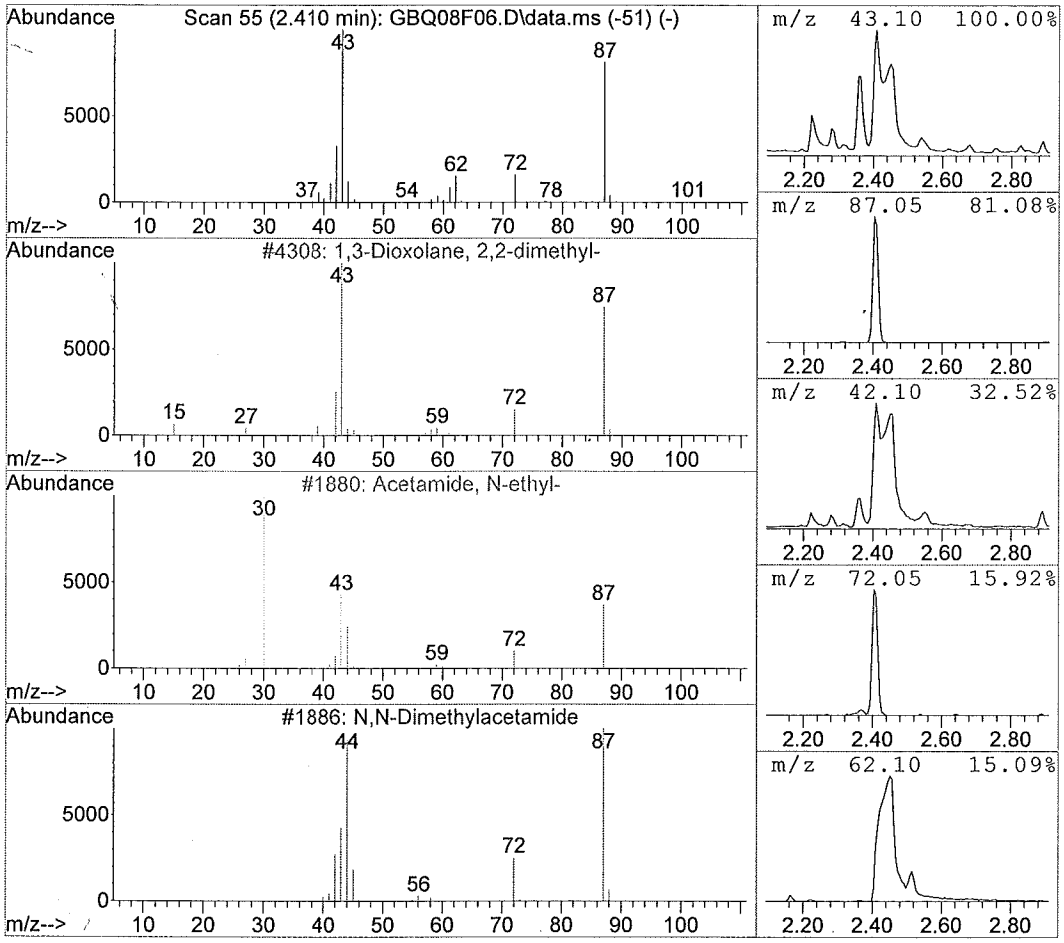
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.41	4.08 ug/ml	356785	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	42.00
2	Acetamide, N-ethyl-	1880	000625-50-3	40.00
3	N,N-Dimethylacetamide	1886	000127-19-5	37.00
4	Thiocyanic acid, ethyl ester	1853	000542-90-5	23.00
5	dl-Glyceraldehyde dimer	45907	026793-98-6	17.00



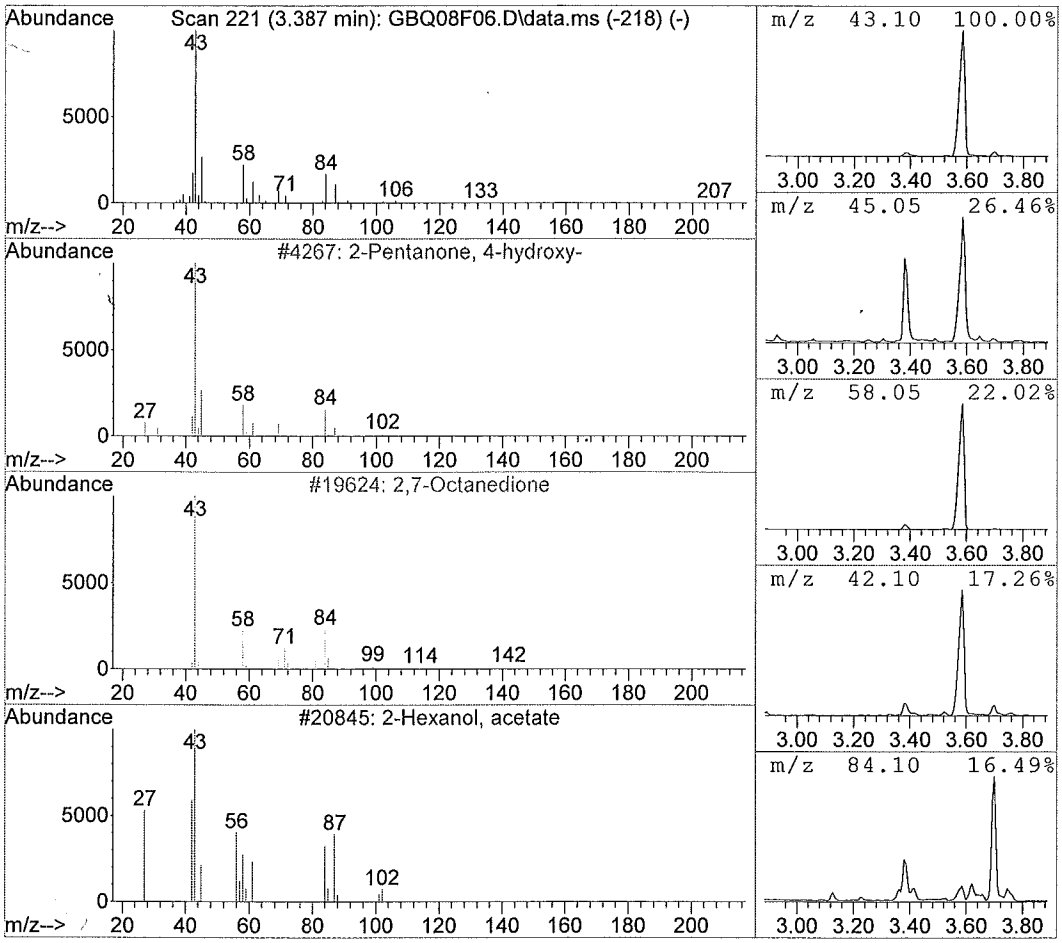
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.39	2.51 ug/ml	219624	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	72.00
2	2,7-Octanedione	19624	001626-09-1	23.00
3	2-Hexanol, acetate	20845	005953-49-1	17.00
4	Isopropyl acetate	4253	000108-21-4	17.00
5	Acetone	213	000067-64-1	16.00



00291

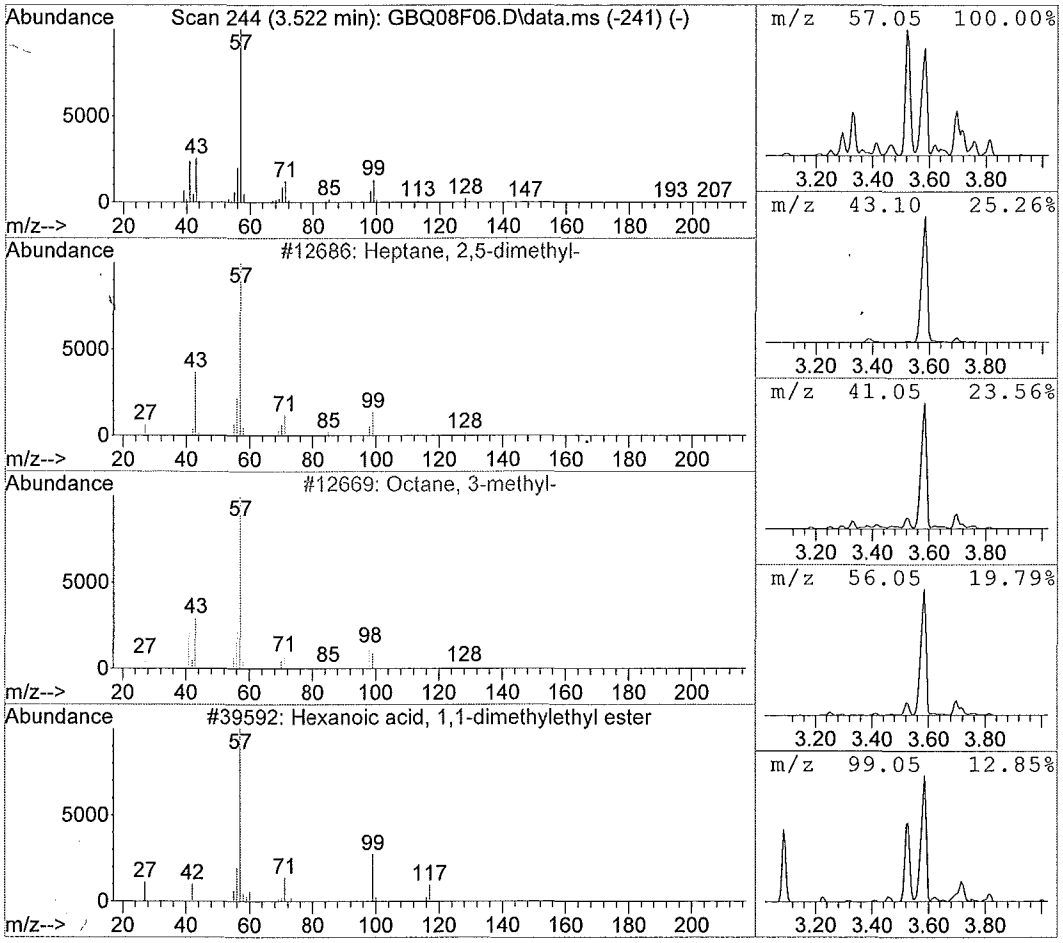
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.92 ug/ml	255796	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,5-dimethyl- BA	12686	002216-30-0	91.00
2	Octane, 3-methyl-	12669	002216-33-3	90.00
3	Hexanoic acid, 1,1-dimethylethyl es	39592	002492-18-4	72.00
4	Heptane, 3,5-dimethyl-	12698	000926-82-9	59.00
5	Nonane, 2,5-dimethyl-	28440	017302-27-1	56.00



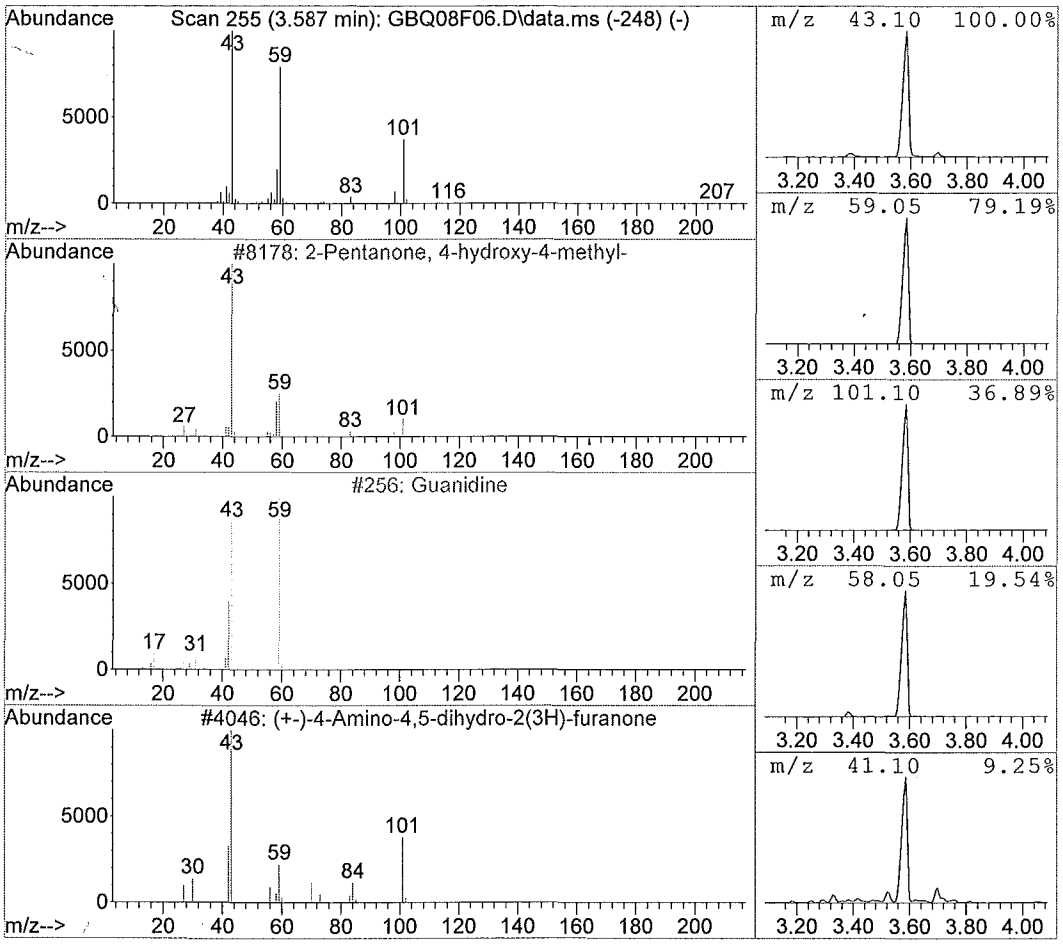
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	122.49 ug/ml	10716781	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Propane, 2-ethoxy-2-methyl-	4485	000637-92-3	25.00



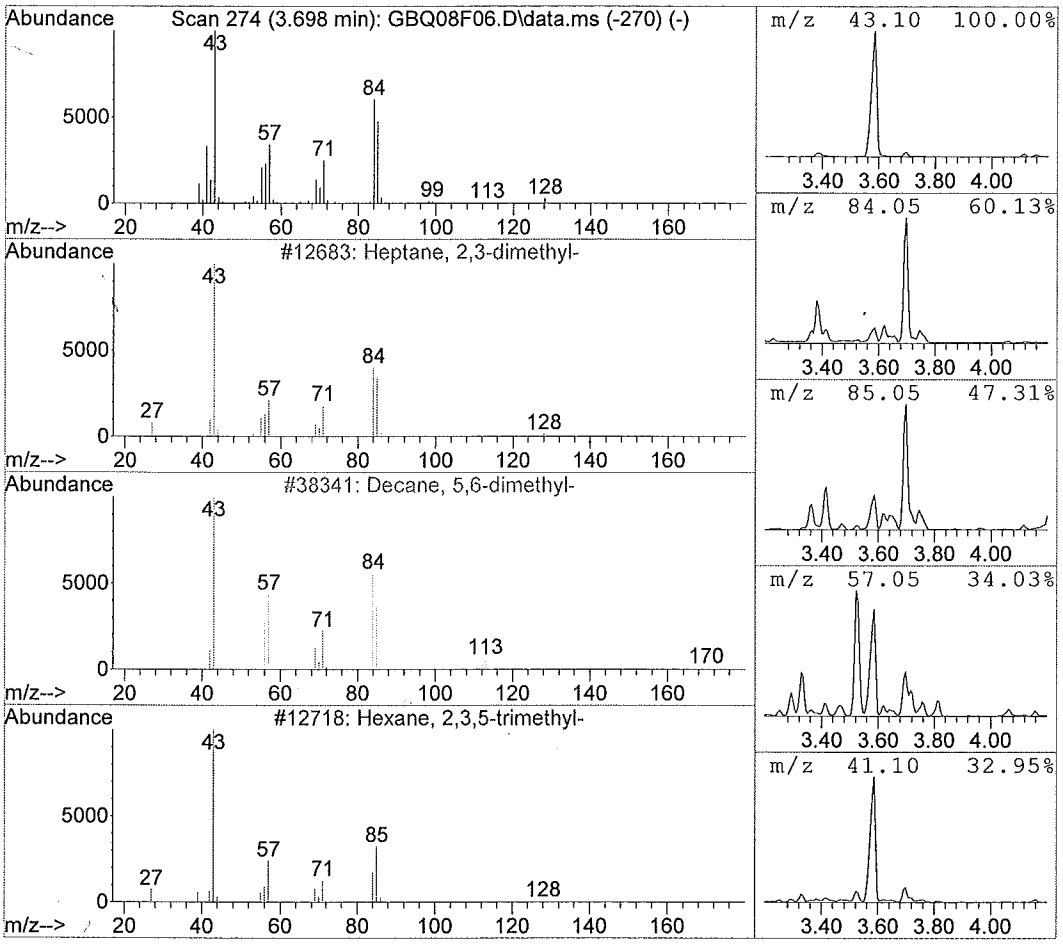
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	4.54 ug/ml	397051	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl- BA	12683	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
3	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	59.00
4	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	59.00
5	1-Octene, 4-methyl-	11522	013151-12-7	59.00



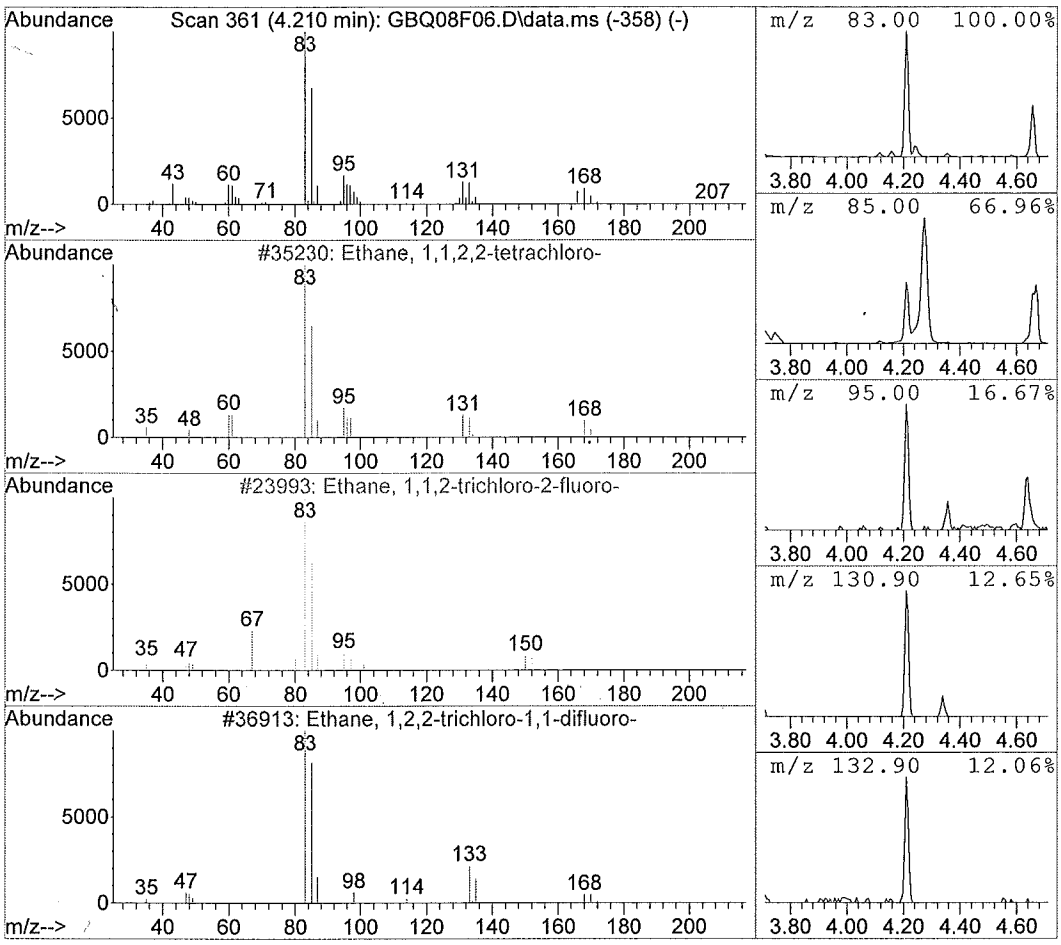
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.48 ug/ml	217366	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	97.00
2	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	55.00
4	Methane, bromodichloro-	32801	000075-27-4	53.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	45.00



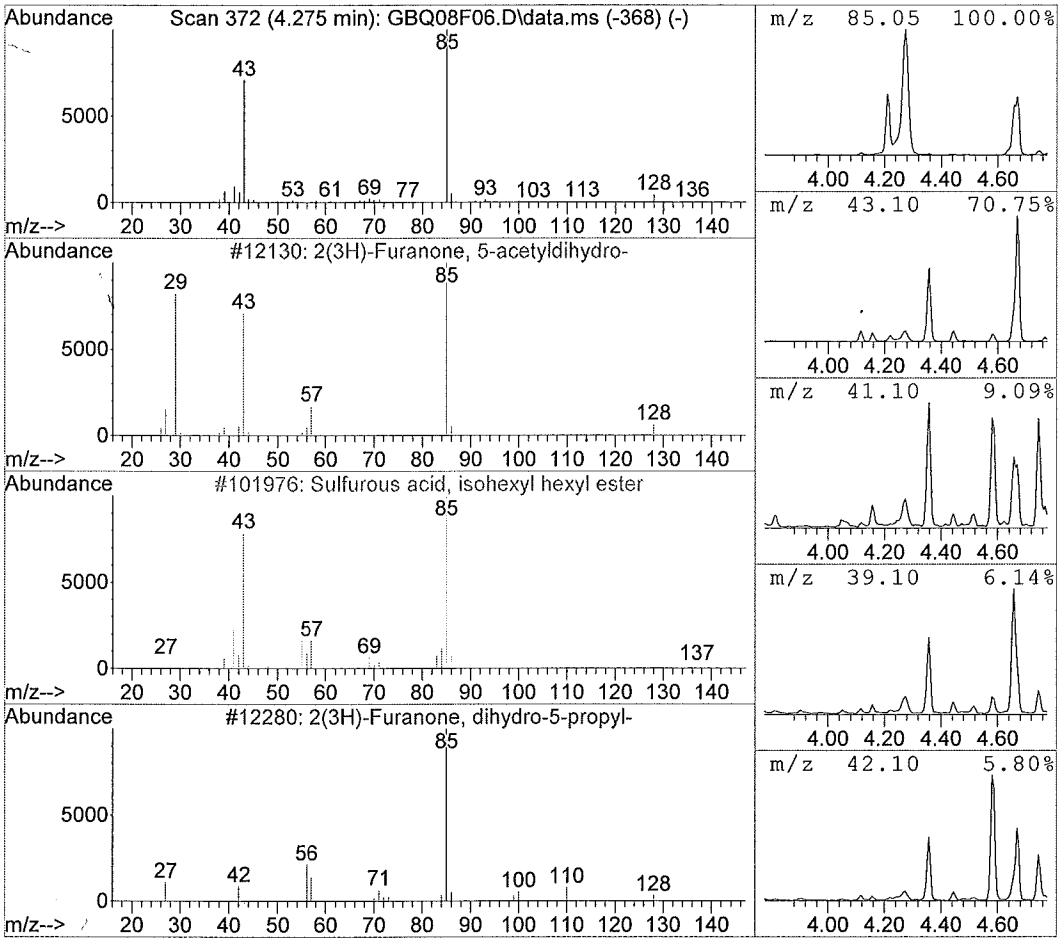
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	2.54 ug/ml	221842	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	86.00
2	Sulfurous acid, isohexyl hexyl este	101976	1000309-12-8	56.00
3	2(3H)-Furanone, dihydro-5-propyl-	12280	000105-21-5	50.00
4	2-Propyltetrahydropyran	12555	003857-17-8	50.00
5	Octa-3,5-diene-2,7-dione, 4,5-dihyd	38655	1000266-61-0	9.00



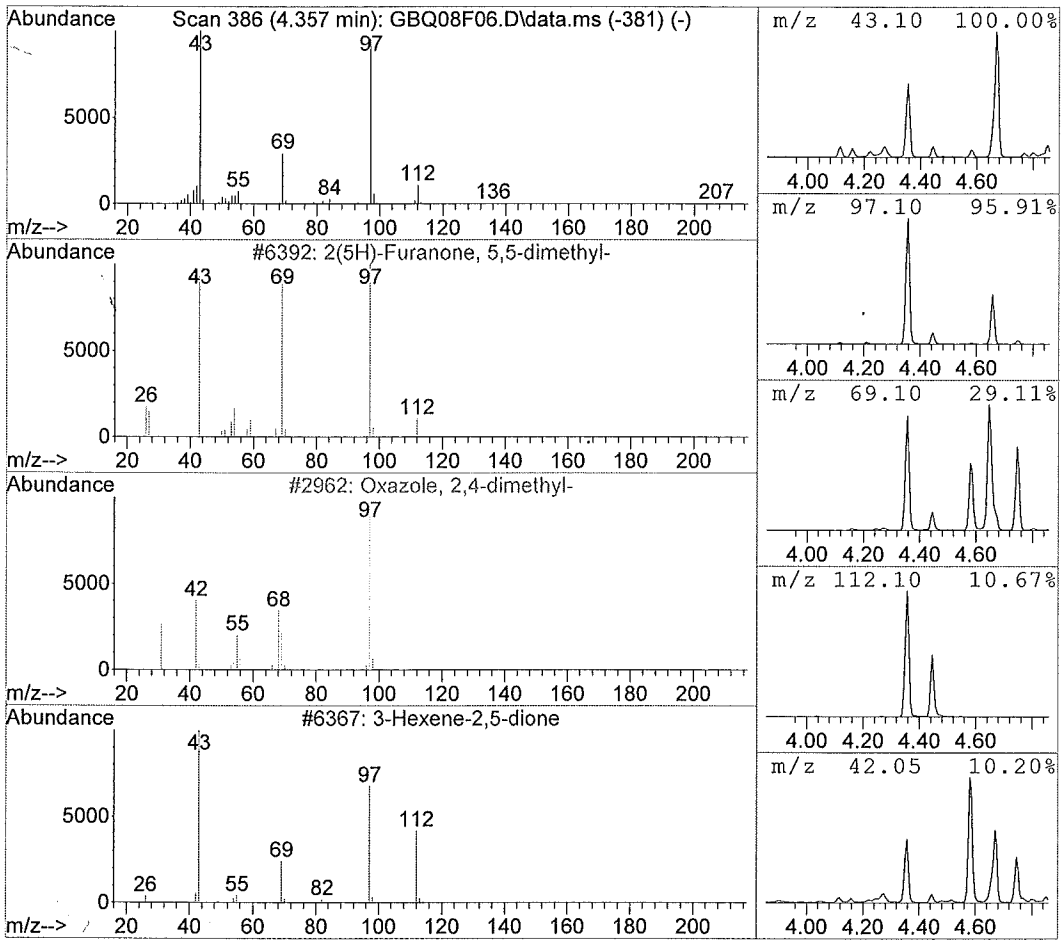
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.36	13.59 ug/ml	1188857	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
2	Oxazole, 2,4-dimethyl-	2962	007208-05-1	64.00
3	3-Hexene-2,5-dione	6367	004436-75-3	56.00
4	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
5	2-Pyrazoline, 1,4,5-trimethyl-	6304	007423-11-2	10.00



Library Search Compound Report

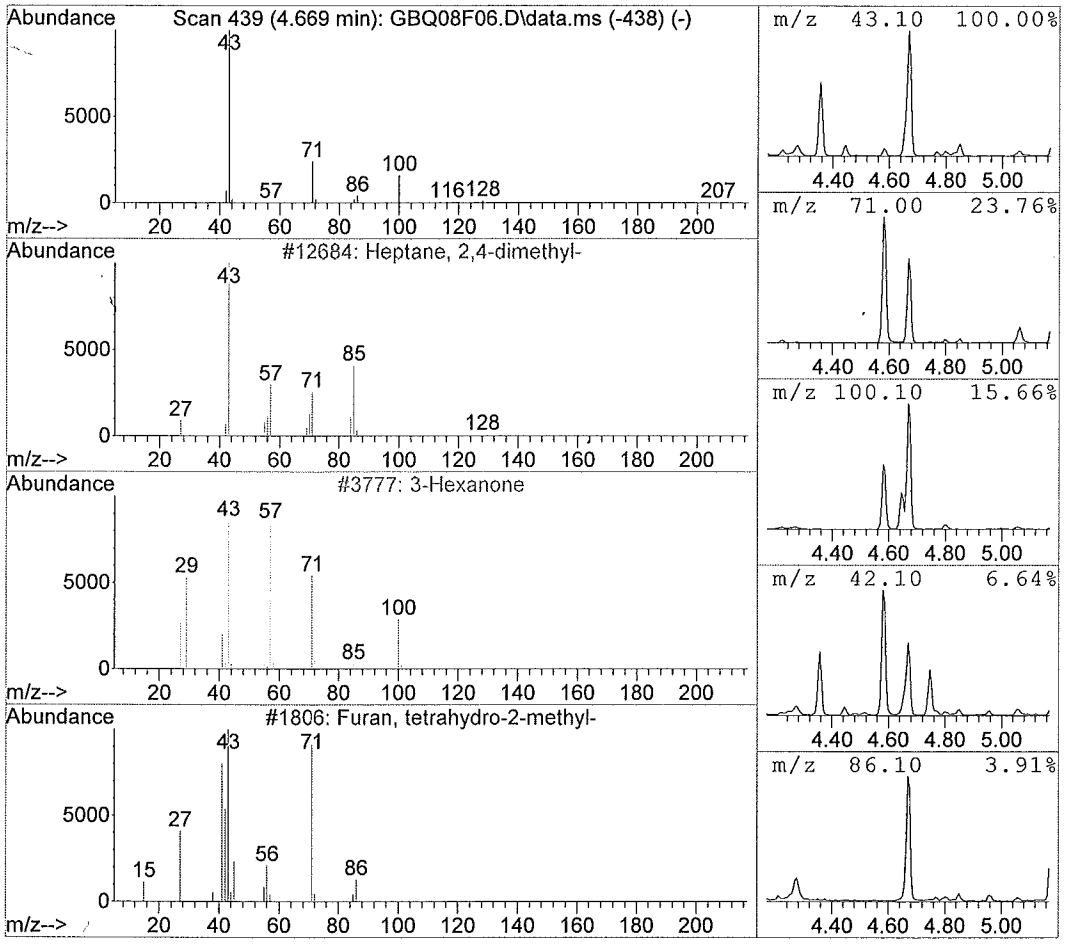
Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.67	9.57 ug/ml	837442	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12684	002213-23-2	45.00
2	3-Hexanone	3777	000589-38-8	9.00
3	Furan, tetrahydro-2-methyl-	1806	000096-47-9	9.00
4	Acetylacetone	3666	000123-54-6	7.00
5	Octane, 4-methyl-	12674	002216-34-4	7.00

BA



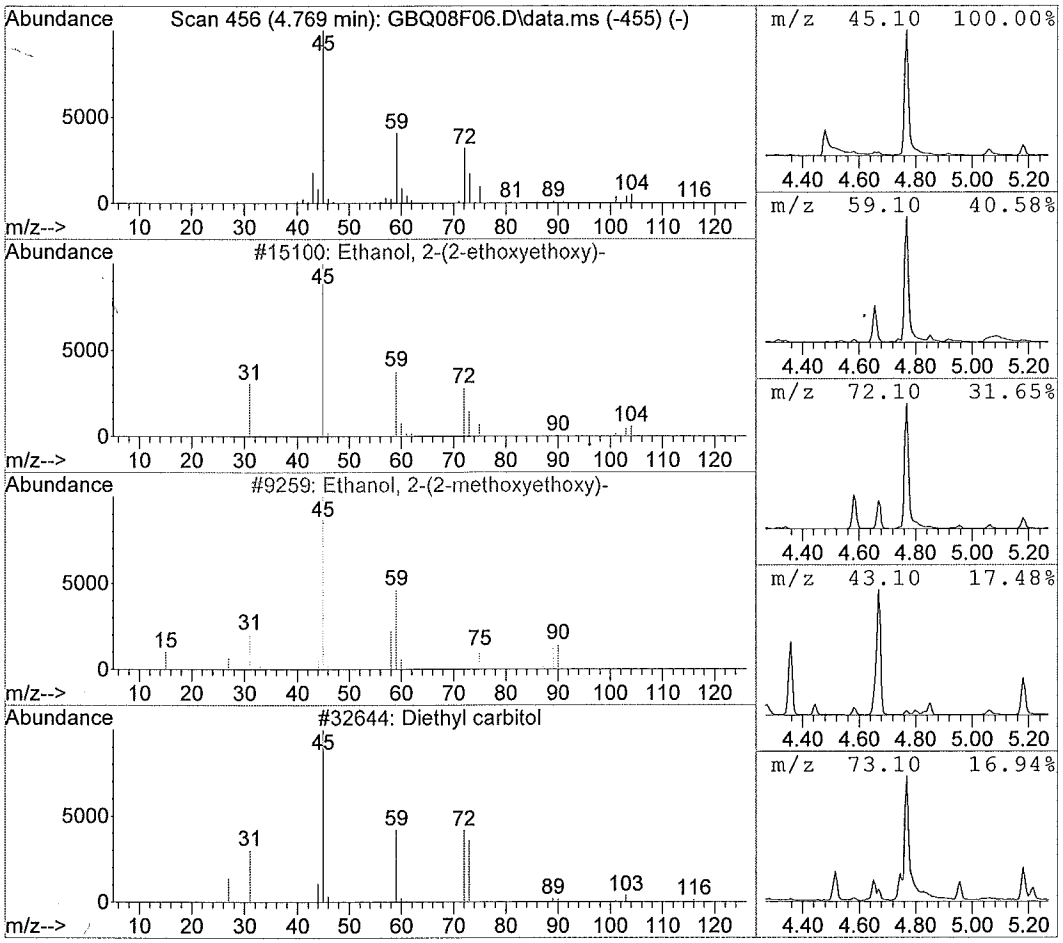
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	2.30 ug/ml	201494	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15100	000111-90-0	86.00
2	Ethanol, 2-(2-methoxyethoxy)-	9259	000111-77-3	53.00
3	Diethyl carbitol	32644	000112-36-7	50.00
4	Ethanol, 2-[2-(2-ethoxyethoxy)ethox	44468	000112-50-5	45.00
5	2-Propanol, 1-(1-methylethoxy)-	8863	003944-36-3	45.00



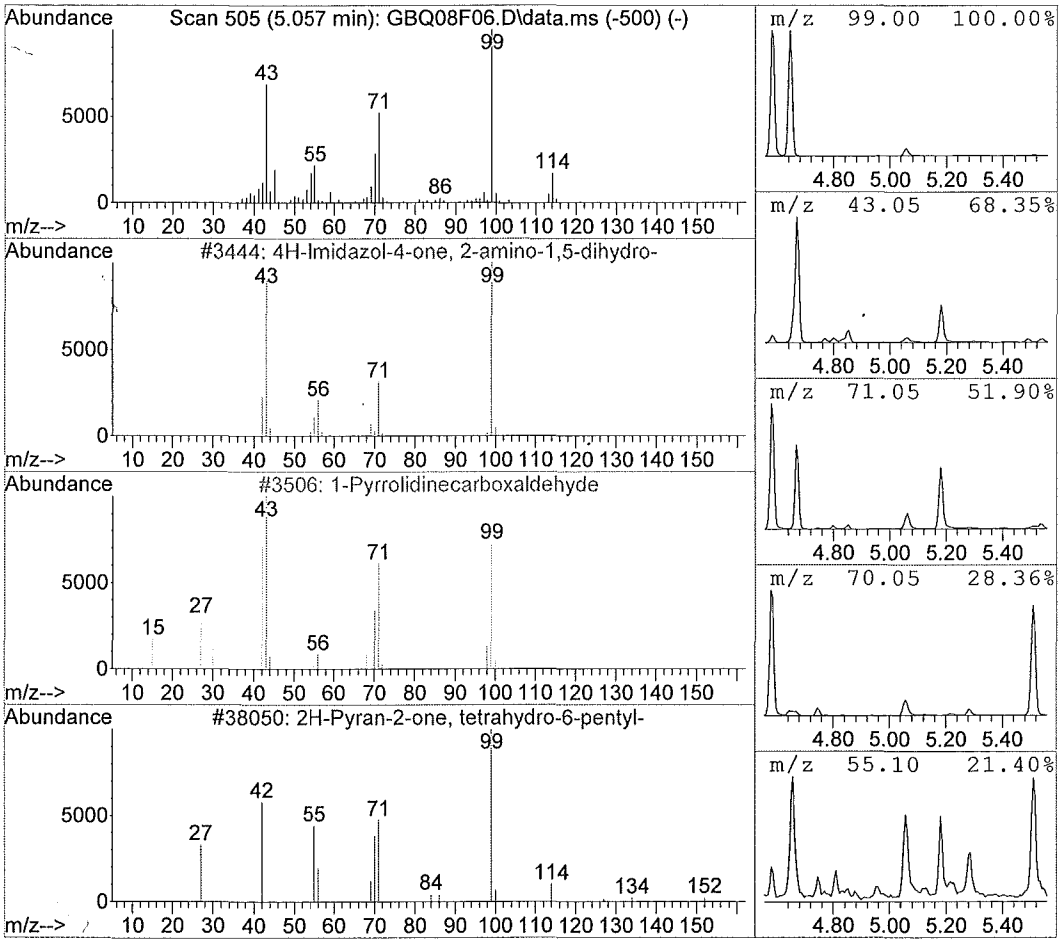
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.06	2.78 ug/ml	242879	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	59.00
2	1-Pyrrolidinecarboxaldehyde	3506	003760-54-1	59.00
3	2H-Pyran-2-one, tetrahydro-6-pentyl	38050	000705-86-2	53.00
4	Isothiazole, 4-methyl-	3467	000693-90-3	53.00
5	Pentanoic acid, 2-methyl-, anhydrid	72492	063169-61-9	50.00



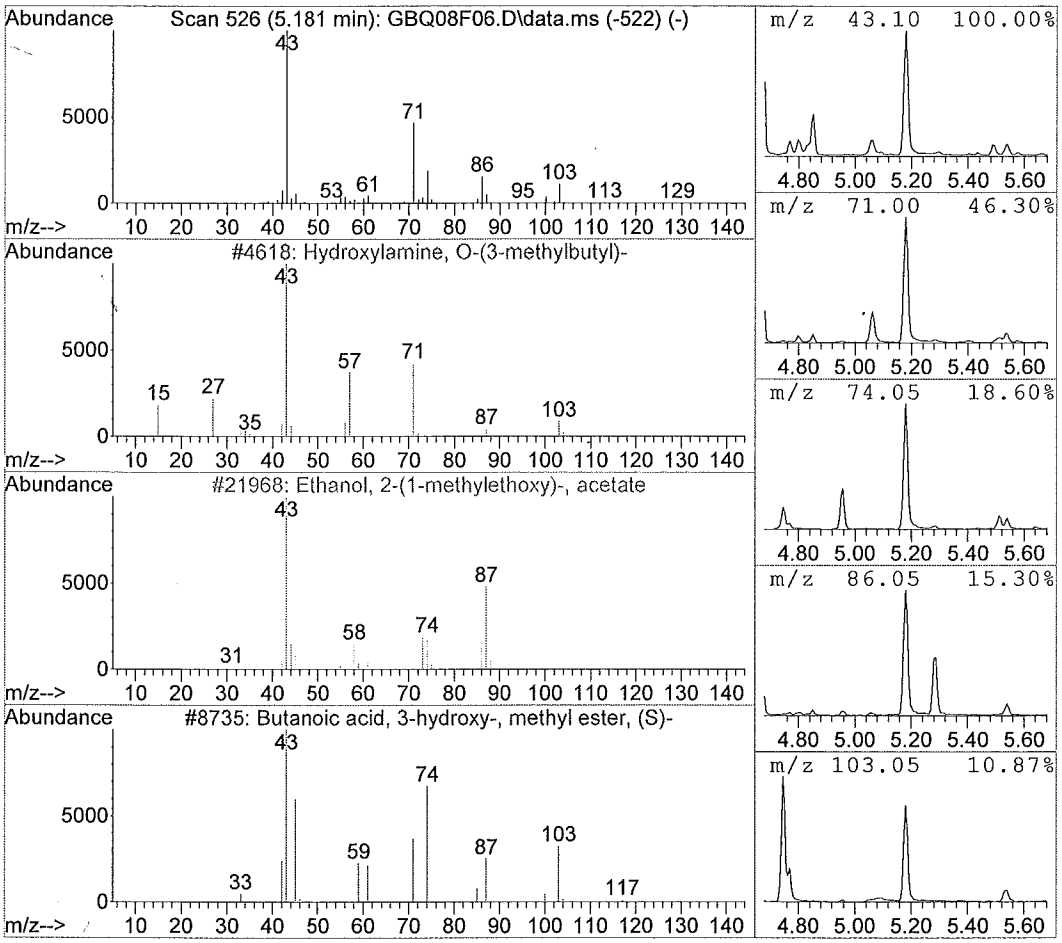
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.18	6.01 ug/ml	525939	1,4-Dichlorobenzene-d4	1749780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	50.00
2	Ethanol, 2-(1-methylethoxy)-, aceta	21968	019234-20-9	16.00
3	Butanoic acid, 3-hydroxy-, methyl e	8735	053562-86-0	12.00
4	2,3-Butanedione	1661	000431-03-8	10.00
5	2-Butanone, 3-methyl-	1769	000563-80-4	9.00



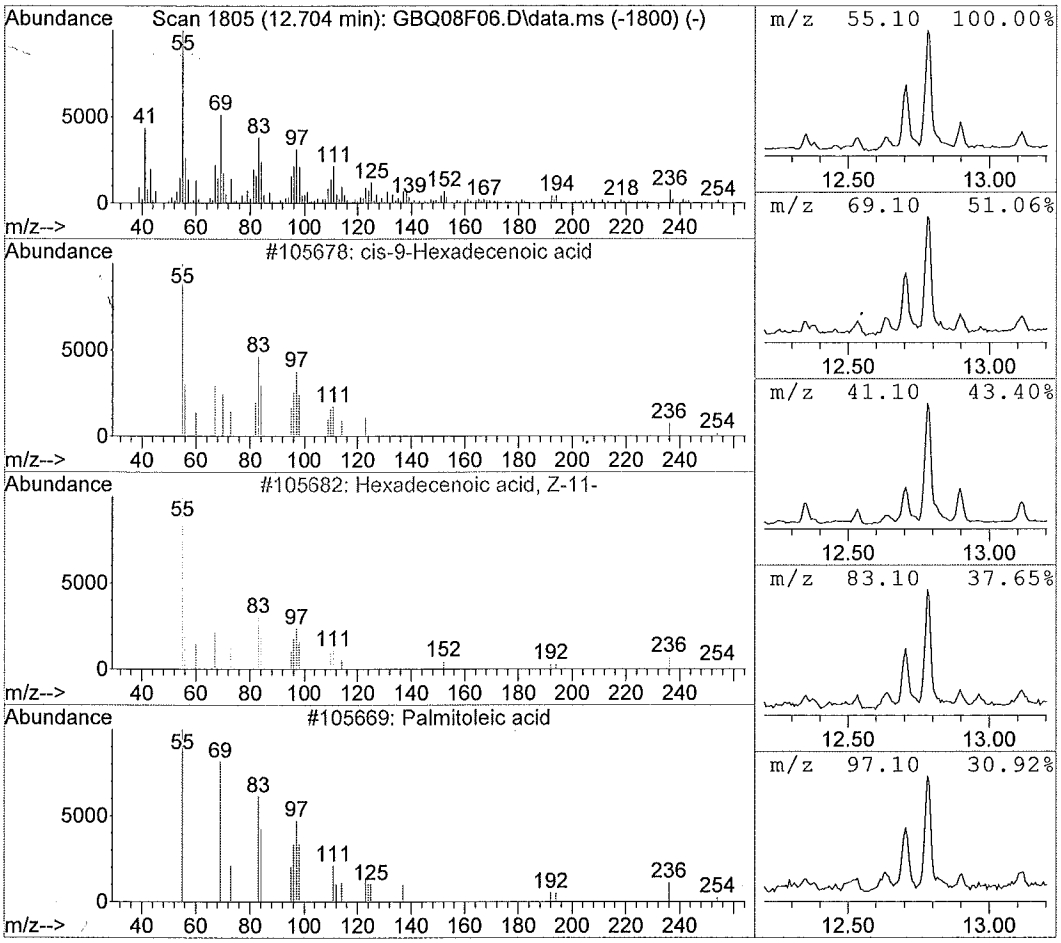
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.70	2.62 ug/ml	371724	Phenanthrene-d10	2840279

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-9-Hexadecenoic acid	105678	1000333-19-5	99.00
2	Hexadecenoic acid, Z-11-	105682	002416-20-8	98.00
3	Palmitoleic acid	105669	000373-49-9	98.00
4	Z-7-Tetradecenoic acid	82767	1000130-98-4	64.00
5	Oxacyclotetradecane-2,11-dione, 13-	93925	074685-36-2	64.00



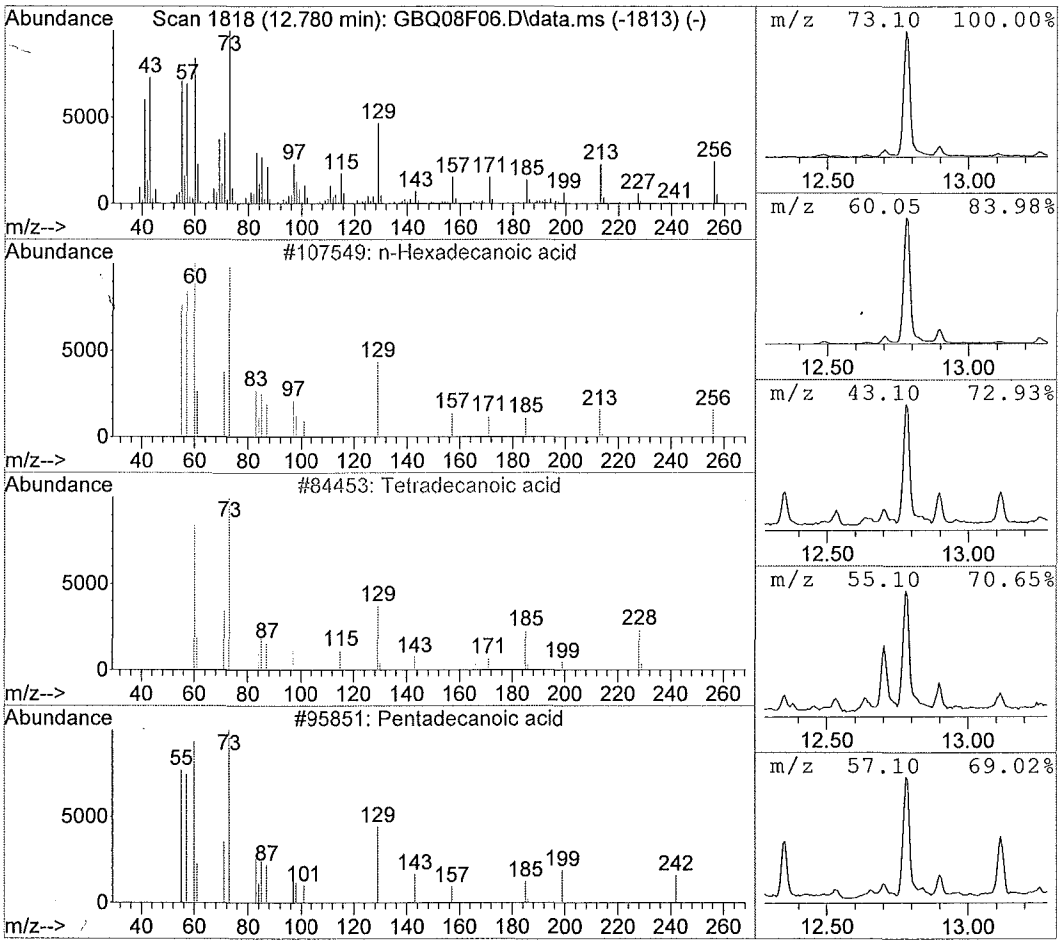
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.78	9.13 ug/ml	1296372	Phenanthrene-d10	2840279

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tetradecanoic acid	84453	000544-63-8	93.00
3	Pentadecanoic acid	95851	001002-84-2	91.00
4	Tridecanoic acid	72647	000638-53-9	83.00
5	n-Decanoic acid	39469	000334-48-5	70.00



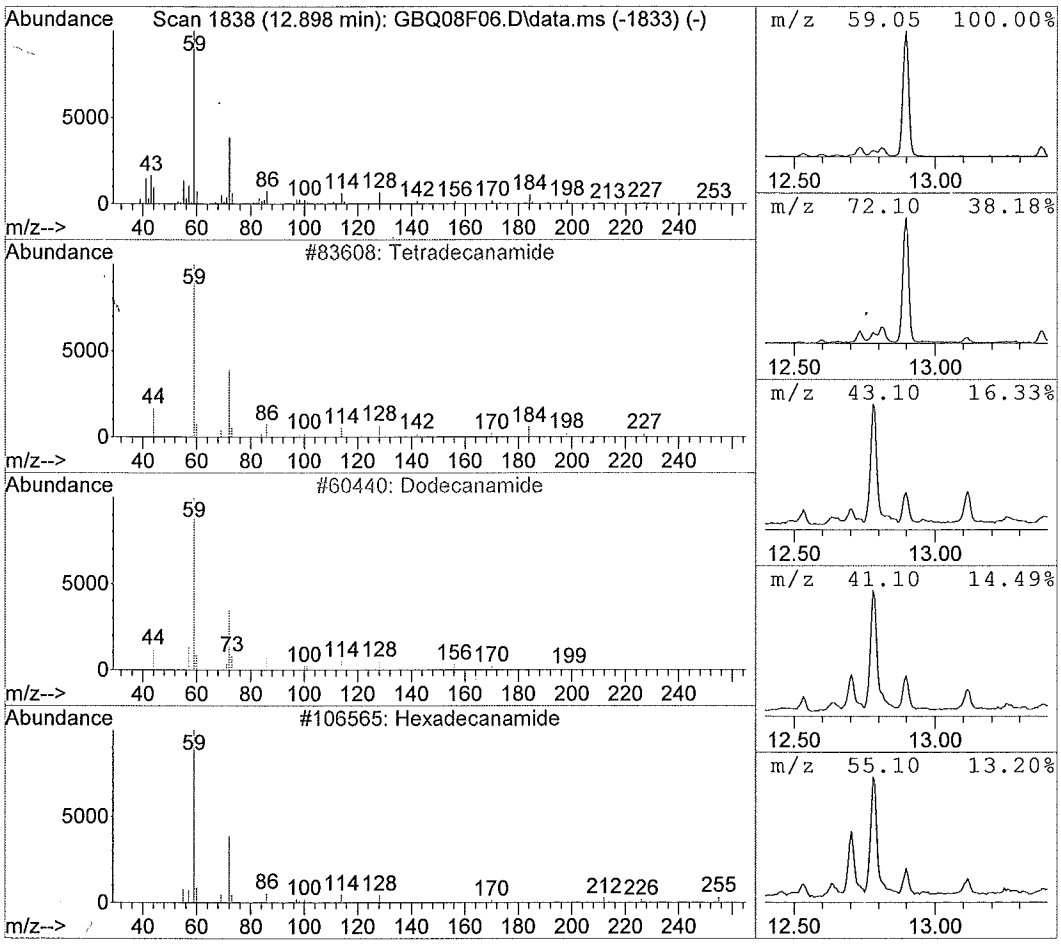
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.90	2.05 ug/ml	291824	Phenanthrene-d10	2840279

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	94.00
2	Dodecanamide	60440	001120-16-7	86.00
3	Hexadecanamide	106565	000629-54-9	86.00
4	Octanamide	20317	000629-01-6	72.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



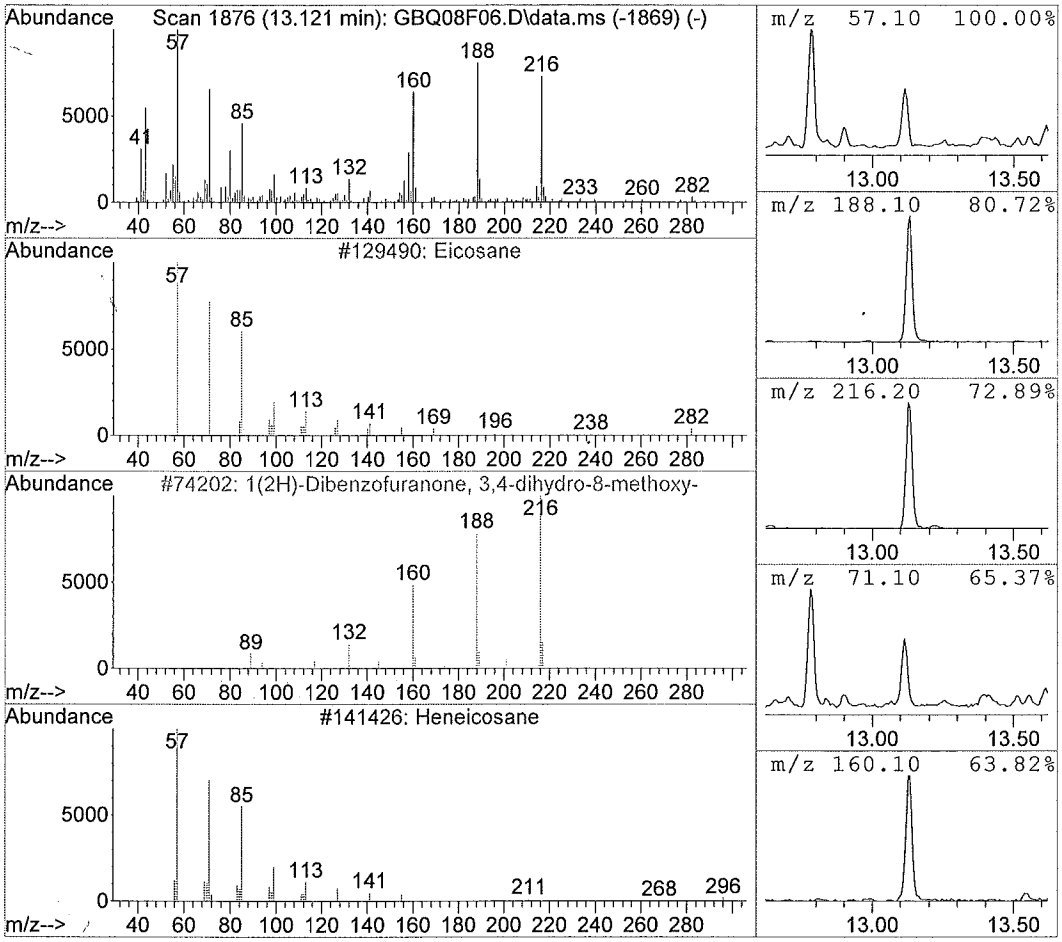
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.12	2.53 ug/ml	358917	Phenanthrene-d10	2840279

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane 5A	129490	000112-95-8	90.00
2	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	49.00
3	Heneicosane	141426	000629-94-7	25.00
4	Decane, 3,8-dimethyl-	38349	017312-55-9	25.00
5	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	20.00



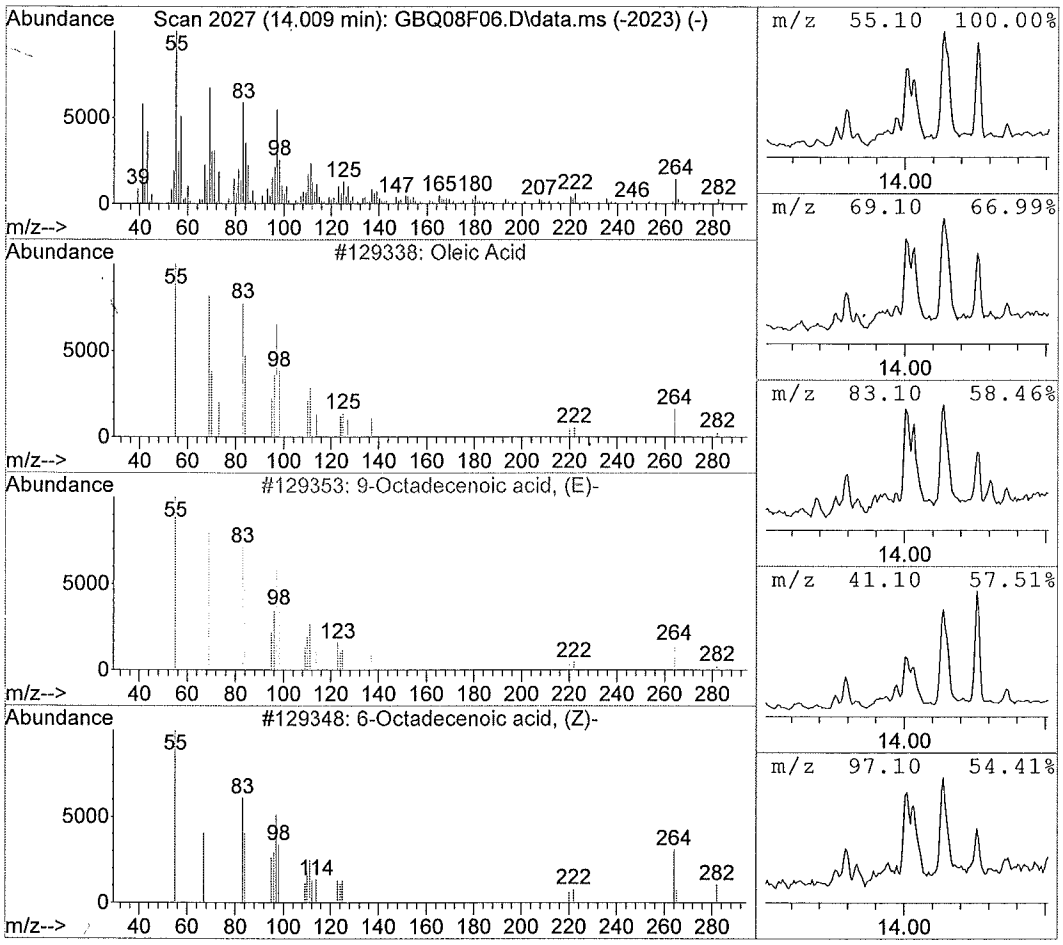
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.01	2.50 ug/ml	410809	Chrysene-d12	3287052

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oleic Acid	129338	000112-80-1	99.00
2	9-Octadecenoic acid, (E)-	129353	000112-79-8	98.00
3	6-Octadecenoic acid, (Z)-	129348	000593-39-5	98.00
4	trans-13-Octadecenoic acid	129357	000693-71-0	96.00
5	cis-13-Octadecenoic acid	129347	013126-39-1	95.00



Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.03	2.26 ug/ml	371925	Chrysene-d12	3287052

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Fluoranthene, 2-methyl-	74425	033543-31-6	35.00
2	Pyrene, 1-methyl-	74411	002381-21-7	35.00
3	Pyrene, 4-methyl-	74414	003353-12-6	20.00
4	11H-Benzo[b]fluorene	74418	000243-17-4	18.00
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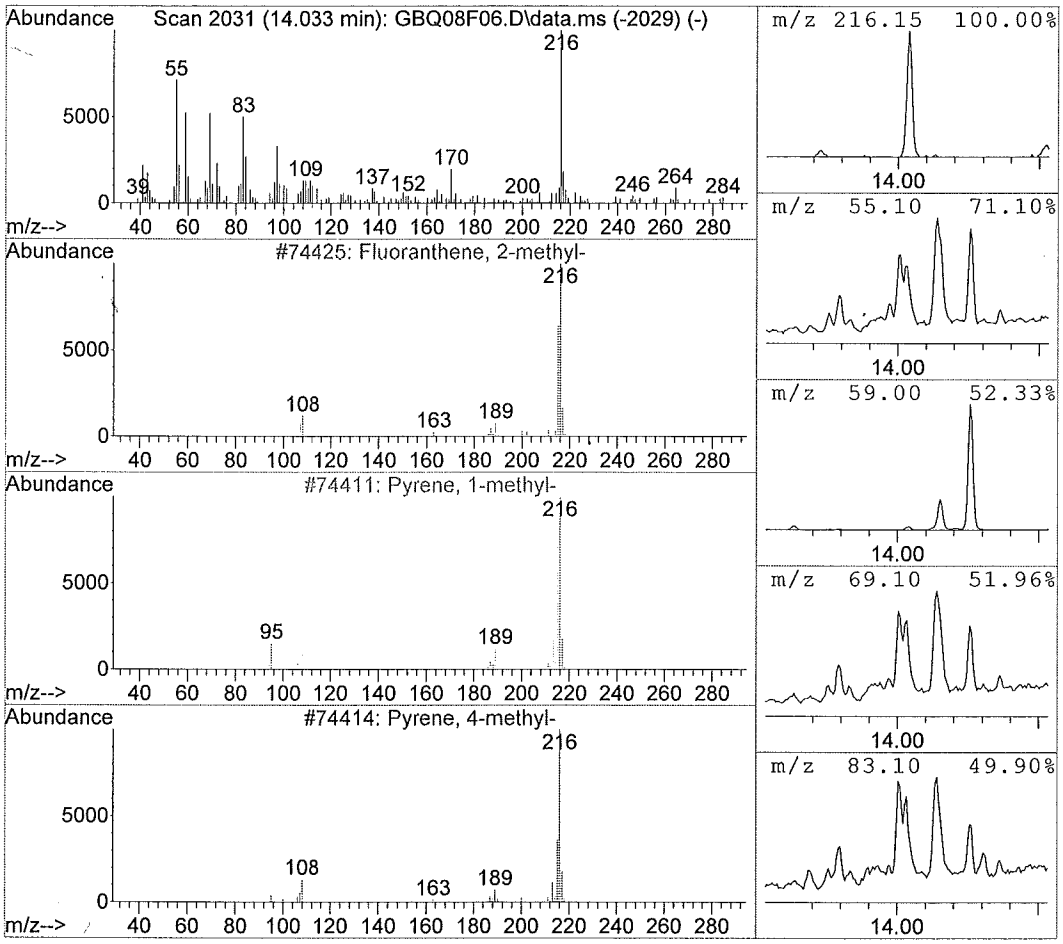


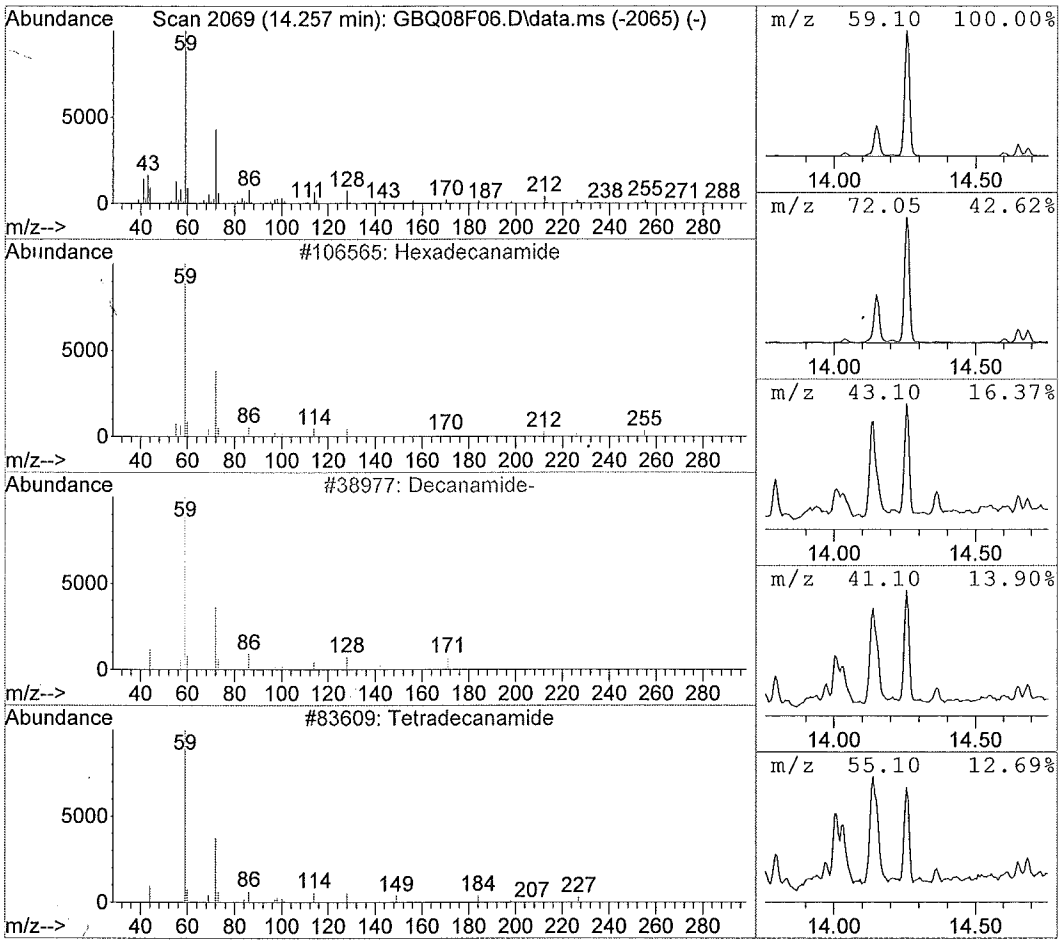
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	5.43 ug/ml	893221	Chrysene-d12	3287052

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	96.00
2	Decanamide-	38977	002319-29-1	90.00
3	Tetradecanamide	83609	000638-58-4	86.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



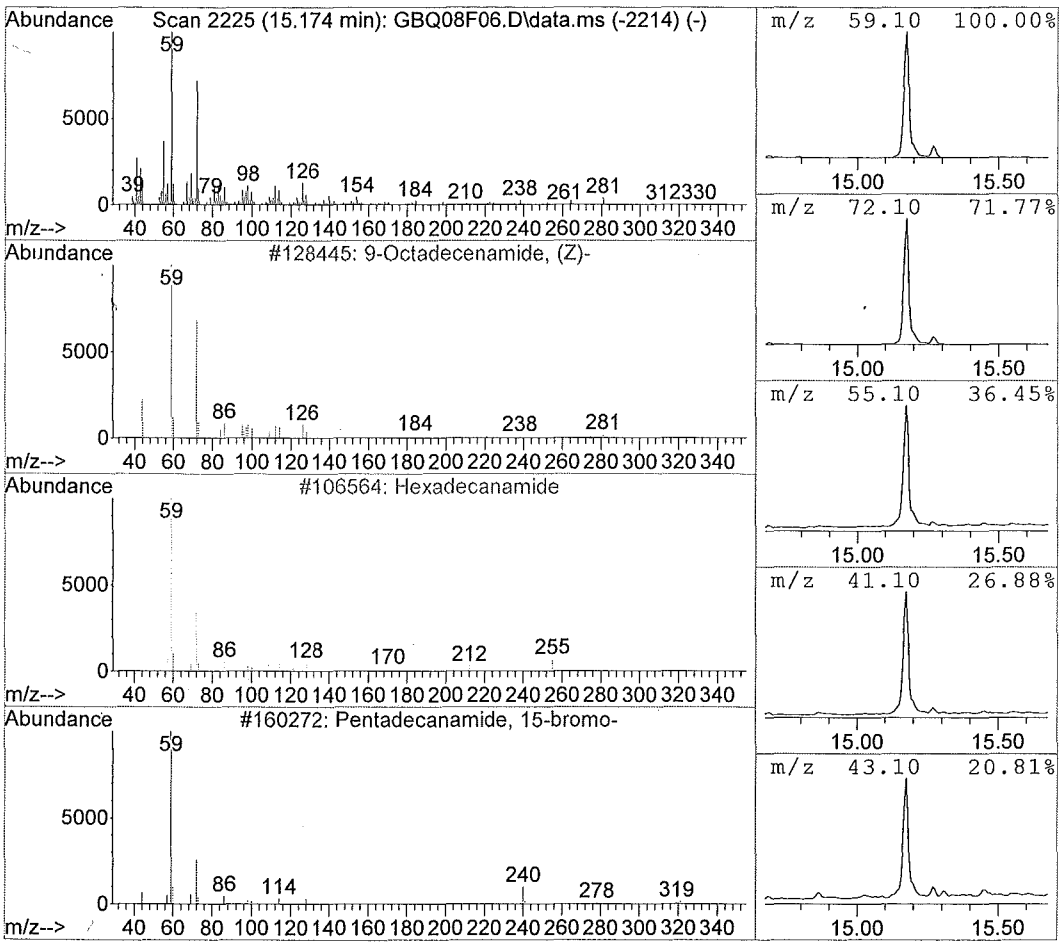
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ08F06.D Vial: 7
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	47.54 ug/ml	7813557	Chrysene-d12	3287052

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Hexadecanamide	106564	000629-54-9	64.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	53.00
4	Pentanamide	4064	000626-97-1	53.00
5	Dodecanamide	60440	001120-16-7	53.00



Library Search Compound Report

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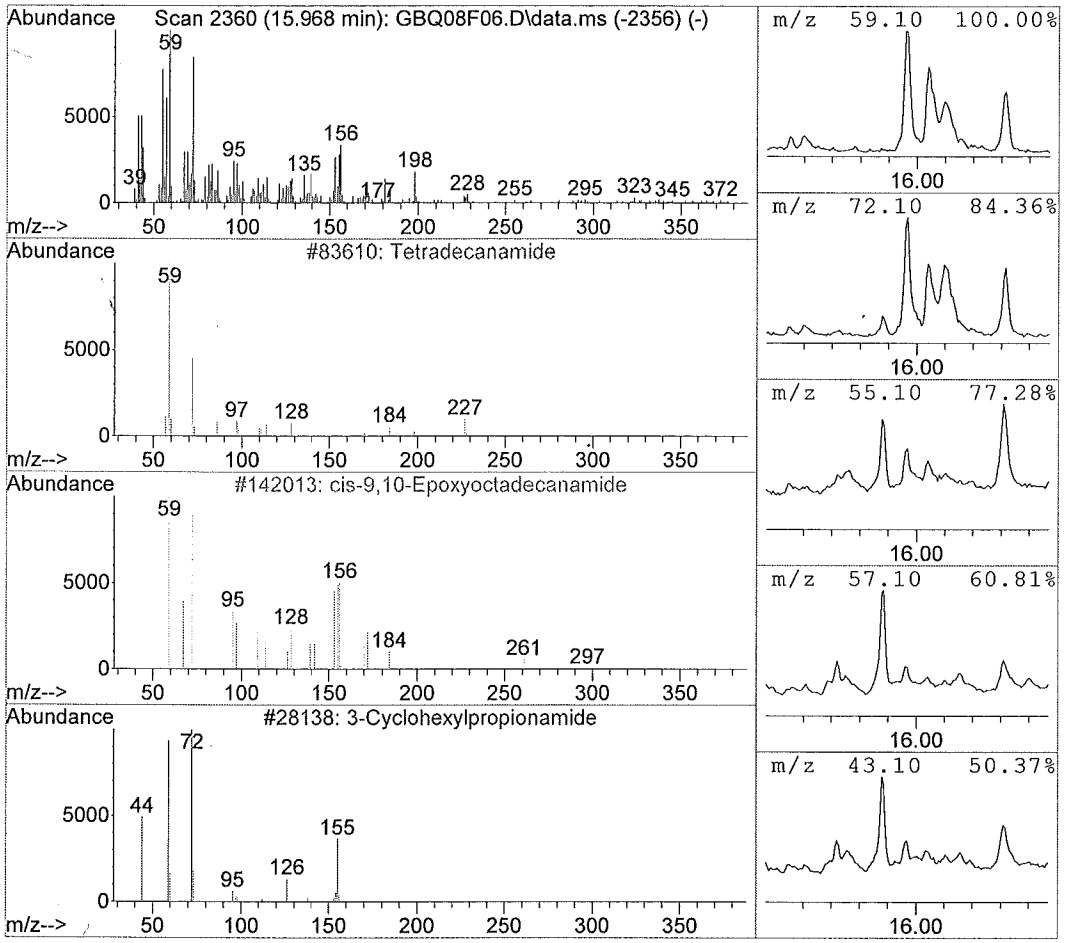
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.97	2.59 ug/ml	425693	Chrysene-d12	3287052

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	58.00
2	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	52.00
3	3-Cyclohexylpropionamide	28138	004361-29-9	43.00
4	Decanamide-	38977	002319-29-1	35.00
5	Octanamide	20317	000629-01-6	35.00



Library Search Compound Report

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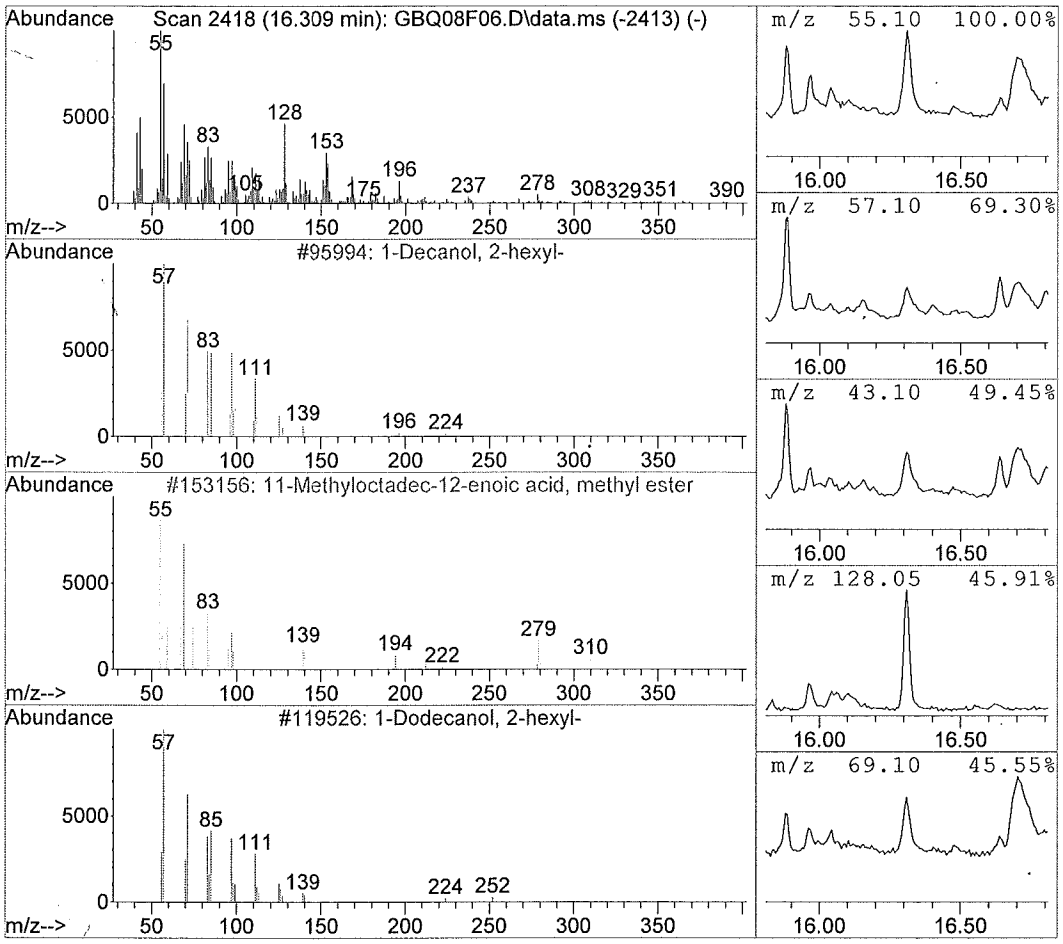
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	5.61 ug/ml	921816	Chrysene-d12	3287052

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Decanol, 2-hexyl-	95994	002425-77-6	25.00
2	11-Methyloctadec-12-enoic acid, met	153156	1000370-42-3	25.00
3	1-Dodecanol, 2-hexyl-	119526	110225-00-8	15.00
4	Cyclopropane, 1-pentyl-2-propyl-	27088	041977-33-7	15.00
5	1-Dodecanol, 2-octyl-	143260	005333-42-6	15.00



Library Search Compound Report

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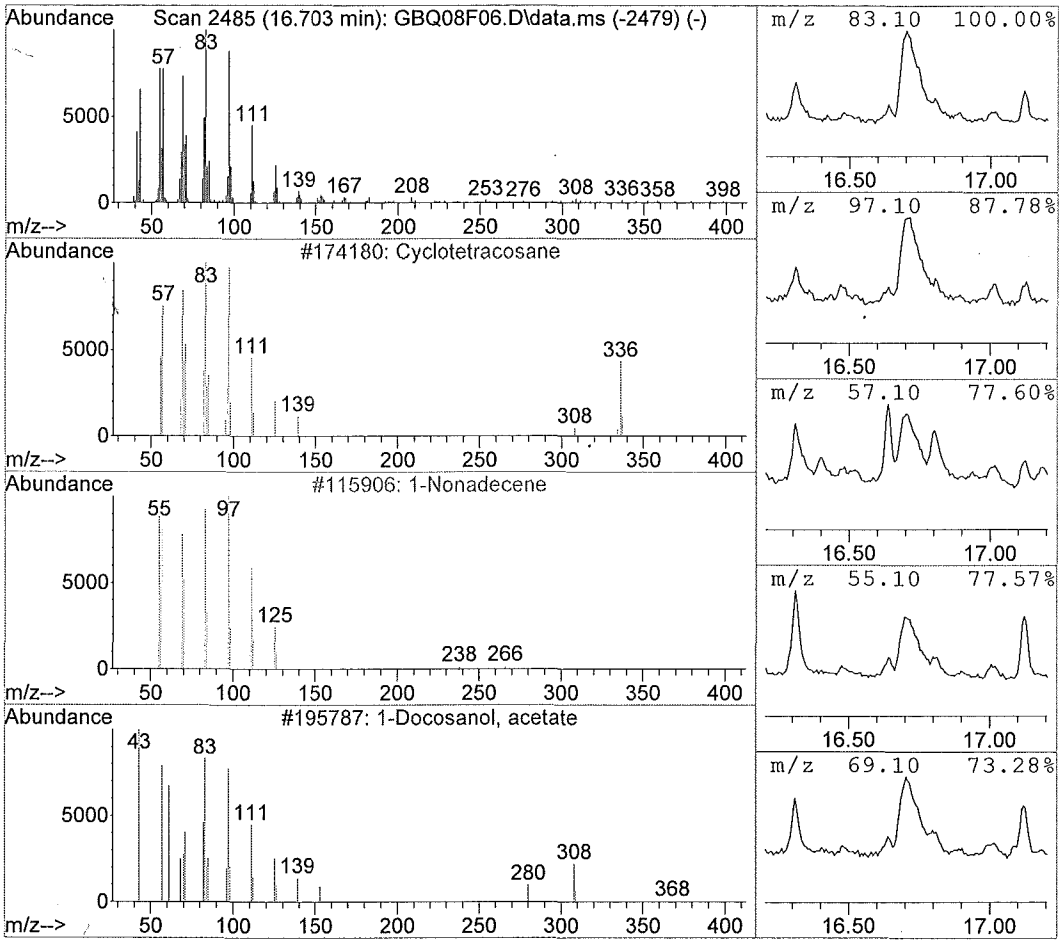
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.70	5.27 ug/ml	865785	Chrysene-d12	3287052

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclotetracosane CA	174180	000297-03-0	90.00
2	1-Nonadecene	115906	018435-45-5	87.00
3	1-Docosanol, acetate	195787	000822-26-4	86.00
4	1-Docosanol, methyl ether	177220	1000333-91-9	81.00
5	Behenic alcohol	166292	000661-19-8	76.00



Library Search Compound Report

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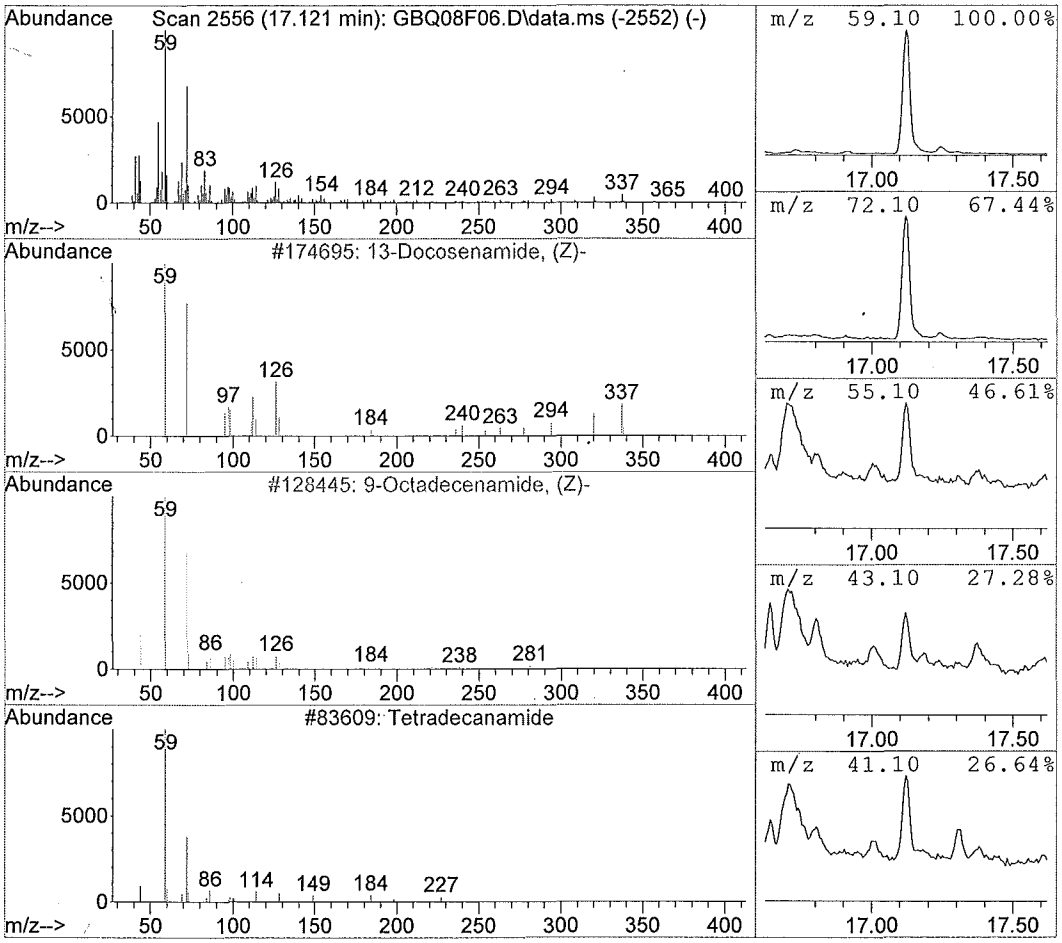
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	3.73 ug/ml	601322	Perylene-d12	3223428

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174695	000112-84-5	95.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Tetradecanamide	83609	000638-58-4	64.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	59.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



Library Search Compound Report

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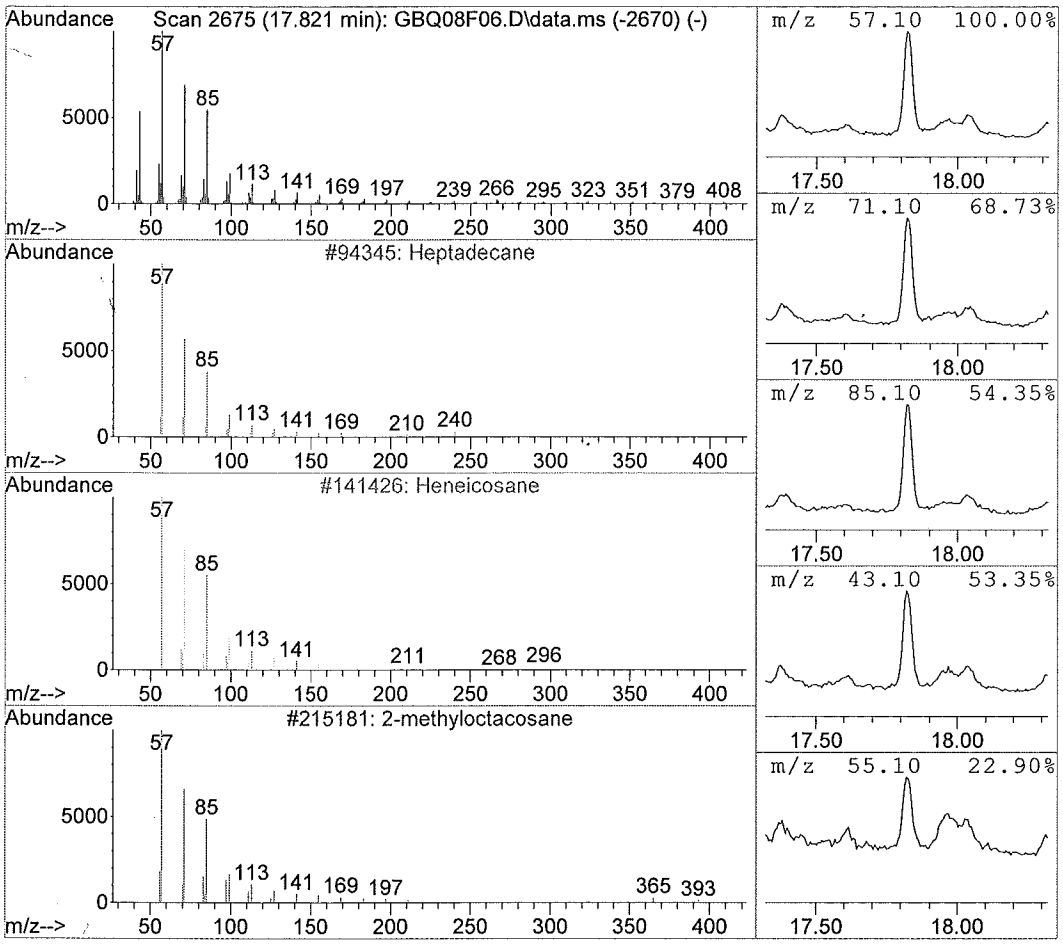
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.82	5.25 ug/ml	846830	Perylene-d12	3223428

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane SA	94345	000629-78-7	94.00
2	Heneicosane	141426	000629-94-7	90.00
3	2-methyloctacosane	215181	1000376-72-8	90.00
4	Dodecane, 4,9-dipropyl-	105902	003054-63-5	90.00
5	Heptadecane, 9-octyl-	185535	007225-64-1	90.00



Library Search Compound Report

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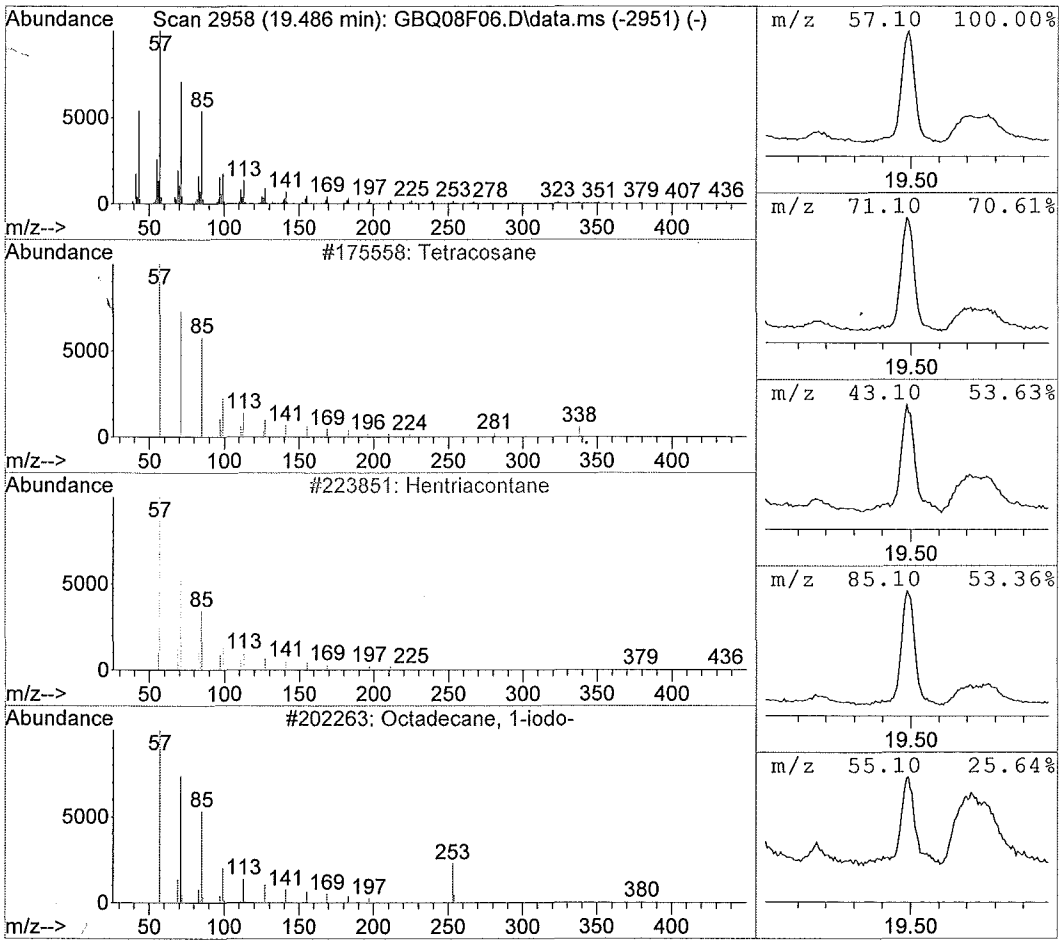
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	6.94 ug/ml	1117767	Perylene-d12	3223428

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	175558	000646-31-1	96.00
2	Hentriacontane	223851	000630-04-6	95.00
3	Octadecane, 1-iodo-	202263	000629-93-6	93.00
4	Tricosane, 2-methyl-	175565	001928-30-9	93.00
5	Octacosane	209566	000630-02-4	90.00

SA



Library Search Compound Report

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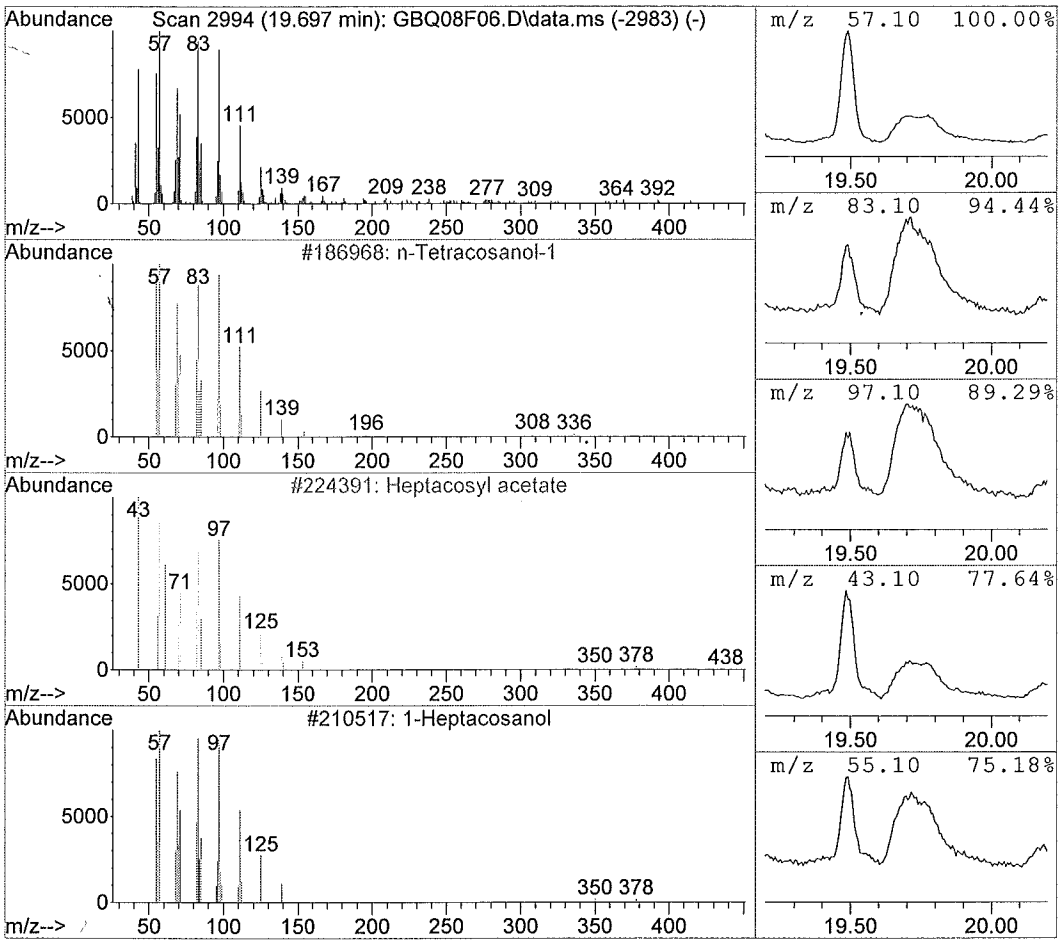
Acq On : 06/16/2015 21:50 Operator: SY
Sample : 1515552006 F9M44 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.70	2.88 ug/ml	463918	Perylene-d12	3223428

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Tetracosanol-1	186968	000506-51-4	95.00
2	Heptacosyl acetate	224391	1000351-78-2	94.00
3	1-Heptacosanol	210517	002004-39-9	94.00
4	Octacosanol	215904	000557-61-9	94.00
5	Octacosyl acetate	227661	018206-97-8	94.00



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

EPA SAMPLE NO.: F9M45

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552007
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBQ09F07
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015
GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

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

EPA SAMPLE NO.

F9M45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBQ09F07

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9M45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBQ09F07

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.40	140	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	110	JB
03		Unknown Guanidine	3.59	4500	J
04		Unknown 2(5H)-Furanone, 5,5-dimethyl-	4.36	380	J
05	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	4.77	86.	JN
06		Unknown 2H-Pyran-2-one, 6-heptyltetrahydro-	5.06	92.	J
07		Unknown Hydroxylamine, O-(3-methylbutyl)-	5.18	210	J
08	57-10-3	n-Hexadecanoic acid	12.77	110	JN
09	629-54-9	Hexadecanamide	14.26	220	JNB
10	301-02-0	9-Octadecenamide, (Z)-	15.17	1800	JNB
11		Unknown cis-9,10-Epoxyoctadecanamide	15.96	100	J
12		Unknown 1,5-Hexadiene, 2,5-dipropyl-	16.32	170	J
13	112-84-5	13-Docosenamide, (Z)-	17.12	570	JN
14		Unknown Phthalic anhydride	18.82	120	J
15	661-19-8	Behenic alcohol	19.70	120	JN
16		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	21.53	220	J
17		Unknown Phthalic anhydride	23.68	130	J
18		Unknown Stigmast-4-en-3-one	24.62	170	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1100	J

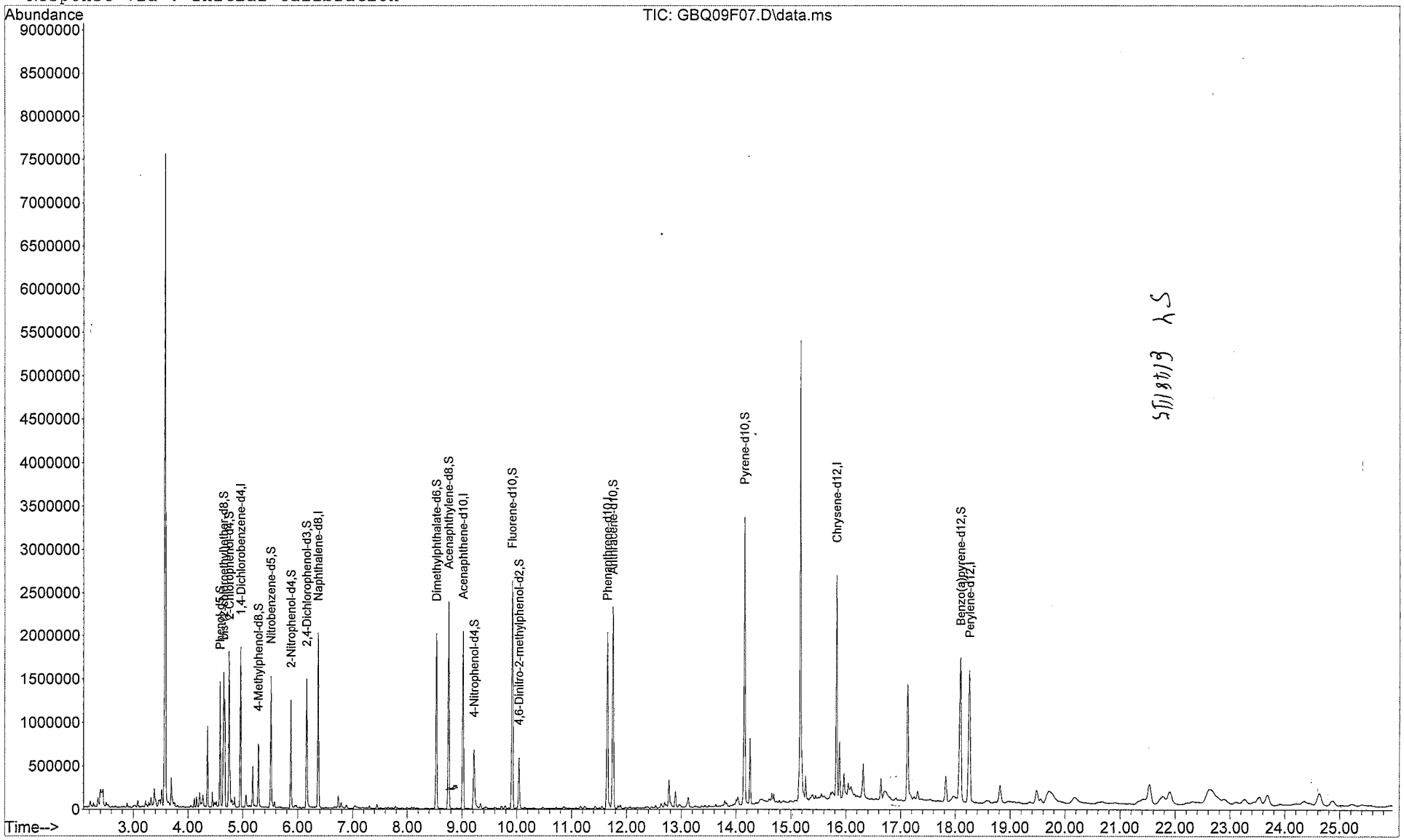
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 11:33:31 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



SY 6/18/15

GBQ09F07.D GSOM01D4.M Thu Jun 18 11:38:12 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:33:31 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	318407	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1226952	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	713188	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1192571	20.00 ug/ml
73) Chrysene-d12	15.83	240	1175820	20.00 ug/ml
81) Perylene-d12	18.26	264	1134750	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	567258	25.548ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	328765	24.182ug/mL
7) 2-Chlorophenol-d4	4.75	132	559546	25.667ug/ml
13) 4-Methylphenol-d8	5.28	113	200968	11.625ug/mL
17) Nitrobenzene-d5	5.51	128	286615	27.842ug/ml
21) 2-Nitrophenol-d4	5.87	143	322146	28.081ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	417680	24.853ug/mL
28) 4-Chloroaniline-d4	6.46	131	1516	0.083ug/mL
42) Dimethylphthalate-d6	8.53	166	1263811	29.138ug/mL
45) Acenaphthylene-d8	8.76	160	1545850	26.706ug/mL
50) 4-Nitrophenol-d4	9.22	143	269196	29.146ug/mL
57) Fluorene-d10	9.92	176	1069559	28.391ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	154782	19.759ug/mL
69) Anthracene-d10	11.75	188	1509064	25.015ug/mL
75) Pyrene-d10	14.16	212	1469545	27.491ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1245172	24.191ug/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)

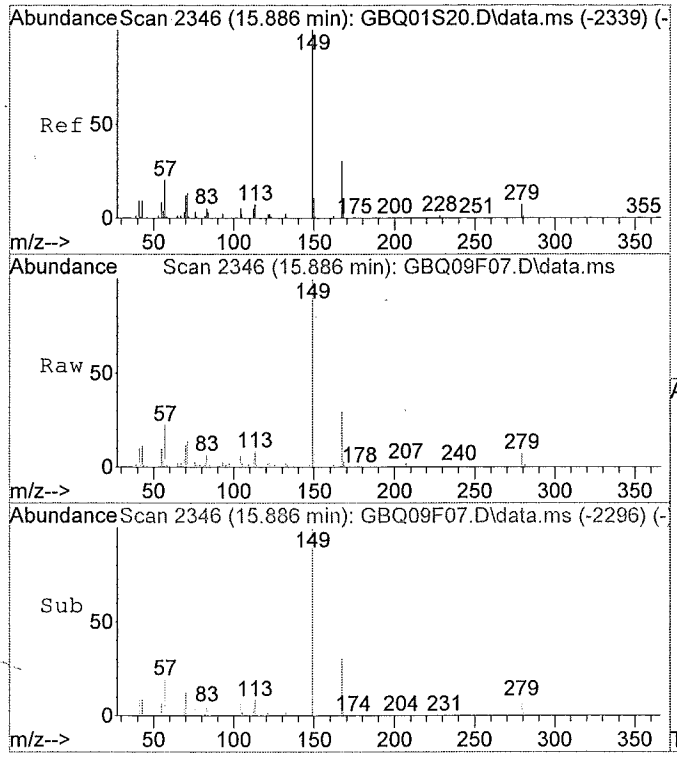
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:33:31 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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	270430	4.765ug/ml	98
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	

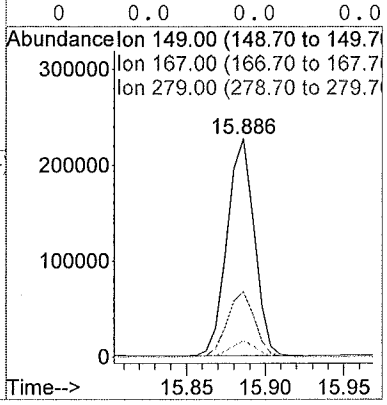
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 4.77 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBQ09F07.D
Acq: 06/16/2015 22:22

Tgt Ion:149 Resp: 270430

Ion	Ratio	Lower	Upper
149	100		
167	29.9	22.0	40.8
279	7.1	5.0	9.2
0	0.0	0.0	0.0



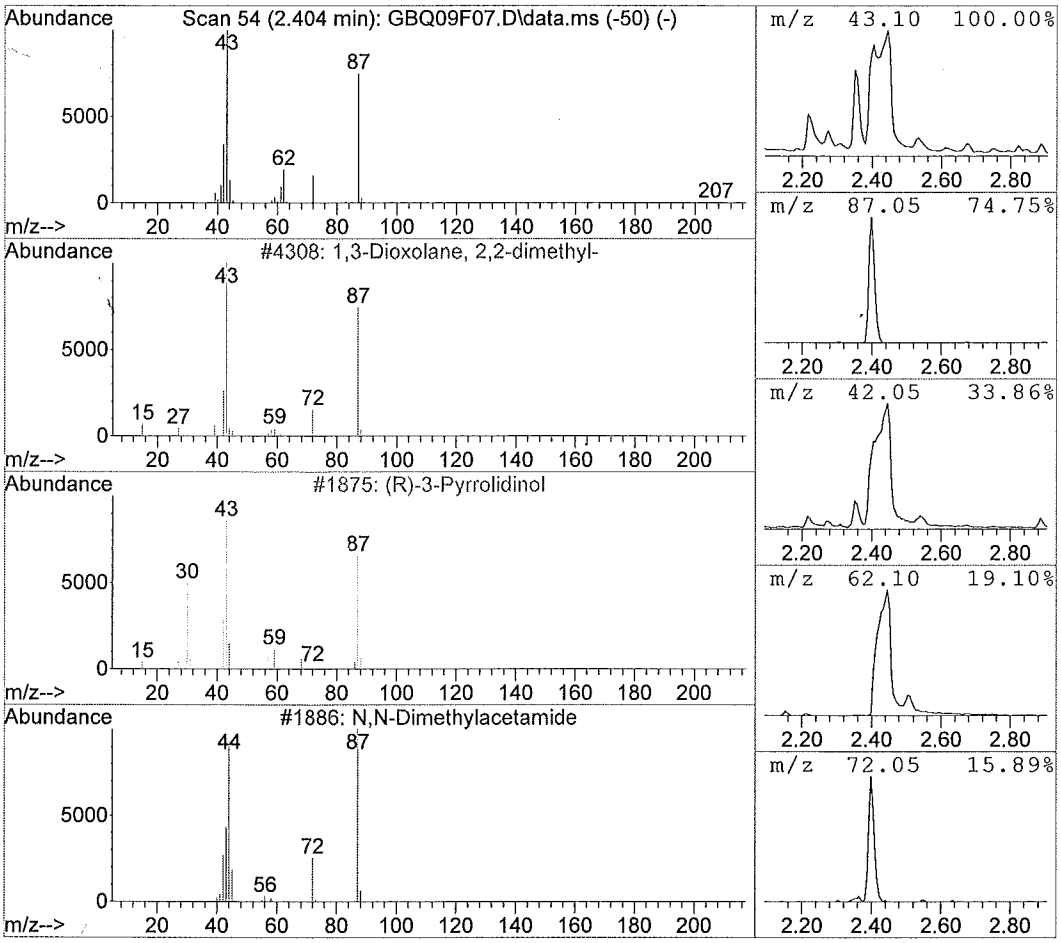
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.40	3.65 ug/ml	322495	1,4-Dichlorobenzene-d4	1765876

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	25.00
2	(R)-3-Pyrrolidinol	1875	002799-21-5	25.00
3	N,N-Dimethylacetamide	1886	000127-19-5	17.00
4	2-Propanone, O-methyloxime	1895	003376-35-0	9.00
5	1,3-Diamino-2-propanol	2240	000616-29-5	9.00



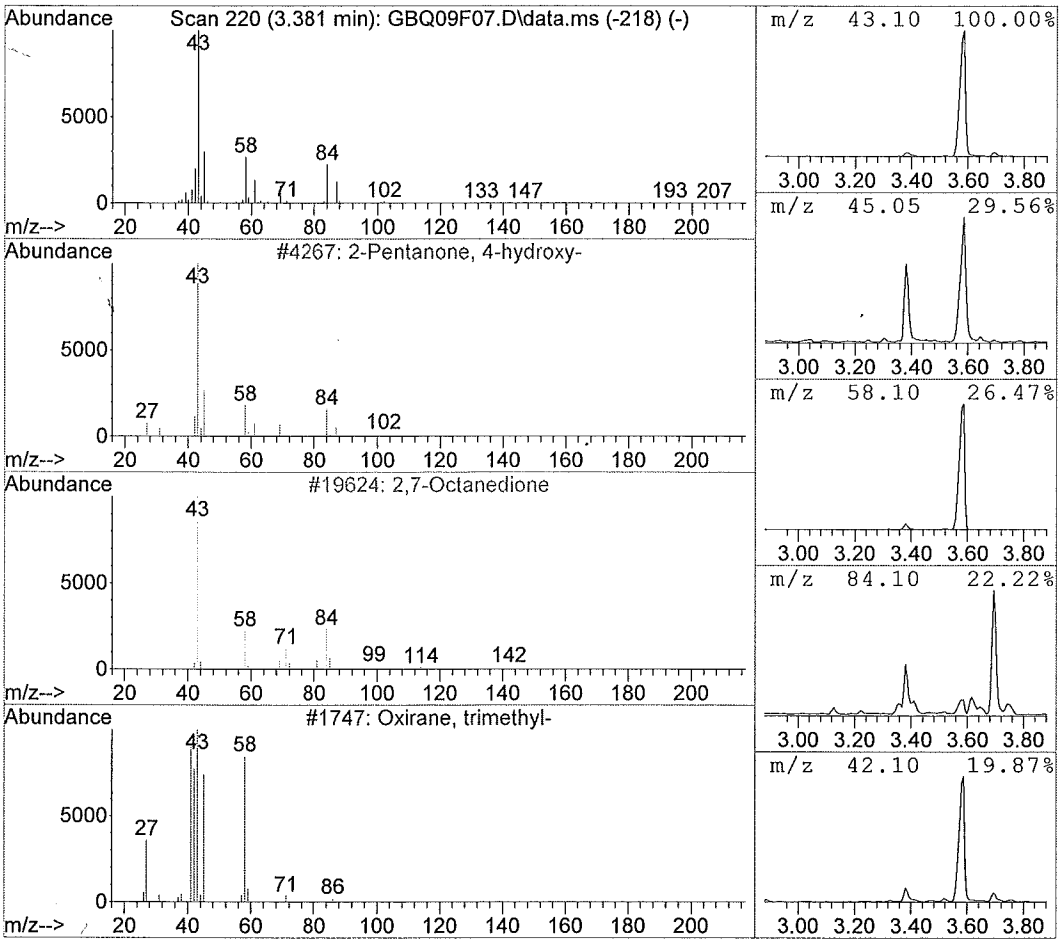
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	2.72 ug/ml	239745	1,4-Dichlorobenzene-d4	1765876

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	56.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Oxirane, trimethyl-	1747	005076-19-7	23.00
4	1-Butoxy-2-propanol acetate	41628	085409-76-3	17.00
5	Acetone	213	000067-64-1	9.00



Library Search Compound Report

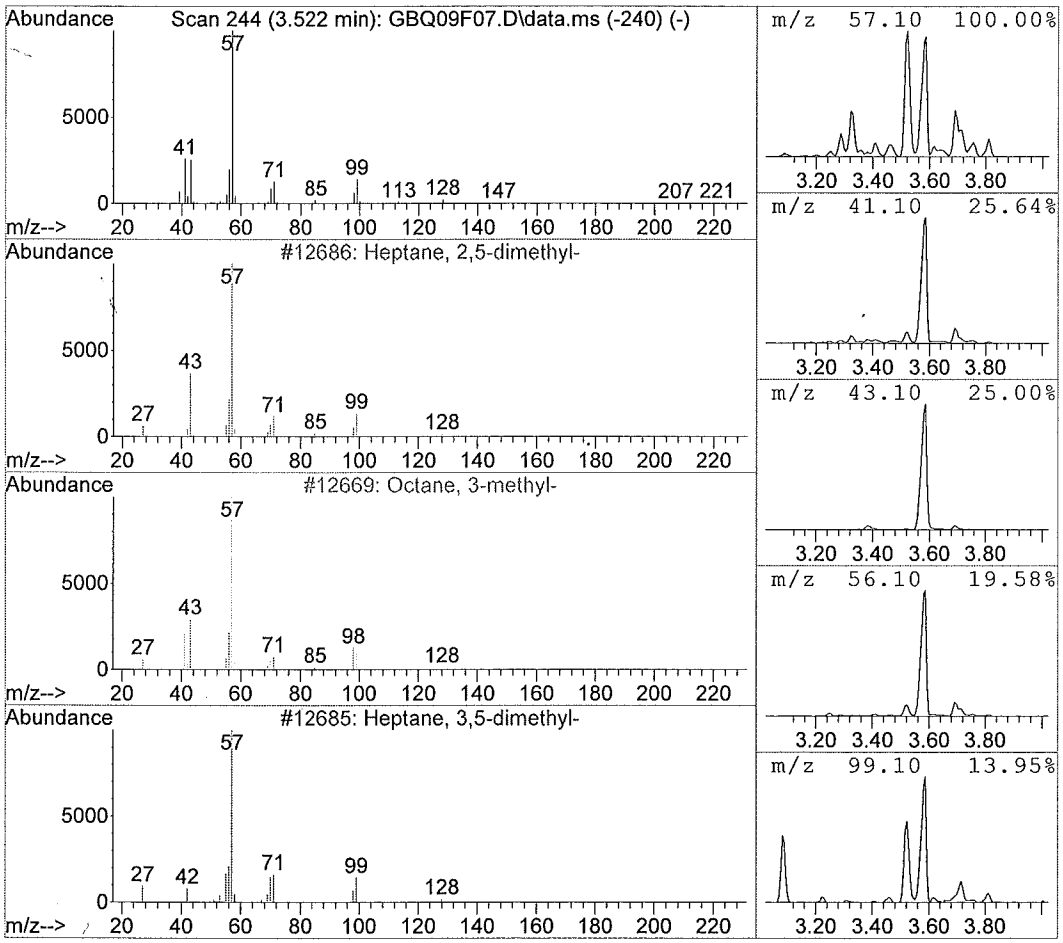
Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.62 ug/ml	230974	1,4-Dichlorobenzene-d4	1765876

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,5-dimethyl-	12686	002216-30-0	91.00
2	Octane, 3-methyl-	12669	002216-33-3	90.00
3	Heptane, 3,5-dimethyl-	12685	000926-82-9	72.00
4	Decane, 2,5-dimethyl-	38348	017312-50-4	72.00
5	Heptane, 2,3,5-trimethyl-	19206	020278-85-7	53.00

βA



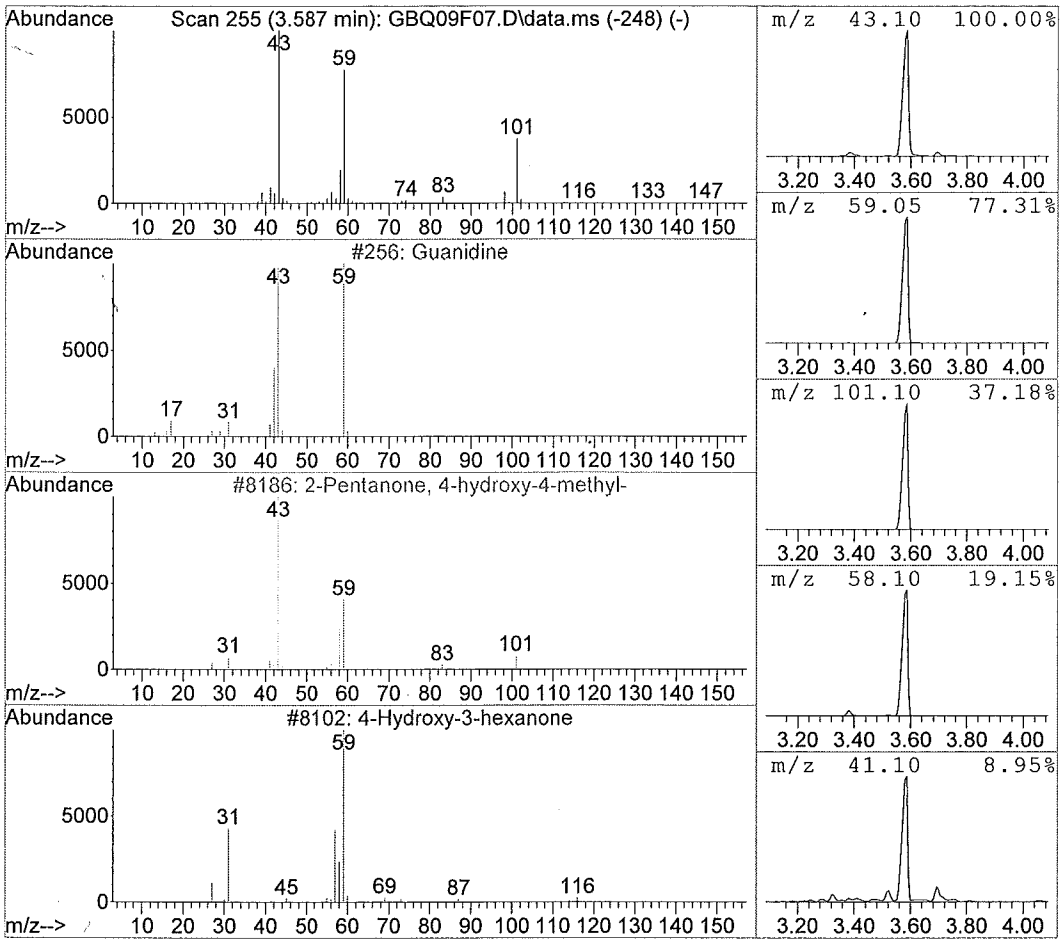
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	113.23 ug/ml	9997356	1,4-Dichlorobenzene-d4	1765876

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	50.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	45.00
3	4-Hydroxy-3-hexanone	8102	004984-85-4	33.00
4	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
5	3-Hydroxy-3-methyl-2-butanone	4324	000115-22-0	25.00



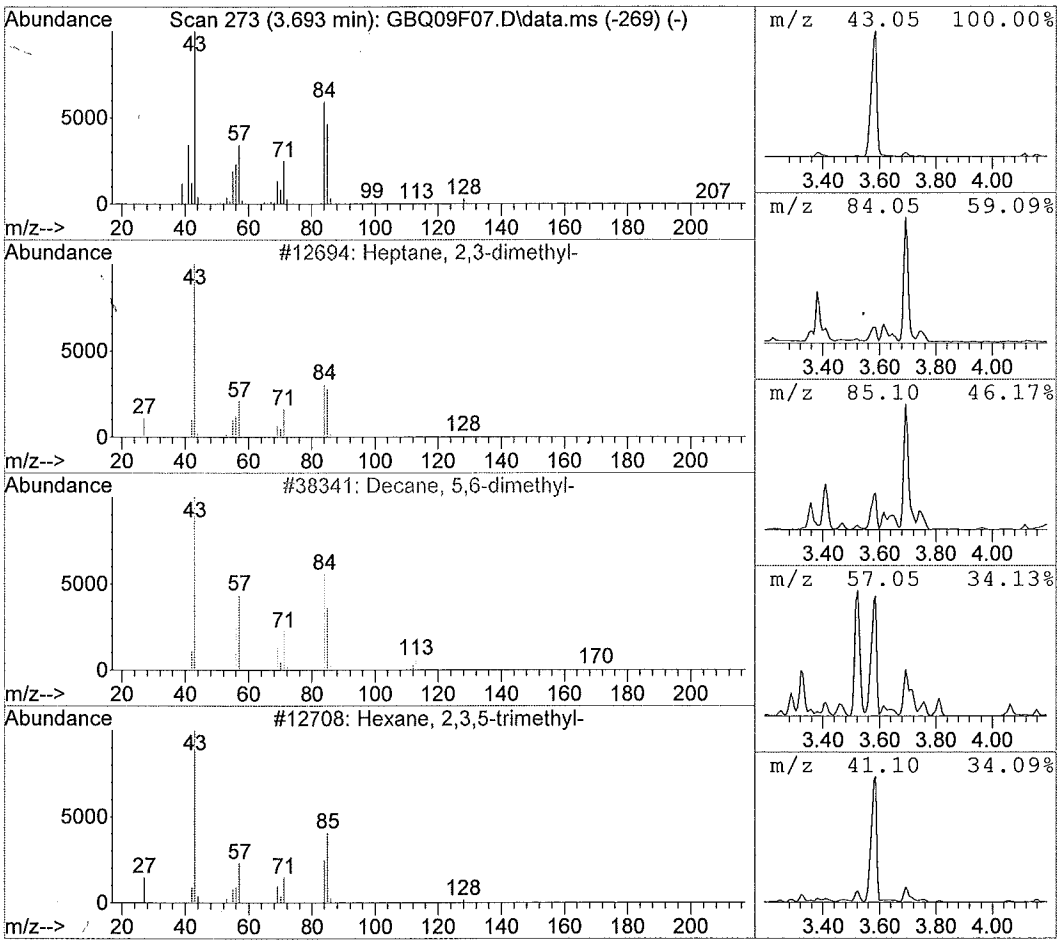
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	4.90 ug/ml	432357	1,4-Dichlorobenzene-d4	1765876

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl- BA	12694	003074-71-3	83.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	72.00
3	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	64.00
4	Hexanal, 3,3-dimethyl-	12523	055320-57-5	59.00
5	Hexane, 2,3,4-trimethyl-	12714	000921-47-1	53.00



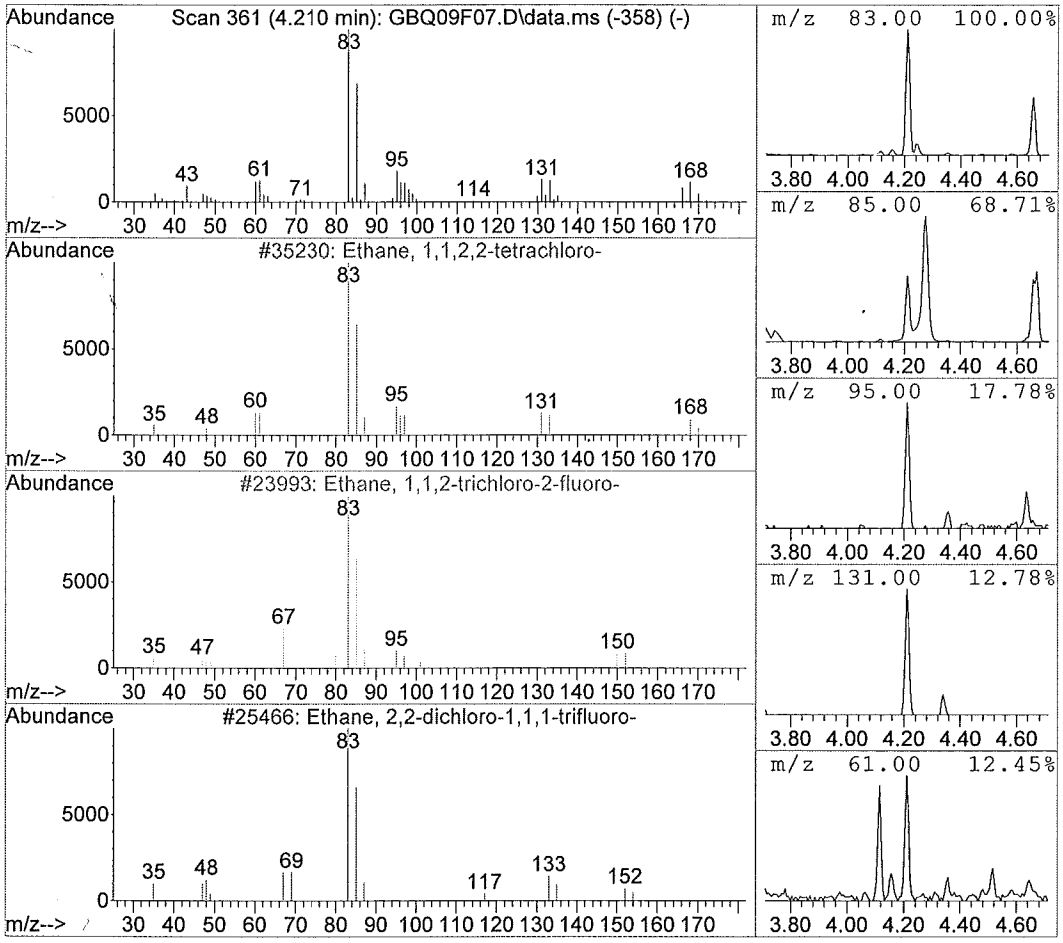
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.19 ug/ml	193114	1,4-Dichlorobenzene-d4	1765876

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	98.00
2	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
3	Ethane, 2,2-dichloro-1,1,1-trifluor	25466	000306-83-2	50.00
4	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	50.00
5	Trichloromethane	8989	000067-66-3	47.00



Library Search Compound Report

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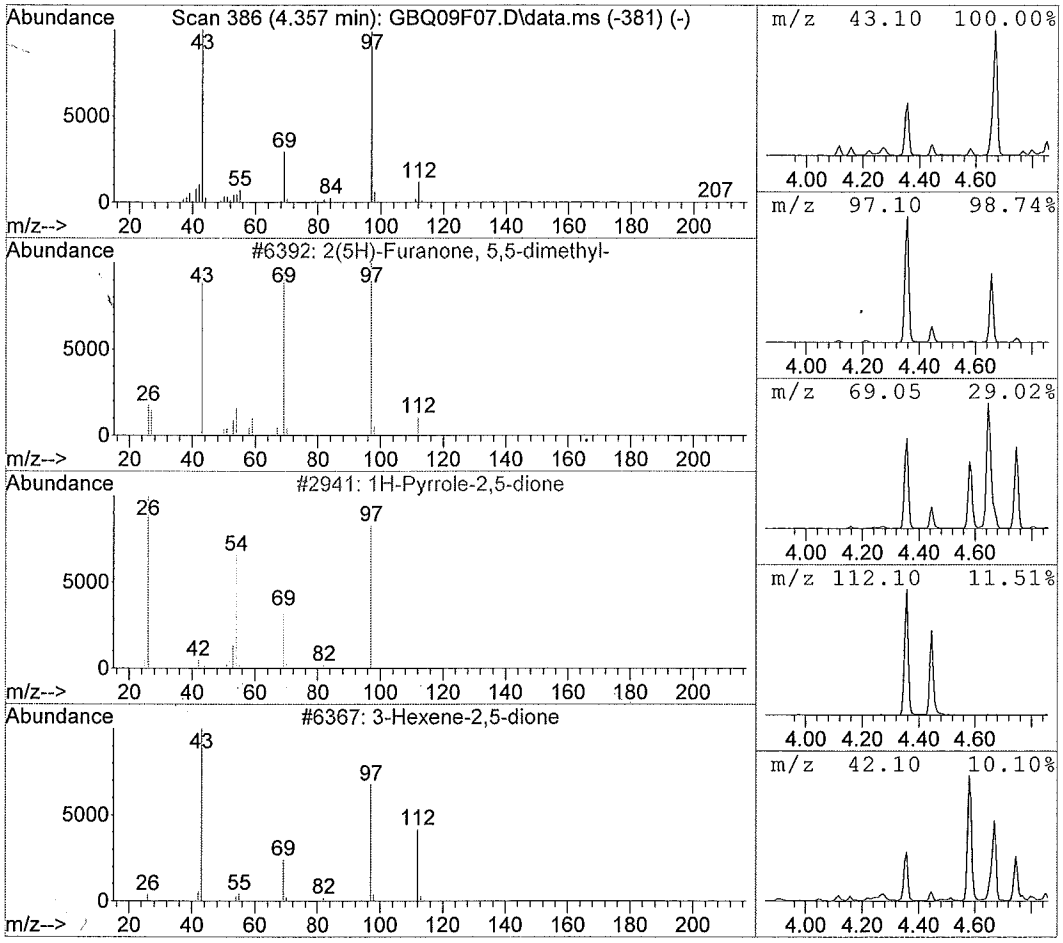
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.36	9.60 ug/ml	848011	1,4-Dichlorobenzene-d4	1765876

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	50.00
2	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
3	3-Hexene-2,5-dione	6367	004436-75-3	38.00
4	2-(Diethylamino)acetonitrile	6301	003010-02-4	12.00
5	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00



Library Search Compound Report

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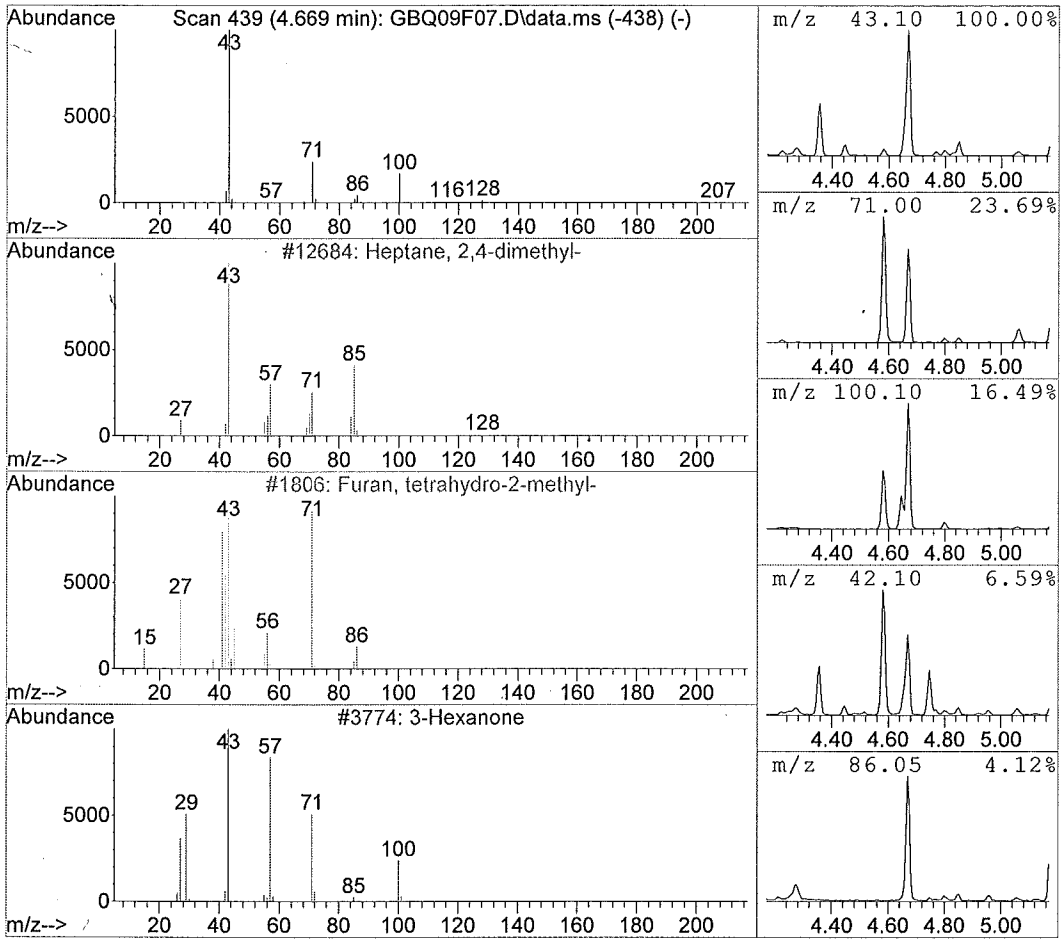
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.67	8.85 ug/ml	781610	1,4-Dichlorobenzene-d4	1765876

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl- BA	12684	002213-23-2	45.00
2	Furan, tetrahydro-2-methyl-	1806	000096-47-9	9.00
3	3-Hexanone	3774	000589-38-8	9.00
4	Acetic acid, (3-methylbutoxy)-, 2-p	49899	067634-00-8	9.00
5	Octane, 2-methyl-	12672	003221-61-2	7.00



Library Search Compound Report

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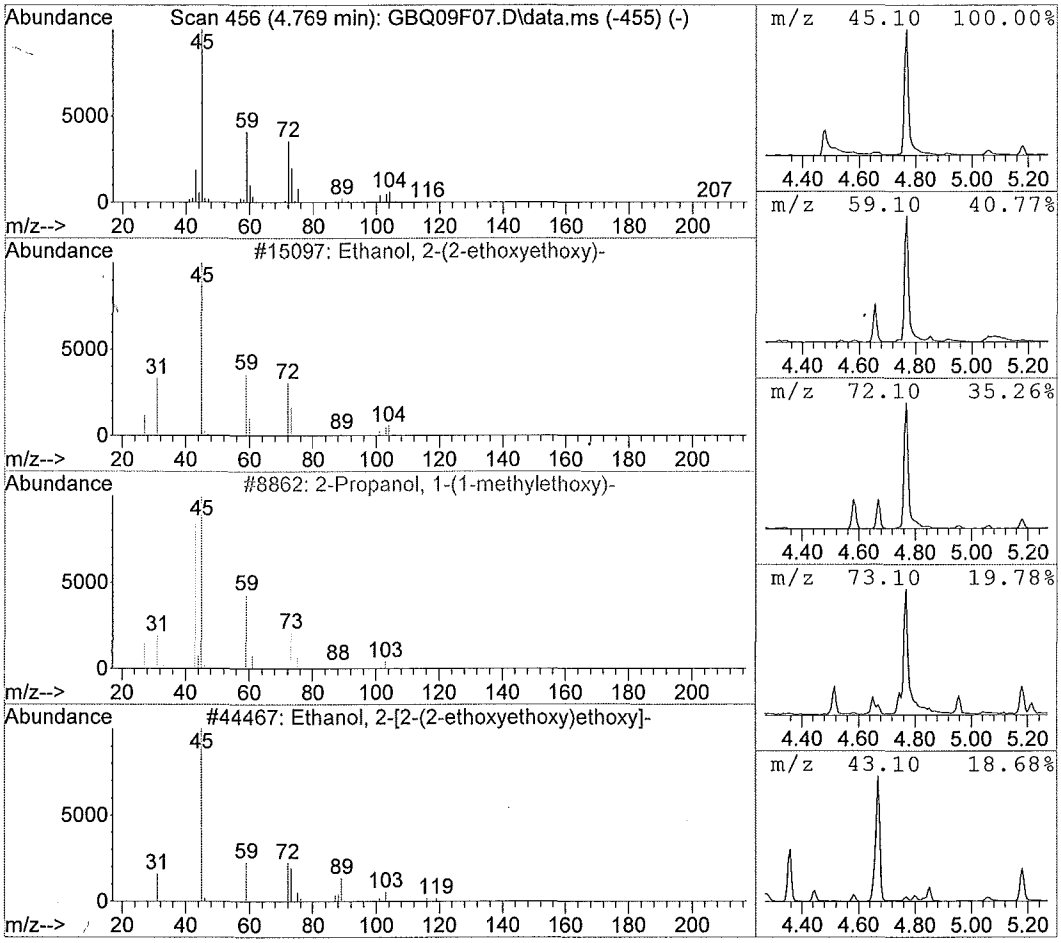
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	2.18 ug/ml	192306	1,4-Dichlorobenzene-d4	1765876

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15097	000111-90-0	90.00
2	2-Propanol, 1-(1-methylethoxy)-	8862	003944-36-3	45.00
3	Ethanol, 2-[2-(2-ethoxyethoxy)ethox	44467	000112-50-5	45.00
4	Diethyl carbitol	32643	000112-36-7	45.00
5	Butanoic acid, 4-methoxy-	8694	029006-02-8	42.00



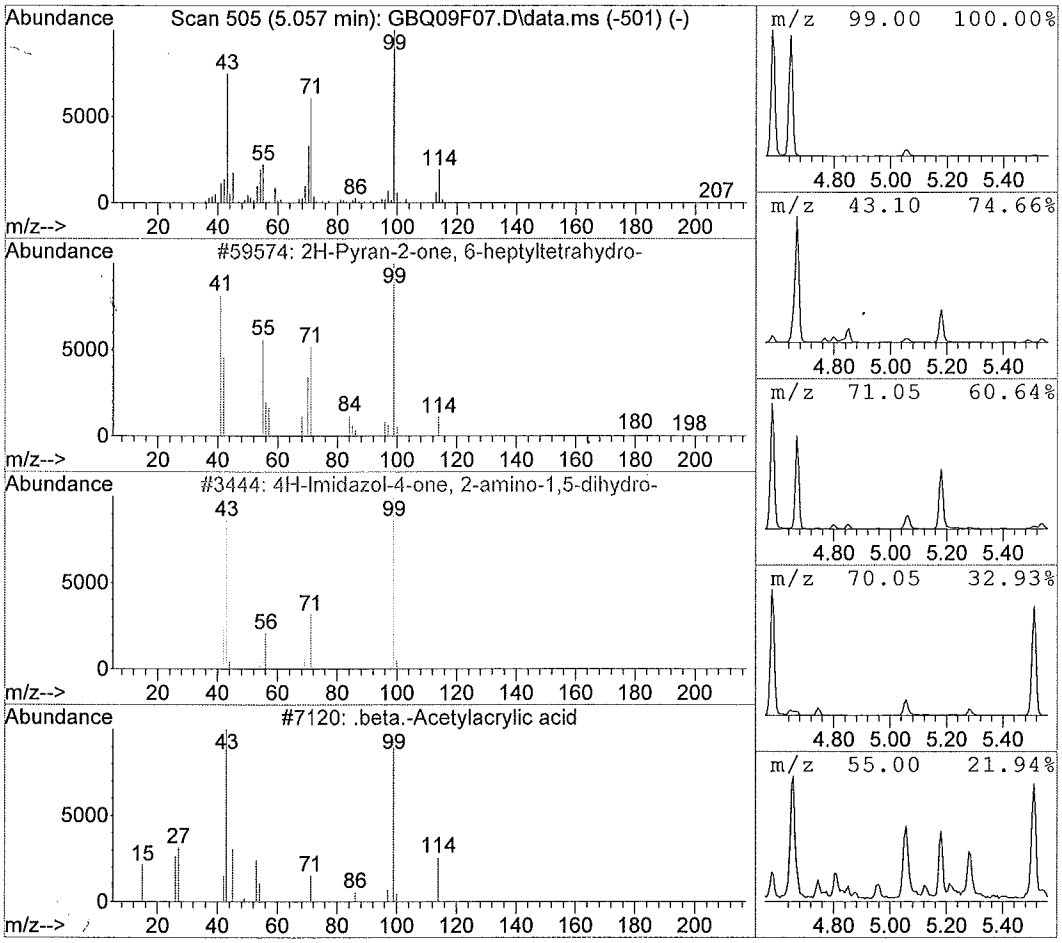
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.06	2.32 ug/ml	204774	1,4-Dichlorobenzene-d4	1765876

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Pyran-2-one, 6-heptyltetrahydro-	59574	000713-95-1	64.00
2	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	58.00
3	.beta.-Acetylacrylic acid	7120	004743-82-2	47.00
4	Pyrrolidine-2,4-dione	3449	037772-89-7	47.00
5	4-Methylthiazole	3458	000693-95-8	43.00



Library Search Compound Report

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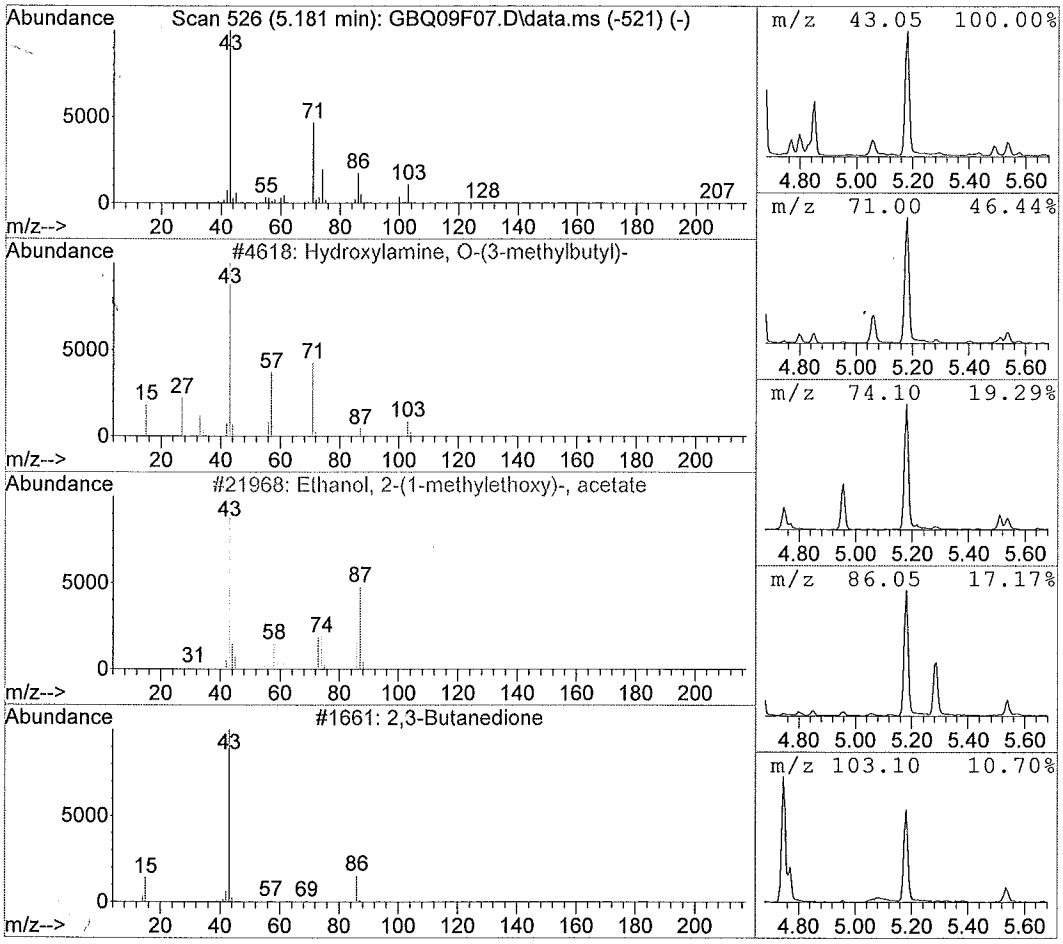
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.18	5.25 ug/ml	463440	1,4-Dichlorobenzene-d4	1765876

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	38.00
2	Ethanol, 2-(1-methylethoxy)-, aceta	21968	019234-20-9	25.00
3	2,3-Butanedione	1661	000431-03-8	10.00
4	2-Butanone, 3-methyl-	1769	000563-80-4	9.00
5	2-Pentanone	1710	000107-87-9	9.00



Library Search Compound Report

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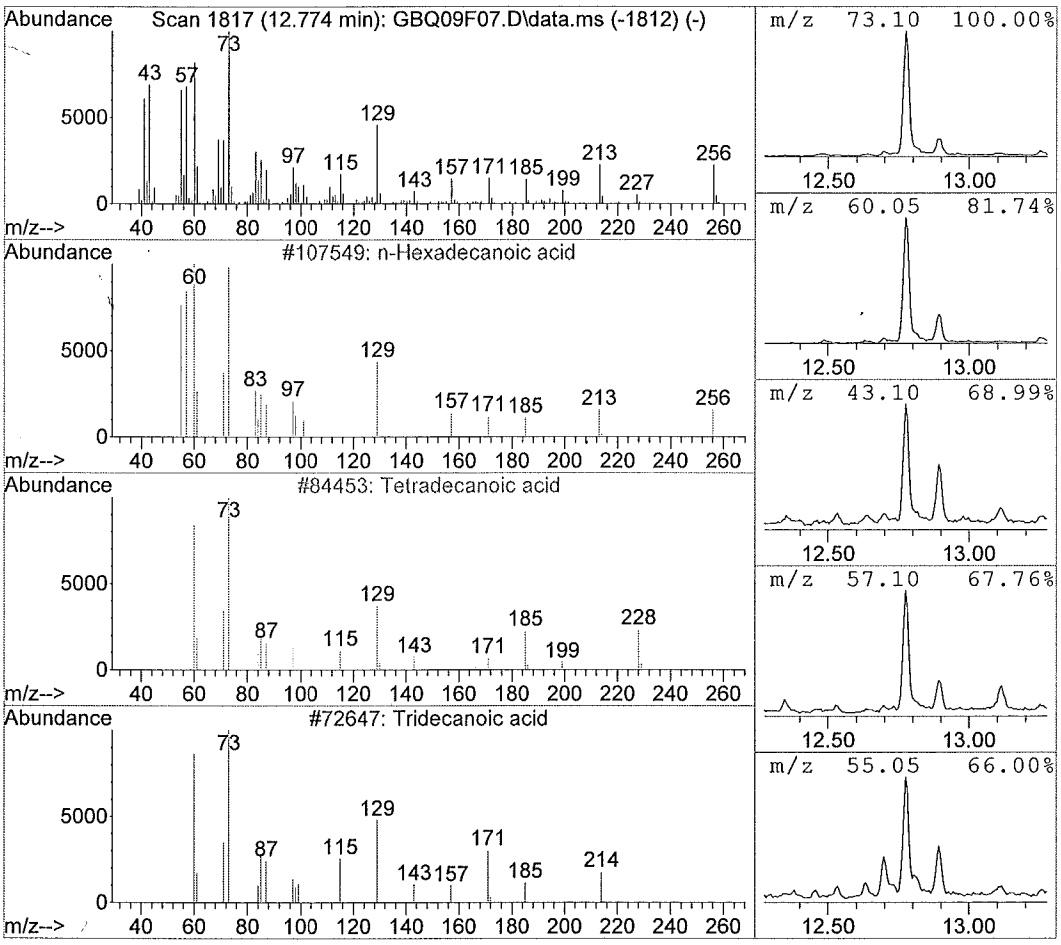
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.77	2.79 ug/ml	417453	Phenanthrene-d10	2988903

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tetradecanoic acid	84453	000544-63-8	93.00
3	Tridecanoic acid	72647	000638-53-9	93.00
4	Pentadecanoic acid	95851	001002-84-2	90.00
5	n-Decanoic acid	39474	000334-48-5	83.00



Library Search Compound Report

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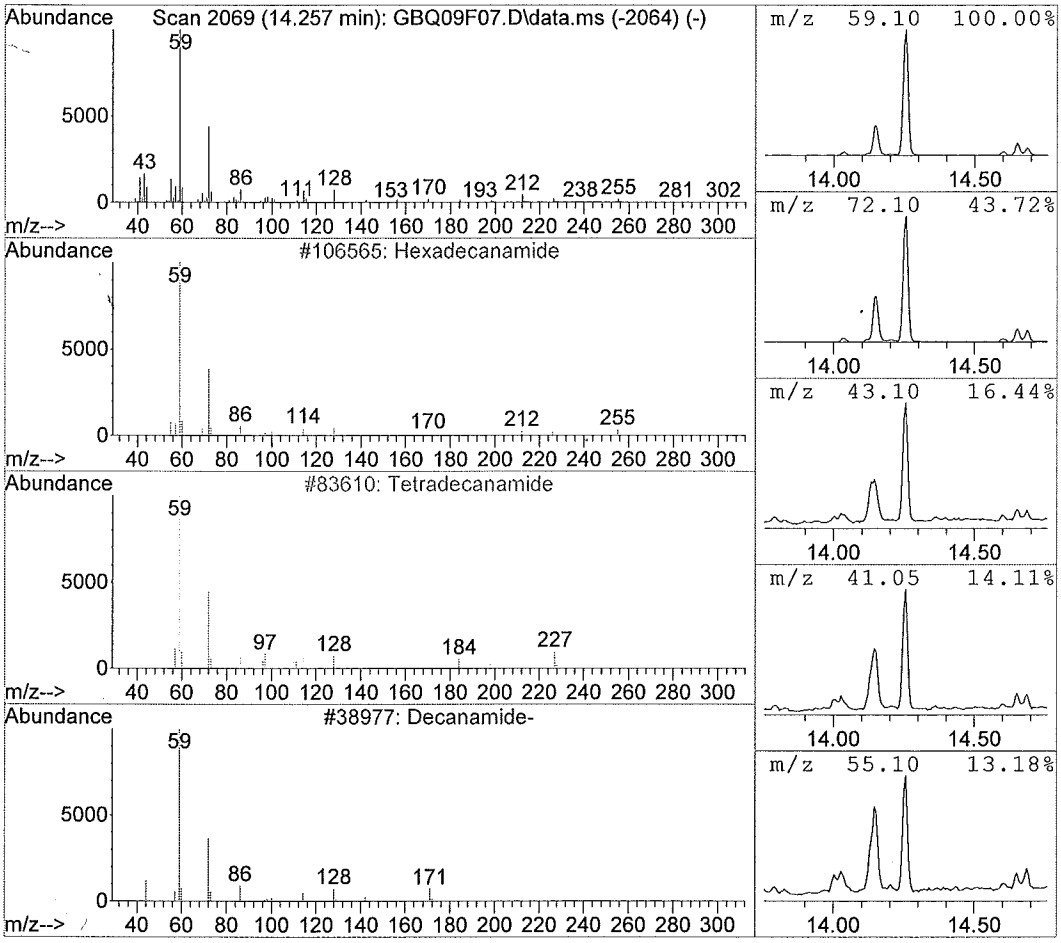
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	5.62 ug/ml	905700	Chrysene-d12	3225780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	95.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	80.00
4	Dodecanamide	60440	001120-16-7	64.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



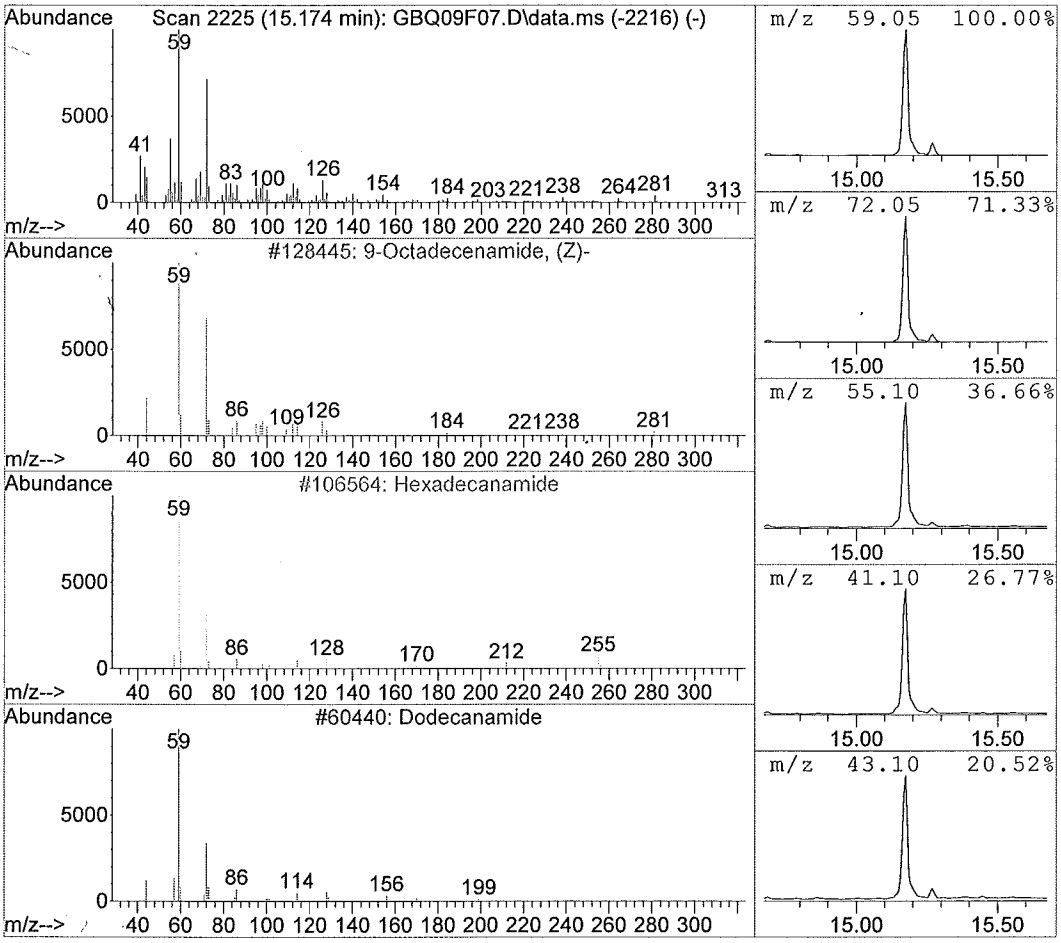
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	44.62 ug/ml	7196844	Chrysene-d12	3225780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Hexadecanamide	106564	000629-54-9	56.00
3	Dodecanamide	60440	001120-16-7	53.00
4	Octanamide	20317	000629-01-6	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



Library Search Compound Report

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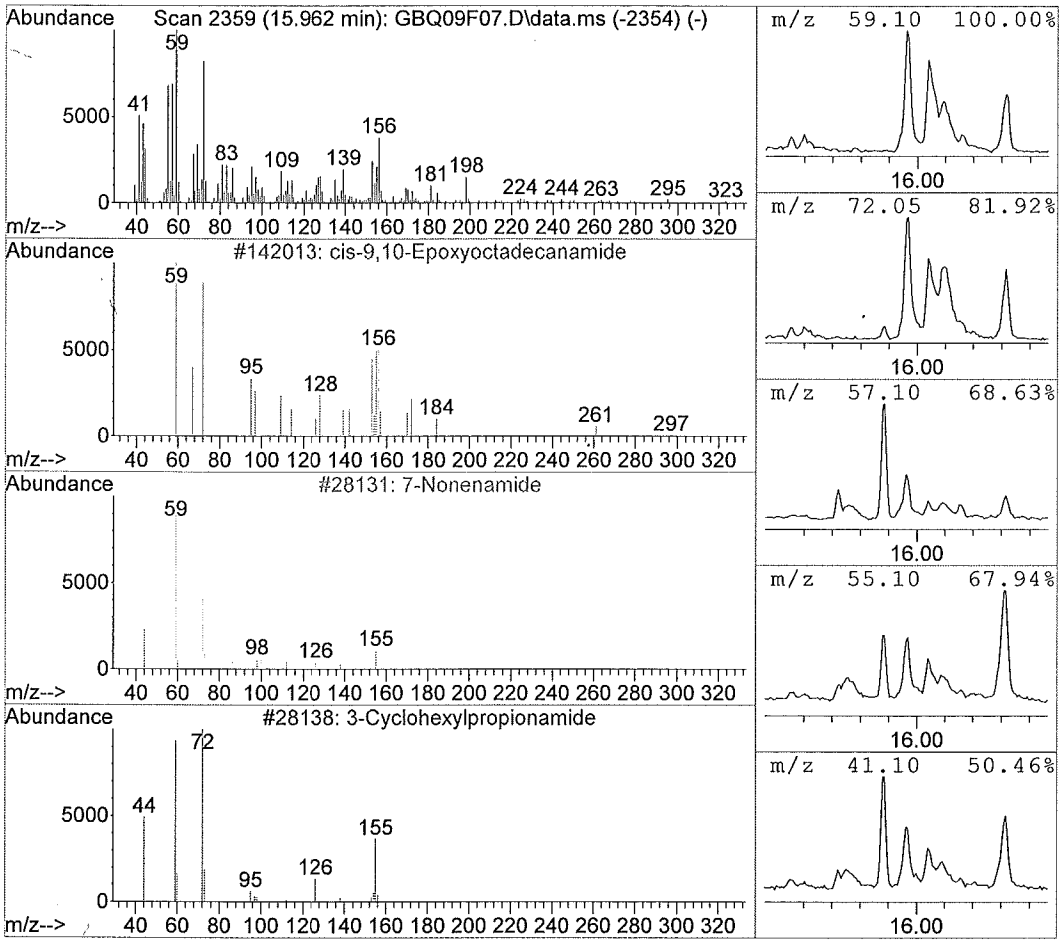
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.63 ug/ml	424704	Chrysene-d12	3225780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	72.00
2	7-Nonenamide	28131	090949-53-4	45.00
3	3-Cyclohexylpropionamide	28138	004361-29-9	43.00
4	9-Octadecenamide, (Z)-	128445	000301-02-0	43.00
5	Tetradecanamide	83610	000638-58-4	35.00



Library Search Compound Report

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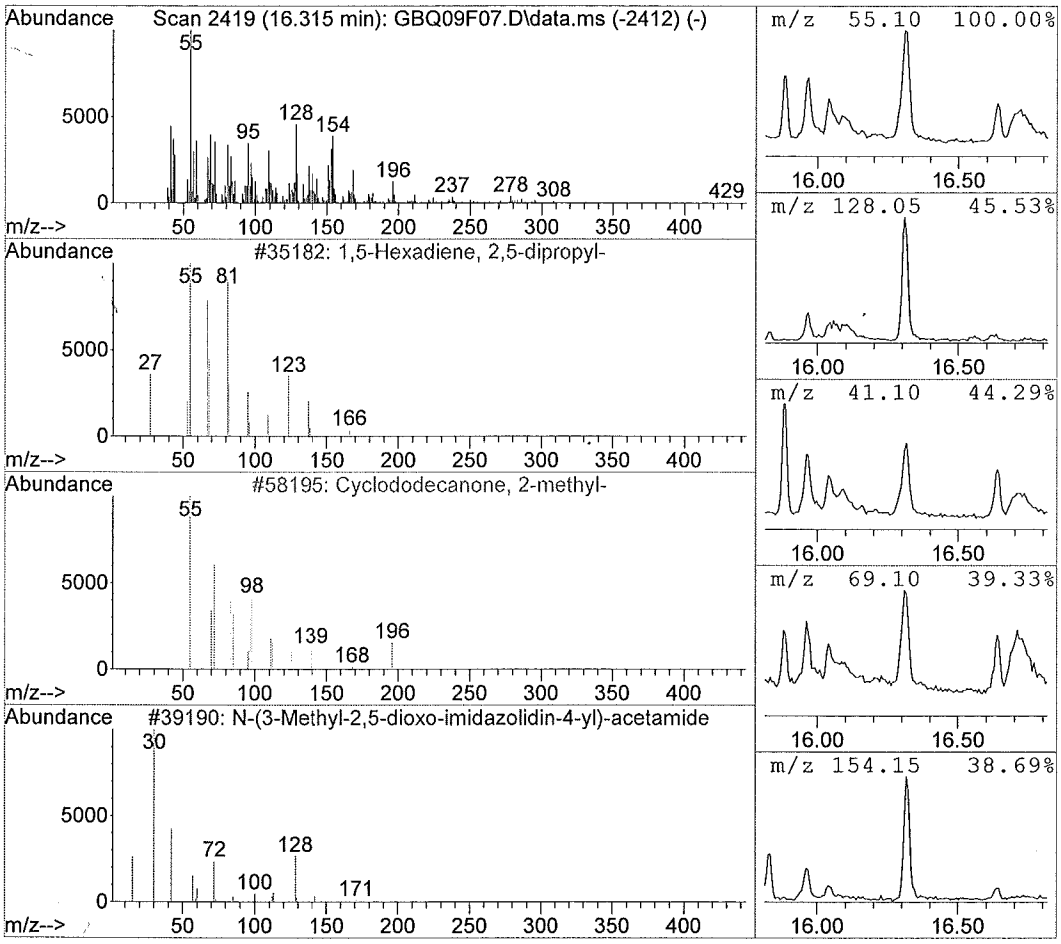
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.32	4.32 ug/ml	697156	Chrysene-d12	3225780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
2	Cyclododecanone, 2-methyl-	58195	016837-94-8	11.00
3	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	11.00
4	2,6-Decadienoic acid, 3-methyl-, et	69363	055283-34-6	10.00
5	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	10.00



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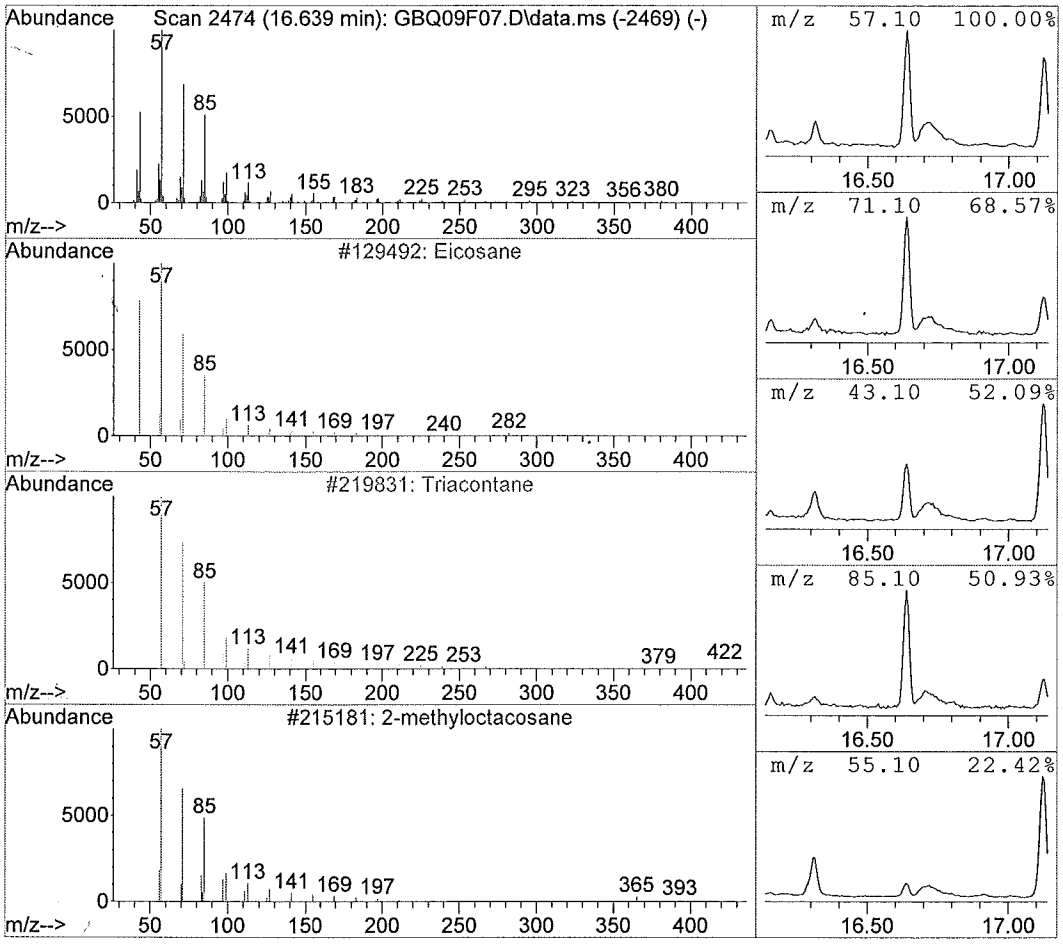
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.64	2.03 ug/ml	326909	Chrysene-d12	3225780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	129492	000112-95-8	97.00
2	Triacontane	219831	000638-68-6	90.00
3	2-methyloctacosane	215181	1000376-72-8	90.00
4	Hexacosane	194493	000630-01-3	90.00
5	Octadecane	105886	000593-45-3	90.00

SA



Library Search Compound Report

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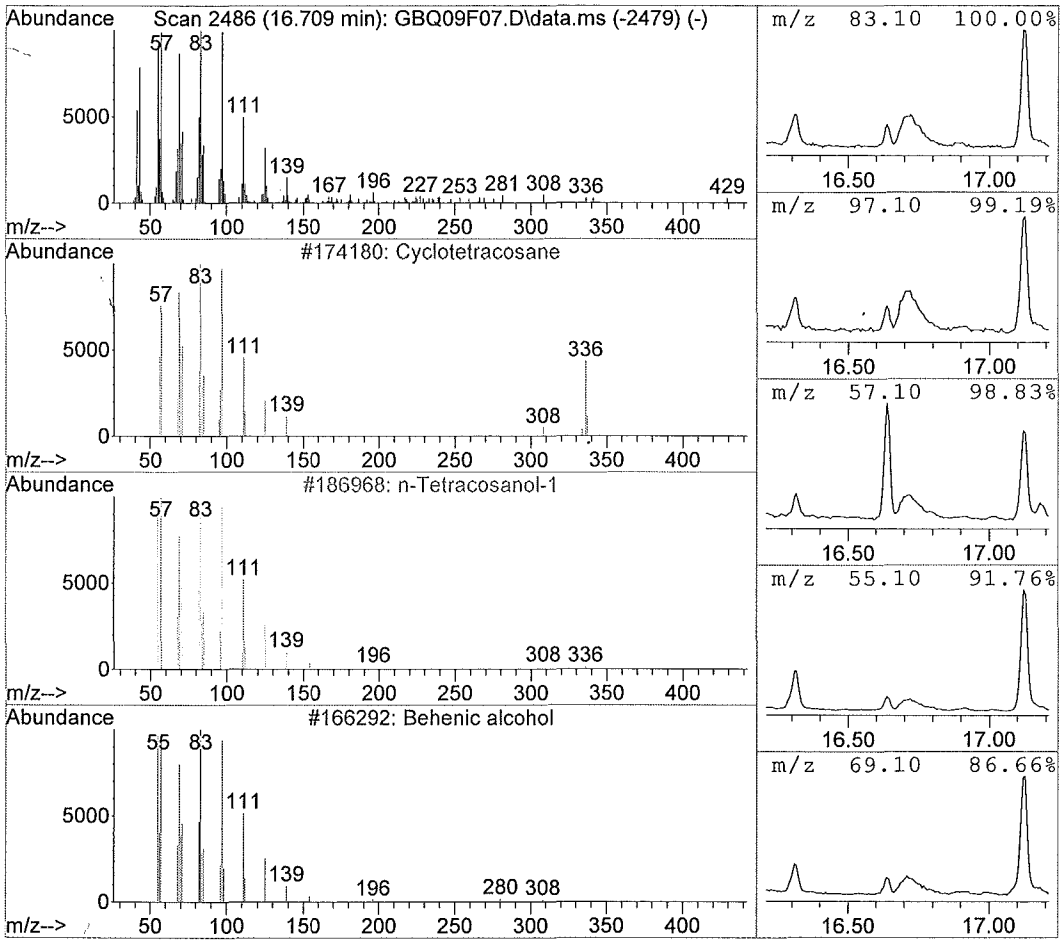
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.71	3.52 ug/ml	567692	Chrysene-d12	3225780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclotetracosane	174180	000297-03-0	95.00
2	n-Tetracosanol-1	186968	000506-51-4	94.00
3	Behenic alcohol	166292	000661-19-8	94.00
4	1-Heneicosanol	155046	015594-90-8	94.00
5	Z-5-Nonadecene	115907	1000131-11-8	91.00

CA



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Library Search Compound Report

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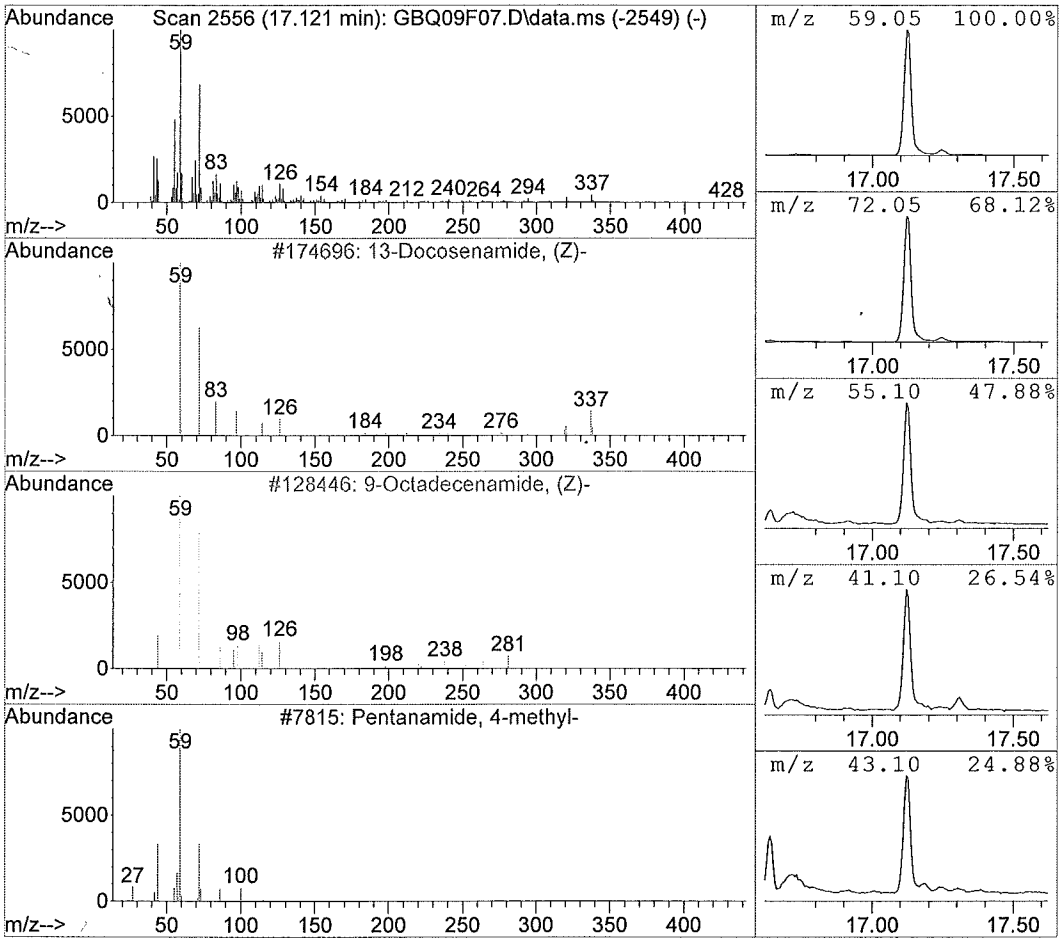
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	14.48 ug/ml	2458680	Perylene-d12	3397023

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	95.00
2	9-Octadecenamide, (Z)-	128446	000301-02-0	94.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	53.00
4	Dodecanamide	60440	001120-16-7	50.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00



Library Search Compound Report

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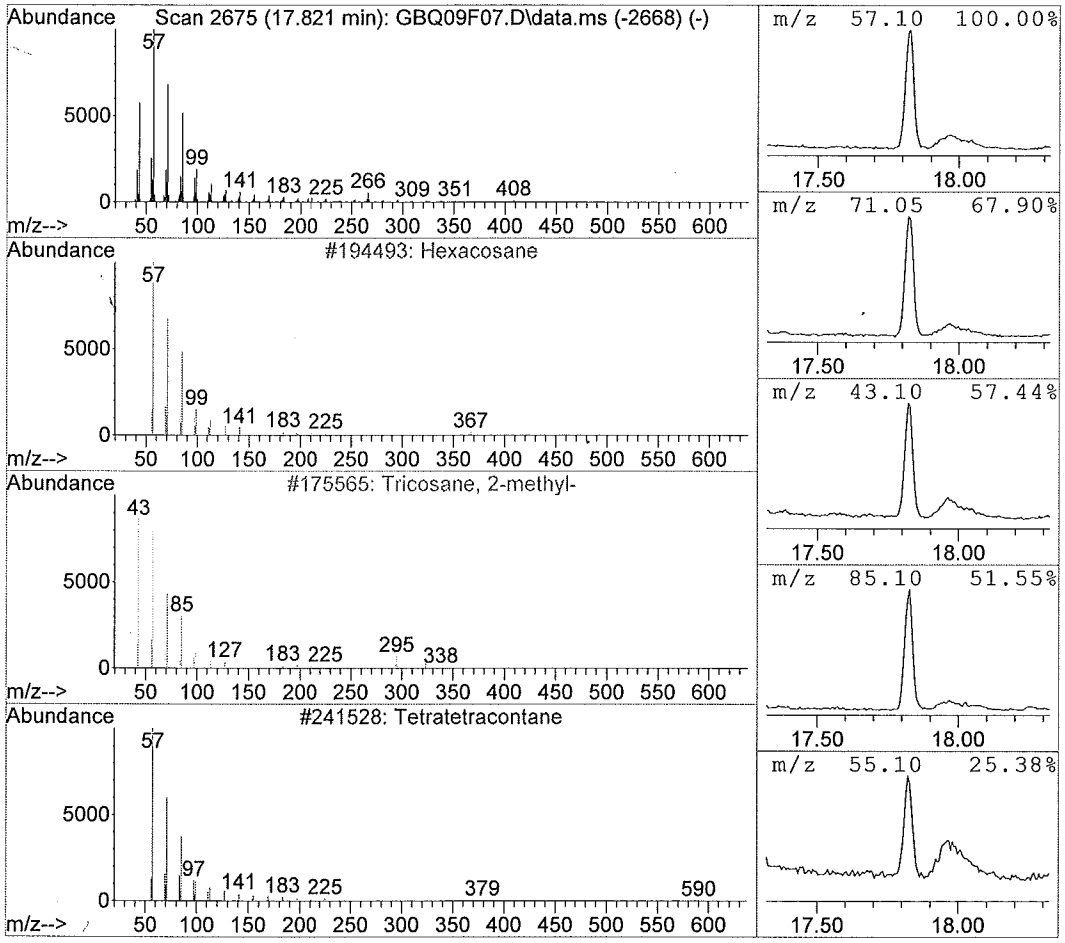
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.82	3.59 ug/ml	610556	Perylene-d12	3397023

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexacosane	194493	000630-01-3	93.00
2	Tricosane, 2-methyl-	175565	001928-30-9	93.00
3	Tetratetracontane	241528	007098-22-8	90.00
4	2-methyloctacosane	215181	1000376-72-8	90.00
5	Octacosane	209566	000630-02-4	90.00

5A



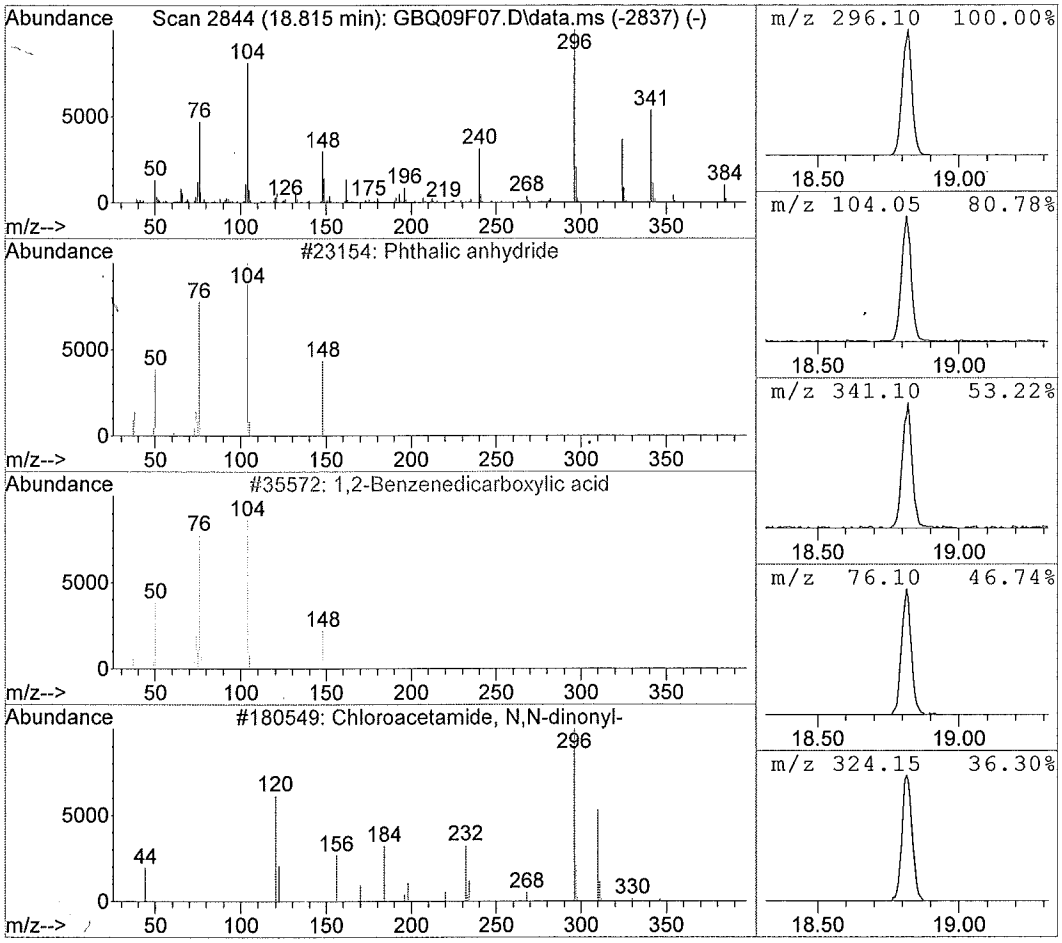
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.82	3.16 ug/ml	536788	Perylene-d12	3397023

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	1,2-Benzenedicarboxylic acid	35572	000088-99-3	27.00
3	Chloroacetamide, N,N-dinonyl-	180549	1000308-48-1	18.00
4	Cyclohept[b]indol-6(5H)-one, 2-cycl	141251	339284-86-5	14.00
5	Ninhydrin	44594	000485-47-2	12.00



Library Search Compound Report

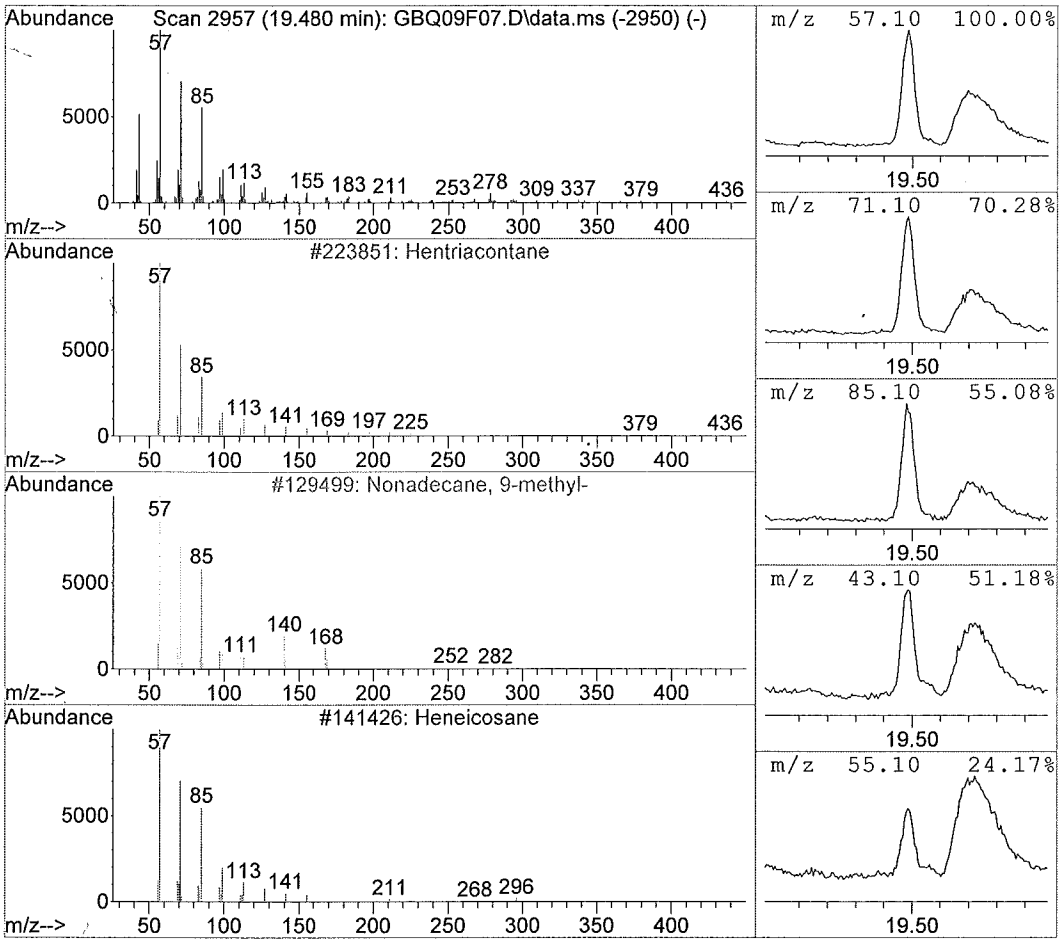
Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.48	2.32 ug/ml	393815	Perylene-d12	3397023

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	97.00
2	Nonadecane, 9-methyl-	129499	013287-24-6	93.00
3	Heneicosane	141426	000629-94-7	90.00
4	Hexacosane	194493	000630-01-3	90.00
5	2-methyloctacosane	215181	1000376-72-8	90.00

5A



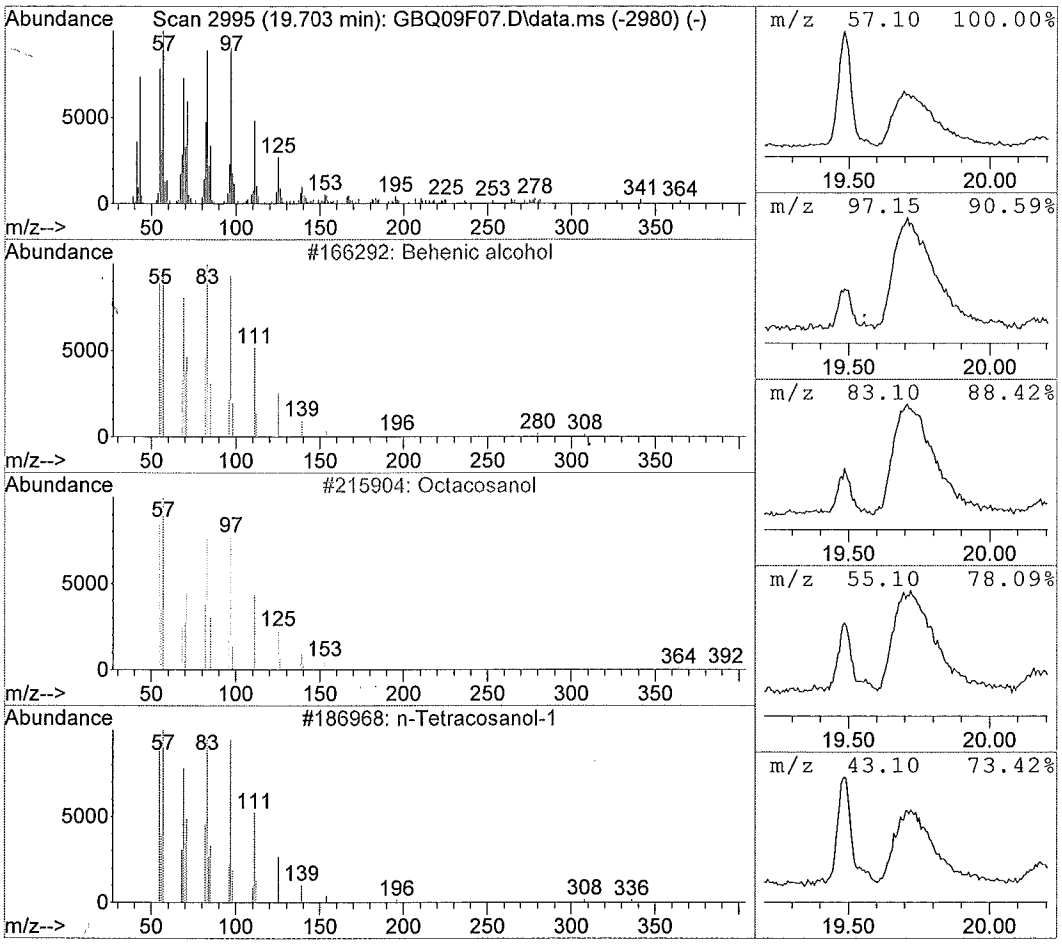
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.70	3.02 ug/ml	512822	Perylene-d12	3397023

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Behenic alcohol	166292	000661-19-8	95.00
2	Octacosanol	215904	000557-61-9	95.00
3	n-Tetracosanol-1	186968	000506-51-4	95.00
4	1-Heptacosanol	210517	002004-39-9	94.00
5	Nonadecyl trifluoroacetate	202424	1000351-76-3	94.00



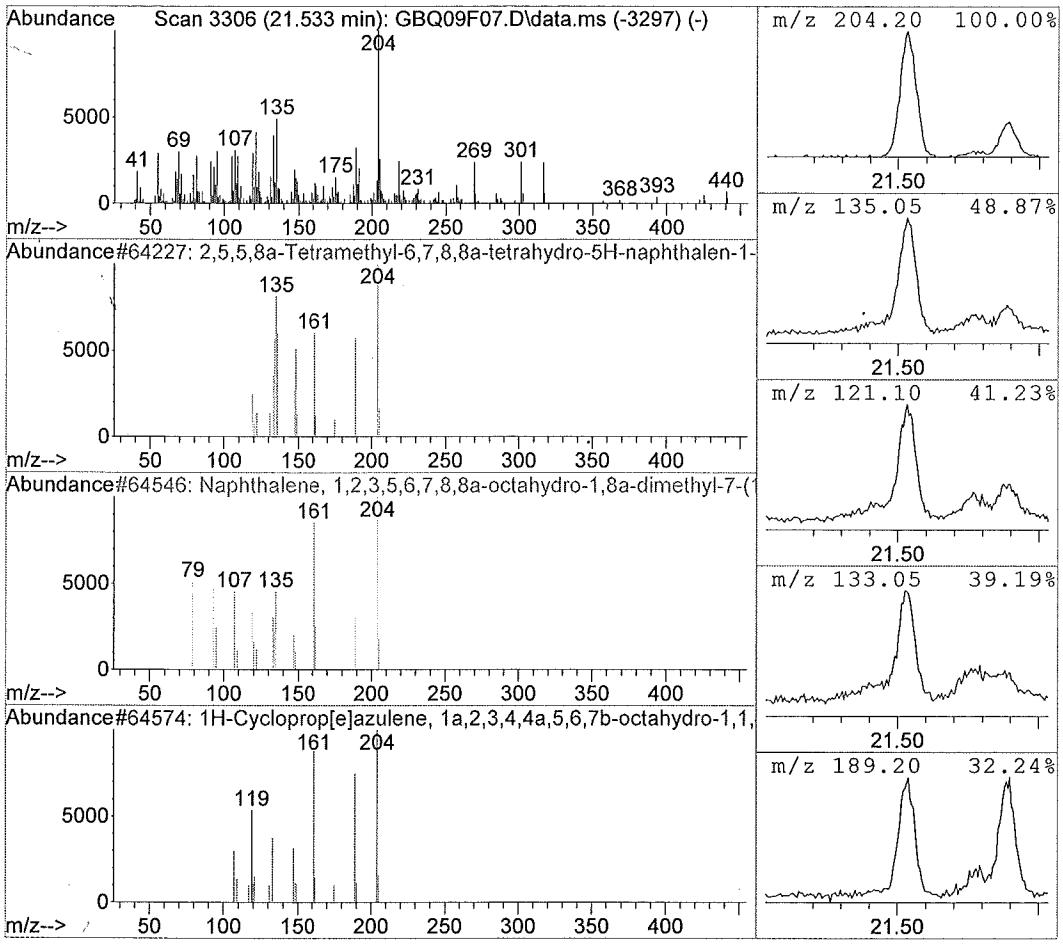
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.53	5.54 ug/ml	940815	Perylene-d12	3397023

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
2	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	49.00
3	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	41.00
4	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	38.00
5	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	38.00



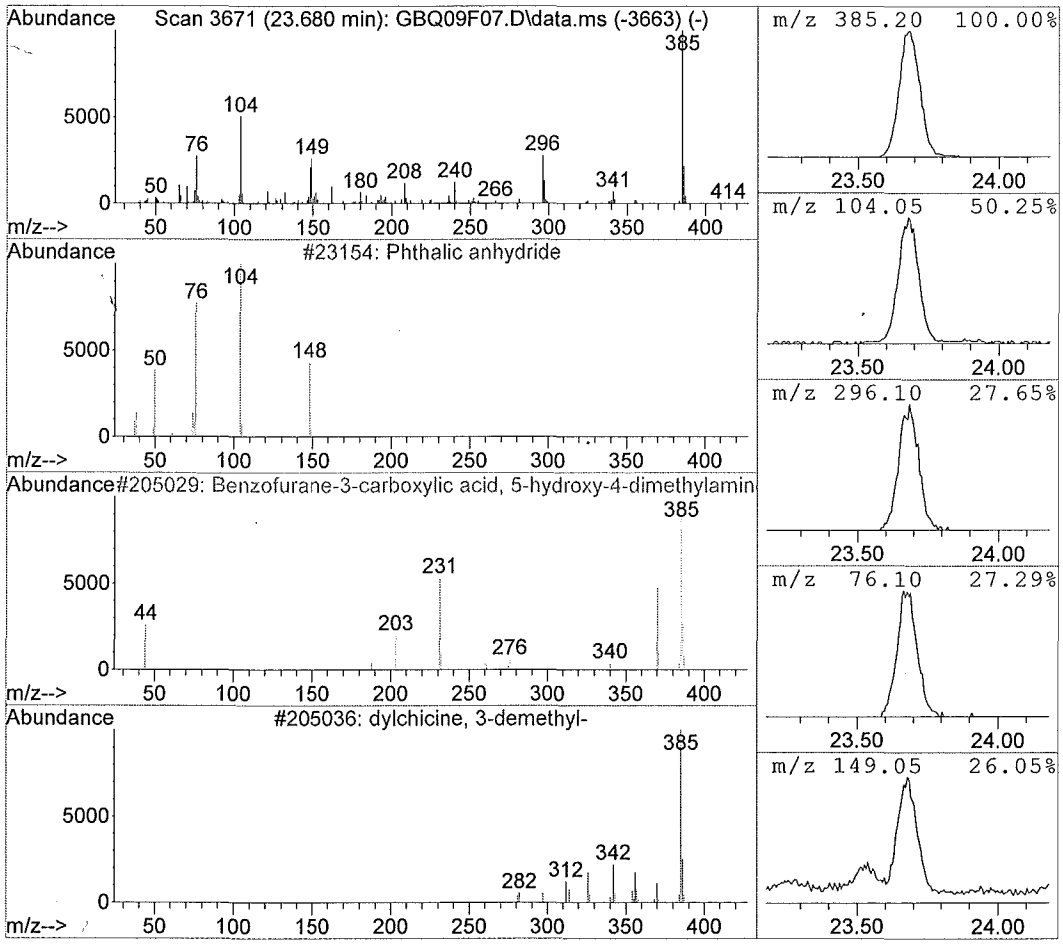
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.68	3.20 ug/ml	544114	Perylene-d12	3397023

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	14.00
2	Benzofurane-3-carboxylic acid, 5-hy	205029	169376-46-9	12.00
3	dylchicine, 3-demethyl-	205036	007336-34-7	12.00
4	Naphthalene, 1,2,3,4-tetrahydro-2-p	68010	029422-13-7	10.00
5	2,6-Bis(4-nitro-phenylthio)pyridine	204925	078649-02-2	9.00



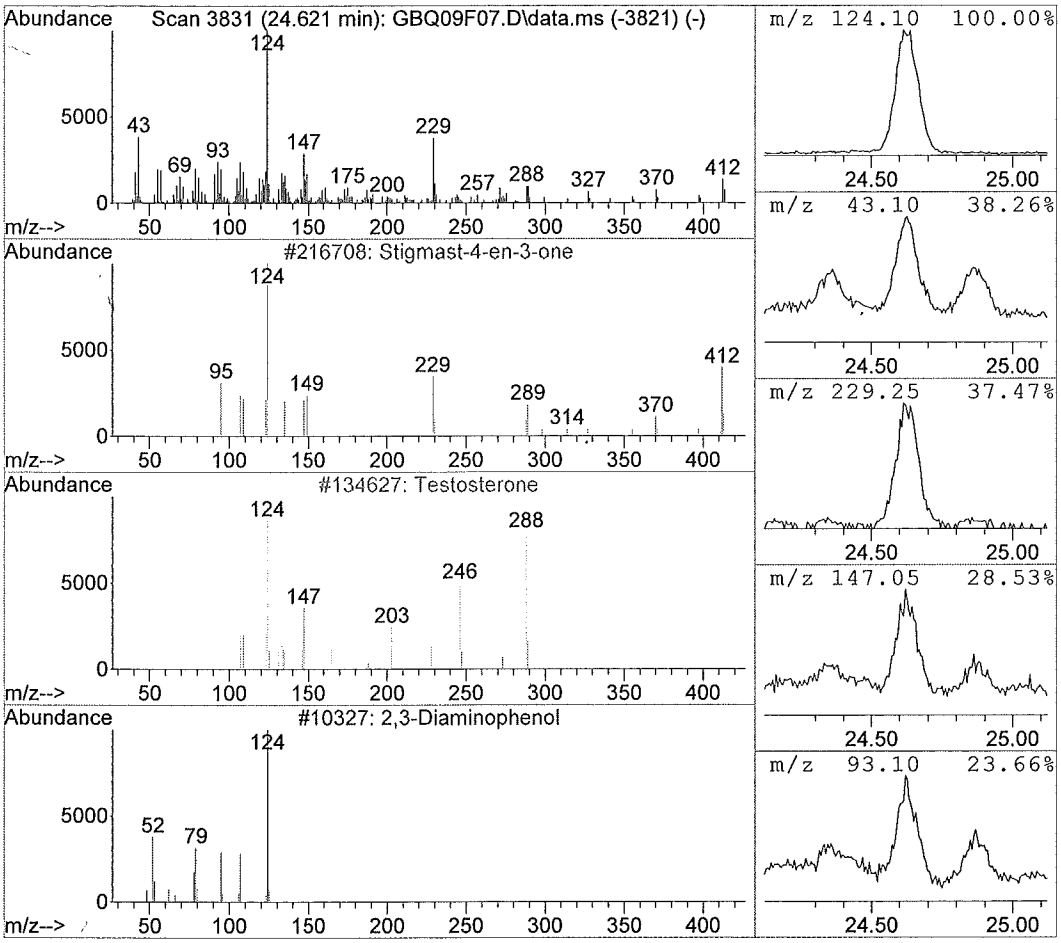
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ09F07.D Vial: 8
Acq On : 06/16/2015 22:22 Operator: SY
Sample : 1515552007 F9M45 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.62	4.28 ug/ml	726946	Perylene-d12	3397023

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	62.00
2	Testosterone	134627	000058-22-0	53.00
3	2,3-Diaminophenol	10327	059649-56-8	43.00
4	Orcinol	10403	000504-15-4	38.00
5	Phenol, 2,6-diamino-	10332	022440-82-0	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.: F9M36

Instrument ID: 5975-D Calibration Date(s): 05/21/2015 05/21/2015

Calibration Time(s): 14:38 16:56

LAB FILE ID: RRF 5.0 = DFG03S05 RRF 10 = DFG04S10

RRF 20 = DFG02S20 RRF 40 = DFG05S40 RRF 80 = DFG06S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	0.752	0.799	0.821	0.842	0.793	0.801	4.2
Phenol	1.291	1.236	1.382	1.254	1.279	1.288	4.4
Bis(2-chloroethyl)ether	1.044	1.057	1.184	1.076	1.307	1.134	9.9
2-Chlorophenol	1.187	1.134	1.218	1.166	1.184	1.178	2.6
2-Methylphenol	0.991	0.965	1.069	0.956	1.015	0.999	4.5
2,2'-Oxybis(1-chloropropane)	1.694	1.608	1.726	1.589	1.574	1.638	4.1
Acetophenone	1.341	1.420	1.515	1.406	1.440	1.424	4.4
4-Methylphenol	1.035	0.984	1.120	1.013	1.061	1.043	5.0
N-Nitroso-di-n-propylamine	0.705	0.675	0.734	0.688	0.696	0.700	3.2
Hexachloroethane	0.522	0.529	0.580	0.568	0.581	0.556	5.1
Nitrobenzene	0.299	0.303	0.348	0.319	0.339	0.322	6.8
Isophorone	0.522	0.522	0.590	0.546	0.595	0.555	6.5
2-Nitrophenol	0.201	0.188	0.202	0.188	0.199	0.196	3.7
2,4-Dimethylphenol	0.322	0.293	0.326	0.310	0.325	0.315	4.5
Bis(2-chloroethoxy)methane	0.360	0.338	0.376	0.353	0.369	0.359	4.0
2,4-Dichlorophenol	0.312	0.294	0.331	0.315	0.317	0.314	4.2
Naphthalene	0.904	0.937	0.993	0.987	0.965	0.957	3.8
4-Chloroaniline	0.319	0.322	0.302	0.256	0.248	0.290	12.0
Hexachlorobutadiene	0.225	0.228	0.251	0.246	0.250	0.240	5.2
Caprolactam	0.073	0.080	0.092	0.086	0.091	0.084	9.3
4-Chloro-3-methylphenol	0.261	0.241	0.270	0.259	0.281	0.262	5.6
2-Methylnaphthalene	0.643	0.644	0.666	0.641	0.644	0.648	1.6
Hexachlorocyclopentadiene	0.268	0.328	0.453	0.413	0.448	0.382	21.2
2,4,6-Trichlorophenol	0.378	0.365	0.411	0.387	0.419	0.392	5.7
2,4,5-Trichlorophenol	0.396	0.388	0.427	0.398	0.459	0.414	7.1
1,1'-Biphenyl	1.156	1.242	1.391	1.236	1.312	1.267	7.0
2-Chloronaphthalene	0.988	1.013	1.130	1.054	1.116	1.060	5.9
2-Nitroaniline		0.267	0.276	0.268	0.281	0.273	2.5
Dimethylphthalate	1.177	1.173	1.243	1.170	1.202	1.193	2.6
2,6-Dinitrotoluene	0.233	0.243	0.273	0.260	0.288	0.260	8.6
Acenaphthylene	1.555	1.637	1.783	1.681	1.649	1.661	5.0
3-Nitroaniline		0.239	0.197	0.160	0.130	0.182	25.9
Acenaphthene	0.966	1.019	1.084	1.046	1.033	1.030	4.2
2,4-Dinitrophenol		0.119	0.167	0.160	0.192	0.159	19.0
4-Nitrophenol		0.101	0.129	0.119	0.136	0.121	12.6
Dibenzofuran	1.508	1.533	1.565	1.509	1.485	1.520	2.0

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.: F9M36

Instrument ID: 5975-D Calibration Date(s): 05/21/2015 05/21/2015

Calibration Time(s): 14:38 16:56

LAB FILE ID: RRF 5.0 = DFG03S05 RRF 10 = DFG04S10
RRF 20 = DFG02S20 RRF 40 = DFG05S40 RRF 80 = DFG06S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.312	0.329	0.372	0.355	0.387	0.351	8.7
Diethylphthalate	1.207	1.163	1.294	1.166	1.200	1.206	4.4
Fluorene	1.144	1.197	1.291	1.249	1.138	1.204	5.5
4-Chlorophenyl-phenylether	0.658	0.659	0.694	0.644	0.596	0.650	5.4
4-Nitroaniline		0.256	0.223	0.218	0.209	0.227	9.0
4,6-Dinitro-2-methylphenol		0.122	0.146	0.138	0.157	0.141	10.3
N-Nitrosodiphenylamine[1]	0.489	0.479	0.512	0.465	0.486	0.486	3.6
1,2,4,5-Tetrachlorobenzene	0.618	0.637	0.670	0.623	0.627	0.635	3.3
4-Bromophenyl-phenylether	0.236	0.230	0.244	0.230	0.238	0.236	2.4
Hexachlorobenzene	0.235	0.238	0.257	0.243	0.271	0.249	6.0
Atrazine	0.184	0.197	0.216	0.196	0.206	0.200	6.0
Pentachlorophenol		0.094	0.139	0.132	0.155	0.130	19.7
Phenanthrene	0.950	0.993	1.061	1.000	0.998	1.000	4.0
Anthracene	0.972	1.024	1.093	1.029	1.027	1.029	4.2
Carbazole	0.837	0.861	0.879	0.830	0.767	0.835	5.1
Di-n-butylphthalate	1.170	1.127	1.232	1.132	1.152	1.163	3.6
Fluoranthene	1.093	1.144	1.228	1.149	1.122	1.147	4.4
Pyrene	1.006	1.054	1.133	1.030	0.976	1.040	5.7
Butylbenzylphthalate	0.430	0.426	0.472	0.437	0.464	0.446	4.6
3,3'-Dichlorobenzidine	0.343	0.360	0.365	0.351	0.292	0.342	8.5
Benzo(a)anthracene	1.023	1.052	1.125	1.036	1.019	1.051	4.1
Chrysene	0.921	0.968	1.013	0.931	0.909	0.948	4.5
Bis(2-ethylhexyl)phthalate	0.679	0.671	0.720	0.682	0.693	0.689	2.7
Di-n-octylphthalate	1.142	1.139	1.275	1.194	1.151	1.180	4.9
Benzo(b)fluoranthene	1.002	1.024	1.162	1.076	1.074	1.067	5.8
Benzo(k)fluoranthene	0.964	1.060	1.086	1.095	1.012	1.043	5.3
Benzo(a)pyrene	0.961	1.016	1.088	1.058	1.055	1.036	4.7
Indeno(1,2,3-cd)pyrene	0.890	0.941	1.034	1.004	1.079	0.990	7.6
Dibenzo(a,h)anthracene	0.907	0.977	1.057	1.044	1.115	1.020	7.8
Benzo(g,h,i)perylene	0.910	0.965	1.048	1.014	1.066	1.001	6.3
2,3,4,6-Tetrachlorophenol	0.315	0.315	0.355	0.342	0.370	0.339	7.1

[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.: F9M36

Instrument ID: 5975-D Calibration Date(s): 05/21/2015 05/21/2015

Calibration Time(s): 14:38 16:56

LAB FILE ID: RRF 5.0 = DFG03S05 RRF 10 = DFG04S10

RRF 20 = DFG02S20 RRF 40 = DFG05S40 RRF 80 = DFG06S80

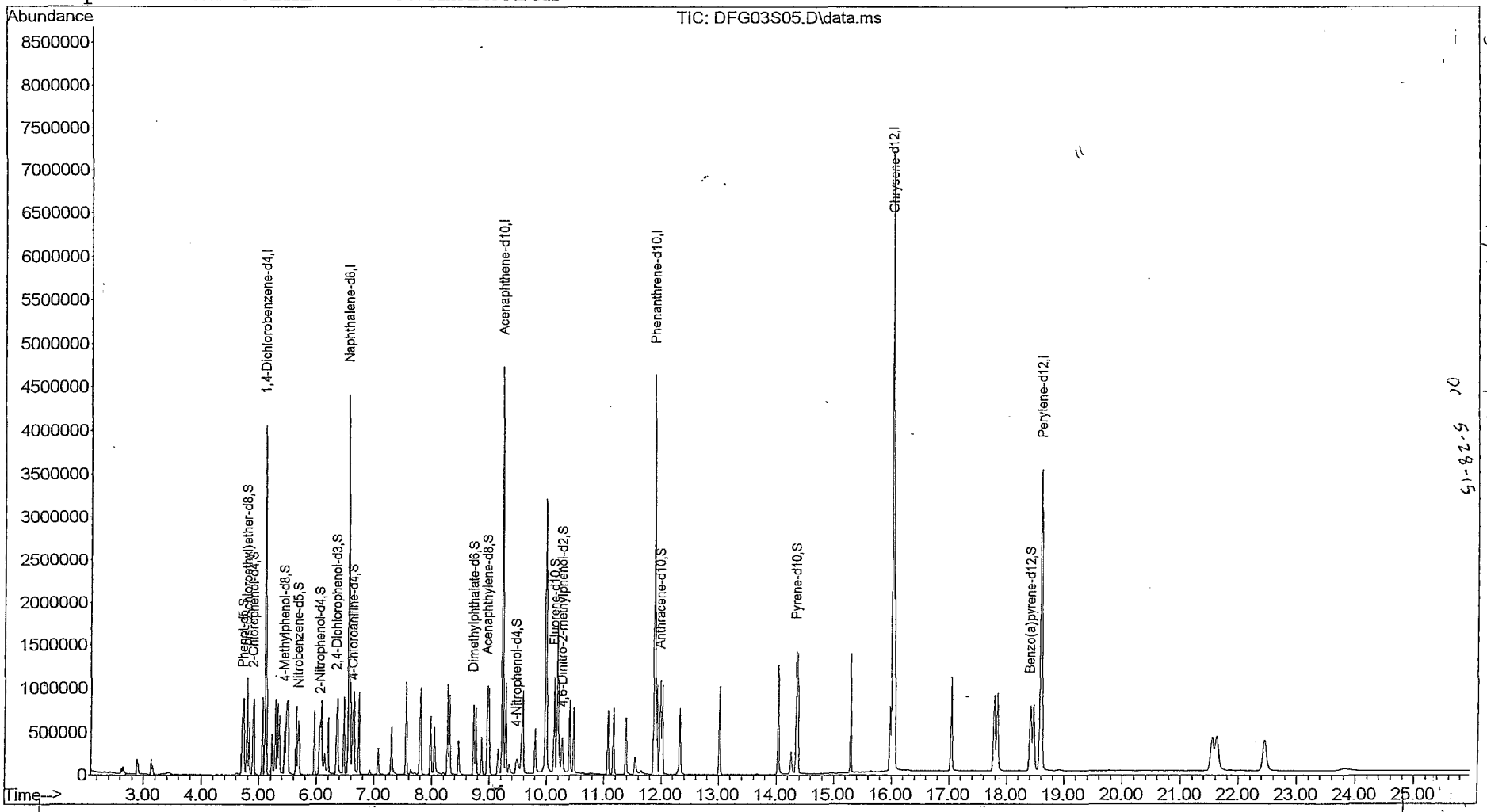
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.239	1.221	1.279	1.263	1.222	1.245	2.1
Bis(2-chloroethyl)ether-d8	0.919	0.896	0.934	0.906	0.900	0.911	1.7
2-Chlorophenol-d4	1.234	1.206	1.258	1.271	1.234	1.241	2.0
4-Methylphenol-d8	0.915	0.893	0.956	0.960	0.942	0.933	3.1
Nitrobenzene-d5	0.159	0.154	0.163	0.169	0.173	0.164	4.7
2-Nitrophenol-d4	0.202	0.195	0.188	0.191	0.196	0.194	2.8
2,4-Dichlorophenol-d3	0.312	0.303	0.319	0.319	0.316	0.314	2.1
4-Chloroaniline-d4	0.287	0.265	0.220	0.209	0.198	0.236	16.2
Dimethylphthalate-d6	1.219	1.194	1.224	1.262	1.266	1.233	2.5
Acenaphthylene-d8	1.604	1.569	1.667	1.633	1.646	1.624	2.4
4-Nitrophenol-d4		0.180	0.211	0.205	0.223	0.205	8.8
Fluorene-d10	1.080	1.053	1.101	1.098	1.117	1.090	2.2
4,6-Dinitro-2-methylphenol-d2		0.108	0.128	0.128	0.142	0.126	11.2
Anthracene-d10	1.038	0.994	1.041	1.014	1.036	1.025	2.0
Pyrene-d10	0.849	0.826	0.863	0.830	0.844	0.842	1.7
Benzo(a)pyrene-d12	0.901	0.881	0.922	0.926	0.947	0.915	2.7

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Original with SDG: FQ450 Case: 45316
DC 5-28-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.10	152	758573	20.00 ug/ml
16) Naphthalene-d8	6.55	136	2572476	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1621114	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2821882	20.00 ug/ml
73) Chrysene-d12	16.02	240	3306592	20.00 ug/ml
81) Perylene-d12	18.60	264	3150553	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	234979	4.977ug/ml
6) bis-(2-chloroethyl)ether-d	4.78	67	174296	5.045ug/mL
7) 2-Chlorophenol-d4	4.89	132	234066	4.974ug/ml
13) 4-Methylphenol-d8	5.44	113	173446	4.901ug/mL
17) Nitrobenzene-d5	5.67	128	102467	4.863ug/ml
21) 2-Nitrophenol-d4	6.05	143	129734	5.192ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	200824	4.974ug/mL
28) 4-Chloroaniline-d4	6.62	131	184293	6.075ug/mL
42) Dimethylphthalate-d6	8.73	166	494153	4.944ug/mL
45) Acenaphthylene-d8	8.97	160	650178	4.940ug/mL
50) 4-Nitrophenol-d4	9.47	143	67963	4.094ug/mL
57) Fluorene-d10	10.13	176	437716	4.956ug/mL
61) 4,6-Dinitro-2-methylphenol	10.26	200	72375	4.061ug/mL
69) Anthracene-d10	11.98	188	732241	5.065ug/mL
75) Pyrene-d10	14.34	212	701680	5.039ug/mL
86) Benzo(a)pyrene-d12	18.41	264	709752	4.923ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	142677	4.694ug/ml	95
4) Phenol	4.73	94	244828	5.010ug/ml	87
5) Bis(2-chloroethyl)ether	4.83	93	197923	4.603ug/ml	99
8) 2-Chlorophenol	4.90	128	225082	5.039ug/ml	100
9) 2-Methylphenol	5.32	108	187998	4.961ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	321348	5.172ug/ml	100
11) Acetophenone	5.50	105	254395	4.709ug/ml	92
12) 4-methylphenol	5.47	108	196349	4.965ug/ml	98
14) N-Nitroso-di-n-propylamine	5.48	70	133646	5.037ug/ml	82
15) Hexachloroethane	5.64	117	99044	4.695ug/ml	79
18) Nitrobenzene	5.69	77	192331	4.649ug/ml	98
19) Isophorone	5.96	82	335430	4.700ug/ml	94
20) 2-Nitrophenol	6.06	139	129228	5.139ug/ml	94
22) 2,4-Dimethylphenol	6.08	107	206781	5.100ug/ml	91
23) Bis(2-chloroethoxy)methane	6.20	93	231332	5.008ug/ml	98
24) 2,4-Dichlorophenol	6.36	162	200964	4.977ug/ml	94
26) Naphthalene	6.58	128	581655	4.724ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.63	127	205117	5.508ug/ml	99
29) Hexachlorobutadiene	6.73	225	144884	4.690ug/ml	99
30) Caprolactam	7.07	113	47166	4.352ug/ml	94
31) 4-Chloro-3-methylphenol	7.30	107	168088	4.979ug/ml	93
32) 2-Methylnaphthalene	7.55	142	413699	4.967ug/ml	96
34) 1,2,4,5-Tetrachlorobenzene	7.80	216	250500	4.868ug/mL	96
35) Hexachlorocyclopentadiene	7.79	237	108596	3.508ug/ml	98
36) 2,4,6-Trichlorophenol	7.98	196	153005	4.816ug/ml	99
37) 2,4,5-Trichlorophenol	8.05	196	160329	4.783ug/ml	100
38) 1,1'-Biphenyl	8.27	154	468388	4.560ug/ml	96
39) 2-Chloronaphthalene	8.31	162	400383	4.660ug/ml	90
40) 2-Nitroaniline	8.46	65	103531	4.679ug/ml	99
41) Dimethylphthalate	8.77	163	476883	4.932ug/ml	98
43) 2,6-Dinitrotoluene	8.87	165	94538	4.491ug/ml	93
44) Acenaphthylene	8.99	152	630179	4.681ug/ml	99
46) 3-Nitroaniline	9.15	138	95742	6.506ug/ml	91
47) Acenaphthene	9.29	153	391572	4.692ug/ml	92
48) 2,4-Dinitrophenol	9.35	184	40614	3.145ug/ml	100
49) 4-Nitrophenol	9.48	109	38133	3.874ug/ml	87
51) Dibenzofuran	9.59	168	611158	4.960ug/ml	94
52) 2,4-Dinitrotoluene	9.56	165	126403	4.444ug/ml	74
53) 2,3,4,6-Tetrachlorophenol	9.80	232	127564	4.638ug/mL	93
54) Diethylphthalate	10.00	149	489221	5.005ug/ml	100
55) 4-Chlorophenyl-phenylether	10.19	204	266677	5.060ug/ml	88
56) Fluorene	10.19	166	463791	4.752ug/ml	99
58) 4-Nitroaniline	10.22	138	96926	5.277ug/ml	82
60) 4,6-Dinitro-2-methylphenol	10.28	198	81587	4.107ug/ml	90
62) N-Nitrosodiphenylamine	10.40	169	344799	5.026ug/ml	97
63) 4-Bromophenyl-phenyl ether	11.07	248	166485	5.006ug/ml	86
64) Hexachlorobenzene	11.17	284	165679	4.722ug/ml	81
65) Atrazine	11.39	200	129622	4.599ug/ml	97
66) Pentachlorophenol	11.55	266	59007	3.222ug/ml	94
67) Phenanthrene	11.92	178	670228	4.748ug/ml	99
68) Anthracene	12.02	178	685531	4.722ug/ml	98
70) Carbazole	12.32	167	590489	5.014ug/mL	97
71) Di-n-butylphthalate	13.02	149	825422	5.032ug/ml	99
72) Fluoranthene	14.03	202	770747	4.762ug/ml	88
74) Pyrene	14.37	202	831677	4.838ug/ml	86
76) Butylbenzylphthalate	15.29	149	355510	4.822ug/ml	93
77) 3,3'-Dichlorobenzidine	15.97	252	283661	5.012ug/ml	94
78) Benzo(a)anthracene	16.00	228	845758	4.868ug/ml	98
79) Chrysene	16.06	228	761442	4.857ug/ml	98
80) Bis-(2-ethylhexyl)phthalat	16.04	149	561377	4.928ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

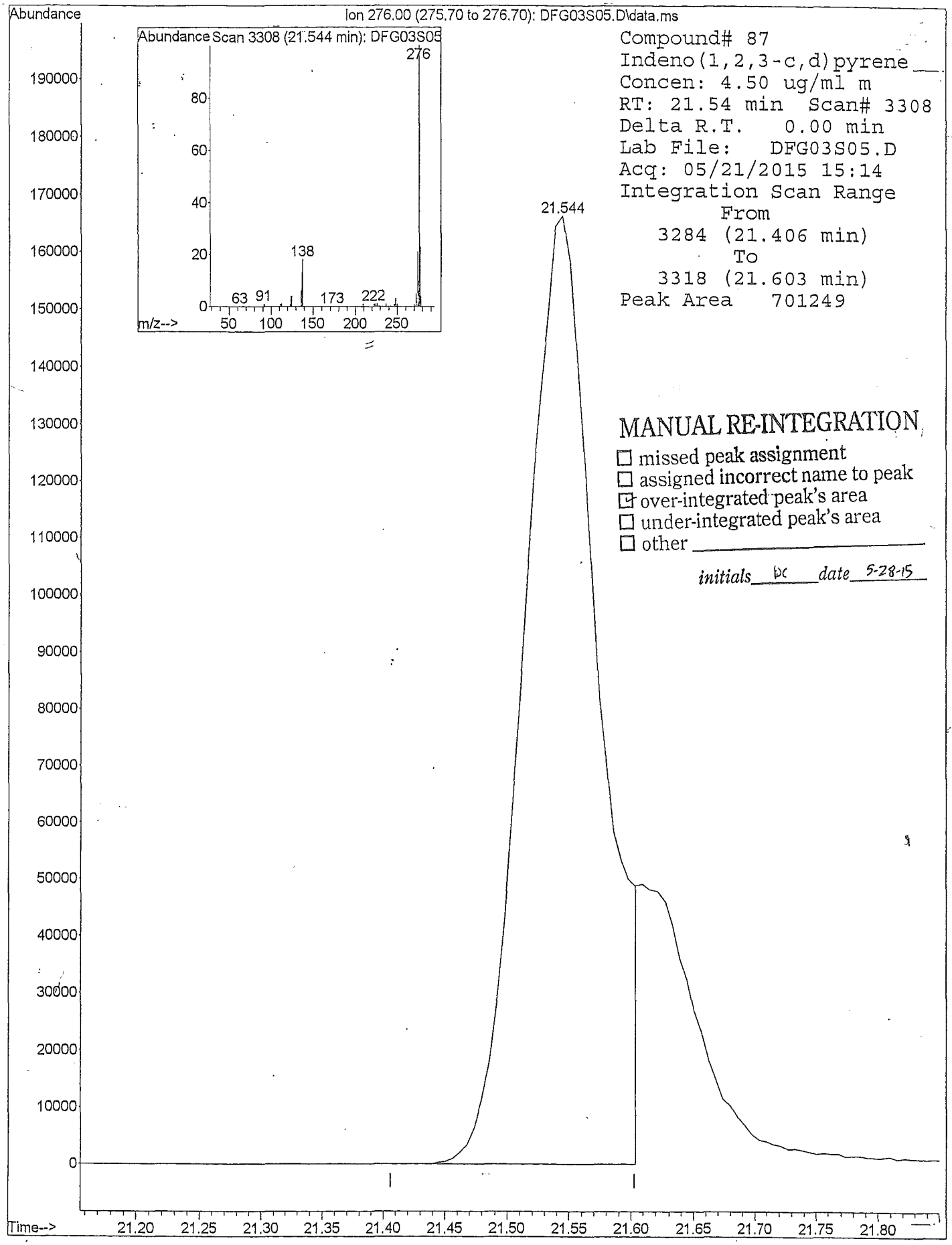
Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
82) Di-n-octylphthalate	17.04	149	899814	4.839ug/ml		99
83) Benzo(b)fluoranthene	17.78	252	789346	4.694ug/ml		92
84) Benzo(k)fluoranthene	17.83	252	759077	4.619ug/ml		93
85) Benzo(a)pyrene	18.46	252	756783	4.639ug/ml		92
87) Indeno(1,2,3-c,d)pyrene	21.54	276	701249	4.498ug/ml	m	67
88) Dibenzo(a,h)anthracene	21.62	278	714733	4.448ug/ml	DC 5-28-15	89
89) Benzo(g,h,i)perylene	22.45	276	717029	4.549ug/ml		85

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Indeno(1,2,3-c,d)pyrene



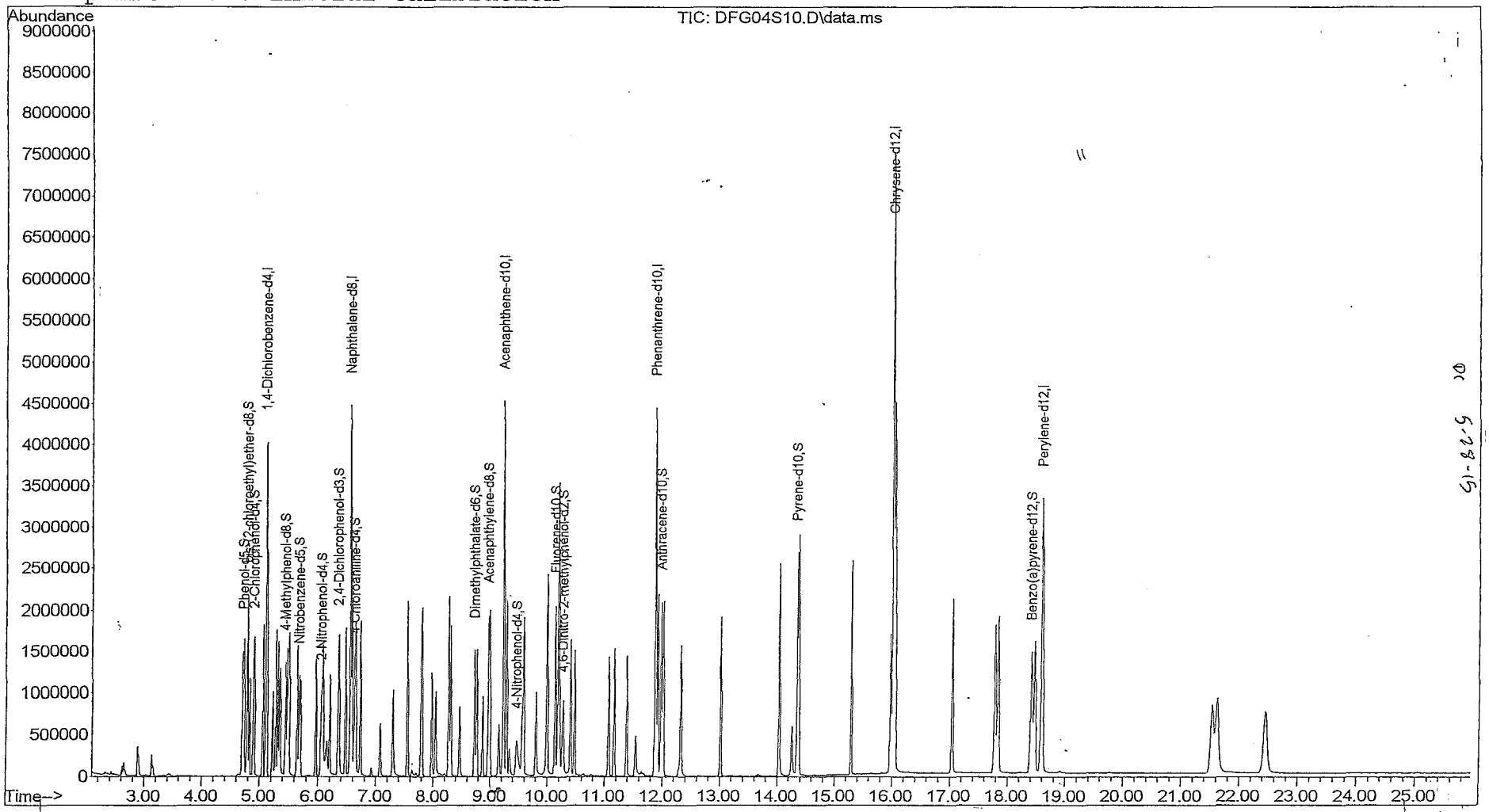
DSOM01D5.M 5975-D DSOM01D5.M SSTD005DG 28102 . X6-19-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	738162	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2525010	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1550636	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2750825	20.00 ug/ml
73) Chrysene-d12	16.02	240	3201443	20.00 ug/ml
81) Perylene-d12	18.59	264	3000024	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	450506	9.806ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	330621	9.835ug/mL
7) 2-Chlorophenol-d4	4.89	132	445266	9.724ug/ml
13) 4-Methylphenol-d8	5.44	113	329468	9.567ug/mL
17) Nitrobenzene-d5	5.67	128	194251	9.393ug/ml
21) 2-Nitrophenol-d4	6.05	143	246025	10.031ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	382694	9.656ug/mL
28) 4-Chloroaniline-d4	6.62	131	334937	11.249ug/mL
42) Dimethylphthalate-d6	8.73	166	925637	9.682ug/mL
45) Acenaphthylene-d8	8.97	160	1216242	9.661ug/mL
50) 4-Nitrophenol-d4	9.46	143	139773	8.802ug/mL
57) Fluorene-d10	10.13	176	816226	9.662ug/mL
61) 4,6-Dinitro-2-methylphenol	10.26	200	147903	8.514ug/mL
69) Anthracene-d10	11.98	188	1367281	9.702ug/mL
75) Pyrene-d10	14.34	212	1322068	9.806ug/mL
86) Benzo(a)pyrene-d12	18.41	264	1321112	9.623ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.70	77	294880	9.969ug/ml 96
4) Phenol	4.73	94	456042	9.590ug/ml 87
5) Bis(2-chloroethyl)ether	4.83	93	390103	9.323ug/ml 96
8) 2-Chlorophenol	4.90	128	418593	9.630ug/ml 99
9) 2-Methylphenol	5.32	108	356031	9.654ug/ml 96
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	593362	9.813ug/ml 100
11) Acetophenone	5.50	105	523949	9.966ug/ml 95
12) 4-methylphenol	5.47	108	363049	9.435ug/ml 99
14) N-Nitroso-di-n-propylamine	5.49	70	249126	9.648ug/ml 82
15) Hexachloroethane	5.64	117	195355	9.517ug/ml 77
18) Nitrobenzene	5.70	77	382344	9.416ug/ml 98
19) Isophorone	5.96	82	658792	9.405ug/ml 94
20) 2-Nitrophenol	6.06	139	236790	9.593ug/ml 94
22) 2,4-Dimethylphenol	6.08	107	369587	9.287ug/ml 91
23) Bis(2-chloroethoxy)methane	6.20	93	427283	9.424ug/ml 99
24) 2,4-Dichlorophenol	6.36	162	371392	9.371ug/ml 95
26) Naphthalene	6.58	128	1183463	9.793ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.63	127	406350	11.116ug/ml	99
29)	Hexachlorobutadiene	6.73	225	288029	9.500ug/ml	99
30)	Caprolactam	7.08	113	100418	9.441ug/ml	98
31)	4-Chloro-3-methylphenol	7.30	107	304516	9.189ug/ml	93
32)	2-Methylnaphthalene	7.55	142	812538	9.938ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.80	216	494239	10.040ug/mL	95
35)	Hexachlorocyclopentadiene	7.79	237	254659	8.599ug/ml	98
36)	2,4,6-Trichlorophenol	7.98	196	283168	9.318ug/ml	98
37)	2,4,5-Trichlorophenol	8.05	196	300662	9.377ug/ml	99
38)	1,1'-Biphenyl	8.27	154	962846	9.800ug/ml	96
39)	2-Chloronaphthalene	8.31	162	785060	9.552ug/ml	89
40)	2-Nitroaniline	8.46	65	207298	9.794ug/ml	97
41)	Dimethylphthalate	8.77	163	909312	9.831ug/ml	99
43)	2,6-Dinitrotoluene	8.87	165	188573	9.366ug/ml	93
44)	Acenaphthylene	8.99	152	1269274	9.857ug/ml	99
46)	3-Nitroaniline	9.15	138	185286	13.162ug/ml	90
47)	Acenaphthene	9.29	153	790354	9.900ug/ml	92
48)	2,4-Dinitrophenol	9.34	184	92158	7.461ug/ml	100
49)	4-Nitrophenol	9.47	109	78336	8.319ug/ml	94
51)	Dibenzofuran	9.59	168	1188836	10.087ug/ml	95
52)	2,4-Dinitrotoluene	9.56	165	255422	9.389ug/ml	77
53)	2,3,4,6-Tetrachlorophenol	9.80	232	244349	9.288ug/mL	92
54)	Diethylphthalate	10.00	149	901660	9.644ug/ml	100
55)	4-Chlorophenyl-phenylether	10.19	204	510901	10.134ug/ml	88
56)	Fluorene	10.19	166	927937	9.940ug/ml	98
58)	4-Nitroaniline	10.22	138	198427	11.295ug/ml	79
60)	4,6-Dinitro-2-methylphenol	10.28	198	168450	8.698ug/ml	88
62)	N-Nitrosodiphenylamine	10.40	169	658929	9.853ug/ml	98
63)	4-Bromophenyl-phenyl ether	11.07	248	317004	9.778ug/ml	86
64)	Hexachlorobenzene	11.17	284	326757	9.553ug/ml	81
65)	Atrazine	11.39	200	271272	9.874ug/ml	98
66)	Pentachlorophenol	11.54	266	129776	7.269ug/ml	99
67)	Phenanthrene	11.92	178	1365128	9.920ug/ml	99
68)	Anthracene	12.02	178	1408947	9.955ug/ml	99
70)	Carbazole	12.32	167	1184066	10.314ug/mL	97
71)	Di-n-butylphthalate	13.02	149	1550138	9.695ug/ml	99
72)	Fluoranthene	14.03	202	1573970	9.975ug/ml	87
74)	Pyrene	14.37	202	1687332	10.137ug/ml	86
76)	Butylbenzylphthalate	15.29	149	682605	9.563ug/ml	93
77)	3,3'-Dichlorobenzidine	15.97	252	575615	10.505ug/ml	95
78)	Benzo(a)anthracene	16.00	228	1683678	10.009ug/ml	98
79)	Chrysene	16.05	228	1550242	10.212ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	1074408	9.742ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	1708363	9.649ug/ml	98
83) Benzo(b)fluoranthene	17.78	252	1536097	9.593ug/ml	93
84) Benzo(k)fluoranthene	17.83	252	1590334	10.162ug/ml	93
85) Benzo(a)pyrene	18.47	252	1524007	9.811ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.53	276	1411762	9.509ug/ml	74
88) Dibenzo(a,h)anthracene	21.62	278	1465626	9.579ug/ml	89
89) Benzo(g,h,i)perylene	22.44	276	1447901	9.646ug/ml	85

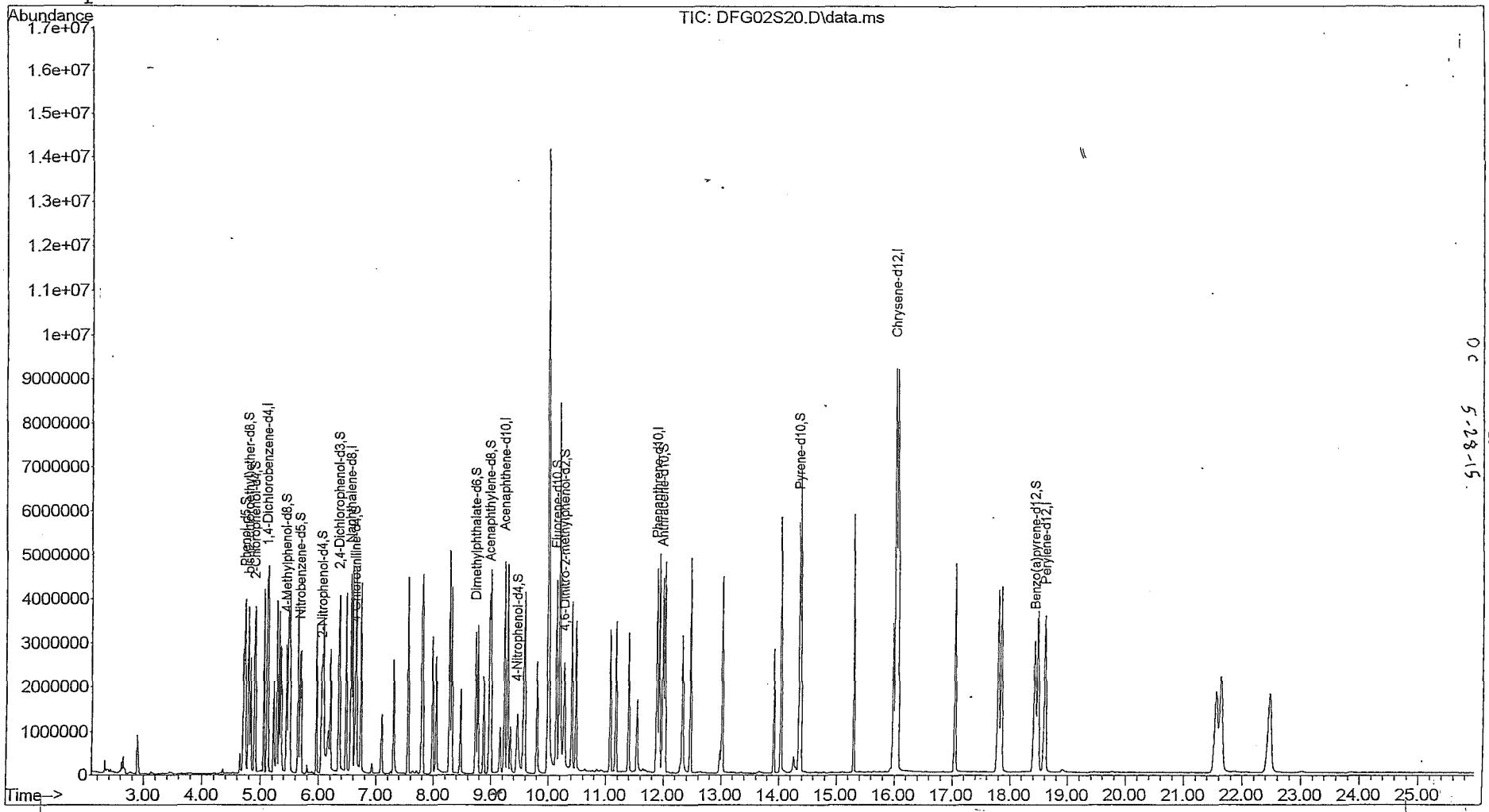
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



5-28-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.10	152	781412	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2629741	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1633186	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2882940	20.00 ug/ml
73) Chrysene-d12	16.02	240	3323908	20.00 ug/ml
81) Perylene-d12	18.60	264	3091076	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	999362	20.549ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	729649	20.504ug/mL
7) 2-Chlorophenol-d4	4.89	132	983364	20.286ug/ml
13) 4-Methylphenol-d8	5.44	113	746853	20.487ug/mL
17) Nitrobenzene-d5	5.67	128	429946	19.961ug/ml
21) 2-Nitrophenol-d4	6.05	143	494008	19.341ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	839936	20.349ug/mL
28) 4-Chloroaniline-d4	6.63	131	578754	18.663ug/mL
42) Dimethylphthalate-d6	8.73	166	1998566	19.848ug/mL
45) Acenaphthylene-d8	8.97	160	2722135	20.531ug/mL
50) 4-Nitrophenol-d4	9.45	143	345165	20.639ug/mL
57) Fluorene-d10	10.13	176	1798224	20.210ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	368308	20.230ug/mL
69) Anthracene-d10	11.98	188	3000986	20.318ug/mL
75) Pyrene-d10	14.35	212	2866880	20.481ug/mL
86) Benzo(a)pyrene-d12	18.42	264	2850649	20.152ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.70	77	641734	20.494ug/ml 91
4) Phenol	4.73	94	1080276	21.459ug/ml 91
5) Bis(2-chloroethyl)ether	4.83	93	925407	20.892ug/ml 93
8) 2-Chlorophenol	4.90	128	951491	20.678ug/ml 99
9) 2-Methylphenol	5.32	108	835019	21.390ug/ml 100
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	1349054	21.076ug/ml 100
11) Acetophenone	5.50	105	1184118	21.276ug/ml 90
12) 4-methylphenol	5.47	108	875045	21.482ug/ml 98
14) N-Nitroso-di-n-propylamine	5.49	70	573887	20.995ug/ml 82
15) Hexachloroethane	5.64	117	453551	20.873ug/ml 76
18) Nitrobenzene	5.70	77	915798	21.654ug/ml 96
19) Isophorone	5.96	82	1551844	21.272ug/ml 95
20) 2-Nitrophenol	6.06	139	531385	20.669ug/ml 91
22) 2,4-Dimethylphenol	6.08	107	857907	20.699ug/ml 92
23) Bis(2-chloroethoxy)methane	6.20	93	987485	20.911ug/ml 99
24) 2,4-Dichlorophenol	6.36	162	870623	21.093ug/ml 96
26) Naphthalene	6.58	128	2610773	20.744ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.64	127	794752	20.875ug/ml	96
29) Hexachlorobutadiene	6.73	225	658920	20.867ug/ml	99
30) Caprolactam	7.10	113	241887	21.835ug/ml	96
31) 4-Chloro-3-methylphenol	7.30	107	710977	20.600ug/ml	93
32) 2-Methylnaphthalene	7.55	142	1752169	20.577ug/ml	96
34) 1,2,4,5-Tetrachlorobenzene	7.80	216	1093546	21.092ug/mL	97
35) Hexachlorocyclopentadiene	7.79	237	739731	23.716ug/ml	98
36) 2,4,6-Trichlorophenol	7.98	196	671107	20.968ug/ml	99
37) 2,4,5-Trichlorophenol	8.04	196	697541	20.655ug/ml	99
38) 1,1'-Biphenyl	8.27	154	2271206	21.947ug/ml	97
39) 2-Chloronaphthalene	8.31	162	1844942	21.314ug/ml	89
40) 2-Nitroaniline	8.47	65	450368	20.202ug/ml	97
41) Dimethylphthalate	8.77	163	2030821	20.846ug/ml	99
43) 2,6-Dinitrotoluene	8.87	165	446485	21.055ug/ml	93
44) Acenaphthylene	9.00	152	2911489	21.467ug/ml	99
46) 3-Nitroaniline	9.16	138	321988	21.717ug/ml	94
47) Acenaphthene	9.29	153	1769568	21.045ug/ml	93
48) 2,4-Dinitrophenol	9.34	184	272471	20.944ug/ml	100
49) 4-Nitrophenol	9.46	109	210440	21.219ug/ml	98
51) Dibenzofuran	9.59	168	2556646	20.596ug/ml	94
52) 2,4-Dinitrotoluene	9.56	165	606928	21.183ug/ml	81
53) 2,3,4,6-Tetrachlorophenol	9.80	232	579733	20.922ug/mL	91
54) Diethylphthalate	10.00	149	2112582	21.454ug/ml	100
55) 4-Chlorophenyl-phenylether	10.20	204	1132964	21.336ug/ml	89
56) Fluorene	10.19	166	2109062	21.451ug/ml	99
58) 4-Nitroaniline	10.22	138	364529	19.701ug/ml	75
60) 4,6-Dinitro-2-methylphenol	10.28	198	419588	20.672ug/ml	91
62) N-Nitrosodiphenylamine	10.40	169	1477036	21.075ug/ml	98
63) 4-Bromophenyl-phenyl ether	11.07	248	702835	20.686ug/ml	86
64) Hexachlorobenzene	11.17	284	740599	20.660ug/ml	82
65) Atrazine	11.39	200	621666	21.591ug/ml	99
66) Pentachlorophenol	11.54	266	399947	21.374ug/ml	97
67) Phenanthrene	11.92	178	3059449	21.214ug/ml	99
68) Anthracene	12.02	178	3151733	21.247ug/ml	99
70) Carbazole	12.32	167	2534276	21.063ug/mL	97
71) Di-n-butylphthalate	13.02	149	3550475	21.187ug/ml	99
72) Fluoranthene	14.03	202	3538921	21.401ug/ml	88
74) Pyrene	14.37	202	3764890	21.786ug/ml	87
76) Butylbenzylphthalate	15.29	149	1569968	21.185ug/ml	94
77) 3,3'-Dichlorobenzidine	15.97	252	1213938	21.338ug/ml	95
78) Benzo(a)anthracene	16.01	228	3739232	21.409ug/ml	97
79) Chrysene	16.06	228	3366283	21.359ug/ml	97
80) Bis-(2-ethylhexyl)phthalat	16.04	149	2391774	20.888ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	3940901	21.602ug/ml	99
83) Benzo(b)fluoranthene	17.79	252	3590854	21.765ug/ml	92
84) Benzo(k)fluoranthene	17.84	252	3357774	20.824ug/ml	92
85) Benzo(a)pyrene	18.47	252	3361975	21.005ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.54	276	3196533	20.896ug/ml	75
88) Dibenzo(a,h)anthracene	21.63	278	3265734	20.716ug/ml	89
89) Benzo(g,h,i)perylene	22.46	276	3239476	20.946ug/ml	85

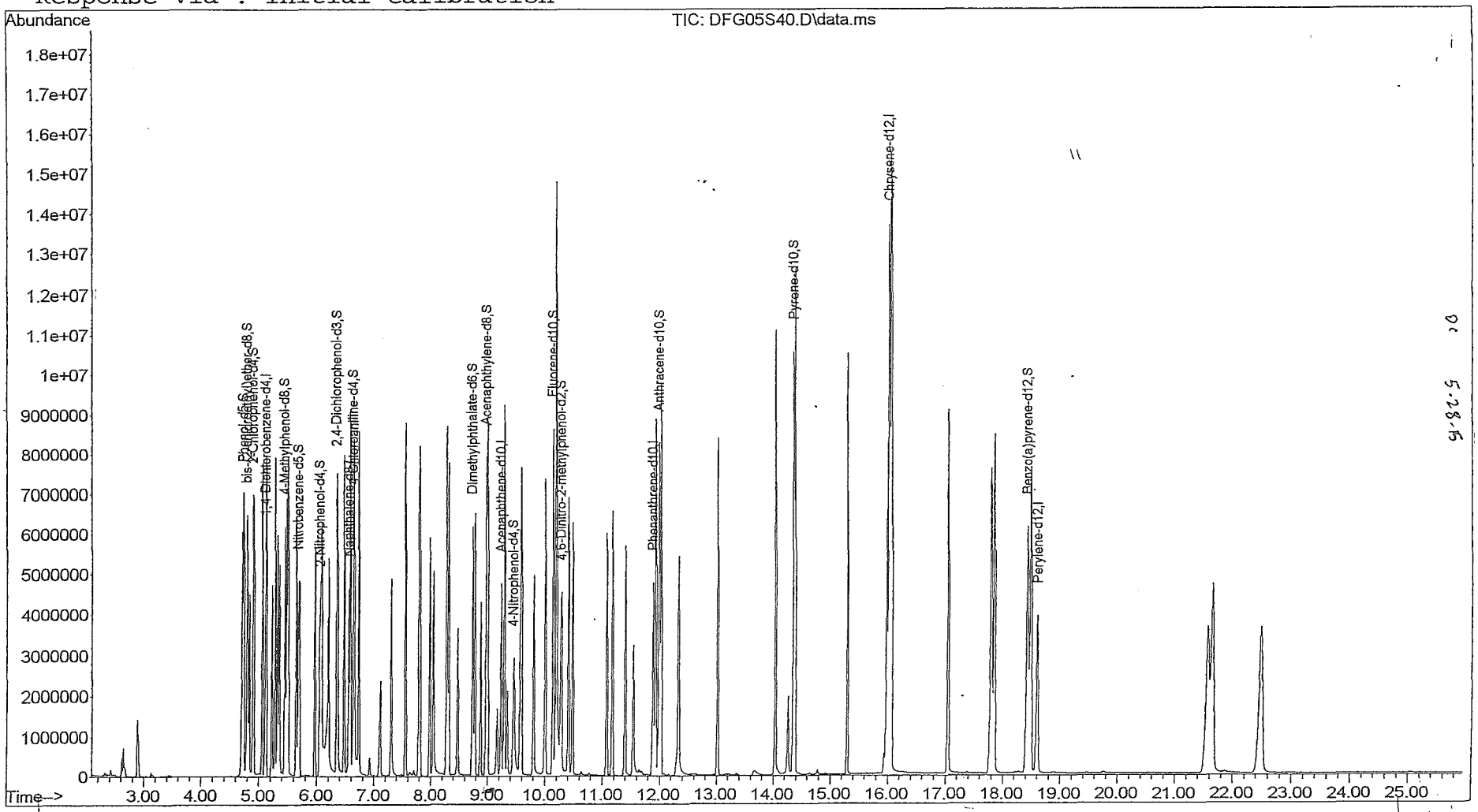
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	759599	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2564806	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1618424	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2915125	20.00 ug/ml
73) Chrysene-d12	16.02	240	3425847	20.00 ug/ml
81) Perylene-d12	18.60	264	3260808	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1918857	40.589ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	1376090	39.781ug/mL
7) 2-Chlorophenol-d4	4.89	132	1930639	40.971ug/ml
13) 4-Methylphenol-d8	5.45	113	1458045	41.145ug/mL
17) Nitrobenzene-d5	5.68	128	866506	41.248ug/ml
21) 2-Nitrophenol-d4	6.05	143	977489	39.238ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1634717	40.607ug/mL
28) 4-Chloroaniline-d4	6.63	131	1071925	35.442ug/mL
42) Dimethylphthalate-d6	8.73	166	4085820	40.946ug/mL
45) Acenaphthylene-d8	8.97	160	5284171	40.218ug/mL
50) 4-Nitrophenol-d4	9.45	143	662556	39.978ug/mL
57) Fluorene-d10	10.14	176	3552581	40.291ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	746001	40.523ug/mL
69) Anthracene-d10	11.99	188	5910674	39.577ug/mL
75) Pyrene-d10	14.35	212	5688122	39.427ug/mL
86) Benzo(a)pyrene-d12	18.43	264	6037385	40.458ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.70	77	1279304	42.027ug/ml 94
4) Phenol	4.73	94	1904718	38.923ug/ml 90
5) Bis(2-chloroethyl)ether	4.83	93	1635283	37.977ug/ml 97
8) 2-Chlorophenol	4.91	128	1772006	39.615ug/ml 100
9) 2-Methylphenol	5.32	108	1452627	38.279ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	2413412	38.787ug/ml 100
11) Acetophenone	5.50	105	2136740	39.495ug/ml 93
12) 4-methylphenol	5.47	108	1538439	38.853ug/ml 99
14) N-Nitroso-di-n-propylamine	5.49	70	1044593	39.313ug/ml 86
15) Hexachloroethane	5.64	117	862892	40.852ug/ml 77
18) Nitrobenzene	5.70	77	1635079	39.641ug/ml 98
19) Isophorone	5.97	82	2798600	39.334ug/ml 95
20) 2-Nitrophenol	6.07	139	963794	38.438ug/ml 90
22) 2,4-Dimethylphenol	6.09	107	1591893	39.381ug/ml 91
23) Bis(2-chloroethoxy)methane	6.20	93	1812176	39.347ug/ml 99
24) 2,4-Dichlorophenol	6.36	162	1615159	40.123ug/ml 95
26) Naphthalene	6.59	128	5061297	41.233ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.65	127	1315267	35.422ug/ml	94
29) Hexachlorobutadiene	6.73	225	1263470	41.025ug/ml	99
30) Caprolactam	7.12	113	440438	40.764ug/ml	98
31) 4-Chloro-3-methylphenol	7.30	107	1327122	39.426ug/ml	93
32) 2-Methylnaphthalene	7.56	142	3288991	39.603ug/ml	95
34) 1,2,4,5-Tetrachlorobenzene	7.81	216	2015682	39.233ug/mL	97
35) Hexachlorocyclopentadiene	7.79	237	1336196	43.229ug/ml	98
36) 2,4,6-Trichlorophenol	7.98	196	1253991	39.537ug/ml	99
37) 2,4,5-Trichlorophenol	8.05	196	1289026	38.518ug/ml	99
38) 1,1'-Biphenyl	8.28	154	4000567	39.011ug/ml	96
39) 2-Chloronaphthalene	8.32	162	3410047	39.755ug/ml	93
40) 2-Nitroaniline	8.47	65	866339	39.215ug/ml	97
41) Dimethylphthalate	8.77	163	3785494	39.213ug/ml	99
43) 2,6-Dinitrotoluene	8.87	165	842323	40.085ug/ml	92
44) Acenaphthylene	9.00	152	5440156	40.478ug/ml	98
46) 3-Nitroaniline	9.16	138	517180	35.200ug/ml	95
47) Acenaphthene	9.29	153	3386774	40.646ug/ml	93
48) 2,4-Dinitrophenol	9.34	184	517481	40.140ug/ml	100
49) 4-Nitrophenol	9.46	109	386543	39.332ug/ml	97
51) Dibenzofuran	9.59	168	4884140	39.705ug/ml	95
52) 2,4-Dinitrotoluene	9.57	165	1148219	40.440ug/ml	83
53) 2,3,4,6-Tetrachlorophenol	9.80	232	1107654	40.339ug/mL	91
54) Diethylphthalate	10.00	149	3773800	38.674ug/ml	99
55) 4-Chlorophenyl-phenylether	10.20	204	2085525	39.633ug/ml	91
56) Fluorene	10.19	166	4044368	41.510ug/ml	100
58) 4-Nitroaniline	10.22	138	704940	38.447ug/ml	73
60) 4,6-Dinitro-2-methylphenol	10.29	198	805467	39.245ug/ml	89
62) N-Nitrosodiphenylamine	10.41	169	2710045	38.240ug/ml	97
63) 4-Bromophenyl-phenyl ether	11.07	248	1341100	39.035ug/ml	86
64) Hexachlorobenzene	11.17	284	1419434	39.159ug/ml	81
65) Atrazine	11.40	200	1143151	39.264ug/ml	98
66) Pentachlorophenol	11.54	266	766774	40.526ug/ml	97
67) Phenanthrene	11.93	178	5831671	39.990ug/ml	99
68) Anthracene	12.02	178	5999007	39.996ug/ml	98
70) Carbazole	12.33	167	4838867	39.772ug/mL	97
71) Di-n-butylphthalate	13.02	149	6602255	38.964ug/ml	99
72) Fluoranthene	14.03	202	6701600	40.079ug/ml	88
74) Pyrene	14.38	202	7055755	39.614ug/ml	86
76) Butylbenzylphthalate	15.29	149	2995426	39.217ug/ml	92
77) 3,3'-Dichlorobenzidine	15.97	252	2406584	41.043ug/ml	96
78) Benzo(a)anthracene	16.01	228	7097135	39.426ug/ml	97
79) Chrysene	16.06	228	6376404	39.254ug/ml	97
80) Bis-(2-ethylhexyl)phthalat	16.04	149	4672441	39.591ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	7787722	40.467ug/ml	98
83) Benzo(b)fluoranthene	17.79	252	7015122	40.308ug/ml	93
84) Benzo(k)fluoranthene	17.85	252	7138233	41.965ug/ml	92
85) Benzo(a)pyrene	18.49	252	6902353	40.879ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.56	276	6548607	40.580ug/ml	75
88) Dibenzo(a,h)anthracene	21.64	278	6810048	40.950ug/ml	89
89) Benzo(g,h,i)perylene	22.48	276	6611973	40.526ug/ml	85

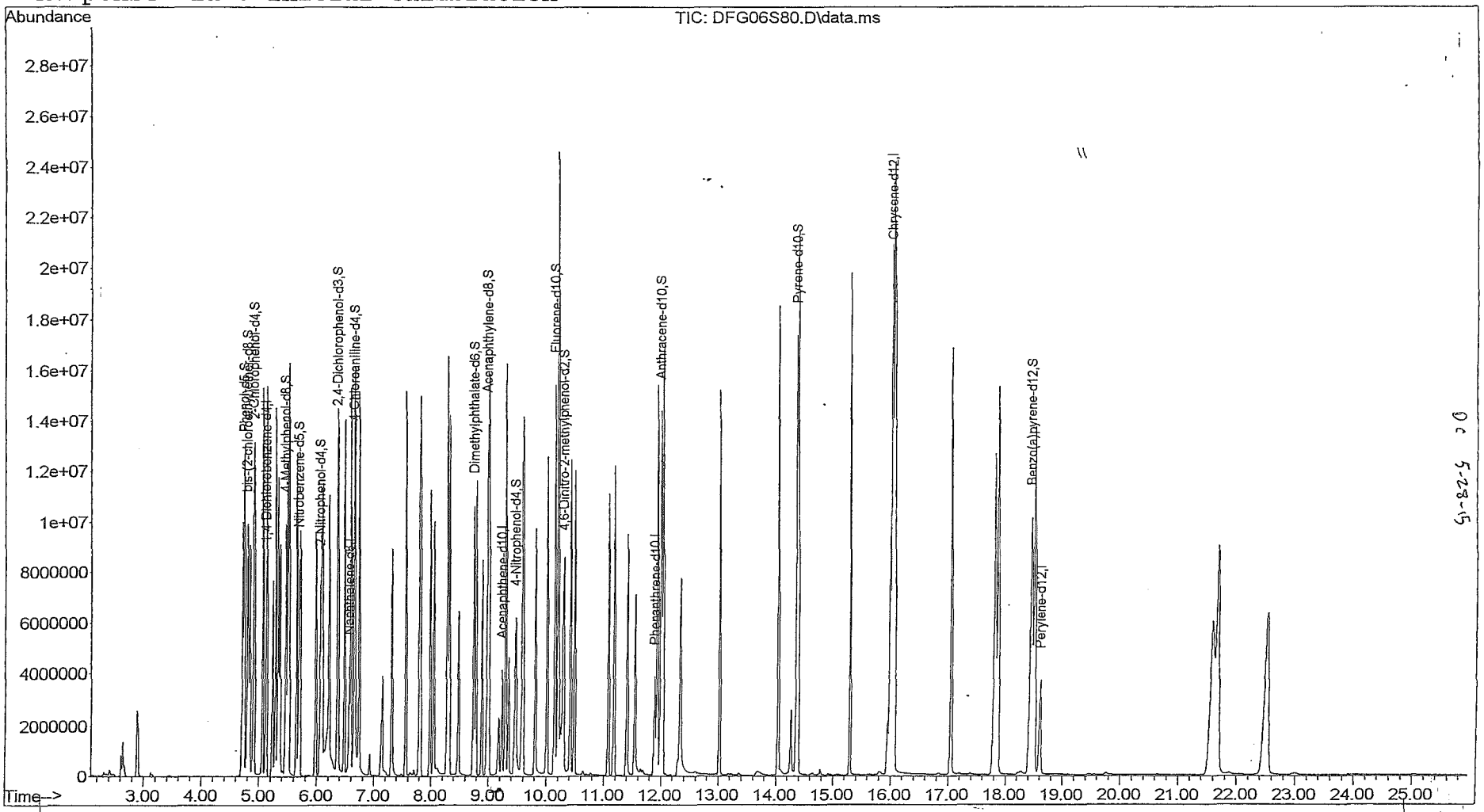
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	723480	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2373530	20.00 ug/ml
33) Acenaphthene-d10	9.24	164	1491125	20.00 ug/ml
59) Phenanthrene-d10	11.89	188	2616667	20.00 ug/ml
73) Chrysene-d12	16.03	240	3034311	20.00 ug/ml
81) Perylene-d12	18.60	264	3075968	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	3536404	78.540ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	2603263	79.013ug/mL
7) 2-Chlorophenol-d4	4.90	132	3570109	79.545ug/ml
13) 4-Methylphenol-d8	5.46	113	2727194	80.802ug/mL
17) Nitrobenzene-d5	5.69	128	1646716	84.706ug/ml
21) 2-Nitrophenol-d4	6.05	143	1863555	80.834ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	3001307	80.562ug/mL
28) 4-Chloroaniline-d4	6.64	131	1882733	67.267ug/mL
42) Dimethylphthalate-d6	8.75	166	7553265	82.158ug/mL
45) Acenaphthylene-d8	8.98	160	9818288	81.106ug/mL
50) 4-Nitrophenol-d4	9.46	143	1329523	87.070ug/mL
57) Fluorene-d10	10.15	176	6660676	81.989ug/mL
61) 4,6-Dinitro-2-methylphenol	10.29	200	1485902	89.921ug/mL
69) Anthracene-d10	11.99	188	10847878	80.920ug/mL
75) Pyrene-d10	14.36	212	10241427	80.148ug/mL
86) Benzo(a)pyrene-d12	18.44	264	11646615	82.736ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.70	77	2294016	79.125ug/ml 94
4) Phenol	4.74	94	3702710	79.442ug/ml 91
5) Bis(2-chloroethyl)ether	4.83	93	3783479	92.253ug/ml 87
8) 2-Chlorophenol	4.92	128	3425297	80.399ug/ml 99
9) 2-Methylphenol	5.32	108	2937557	81.274ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.36	45	4555532	76.870ug/ml 100
11) Acetophenone	5.51	105	4165892	80.845ug/ml 96
12) 4-methylphenol	5.48	108	3071343	81.438ug/ml 98
14) N-Nitroso-di-n-propylamine	5.50	70	2014991	79.620ug/ml 91
15) Hexachloroethane	5.65	117	1680699	83.541ug/ml 77
18) Nitrobenzene	5.70	77	3221351	84.392ug/ml 99
19) Isophorone	5.97	82	5649139	85.796ug/ml 96
20) 2-Nitrophenol	6.07	139	1890873	81.489ug/ml 91
22) 2,4-Dimethylphenol	6.09	107	3087754	82.542ug/ml 93
23) Bis(2-chloroethoxy)methane	6.21	93	3501361	82.149ug/ml 99
24) 2,4-Dichlorophenol	6.37	162	3009132	80.775ug/ml 97
26) Naphthalene	6.59	128	9157682	80.618ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.65	127	2357293	68.602ug/ml	98
29)	Hexachlorobutadiene	6.73	225	2378187	83.442ug/ml	100
30)	Caprolactam	7.15	113	859570	85.968ug/ml	97
31)	4-Chloro-3-methylphenol	7.31	107	2665881	85.579ug/ml	95
32)	2-Methylnaphthalene	7.56	142	6110991	79.514ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.82	216	3737620	78.959ug/mL	97
35)	Hexachlorocyclopentadiene	7.79	237	2670310	93.766ug/ml	98
36)	2,4,6-Trichlorophenol	7.99	196	2497072	85.451ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	2738092	88.803ug/ml	98
38)	1,1'-Biphenyl	8.28	154	7826250	82.833ug/ml	96
39)	2-Chloronaphthalene	8.32	162	6658766	84.256ug/ml	94
40)	2-Nitroaniline	8.48	65	1677452	82.413ug/ml	98
41)	Dimethylphthalate	8.79	163	7171920	80.634ug/ml	99
43)	2,6-Dinitrotoluene	8.89	165	1719586	88.818ug/ml	93
44)	Acenaphthylene	9.00	152	9834430	79.421ug/ml	98
46)	3-Nitroaniline	9.18	138	777507	57.436ug/ml	92
47)	Acenaphthene	9.30	153	6161811	80.263ug/ml	93
48)	2,4-Dinitrophenol	9.35	184	1143327	96.257ug/ml	100
49)	4-Nitrophenol	9.47	109	814051	89.904ug/ml	96
51)	Dibenzofuran	9.60	168	8856778	78.147ug/ml	97
52)	2,4-Dinitrotoluene	9.58	165	2306401	88.165ug/ml	86
53)	2,3,4,6-Tetrachlorophenol	9.81	232	2204141	87.124ug/mL	92
54)	Diethylphthalate	10.02	149	7156170	79.598ug/ml	99
55)	4-Chlorophenyl-phenylether	10.20	204	3556880	73.366ug/ml	93
56)	Fluorene	10.20	166	6787717	75.615ug/ml	98
58)	4-Nitroaniline	10.24	138	1249097	73.940ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.30	198	1644104	89.243ug/ml	89
62)	N-Nitrosodiphenylamine	10.42	169	5087686	79.979ug/ml	97
63)	4-Bromophenyl-phenyl ether	11.08	248	2493739	80.864ug/ml	87
64)	Hexachlorobenzene	11.18	284	2833068	87.073ug/ml	81
65)	Atrazine	11.41	200	2156780	82.529ug/ml	98
66)	Pentachlorophenol	11.55	266	1618609	95.304ug/ml	98
67)	Phenanthrene	11.93	178	10450303	79.835ug/ml	98
68)	Anthracene	12.03	178	10748862	79.837ug/ml	98
70)	Carbazole	12.33	167	8024162	73.476ug/mL	96
71)	Di-n-butylphthalate	13.02	149	12053449	79.248ug/ml	99
72)	Fluoranthene	14.04	202	11744125	78.247ug/ml	90
74)	Pyrene	14.39	202	11851285	75.124ug/ml	90
76)	Butylbenzylphthalate	15.30	149	5625775	83.159ug/ml	92
77)	3,3'-Dichlorobenzidine	15.98	252	3548355	68.325ug/ml	96
78)	Benzo(a)anthracene	16.02	228	12365078	77.554ug/ml	96
79)	Chrysene	16.07	228	11028084	76.651ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	8412841	80.482ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	14166541	78.037ug/ml	96
83) Benzo(b)fluoranthene	17.80	252	13211157	80.470ug/ml	92
84) Benzo(k)fluoranthene	17.86	252	12448185	77.579ug/ml	91
85) Benzo(a)pyrene	18.50	252	12983175	81.514ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.59	276	13278210	87.226ug/ml	76
88) Dibenzo(a,h)anthracene	21.68	278	13716145	87.433ug/ml	89
89) Benzo(g,h,i)perylene	22.53	276	13115401	85.218ug/ml	85

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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.: F9M36

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10

RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	0.927	0.886	0.774	0.886	0.712	0.837	10.8
Phenol	1.355	1.454	1.461	1.395	1.389	1.411	3.2
Bis(2-chloroethyl)ether	1.163	1.129	1.199	1.172	1.220	1.177	3.0
2-Chlorophenol	1.244	1.341	1.351	1.293	1.276	1.301	3.4
2-Methylphenol	1.165	1.104	1.084	1.075	1.032	1.092	4.5
2,2'-Oxybis(1-chloropropane)	1.425	1.351	1.350	1.298	1.222	1.329	5.6
Acetophenone	1.659	1.588	1.569	1.534	1.481	1.566	4.2
4-Methylphenol	1.211	1.142	1.134	1.140	1.101	1.146	3.5
N-Nitroso-di-n-propylamine	0.727	0.695	0.686	0.676	0.653	0.687	3.9
Hexachloroethane	0.640	0.600	0.579	0.583	0.571	0.595	4.6
Nitrobenzene	0.333	0.313	0.300	0.304	0.294	0.309	4.9
Isophorone	0.568	0.540	0.522	0.530	0.516	0.535	3.8
2-Nitrophenol	0.191	0.203	0.203	0.196	0.195	0.197	2.8
2,4-Dimethylphenol	0.293	0.314	0.317	0.304	0.307	0.307	3.0
Bis(2-chloroethoxy)methane	0.365	0.359	0.354	0.354	0.340	0.354	2.6
2,4-Dichlorophenol	0.256	0.277	0.284	0.274	0.270	0.272	3.9
Naphthalene	1.087	1.037	0.984	0.983	0.956	1.009	5.2
4-Chloroaniline	0.405	0.397	0.352	0.279	0.235	0.334	22.2
Hexachlorobutadiene	0.185	0.176	0.169	0.172	0.163	0.173	4.8
Caprolactam	0.099	0.096	0.096	0.099	0.098	0.098	1.5
4-Chloro-3-methylphenol	0.247	0.269	0.274	0.270	0.273	0.266	4.1
2-Methylnaphthalene	0.683	0.670	0.657	0.591	0.620	0.645	5.9
Hexachlorocyclopentadiene	0.340	0.358	0.357	0.363	0.342	0.352	3.0
2,4,6-Trichlorophenol	0.330	0.354	0.368	0.354	0.350	0.351	3.9
2,4,5-Trichlorophenol	0.380	0.387	0.378	0.380	0.362	0.377	2.5
1,1'-Biphenyl	1.499	1.442	1.406	1.348	1.272	1.393	6.3
2-Chloronaphthalene	1.174	1.117	1.064	1.054	0.994	1.081	6.3
2-Nitroaniline		0.294	0.293	0.264	0.283	0.284	4.9
Dimethylphthalate	1.287	1.268	1.250	1.246	1.186	1.247	3.0
2,6-Dinitrotoluene	0.296	0.289	0.285	0.289	0.280	0.288	2.1
Acenaphthylene	1.957	1.901	1.799	1.783	1.701	1.828	5.5
3-Nitroaniline		0.314	0.218	0.157	0.135	0.206	39.0
Acenaphthene	1.211	1.169	1.102	1.093	1.053	1.126	5.6
2,4-Dinitrophenol		0.144	0.176	0.188	0.198	0.176	13.5
4-Nitrophenol		0.148	0.156	0.155	0.154	0.153	2.1
Dibenzofuran	1.575	1.563	1.519	1.353	1.381	1.478	7.0

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.: F9M36

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10
RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.406	0.393	0.386	0.391	0.367	0.388	3.7
Diethylphthalate	1.316	1.297	1.307	1.305	1.224	1.290	2.9
Fluorene	1.328	1.281	1.214	1.187	1.121	1.226	6.6
4-Chlorophenyl-phenylether	0.616	0.600	0.588	0.576	0.529	0.582	5.7
4-Nitroaniline		0.294	0.252	0.226	0.180	0.238	20.1
4,6-Dinitro-2-methylphenol		0.138	0.153	0.150	0.154	0.149	4.9
N-Nitrosodiphenylamine[1]	0.554	0.545	0.533	0.507	0.476	0.523	6.1
1,2,4,5-Tetrachlorobenzene	0.528	0.517	0.516	0.451	0.462	0.495	7.1
4-Bromophenyl-phenylether	0.212	0.204	0.206	0.201	0.194	0.203	3.2
Hexachlorobenzene	0.243	0.232	0.222	0.214	0.208	0.224	6.2
Atrazine	0.210	0.208	0.197	0.180	0.161	0.191	11.0
Pentachlorophenol		0.135	0.145	0.140	0.146	0.141	3.8
Phenanthrene	1.186	1.137	1.083	1.048	1.014	1.094	6.3
Anthracene	1.215	1.170	1.107	1.060	1.028	1.116	6.9
Carbazole	0.999	0.894	0.603	0.504	0.375	0.675	39.0
Di-n-butylphthalate	1.407	1.393	1.414	1.375	1.310	1.380	3.0
Fluoranthene	1.217	1.187	1.126	1.076	1.033	1.128	6.8
Pyrene	1.346	1.285	1.214	1.184	1.164	1.238	6.1
Butylbenzylphthalate	0.643	0.652	0.667	0.665	0.652	0.656	1.6
3,3'-Dichlorobenzidine	0.371	0.345	0.315	0.289	0.296	0.323	10.6
Benzo(a)anthracene	1.200	1.164	1.126	1.093	1.100	1.137	4.0
Chrysene	1.097	1.078	1.036	0.993	0.956	1.032	5.7
Bis(2-ethylhexyl)phthalate	0.956	0.971	0.997	0.978	0.924	0.965	2.8
Di-n-octylphthalate	1.664	1.696	1.750	1.715	1.615	1.688	3.0
Benzo(b)fluoranthene	1.202	1.188	1.132	1.152	1.139	1.163	2.7
Benzo(k)fluoranthene	1.186	1.198	1.135	1.067	1.050	1.127	6.0
Benzo(a)pyrene	1.185	1.162	1.110	1.080	1.070	1.121	4.5
Indeno(1,2,3-cd)pyrene	1.066	1.101	1.071	1.102	1.156	1.099	3.3
Dibenzo(a,h)anthracene	1.139	1.137	1.124	1.118	1.121	1.128	0.9
Benzo(g,h,i)perylene	1.128	1.124	1.101	1.107	1.107	1.113	1.1
2,3,4,6-Tetrachlorophenol	0.257	0.282	0.301	0.293	0.288	0.284	5.9

[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.: F9M36

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10

RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

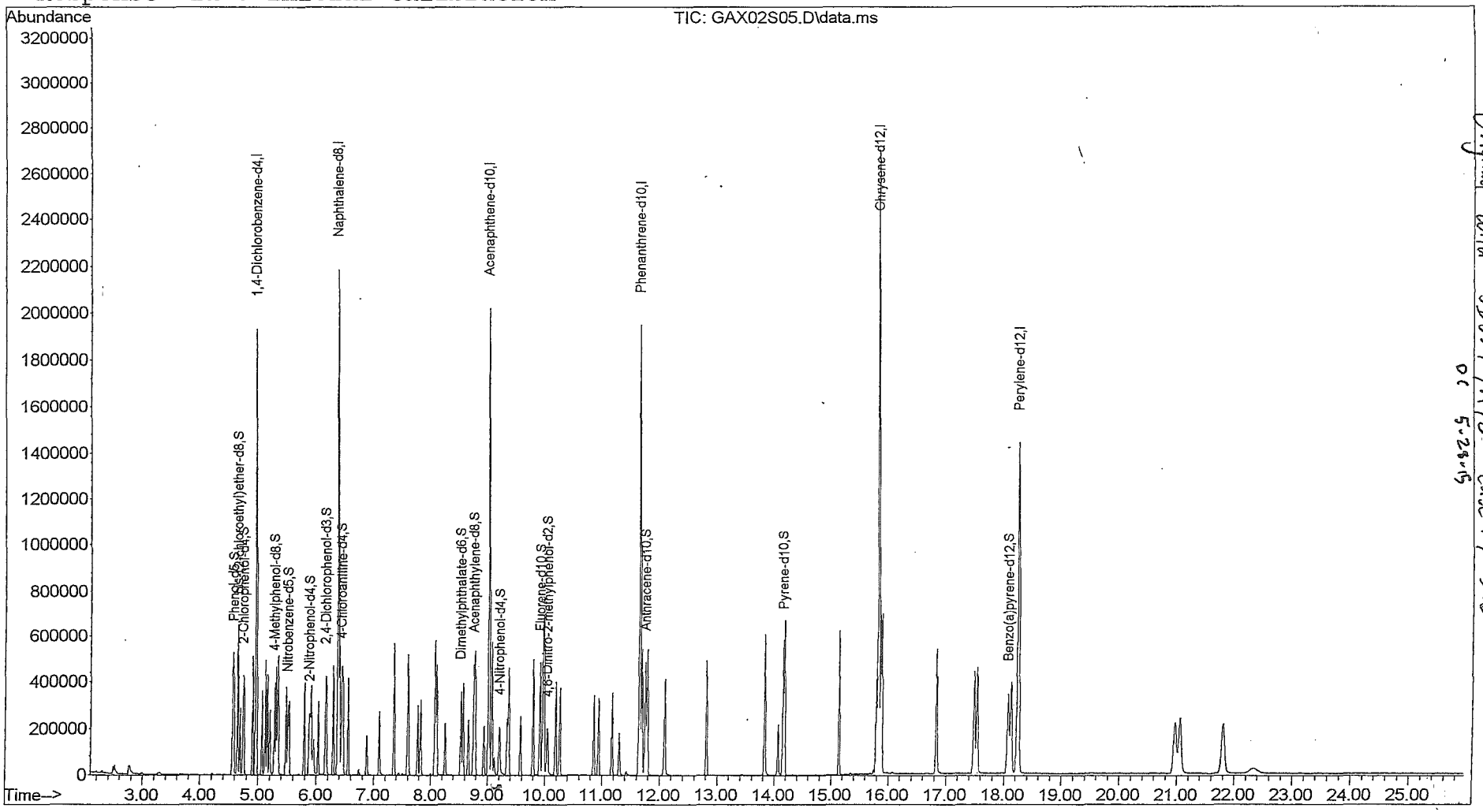
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.477	1.403	1.423	1.351	1.319	1.395	4.4
Bis(2-chloroethyl)ether-d8	0.902	0.865	0.870	0.817	0.817	0.854	4.3
2-Chlorophenol-d4	1.451	1.374	1.397	1.335	1.290	1.369	4.4
4-Methylphenol-d8	1.128	1.096	1.102	1.056	1.046	1.086	3.1
Nitrobenzene-d5	0.176	0.167	0.170	0.164	0.162	0.168	3.3
2-Nitrophenol-d4	0.197	0.185	0.188	0.184	0.181	0.187	3.3
2,4-Dichlorophenol-d3	0.286	0.277	0.278	0.270	0.259	0.274	3.7
4-Chloroaniline-d4	0.374	0.360	0.307	0.250	0.194	0.297	25.5
Dimethylphthalate-d6	1.270	1.234	1.235	1.195	1.148	1.216	3.8
Acenaphthylene-d8	1.707	1.655	1.663	1.585	1.506	1.623	4.9
4-Nitrophenol-d4		0.255	0.265	0.261	0.255	0.259	2.0
Fluorene-d10	1.108	1.077	1.079	1.032	0.986	1.056	4.5
4,6-Dinitro-2-methylphenol-d2		0.123	0.135	0.133	0.135	0.131	4.4
Anthracene-d10	1.075	1.047	1.039	0.962	0.936	1.012	5.9
Pyrene-d10	0.946	0.922	0.928	0.885	0.866	0.909	3.6
Benzo(a)pyrene-d12	0.930	0.926	0.934	0.882	0.864	0.907	3.5

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Original with SDG: F9K48 Case: 45316
DC 5.28.15

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	351338	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1304988	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	717570	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1160895	20.00 ug/ml
73) Chrysene-d12	15.83	240	1127146	20.00 ug/ml
81) Perylene-d12	18.24	264	1096790	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	129756	5.190ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	79252	5.188ug/mL
7) 2-Chlorophenol-d4	4.74	132	127424	5.193ug/ml
13) 4-Methylphenol-d8	5.28	113	99100	5.117ug/mL
17) Nitrobenzene-d5	5.51	128	57567	5.201ug/ml
21) 2-Nitrophenol-d4	5.87	143	64348	5.246ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	93257	5.150ug/mL
28) 4-Chloroaniline-d4	6.43	131	122144	6.091ug/mL
42) Dimethylphthalate-d6	8.53	166	227747	5.139ug/mL
45) Acenaphthylene-d8	8.76	160	306302	5.134ug/mL
50) 4-Nitrophenol-d4	9.20	143	43515	4.577ug/mL
57) Fluorene-d10	9.92	176	198682	5.133ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	31740	4.055ug/mL
69) Anthracene-d10	11.75	188	312030	5.176ug/mL
75) Pyrene-d10	14.15	212	266460	5.097ug/mL
86) Benzo(a)pyrene-d12	18.07	264	255085	4.979ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	81404	5.986ug/ml 97
4) Phenol	4.58	94	119004	4.637ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	102194	4.851ug/ml 94
8) 2-Chlorophenol	4.75	128	109297	4.607ug/ml 94
9) 2-Methylphenol	5.16	108	102365	5.376ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	125151	5.277ug/ml 100
11) Acetophenone	5.34	105	145723	5.287ug/ml 98
12) 4-methylphenol	5.30	108	106343	5.337ug/ml 96
14) N-Nitroso-di-n-propylamine	5.33	70	63813	5.297ug/ml 98
15) Hexachloroethane	5.47	117	56210	5.522ug/ml 99
18) Nitrobenzene	5.53	77	108576	5.538ug/ml 98
19) Isophorone	5.79	82	185226	5.438ug/ml 98
20) 2-Nitrophenol	5.89	139	62226	4.694ug/ml 97
22) 2,4-Dimethylphenol	5.91	107	95679	4.625ug/ml 93
23) Bis(2-chloroethoxy)methane	6.03	93	118962	5.154ug/ml 100
24) 2,4-Dichlorophenol	6.17	162	83468	4.498ug/ml 97
26) Naphthalene	6.40	128	354475	5.521ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.45	127	132115	5.753ug/ml	95
29) Hexachlorobutadiene	6.55	225	60385	5.477ug/ml	99
30) Caprolactam	6.88	113	32425	5.150ug/ml	76
31) 4-Chloro-3-methylphenol	7.09	107	80588	4.512ug/ml	96
32) 2-Methylnaphthalene	7.36	142	222843	5.194ug/ml	96
34) 1,2,4,5-Tetrachlorobenzene	7.60	216	94631	5.114ug/mL	99
35) Hexachlorocyclopentadiene	7.59	237	60993	4.755ug/ml	99
36) 2,4,6-Trichlorophenol	7.77	196	59223	4.486ug/ml	98
37) 2,4,5-Trichlorophenol	7.82	196	68244	5.027ug/ml	97
38) 1,1'-Biphenyl	8.07	154	268913	5.332ug/ml	98
39) 2-Chloronaphthalene	8.10	162	210637	5.520ug/ml	97
40) 2-Nitroaniline	8.25	65	52195	4.961ug/ml	88
41) Dimethylphthalate	8.57	163	230832	5.147ug/ml	98
43) 2,6-Dinitrotoluene	8.66	165	53060	5.197ug/ml	89
44) Acenaphthylene	8.78	152	351012	5.439ug/ml	99
46) 3-Nitroaniline	8.93	138	57015	7.296ug/ml	94
47) Acenaphthene	9.07	153	217332	5.495ug/ml	94
48) 2,4-Dinitrophenol	9.12	184	17983	2.852ug/ml	100
49) 4-Nitrophenol	9.22	109	23827	4.270ug/ml	95
51) Dibenzofuran	9.37	168	282478	5.184ug/ml	99
52) 2,4-Dinitrotoluene	9.35	165	72818	5.264ug/ml	93
53) 2,3,4,6-Tetrachlorophenol	9.57	232	46068	4.267ug/mL	98
54) Diethylphthalate	9.80	149	236055	5.033ug/ml	98
55) 4-Chlorophenyl-phenylether	9.98	204	110468	5.234ug/ml	99
56) Fluorene	9.97	166	238309	5.471ug/ml	98
58) 4-Nitroaniline	9.99	138	53716	5.940ug/ml	76
60) 4,6-Dinitro-2-methylphenol	10.05	198	33622	3.789ug/ml	95
62) N-Nitrosodiphenylamine	10.19	169	160853	5.203ug/ml	100
63) 4-Bromophenyl-phenyl ether	10.86	248	61503	5.152ug/ml	99
64) Hexachlorobenzene	10.95	284	70426	5.471ug/ml	87
65) Atrazine	11.17	200	61076	5.333ug/ml	96
66) Pentachlorophenol	11.30	266	32352	3.833ug/ml	99
67) Phenanthrene	11.69	178	344119	5.472ug/ml	99
68) Anthracene	11.79	178	352716	5.487ug/ml	100
70) Carbazole	12.09	167	289933	8.281ug/mL	99
71) Di-n-butylphthalate	12.81	149	408335	4.974ug/ml	99
72) Fluoranthene	13.83	202	353302	5.404ug/ml	97
74) Pyrene	14.17	202	379379	5.547ug/ml	97
76) Butylbenzylphthalate	15.14	149	181096	4.814ug/ml	92
77) 3,3'-Dichlorobenzidine	15.79	252	104439	5.890ug/ml	97
78) Benzo(a)anthracene	15.82	228	338178	5.331ug/ml	100
79) Chrysene	15.86	228	309146	5.297ug/ml	99
80) Bis-(2-ethylhexyl)phthalat	15.89	149	269512	4.797ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	16.83	149	456292	4.755ug/ml	99
83)	Benzo(b)fluoranthene	17.49	252	329646	5.312ug/ml	99
84)	Benzo(k)fluoranthene	17.53	252	325177	5.226ug/ml	98
85)	Benzo(a)pyrene	18.12	252	324893	5.340ug/ml	98
87)	Indeno(1,2,3-c,d)pyrene	20.97	276	292396	4.978ug/ml	94
88)	Dibenzo(a,h)anthracene	21.06	278	312230	5.066ug/ml	97
89)	Benzo(g,h,i)perylene	21.80	276	309390	5.124ug/ml	96

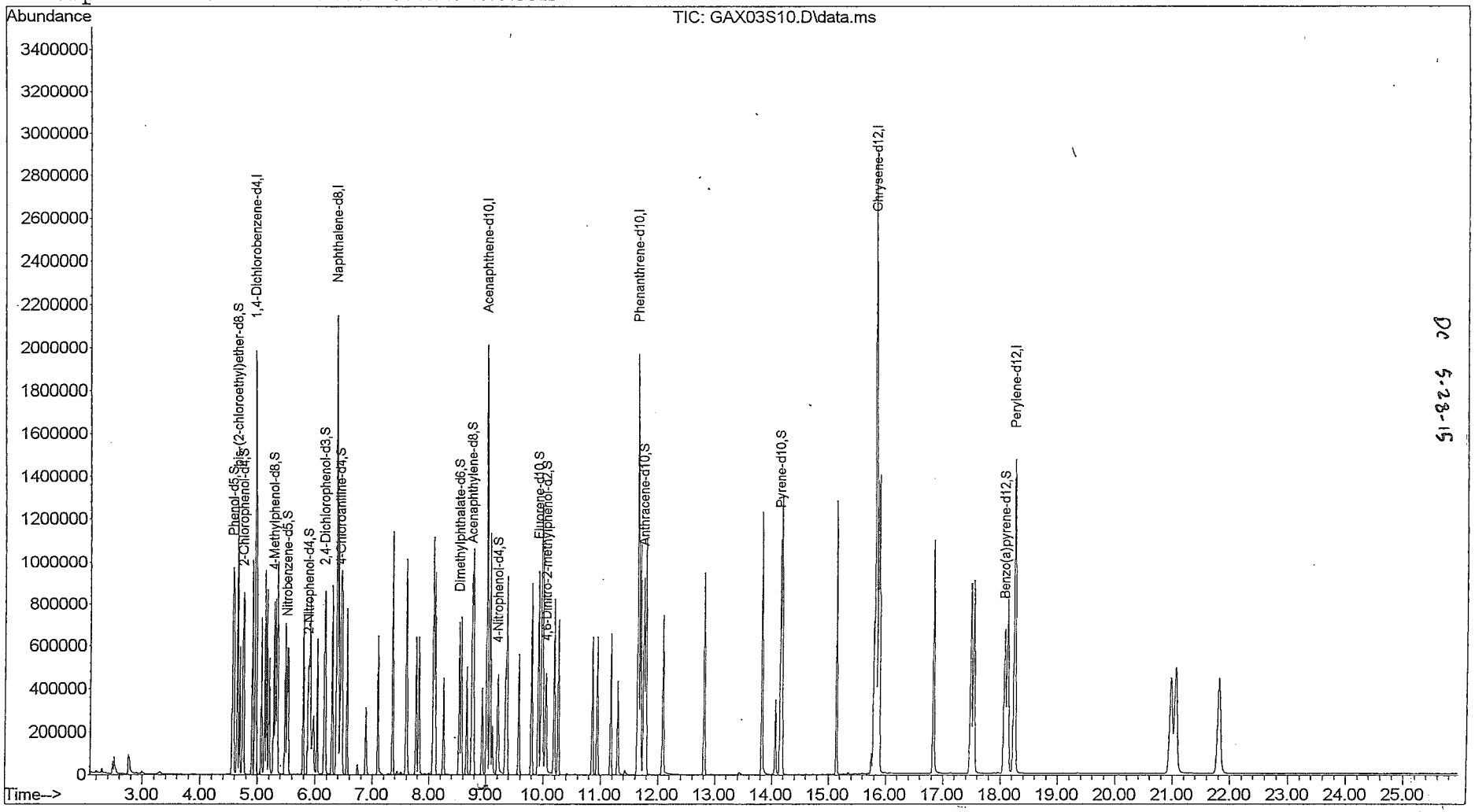
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



5-28-15 DC

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	355748	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1310552	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	716547	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1172306	20.00 ug/ml
73) Chrysene-d12	15.83	240	1133114	20.00 ug/ml
81) Perylene-d12	18.24	264	1101435	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	249576	10.025ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	153785	10.036ug/mL
7) 2-Chlorophenol-d4	4.74	132	244322	10.016ug/ml
13) 4-Methylphenol-d8	5.28	113	195025	10.091ug/mL
17) Nitrobenzene-d5	5.51	128	109241	9.910ug/ml
21) 2-Nitrophenol-d4	5.87	143	121091	9.785ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	181745	10.097ug/mL
28) 4-Chloroaniline-d4	6.43	131	236113	12.463ug/mL
42) Dimethylphthalate-d6	8.53	166	442051	10.190ug/mL
45) Acenaphthylene-d8	8.76	160	592979	10.294ug/mL
50) 4-Nitrophenol-d4	9.20	143	91183	9.937ug/mL
57) Fluorene-d10	9.92	176	385999	10.231ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	72036	9.380ug/mL
69) Anthracene-d10	11.75	188	613487	10.404ug/mL
75) Pyrene-d10	14.15	212	522506	10.269ug/mL
86) Benzo(a)pyrene-d12	18.07	264	509737	10.323ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	157634	9.898ug/ml 97
4) Phenol	4.58	94	258689	10.630ug/ml 98
5) Bis(2-chloroethyl)ether	4.69	93	200740	9.556ug/ml 94
8) 2-Chlorophenol	4.76	128	238503	10.613ug/ml 93
9) 2-Methylphenol	5.16	108	196341	10.141ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	240354	10.185ug/ml 100
11) Acetophenone	5.35	105	282433	10.232ug/ml 98
12) 4-methylphenol	5.31	108	203061	9.967ug/ml 94
14) N-Nitroso-di-n-propylamine	5.33	70	123618	10.339ug/ml 97
15) Hexachloroethane	5.47	117	106639	9.922ug/ml 98
18) Nitrobenzene	5.53	77	205210	9.982ug/ml 97
19) Isophorone	5.79	82	353716	9.941ug/ml 98
20) 2-Nitrophenol	5.89	139	132956	10.593ug/ml 98
22) 2,4-Dimethylphenol	5.91	107	205967	10.466ug/ml 94
23) Bis(2-chloroethoxy)methane	6.03	93	235013	10.349ug/ml 99
24) 2,4-Dichlorophenol	6.17	162	181558	10.420ug/ml 99
26) Naphthalene	6.40	128	679545	10.370ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.45	127	260068	12.085ug/ml	96
29)	Hexachlorobutadiene	6.55	225	115632	10.107ug/ml	99
30)	Caprolactam	6.89	113	62954	9.902ug/ml	78
31)	4-Chloro-3-methylphenol	7.10	107	175987	10.452ug/ml	95
32)	2-Methylnaphthalene	7.36	142	439314	10.380ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.60	216	185248	10.750ug/mL	99
35)	Hexachlorocyclopentadiene	7.59	237	128297	9.792ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	126962	10.505ug/ml	99
37)	2,4,5-Trichlorophenol	7.82	196	138482	10.233ug/ml	99
38)	1,1'-Biphenyl	8.07	154	516532	10.399ug/ml	98
39)	2-Chloronaphthalene	8.10	162	400214	10.219ug/ml	97
40)	2-Nitroaniline	8.26	65	105484	10.363ug/ml	89
41)	Dimethylphthalate	8.57	163	454227	10.512ug/ml	99
43)	2,6-Dinitrotoluene	8.66	165	103384	10.031ug/ml	89
44)	Acenaphthylene	8.78	152	681014	10.588ug/ml	99
46)	3-Nitroaniline	8.93	138	112627	15.015ug/ml	92
47)	Acenaphthene	9.07	153	418960	10.533ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	51429	8.295ug/ml	100
49)	4-Nitrophenol	9.22	109	53189	10.178ug/ml	93
51)	Dibenzofuran	9.37	168	559856	10.586ug/ml	100
52)	2,4-Dinitrotoluene	9.35	165	140848	10.160ug/ml	93
53)	2,3,4,6-Tetrachlorophenol	9.57	232	101139	10.262ug/mL	97
54)	Diethylphthalate	9.80	149	464578	10.393ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	215041	10.663ug/ml	98
56)	Fluorene	9.97	166	458788	10.657ug/ml	98
58)	4-Nitroaniline	9.99	138	105465	12.300ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.05	198	80806	9.540ug/ml	96
62)	N-Nitrosodiphenylamine	10.19	169	319677	10.715ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.86	248	119585	10.271ug/ml	99
64)	Hexachlorobenzene	10.95	284	135754	10.316ug/ml	87
65)	Atrazine	11.18	200	122008	10.981ug/ml	97
66)	Pentachlorophenol	11.30	266	78889	9.983ug/ml	99
67)	Phenanthrene	11.69	178	666492	10.716ug/ml	100
68)	Anthracene	11.79	178	685821	10.696ug/ml	100
70)	Carbazole	12.09	167	523995	13.103ug/mL	98
71)	Di-n-butylphthalate	12.81	149	816796	10.328ug/ml	99
72)	Fluoranthene	13.83	202	695764	10.733ug/ml	96
74)	Pyrene	14.18	202	727911	10.705ug/ml	97
76)	Butylbenzylphthalate	15.14	149	369545	10.275ug/ml	91
77)	3,3'-Dichlorobenzidine	15.79	252	195190	10.683ug/ml	99
78)	Benzo(a)anthracene	15.82	228	659738	10.548ug/ml	100
79)	Chrysene	15.86	228	610480	10.722ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	550385	10.297ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00323

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.83	149	934198	10.363ug/ml	99
83) Benzo(b)fluoranthene	17.49	252	653984	10.428ug/ml	98
84) Benzo(k)fluoranthene	17.54	252	659985	10.976ug/ml	98
85) Benzo(a)pyrene	18.12	252	640124	10.609ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	20.97	276	606590	10.184ug/ml	92
88) Dibenzo(a,h)anthracene	21.06	278	626411	10.221ug/ml	97
89) Benzo(g,h,i)perylene	21.81	276	618779	10.244ug/ml	96

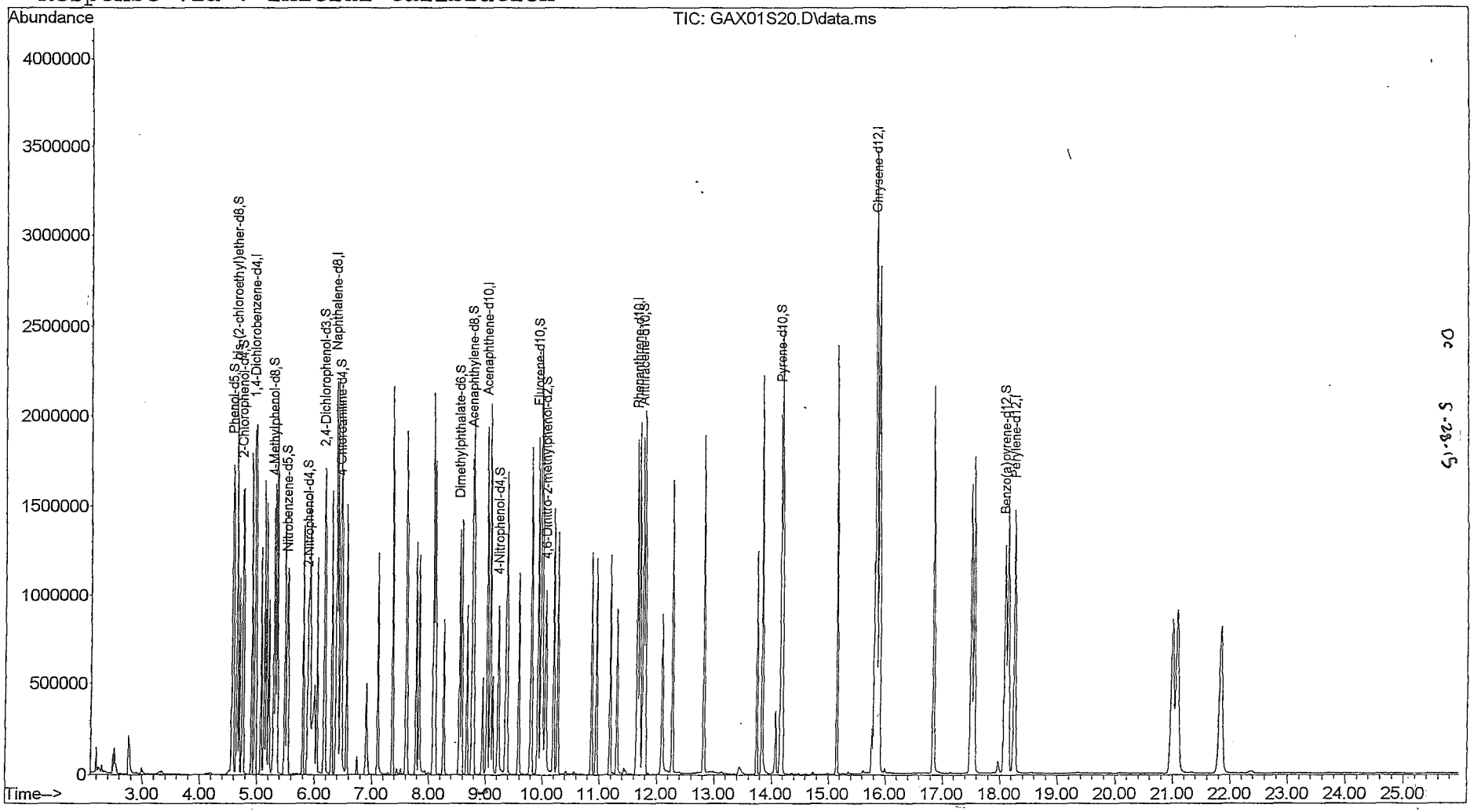
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	339445	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1263698	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	695180	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1134114	20.00 ug/ml
73) Chrysene-d12	15.84	240	1090547	20.00 ug/ml
81) Perylene-d12	18.26	264	1082942	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	483117	20.338ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	295189	20.190ug/mL
7) 2-Chlorophenol-d4	4.75	132	474152	20.371ug/ml
13) 4-Methylphenol-d8	5.29	113	374219	20.292ug/mL
17) Nitrobenzene-d5	5.52	128	214365	20.168ug/ml
21) 2-Nitrophenol-d4	5.88	143	237577	19.909ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	350732	20.208ug/mL
28) 4-Chloroaniline-d4	6.45	131	388346	21.258ug/mL
42) Dimethylphthalate-d6	8.54	166	858724	20.403ug/mL
45) Acenaphthylene-d8	8.76	160	1156050	20.687ug/mL
50) 4-Nitrophenol-d4	9.22	143	184202	20.690ug/mL
57) Fluorene-d10	9.92	176	749979	20.489ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	152923	20.582ug/mL
69) Anthracene-d10	11.76	188	1177918	20.648ug/mL
75) Pyrene-d10	14.16	212	1011585	20.658ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1011724	20.838ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	262783	17.293ug/ml	93
4) Phenol	4.59	94	495889	21.355ug/ml	98
5) Bis(2-chloroethyl)ether	4.69	93	407057	20.309ug/ml	89
8) 2-Chlorophenol	4.76	128	458467	21.380ug/ml	94
9) 2-Methylphenol	5.16	108	367930	19.917ug/ml	96
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	458241	20.350ug/ml	100
11) Acetophenone	5.35	105	532547	20.220ug/ml	98
12) 4-methylphenol	5.31	108	385051	19.808ug/ml	96
14) N-Nitroso-di-n-propylamine	5.34	70	232783	20.404ug/ml	98
15) Hexachloroethane	5.48	117	196696	19.181ug/ml	97
18) Nitrobenzene	5.53	77	379695	19.153ug/ml	96
19) Isophorone	5.80	82	659650	19.226ug/ml	98
20) 2-Nitrophenol	5.89	139	256727	21.213ug/ml	99
22) 2,4-Dimethylphenol	5.92	107	400664	21.114ug/ml	96
23) Bis(2-chloroethoxy)methane	6.04	93	447007	20.413ug/ml	99
24) 2,4-Dichlorophenol	6.17	162	359394	21.392ug/ml	99
26) Naphthalene	6.40	128	1243481	19.680ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	444785	21.434ug/ml	96
29)	Hexachlorobutadiene	6.56	225	213543	19.356ug/ml	99
30)	Caprolactam	6.90	113	121928	19.889ug/ml	77
31)	4-Chloro-3-methylphenol	7.10	107	345939	21.307ug/ml	96
32)	2-Methylnaphthalene	7.36	142	830875	20.361ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	358547	21.446ug/mL	99
35)	Hexachlorocyclopentadiene	7.60	237	248515	19.551ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	255807	21.816ug/ml	100
37)	2,4,5-Trichlorophenol	7.83	196	263035	20.035ug/ml	99
38)	1,1'-Biphenyl	8.08	154	977208	20.278ug/ml	98
39)	2-Chloronaphthalene	8.11	162	739340	19.459ug/ml	98
40)	2-Nitroaniline	8.26	65	203870	20.645ug/ml	87
41)	Dimethylphthalate	8.58	163	868989	20.729ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	197806	19.782ug/ml	89
44)	Acenaphthylene	8.79	152	1250435	20.039ug/ml	99
46)	3-Nitroaniline	8.95	138	151423	20.808ug/ml	93
47)	Acenaphthene	9.08	153	766271	19.858ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	122157	20.309ug/ml	100
49)	4-Nitrophenol	9.23	109	108118	21.324ug/ml	91
51)	Dibenzofuran	9.37	168	1055793	20.576ug/ml	99
52)	2,4-Dinitrotoluene	9.35	165	268016	19.927ug/ml	93
53)	2,3,4,6-Tetrachlorophenol	9.59	232	209171	21.875ug/mL	97
54)	Diethylphthalate	9.80	149	908689	20.952ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	408974	20.902ug/ml	98
56)	Fluorene	9.97	166	843999	20.207ug/ml	98
58)	4-Nitroaniline	10.00	138	175210	21.061ug/ml	66
60)	4,6-Dinitro-2-methylphenol	10.06	198	173394	21.159ug/ml	92
62)	N-Nitrosodiphenylamine	10.20	169	604002	20.927ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	233264	20.709ug/ml	100
64)	Hexachlorobenzene	10.95	284	251528	19.756ug/ml	87
65)	Atrazine	11.19	200	223784	20.820ug/ml	97
66)	Pentachlorophenol	11.31	266	164904	21.571ug/ml	99
67)	Phenanthrene	11.70	178	1228639	20.419ug/ml	99
68)	Anthracene	11.79	178	1255885	20.247ug/ml	100
70)	Carbazole	12.09	167	684105	17.683ug/mL	98
71)	Di-n-butylphthalate	12.82	149	1604143	20.967ug/ml	99
72)	Fluoranthene	13.83	202	1277344	20.369ug/ml	97
74)	Pyrene	14.19	202	1323437	20.223ug/ml	97
76)	Butylbenzylphthalate	15.14	149	727929	21.031ug/ml	92
77)	3,3'-Dichlorobenzidine	15.80	252	343104	19.511ug/ml	99
78)	Benzo(a)anthracene	15.82	228	1227605	20.394ug/ml	100
79)	Chrysene	15.87	228	1129363	20.610ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1087258	21.136ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	1894953	21.380ug/ml	100
83) Benzo(b)fluoranthene	17.50	252	1225511	19.875ug/ml	98
84) Benzo(k)fluoranthene	17.55	252	1228835	20.785ug/ml	98
85) Benzo(a)pyrene	18.14	252	1201527	20.254ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	21.00	276	1159910	19.806ug/ml	92
88) Dibenzo(a,h)anthracene	21.08	278	1217054	20.197ug/ml	97
89) Benzo(g,h,i)perylene	21.84	276	1192283	20.075ug/ml	96

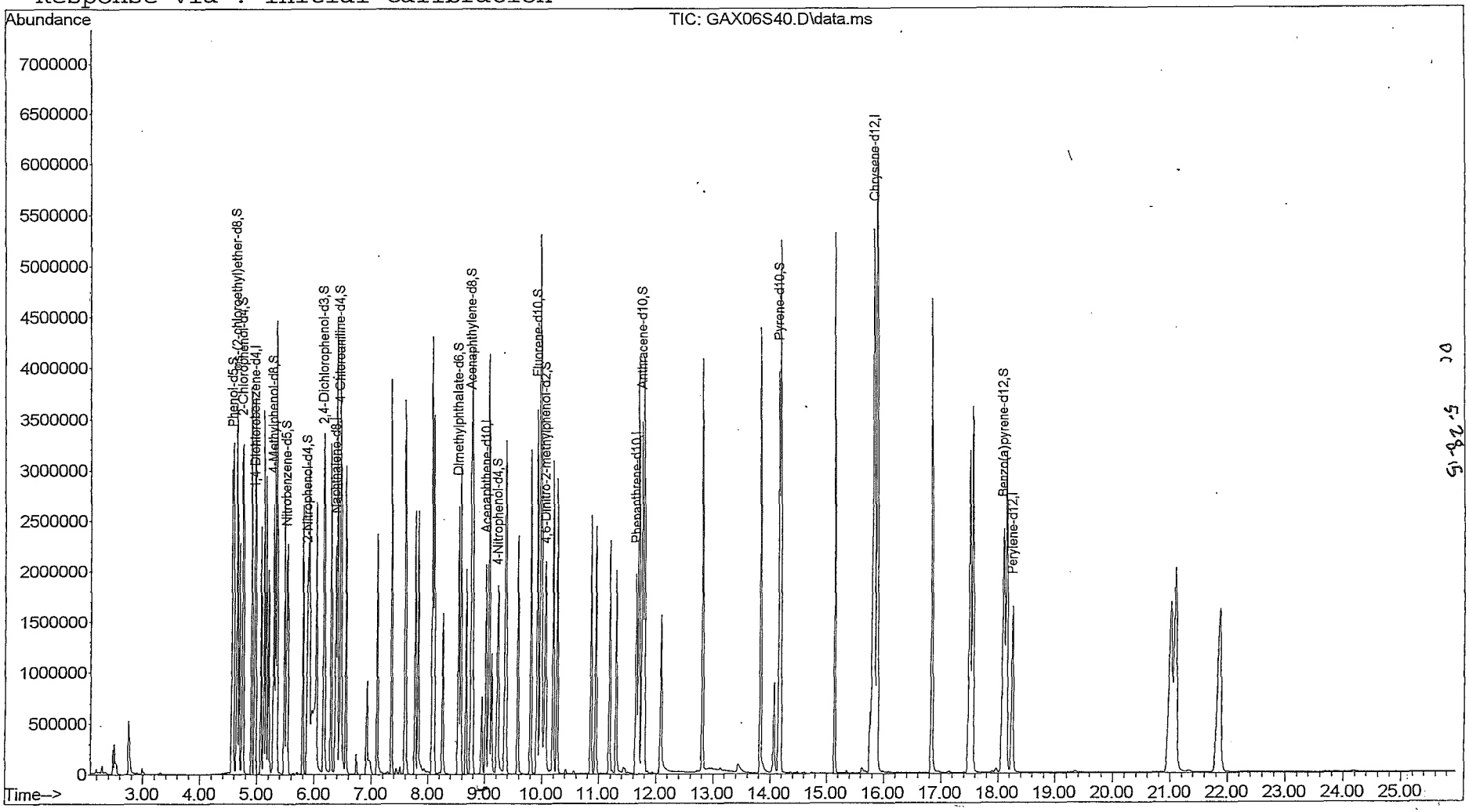
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	356855	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1321883	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	742931	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1245463	20.00 ug/ml
73) Chrysene-d12	15.83	240	1172449	20.00 ug/ml
81) Perylene-d12	18.25	264	1190170	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	963937	37.659ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	582884	37.172ug/mL
7) 2-Chlorophenol-d4	4.75	132	953158	37.966ug/ml
13) 4-Methylphenol-d8	5.29	113	753888	38.098ug/mL
17) Nitrobenzene-d5	5.52	128	434096	38.424ug/ml
21) 2-Nitrophenol-d4	5.88	143	486359	38.727ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	714738	38.587ug/mL
28) 4-Chloroaniline-d4	6.45	131	660458	28.769ug/mL
42) Dimethylphthalate-d6	8.54	166	1776092	38.367ug/mL
45) Acenaphthylene-d8	8.76	160	2354402	37.836ug/mL
50) 4-Nitrophenol-d4	9.22	143	388511	40.267ug/mL
57) Fluorene-d10	9.92	176	1533842	37.955ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	331171	41.267ug/mL
69) Anthracene-d10	11.76	188	2397355	36.544ug/mL
75) Pyrene-d10	14.16	212	2074679	37.980ug/mL
86) Benzo(a)pyrene-d12	18.09	264	2098592	37.918ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	632003	41.073ug/ml	95
4) Phenol	4.59	94	995640	39.204ug/ml	98
5) Bis(2-chloroethyl)ether	4.69	93	836652	40.293ug/ml	90
8) 2-Chlorophenol	4.76	128	922966	39.428ug/ml	94
9) 2-Methylphenol	5.16	108	767472	38.483ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	926148	37.740ug/ml	100
11) Acetophenone	5.35	105	1095078	38.233ug/ml	98
12) 4-methylphenol	5.32	108	813941	39.250ug/ml	96
14) N-Nitroso-di-n-propylamine	5.35	70	482462	38.495ug/ml	96
15) Hexachloroethane	5.48	117	416258	38.477ug/ml	97
18) Nitrobenzene	5.53	77	803948	38.556ug/ml	97
19) Isophorone	5.80	82	1401913	39.049ug/ml	98
20) 2-Nitrophenol	5.89	139	517851	39.386ug/ml	100
22) 2,4-Dimethylphenol	5.92	107	804998	39.516ug/ml	96
23) Bis(2-chloroethoxy)methane	6.04	93	936581	39.471ug/ml	96
24) 2,4-Dichlorophenol	6.18	162	725691	40.302ug/ml	99
26) Naphthalene	6.40	128	2599955	37.976ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
27)	4-Chloroaniline	6.46	127	738693	29.060ug/ml		96
29)	Hexachlorobutadiene	6.56	225	455009	38.928ug/ml		99
30)	Caprolactam	6.93	113	261604	40.673ug/ml	m	77
31)	4-Chloro-3-methylphenol	7.10	107	714560	41.090ug/ml	DC 5-29-15	95
32)	2-Methylnaphthalene	7.36	142	1563318	35.286ug/ml		96
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	670536	34.706ug/mL		99
35)	Hexachlorocyclopentadiene	7.60	237	539352	41.265ug/ml		99
36)	2,4,6-Trichlorophenol	7.77	196	526132	40.373ug/ml		100
37)	2,4,5-Trichlorophenol	7.83	196	565168	39.853ug/ml		99
38)	1,1'-Biphenyl	8.08	154	2003146	37.220ug/ml		96
39)	2-Chloronaphthalene	8.11	162	1566218	37.705ug/ml		98
40)	2-Nitroaniline	8.26	65	392894	35.995ug/ml		86
41)	Dimethylphthalate	8.58	163	1851827	39.309ug/ml		99
43)	2,6-Dinitrotoluene	8.67	165	429694	39.940ug/ml		89
44)	Acenaphthylene	8.79	152	2649191	37.826ug/ml		99
46)	3-Nitroaniline	8.95	138	233104	23.583ug/ml		93
47)	Acenaphthene	9.08	153	1624548	37.667ug/ml		94
48)	2,4-Dinitrophenol	9.12	184	279037	47.057ug/ml		100
49)	4-Nitrophenol	9.23	109	230717	40.864ug/ml		91
51)	Dibenzofuran	9.37	168	2010801	34.878ug/ml		98
52)	2,4-Dinitrotoluene	9.36	165	580416	39.571ug/ml		96
53)	2,3,4,6-Tetrachlorophenol	9.58	232	434768	41.801ug/mL		97
54)	Diethylphthalate	9.81	149	1939039	39.952ug/ml		98
55)	4-Chlorophenyl-phenylether	9.99	204	856426	38.334ug/ml		98
56)	Fluorene	9.97	166	1763393	37.251ug/ml		98
58)	4-Nitroaniline	10.00	138	335731	33.082ug/ml		65
60)	4,6-Dinitro-2-methylphenol	10.07	198	374489	41.367ug/ml		93
62)	N-Nitrosodiphenylamine	10.20	169	1263821	37.302ug/ml		99
63)	4-Bromophenyl-phenyl ether	10.86	248	500886	38.819ug/ml		99
64)	Hexachlorobenzene	10.95	284	533136	36.899ug/ml		88
65)	Atrazine	11.19	200	447963	35.038ug/ml		97
66)	Pentachlorophenol	11.30	266	347848	39.900ug/ml		99
67)	Phenanthrene	11.70	178	2611675	36.939ug/ml		100
68)	Anthracene	11.79	178	2640326	36.418ug/ml		99
70)	Carbazole	12.09	167	1255940	24.239ug/mL		98
71)	Di-n-butylphthalate	12.82	149	3425149	39.148ug/ml		99
72)	Fluoranthene	13.83	202	2679398	36.560ug/ml		97
74)	Pyrene	14.19	202	2776024	36.950ug/ml		97
76)	Butylbenzylphthalate	15.14	149	1559120	40.658ug/ml		91
77)	3,3'-Dichlorobenzidine	15.79	252	677779	33.683ug/ml		99
78)	Benzo(a)anthracene	15.82	228	2562358	37.570ug/ml		100
79)	Chrysene	15.87	228	2328231	37.115ug/ml		99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	2292896	40.117ug/ml		98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

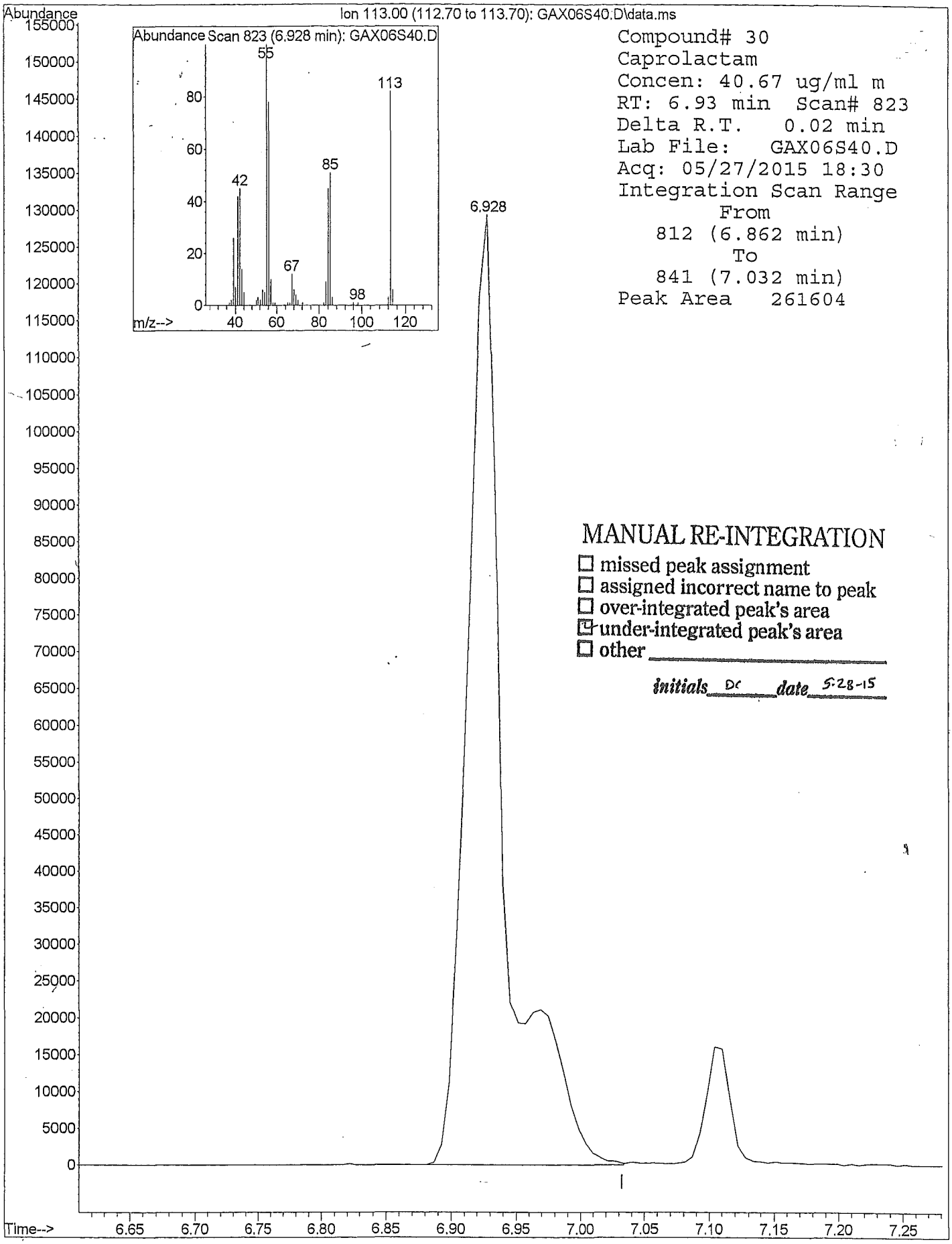
Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	4081868	40.268ug/ml	100
83) Benzo(b)fluoranthene	17.50	252	2742953	39.269ug/ml	98
84) Benzo(k)fluoranthene	17.56	252	2540766	36.398ug/ml	98
85) Benzo(a)pyrene	18.15	252	2571746	37.506ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	21.02	276	2622046	40.812ug/ml	93
88) Dibenzo(a,h)anthracene	21.10	278	2661464	39.463ug/ml	97
89) Benzo(g,h,i)perylene	21.86	276	2634380	39.610ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Caprolactam



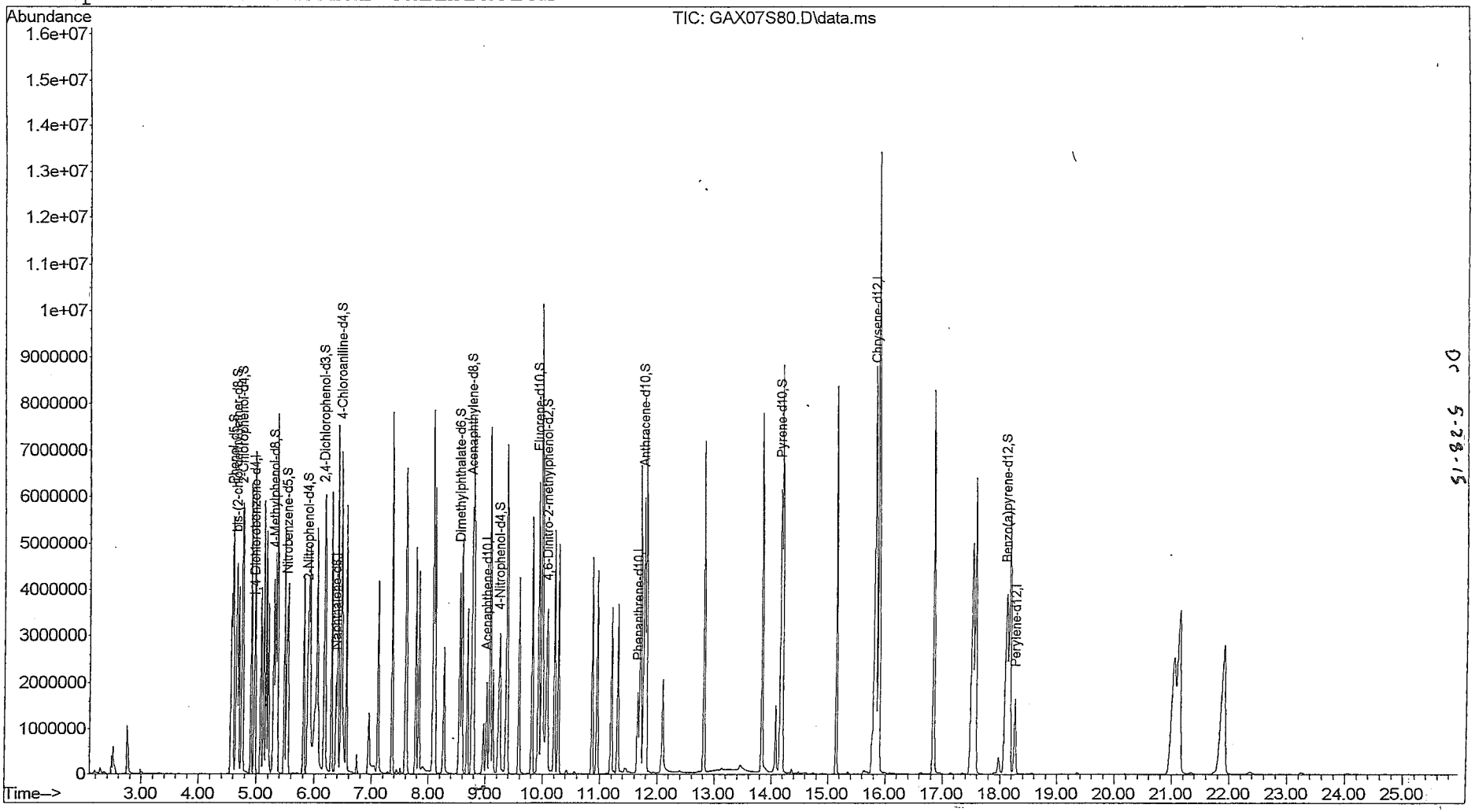
GSOM01D4.M 5975-G GSOM01D4.M SSTD040GX 28170 . X06/19/15

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	336609	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1261945	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	721452	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1184175	20.00 ug/ml
73) Chrysene-d12	15.84	240	1083704	20.00 ug/ml
81) Perylene-d12	18.26	264	1142790	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.59	99	1776159	74.657ug/ml
6) bis-(2-chloroethyl)ether-d	4.66	67	1099583	75.679ug/mL
7) 2-Chlorophenol-d4	4.75	132	1736970	74.292ug/ml
13) 4-Methylphenol-d8	5.30	113	1408058	76.343ug/mL
17) Nitrobenzene-d5	5.52	128	817817	76.581ug/ml
21) 2-Nitrophenol-d4	5.88	143	913715	76.823ug/mL
25) 2,4-Dichlorophenol-d3	6.17	165	1305530	74.488ug/mL
28) 4-Chloroaniline-d4	6.46	131	979203	48.052ug/mL
42) Dimethylphthalate-d6	8.55	166	3311840	74.431ug/mL
45) Acenaphthylene-d8	8.77	160	4346851	72.921ug/mL
50) 4-Nitrophenol-d4	9.24	143	736166	78.397ug/mL
57) Fluorene-d10	9.93	176	2846305	73.468ug/mL
61) 4,6-Dinitro-2-methylphenol	10.07	200	638522	82.810ug/mL
69) Anthracene-d10	11.77	188	4432038	72.624ug/mL
75) Pyrene-d10	14.16	212	3754163	75.304ug/mL
86) Benzo(a)pyrene-d12	18.11	264	3950537	75.319ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	958399	65.591ug/ml	94
4) Phenol	4.60	94	1870612	78.477ug/ml	96
5) Bis(2-chloroethyl)ether	4.70	93	1641994	83.681ug/ml	91
8) 2-Chlorophenol	4.76	128	1718478	78.106ug/ml	94
9) 2-Methylphenol	5.16	108	1388921	74.539ug/ml	96
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	1645722	72.114ug/ml	100
11) Acetophenone	5.36	105	1994281	74.640ug/ml	75
12) 4-methylphenol	5.33	108	1482530	76.148ug/ml	95
14) N-Nitroso-di-n-propylamine	5.36	70	878558	75.021ug/ml	95
15) Hexachloroethane	5.48	117	768198	76.004ug/ml	97
18) Nitrobenzene	5.55	77	1484874	75.274ug/ml	97
19) Isophorone	5.82	82	2607032	76.521ug/ml	98
20) 2-Nitrophenol	5.90	139	982117	78.546ug/ml	99
22) 2,4-Dimethylphenol	5.92	107	1548501	79.866ug/ml	96
23) Bis(2-chloroethoxy)methane	6.05	93	1716719	76.037ug/ml	96
24) 2,4-Dichlorophenol	6.19	162	1362951	79.138ug/ml	99
26) Naphthalene	6.41	128	4827959	74.814ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
27)	4-Chloroaniline	6.47	127	1188008	52.548ug/ml		97
29)	Hexachlorobutadiene	6.56	225	821313	74.101ug/ml		99
30)	Caprolactam	6.96	113	492827	79.925ug/ml	m	74
31)	4-Chloro-3-methylphenol	7.12	107	1376409	82.347ug/ml	ok 5-28-15	95
32)	2-Methylnaphthalene	7.36	142	3130945	76.273ug/ml		97
34)	1,2,4,5-Tetrachlorobenzene	7.62	216	1333950	73.533ug/mL		99
35)	Hexachlorocyclopentadiene	7.60	237	986752	77.133ug/ml		99
36)	2,4,6-Trichlorophenol	7.78	196	1011164	79.716ug/ml		99
37)	2,4,5-Trichlorophenol	7.83	196	1043461	75.840ug/ml		100
38)	1,1'-Biphenyl	8.09	154	3670271	71.469ug/ml		97
39)	2-Chloronaphthalene	8.12	162	2869928	72.182ug/ml		99
40)	2-Nitroaniline	8.27	65	815663	79.609ug/ml		87
41)	Dimethylphthalate	8.59	163	3421612	75.118ug/ml		99
43)	2,6-Dinitrotoluene	8.69	165	807631	77.333ug/ml		88
44)	Acenaphthylene	8.79	152	4909087	73.175ug/ml		99
46)	3-Nitroaniline	8.97	138	389562	47.018ug/ml		94
47)	Acenaphthene	9.09	153	3038712	73.628ug/ml		93
48)	2,4-Dinitrophenol	9.13	184	572566	93.909ug/ml		100
49)	4-Nitrophenol	9.26	109	443860	80.377ug/ml		92
51)	Dibenzofuran	9.38	168	3985419	73.541ug/ml		97
52)	2,4-Dinitrotoluene	9.37	165	1058001	74.479ug/ml		94
53)	2,3,4,6-Tetrachlorophenol	9.59	232	831382	81.398ug/mL		97
54)	Diethylphthalate	9.82	149	3532711	74.977ug/ml		97
55)	4-Chlorophenyl-phenylether	9.99	204	1526592	71.106ug/ml		97
56)	Fluorene	9.98	166	3235389	71.612ug/ml		98
58)	4-Nitroaniline	10.02	138	520336	56.029ug/ml		72
60)	4,6-Dinitro-2-methylphenol	10.09	198	727805	83.603ug/ml		92
62)	N-Nitrosodiphenylamine	10.20	169	2253516	71.156ug/ml		100
63)	4-Bromophenyl-phenyl ether	10.87	248	919376	75.497ug/ml		99
64)	Hexachlorobenzene	10.96	284	985468	73.154ug/ml		88
65)	Atrazine	11.20	200	760746	64.586ug/ml		96
66)	Pentachlorophenol	11.31	266	691078	83.443ug/ml		99
67)	Phenanthrene	11.71	178	4803842	72.854ug/ml		100
68)	Anthracene	11.80	178	4869848	72.264ug/ml		99
70)	Carbazole	12.10	167	1776711	40.005ug/mL		99
71)	Di-n-butylphthalate	12.82	149	6204078	74.980ug/ml		99
72)	Fluoranthene	13.84	202	4892842	71.760ug/ml		97
74)	Pyrene	14.20	202	5044772	74.059ug/ml		97
76)	Butylbenzylphthalate	15.15	149	2825747	79.396ug/ml		92
77)	3,3'-Dichlorobenzidine	15.80	252	1283930	71.868ug/ml		99
78)	Benzo(a)anthracene	15.83	228	4767242	76.788ug/ml		100
79)	Chrysene	15.88	228	4143133	72.768ug/ml		100
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	4003384	75.725ug/ml		97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

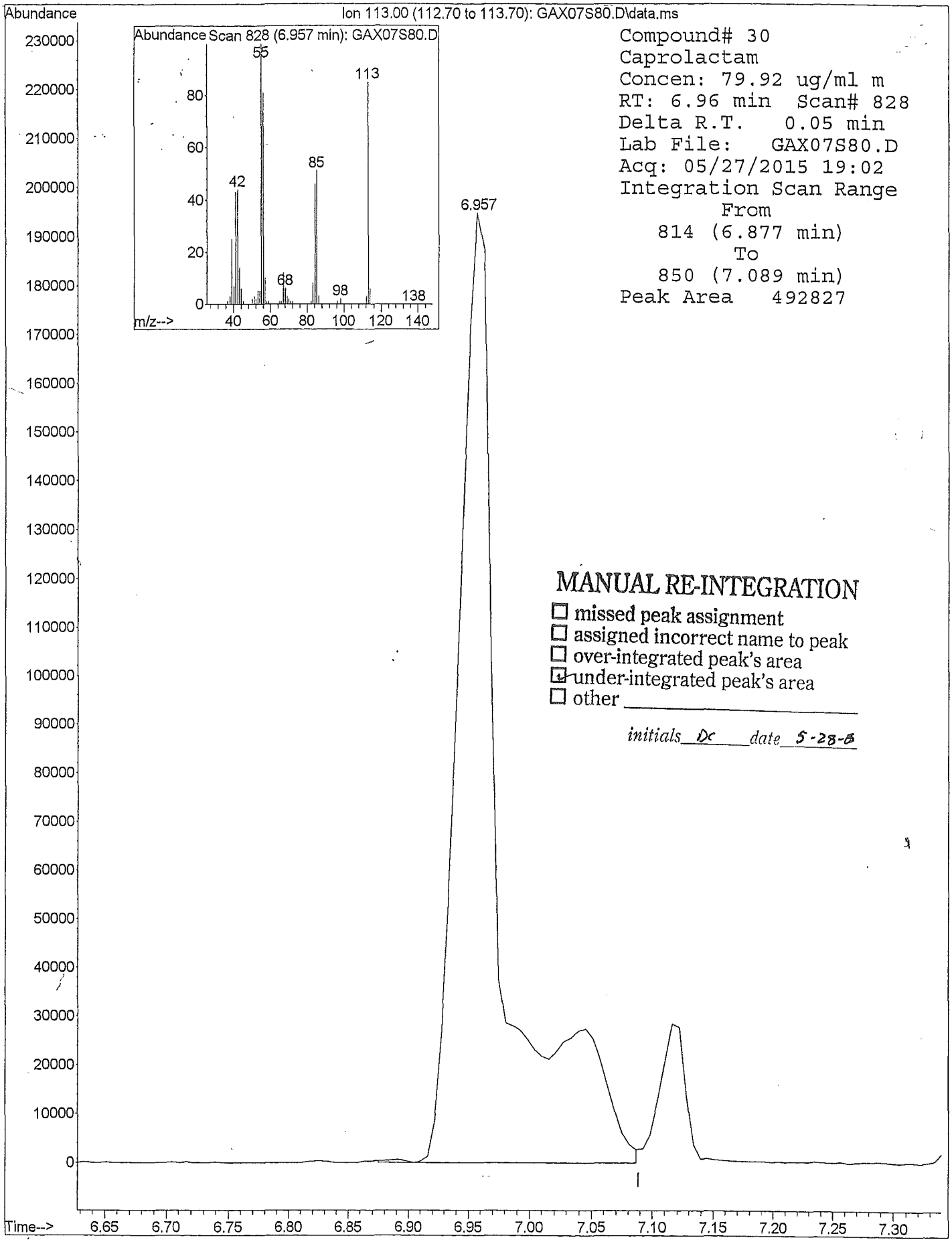
Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	7380781	75.704ug/ml	100
83) Benzo(b)fluoranthene	17.52	252	5207150	77.994ug/ml	98
84) Benzo(k)fluoranthene	17.57	252	4800315	73.268ug/ml	98
85) Benzo(a)pyrene	18.17	252	4891017	75.464ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	21.04	276	5284602	85.232ug/ml	92
88) Dibenzo(a,h)anthracene	21.14	278	5124292	79.397ug/ml	97
89) Benzo(g,h,i)perylene	21.91	276	5060149	79.431ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Caprolactam



GSOM01D4.M 5975-G GSOM01D4.M SSTD080GX 28171 . 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.: F9M36

Instrument ID: 5975-D Calibration Date: 06/17/2015 Time: 13:06

Lab File ID: DED02S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DD Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.801	0.784	0.010	-2.1	40.0
Phenol	1.288	1.406	0.800	9.1	25.0
Bis(2-chloroethyl)ether	1.134	1.102	0.700	-2.8	25.0
2-Chlorophenol	1.178	1.243	0.800	5.6	25.0
2-Methylphenol	0.999	1.068	0.700	6.9	25.0
2,2'-Oxybis(1-chloropropane)	1.638	1.789	0.010	9.2	40.0
Acetophenone	1.424	1.595	0.010	12.0	40.0
4-Methylphenol	1.043	1.145	0.600	9.9	25.0
N-Nitroso-di-n-propylamine	0.700	0.780	0.500	11.5	25.0
Hexachloroethane	0.556	0.593	0.300	6.7	25.0
Nitrobenzene	0.322	0.350	0.200	8.9	25.0
Isophorone	0.555	0.605	0.400	9.0	25.0
2-Nitrophenol	0.196	0.199	0.100	1.8	25.0
2,4-Dimethylphenol	0.315	0.317	0.200	0.7	25.0
Bis(2-chloroethoxy)methane	0.359	0.376	0.300	4.8	25.0
2,4-Dichlorophenol	0.314	0.332	0.200	5.8	25.0
Naphthalene	0.957	1.020	0.700	6.5	25.0
4-Chloroaniline	0.290	0.364	0.010	25.7	40.0
Hexachlorobutadiene	0.240	0.244	0.010	1.4	40.0
Caprolactam	0.084	0.095	0.010	12.9	40.0
4-Chloro-3-methylphenol	0.262	0.272	0.200	3.5	25.0
2-Methylnaphthalene	0.648	0.678	0.400	4.6	25.0
Hexachlorocyclopentadiene	0.382	0.444	0.010	16.3	40.0
2,4,6-Trichlorophenol	0.392	0.398	0.200	1.6	25.0
2,4,5-Trichlorophenol	0.414	0.419	0.200	1.4	25.0
1,1'-Biphenyl	1.267	1.334	0.010	5.2	40.0
2-Chloronaphthalene	1.060	1.087	0.800	2.5	25.0
2-Nitroaniline	0.273	0.290	0.010	6.2	40.0
Dimethylphthalate	1.193	1.194	0.010	0.1	40.0
2,6-Dinitrotoluene	0.260	0.267	0.200	2.9	25.0
Acenaphthylene	1.661	1.775	0.900	6.9	25.0
3-Nitroaniline	0.182	0.235	0.010	29.6	40.0
Acenaphthene	1.030	1.102	0.900	7.0	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.: F9M36

Instrument ID: 5975-D Calibration Date: 06/17/2015 Time: 13:06

Lab File ID: DED02S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DD Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.159	0.171	0.010	7.1	40.0
4-Nitrophenol	0.121	0.148	0.010	21.8	40.0
Dibenzofuran	1.520	1.538	0.800	1.2	25.0
2,4-Dinitrotoluene	0.351	0.369	0.200	5.3	25.0
Diethylphthalate	1.206	1.221	0.010	1.3	40.0
Fluorene	1.204	1.376	0.900	14.3	25.0
4-Chlorophenyl-phenylether	0.650	0.706	0.400	8.6	25.0
4-Nitroaniline	0.227	0.257	0.010	13.3	40.0
4,6-Dinitro-2-methylphenol	0.141	0.143	0.010	1.9	40.0
N-Nitrosodiphenylamine (1)	0.486	0.503	0.010	3.4	40.0
1,2,4,5-Tetrachlorobenzene	0.635	0.641	0.010	1.0	40.0
4-Bromophenyl-phenylether	0.236	0.229	0.100	-3.0	25.0
Hexachlorobenzene	0.249	0.242	0.100	-2.7	25.0
Atrazine	0.200	0.193	0.010	-3.4	40.0
Pentachlorophenol	0.130	0.133	0.050	2.7	25.0
Phenanthrene	1.000	1.111	0.700	11.0	25.0
Anthracene	1.029	1.129	0.700	9.7	25.0
Carbazole	0.835	0.905	0.010	8.4	40.0
Di-n-butylphthalate	1.163	1.282	0.010	10.3	40.0
Fluoranthene	1.147	1.338	0.600	16.6	25.0
Pyrene	1.040	1.100	0.600	5.8	25.0
Butylbenzylphthalate	0.446	0.453	0.010	1.5	40.0
3,3'-Dichlorobenzidine	0.342	0.342	0.010	-0.2	40.0
Benzo(a)anthracene	1.051	1.122	0.800	6.7	25.0
Chrysene	0.948	1.047	0.700	10.4	25.0
Bis(2-ethylhexyl)phthalate	0.689	0.769	0.010	11.7	40.0
Di-n-octylphthalate	1.180	1.332	0.010	12.8	40.0
Benzo(b)fluoranthene	1.067	1.203	0.700	12.7	25.0
Benzo(k)fluoranthene	1.043	1.152	0.700	10.4	25.0
Benzo(a)pyrene	1.036	1.107	0.700	6.9	25.0
Indeno(1,2,3-cd)pyrene	0.990	1.002	0.500	1.2	25.0
Dibenzo(a,h)anthracene	1.020	1.044	0.400	2.4	25.0
Benzo(g,h,i)perylene	1.001	1.012	0.500	1.1	25.0
2,3,4,6-Tetrachlorophenol	0.339	0.349	0.100	2.8	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.: F9M36

Instrument ID: 5975-D Calibration Date: 06/17/2015 Time: 13:06

Lab File ID: DED02S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DD Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

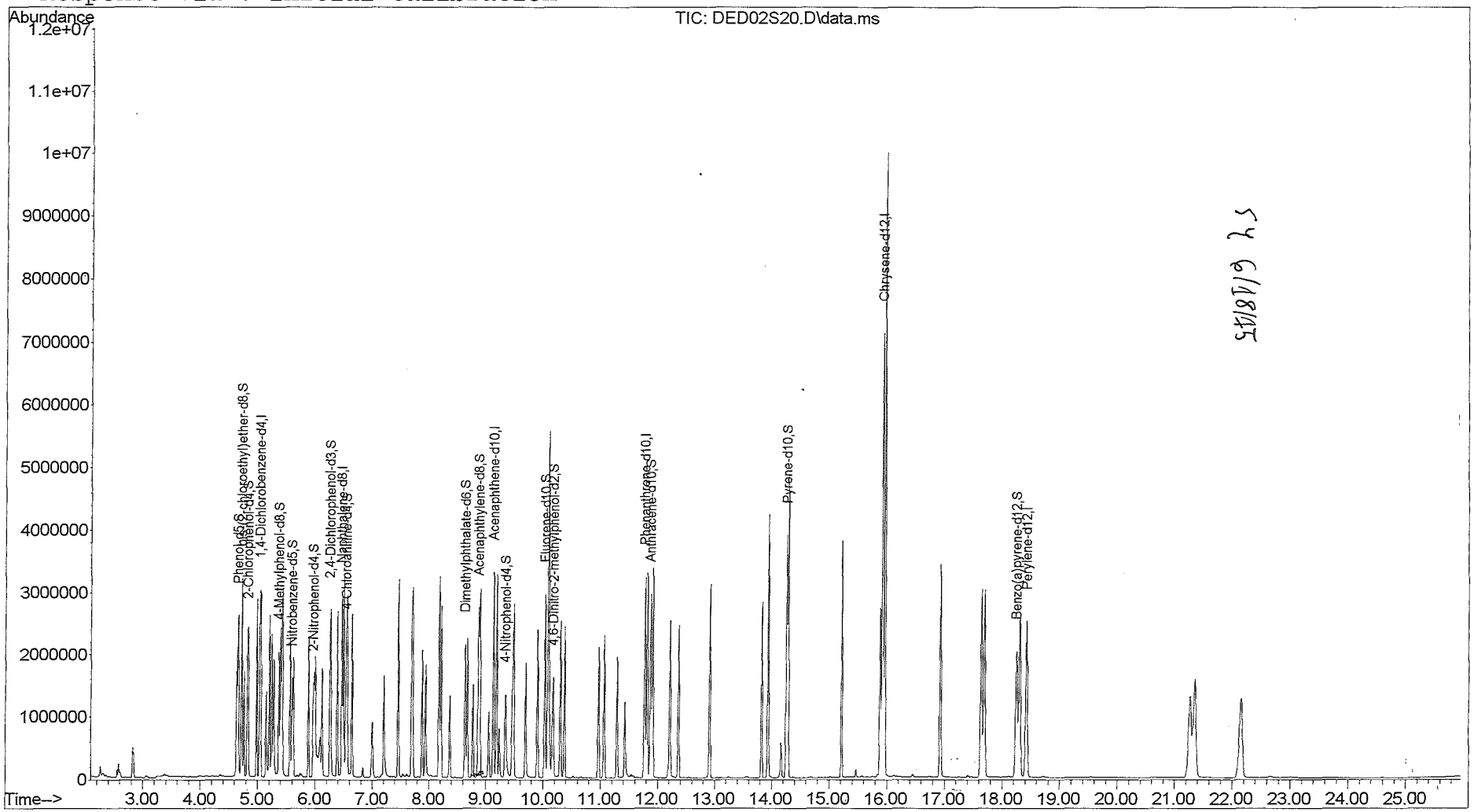
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.245	1.358	0.010	9.1	25.0
Bis(2-chloroethyl)ether-d8	0.911	0.995	0.010	9.2	25.0
2-Chlorophenol-d4	1.241	1.269	0.010	2.3	25.0
4-Methylphenol-d8	0.933	0.998	0.010	7.0	25.0
Nitrobenzene-d5	0.164	0.164	0.010	0.2	25.0
2-Nitrophenol-d4	0.194	0.186	0.010	-4.2	25.0
2,4-Dichlorophenol-d3	0.314	0.329	0.010	4.9	25.0
4-Chloroaniline-d4	0.236	0.290	0.010	23.2	40.0
Dimethylphthalate-d6	1.233	1.227	0.010	-0.5	40.0
Acenaphthylene-d8	1.624	1.639	0.010	0.9	25.0
4-Nitrophenol-d4	0.205	0.222	0.010	8.6	40.0
Fluorene-d10	1.090	1.095	0.010	0.5	25.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.125	0.010	-0.7	40.0
Anthracene-d10	1.025	1.045	0.010	2.0	25.0
Pyrene-d10	0.842	0.835	0.010	-0.9	25.0
Benzo(a)pyrene-d12	0.915	0.900	0.010	-1.7	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\17JUN15\DED02S20.D Vial: 1
Acq On : 06/17/2015 13:06 Operator: SY
Sample : SSTD020DD 28296 DFTPPDD Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 13:33:03 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 10:23:37 2015
Response via : Initial Calibration



SY 6/18/15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\17JUN15\DED02S20.D Vial: 1
Acq On : 06/17/2015 13:06 Operator: SY
Sample : SSTD020DD 28296 DFTPPDD Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 17 13:33:03 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 10:23:37 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.03	152	467363	20.00 ug/ml
16) Naphthalene-d8	6.46	136	1609688	20.00 ug/ml
33) Acenaphthene-d10	9.13	164	1046498	20.00 ug/ml
59) Phenanthrene-d10	11.77	188	1839689	20.00 ug/ml
73) Chrysene-d12	15.92	240	2353832	20.00 ug/ml
81) Perylene-d12	18.42	264	2009866	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.65	99	634662	21.819ug/ml
6) bis-(2-chloroethyl)ether-d	4.72	67	464958	21.846ug/mL
7) 2-Chlorophenol-d4	4.82	132	593126	20.457ug/ml
13) 4-Methylphenol-d8	5.36	113	466479	21.395ug/mL
17) Nitrobenzene-d5	5.60	128	264109	20.032ug/ml
21) 2-Nitrophenol-d4	5.96	143	299653	19.166ug/mL
25) 2,4-Dichlorophenol-d3	6.26	165	529967	20.976ug/mL
28) 4-Chloroaniline-d4	6.53	131	467560	24.632ug/mL
42) Dimethylphthalate-d6	8.63	166	1284230	19.904ug/mL
45) Acenaphthylene-d8	8.87	160	1714917	20.185ug/mL
50) 4-Nitrophenol-d4	9.33	143	232801	21.724ug/mL
57) Fluorene-d10	10.03	176	1145569	20.093ug/mL
61) 4,6-Dinitro-2-methylphenol	10.16	200	230715	19.859ug/mL
69) Anthracene-d10	11.87	188	1922643	20.399ug/mL
75) Pyrene-d10	14.25	212	1965382	19.827ug/mL
86) Benzo(a)pyrene-d12	18.25	264	1808775	19.665ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.63	77	366560	19.572ug/ml	92
4) Phenol	4.66	94	656910	21.818ug/ml	87
5) Bis(2-chloroethyl)ether	4.76	93	514962	19.437ug/ml	99
8) 2-Chlorophenol	4.83	128	581131	21.115ug/ml	99
9) 2-Methylphenol	5.24	108	499203	21.380ug/ml	99
10) 2,2'-Oxybis-(1-chloropropa	5.27	45	836247	21.844ug/ml	100
11) Acetophenone	5.42	105	745651	22.400ug/ml	89
12) 4-methylphenol	5.39	108	535283	21.971ug/ml	98
14) N-Nitroso-di-n-propylamine	5.41	70	364699	22.308ug/ml	79
15) Hexachloroethane	5.56	117	277308	21.338ug/ml	82
18) Nitrobenzene	5.62	77	563850	21.781ug/ml	96
19) Isophorone	5.88	82	973223	21.795ug/ml	93
20) 2-Nitrophenol	5.98	139	320505	20.367ug/ml	88
22) 2,4-Dimethylphenol	6.00	107	511030	20.143ug/ml	95
23) Bis(2-chloroethoxy)methane	6.12	93	605706	20.955ug/ml	98
24) 2,4-Dichlorophenol	6.27	162	534614	21.161ug/ml	96
26) Naphthalene	6.49	128	1641192	21.304ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00343

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\17JUN15\DED02S20.D Vial: 1
Acq On : 06/17/2015 13:06 Operator: SY
Sample : SSTD020DD 28296 DFTPPDD Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 17 13:33:03 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 10:23:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.55	127	586062	25.149ug/ml	98
29) Hexachlorobutadiene	6.65	225	392011	20.281ug/ml	99
30) Caprolactam	7.00	113	153095	22.577ug/ml	92
31) 4-Chloro-3-methylphenol	7.20	107	437470	20.708ug/ml	92
32) 2-Methylnaphthalene	7.46	142	1090681	20.926ug/ml	95
34) 1,2,4,5-Tetrachlorobenzene	7.71	216	671095	20.201ug/mL	97
35) Hexachlorocyclopentadiene	7.69	237	464948	23.263ug/ml	98
36) 2,4,6-Trichlorophenol	7.88	196	416565	20.312ug/ml	99
37) 2,4,5-Trichlorophenol	7.94	196	438691	20.273ug/ml	99
38) 1,1'-Biphenyl	8.17	154	1395738	21.049ug/ml	97
39) 2-Chloronaphthalene	8.21	162	1137274	20.504ug/ml	93
40) 2-Nitroaniline	8.36	65	303533	21.248ug/ml	97
41) Dimethylphthalate	8.67	163	1249486	20.017ug/ml	99
43) 2,6-Dinitrotoluene	8.77	165	279628	20.579ug/ml	97
44) Acenaphthylene	8.89	152	1857438	21.373ug/ml	98
46) 3-Nitroaniline	9.05	138	246168	25.911ug/ml	97
47) Acenaphthene	9.19	153	1153126	21.402ug/ml	93
48) 2,4-Dinitrophenol	9.23	184	178626	21.428ug/ml	100
49) 4-Nitrophenol	9.35	109	154755	24.353ug/ml	97
51) Dibenzofuran	9.48	168	1609849	20.239ug/ml	95
52) 2,4-Dinitrotoluene	9.46	165	386471	21.050ug/ml	75
53) 2,3,4,6-Tetrachlorophenol	9.69	232	365154	20.566ug/mL	93
54) Diethylphthalate	9.90	149	1278294	20.259ug/ml	99
55) 4-Chlorophenyl-phenylether	10.09	204	738851	21.715ug/ml	89
56) Fluorene	10.08	166	1439603	22.851ug/ml	99
58) 4-Nitroaniline	10.11	138	268632	22.658ug/ml	84
60) 4,6-Dinitro-2-methylphenol	10.17	198	263861	20.371ug/ml	93
62) N-Nitrosodiphenylamine	10.30	169	924601	20.673ug/ml	96
63) 4-Bromophenyl-phenyl ether	10.97	248	420492	19.394ug/ml	88
64) Hexachlorobenzene	11.06	284	445151	19.460ug/ml	85
65) Atrazine	11.29	200	354921	19.317ug/ml	98
66) Pentachlorophenol	11.42	266	245233	20.538ug/ml	96
67) Phenanthrene	11.81	178	2043439	22.204ug/ml	99
68) Anthracene	11.90	178	2076855	21.941ug/ml	98
70) Carbazole	12.21	167	1665349	21.690ug/mL	96
71) Di-n-butylphthalate	12.91	149	2358643	22.057ug/ml	99
72) Fluoranthene	13.93	202	2461746	23.329ug/ml	88
74) Pyrene	14.28	202	2589461	21.160ug/ml	87
76) Butylbenzylphthalate	15.22	149	1065240	20.298ug/ml	96
77) 3,3'-Dichlorobenzidine	15.87	252	804428	19.967ug/ml	96
78) Benzo(a)anthracene	15.91	228	2639842	21.344ug/ml	97
79) Chrysene	15.96	228	2464777	22.084ug/ml	97
80) Bis-(2-ethylhexyl)phthalat	15.96	149	1811180	22.336ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\17JUN15\DED02S20.D Vial: 1
Acq On : 06/17/2015 13:06 Operator: SY
Sample : SSTD020DD 28296 DFTPPDD Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 17 13:33:03 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 10:23:37 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	16.93	149	2677085	22.569ug/ml	100
83)	Benzo(b)fluoranthene	17.64	252	2417985	22.540ug/ml	93
84)	Benzo(k)fluoranthene	17.69	252	2315931	22.089ug/ml	93
85)	Benzo(a)pyrene	18.30	252	2224067	21.370ug/ml	92
87)	Indeno(1,2,3-c,d)pyrene	21.27	276	2013569	20.244ug/ml	78
88)	Dibenzo(a,h)anthracene	21.35	278	2099060	20.478ug/ml	90
89)	Benzo(g,h,i)perylene	22.16	276	2034025	20.227ug/ml	87

(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.: F9M36

Instrument ID: 5975-D Calibration Date: 06/17/2015 Time: 15:25

Lab File ID: DED06S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020D1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.801	0.774	0.010	-3.5	50.0
Phenol	1.288	1.385	0.010	7.5	50.0
Bis(2-chloroethyl)ether	1.134	1.085	0.010	-4.3	50.0
2-Chlorophenol	1.178	1.237	0.010	5.0	50.0
2-Methylphenol	0.999	1.061	0.010	6.2	50.0
2,2'-Oxybis(1-chloropropane)	1.638	1.761	0.010	7.5	50.0
Acetophenone	1.424	1.576	0.010	10.7	50.0
4-Methylphenol	1.043	1.135	0.010	8.9	50.0
N-Nitroso-di-n-propylamine	0.700	0.765	0.010	9.3	50.0
Hexachloroethane	0.556	0.592	0.010	6.4	50.0
Nitrobenzene	0.322	0.347	0.010	8.0	50.0
Isophorone	0.555	0.595	0.010	7.2	50.0
2-Nitrophenol	0.196	0.198	0.010	1.3	50.0
2,4-Dimethylphenol	0.315	0.314	0.010	-0.4	50.0
Bis(2-chloroethoxy)methane	0.359	0.370	0.010	3.1	50.0
2,4-Dichlorophenol	0.314	0.330	0.010	5.2	50.0
Naphthalene	0.957	1.008	0.010	5.3	50.0
4-Chloroaniline	0.290	0.382	0.010	31.9	50.0
Hexachlorobutadiene	0.240	0.244	0.010	1.5	50.0
Caprolactam	0.084	0.096	0.010	14.4	50.0
4-Chloro-3-methylphenol	0.262	0.272	0.010	3.7	50.0
2-Methylnaphthalene	0.648	0.675	0.010	4.2	50.0
Hexachlorocyclopentadiene	0.382	0.461	0.010	20.7	50.0
2,4,6-Trichlorophenol	0.392	0.411	0.010	4.8	50.0
2,4,5-Trichlorophenol	0.414	0.436	0.010	5.5	50.0
1,1'-Biphenyl	1.267	1.355	0.010	6.9	50.0
2-Chloronaphthalene	1.060	1.101	0.010	3.8	50.0
2-Nitroaniline	0.273	0.294	0.010	7.8	50.0
Dimethylphthalate	1.193	1.234	0.010	3.4	50.0
2,6-Dinitrotoluene	0.260	0.277	0.010	6.8	50.0
Acenaphthylene	1.661	1.766	0.010	6.3	50.0
3-Nitroaniline	0.182	0.251	0.010	38.3	50.0
Acenaphthene	1.030	1.109	0.010	7.7	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.: F9M36

Instrument ID: 5975-D Calibration Date: 06/17/2015 Time: 15:25

Lab File ID: DED06S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020D1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.159	0.166	0.010	4.2	50.0
4-Nitrophenol	0.121	0.149	0.010	23.0	50.0
Dibenzofuran	1.520	1.515	0.010	-0.4	50.0
2,4-Dinitrotoluene	0.351	0.374	0.010	6.5	50.0
Diethylphthalate	1.206	1.291	0.010	7.1	50.0
Fluorene	1.204	1.372	0.010	13.9	50.0
4-Chlorophenyl-phenylether	0.650	0.705	0.010	8.5	50.0
4-Nitroaniline	0.227	0.269	0.010	18.7	50.0
4,6-Dinitro-2-methylphenol	0.141	0.146	0.010	3.6	50.0
N-Nitrosodiphenylamine (1)	0.486	0.503	0.010	3.5	50.0
1,2,4,5-Tetrachlorobenzene	0.635	0.658	0.010	3.7	50.0
4-Bromophenyl-phenylether	0.236	0.229	0.010	-2.9	50.0
Hexachlorobenzene	0.249	0.246	0.010	-1.0	50.0
Atrazine	0.200	0.194	0.010	-2.6	50.0
Pentachlorophenol	0.130	0.136	0.010	5.0	50.0
Phenanthrene	1.000	1.088	0.010	8.8	50.0
Anthracene	1.029	1.127	0.010	9.5	50.0
Carbazole	0.835	0.926	0.010	10.9	50.0
Di-n-butylphthalate	1.163	1.299	0.010	11.7	50.0
Fluoranthene	1.147	1.331	0.010	16.1	50.0
Pyrene	1.040	1.108	0.010	6.6	50.0
Butylbenzylphthalate	0.446	0.457	0.010	2.6	50.0
3,3'-Dichlorobenzidine	0.342	0.351	0.010	2.6	50.0
Benzo(a)anthracene	1.051	1.134	0.010	7.9	50.0
Chrysene	0.948	1.052	0.010	10.9	50.0
Bis(2-ethylhexyl)phthalate	0.689	0.764	0.010	10.9	50.0
Di-n-octylphthalate	1.180	1.326	0.010	12.3	50.0
Benzo(b)fluoranthene	1.067	1.203	0.010	12.7	50.0
Benzo(k)fluoranthene	1.043	1.135	0.010	8.8	50.0
Benzo(a)pyrene	1.036	1.112	0.010	7.4	50.0
Indeno(1,2,3-cd)pyrene	0.990	0.972	0.010	-1.8	50.0
Dibenzo(a,h)anthracene	1.020	1.028	0.010	0.8	50.0
Benzo(g,h,i)perylene	1.001	0.985	0.010	-1.6	50.0
2,3,4,6-Tetrachlorophenol	0.339	0.347	0.010	2.1	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.: F9M36

Instrument ID: 5975-D Calibration Date: 06/17/2015 Time: 15:25

Lab File ID: DED06S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020D1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

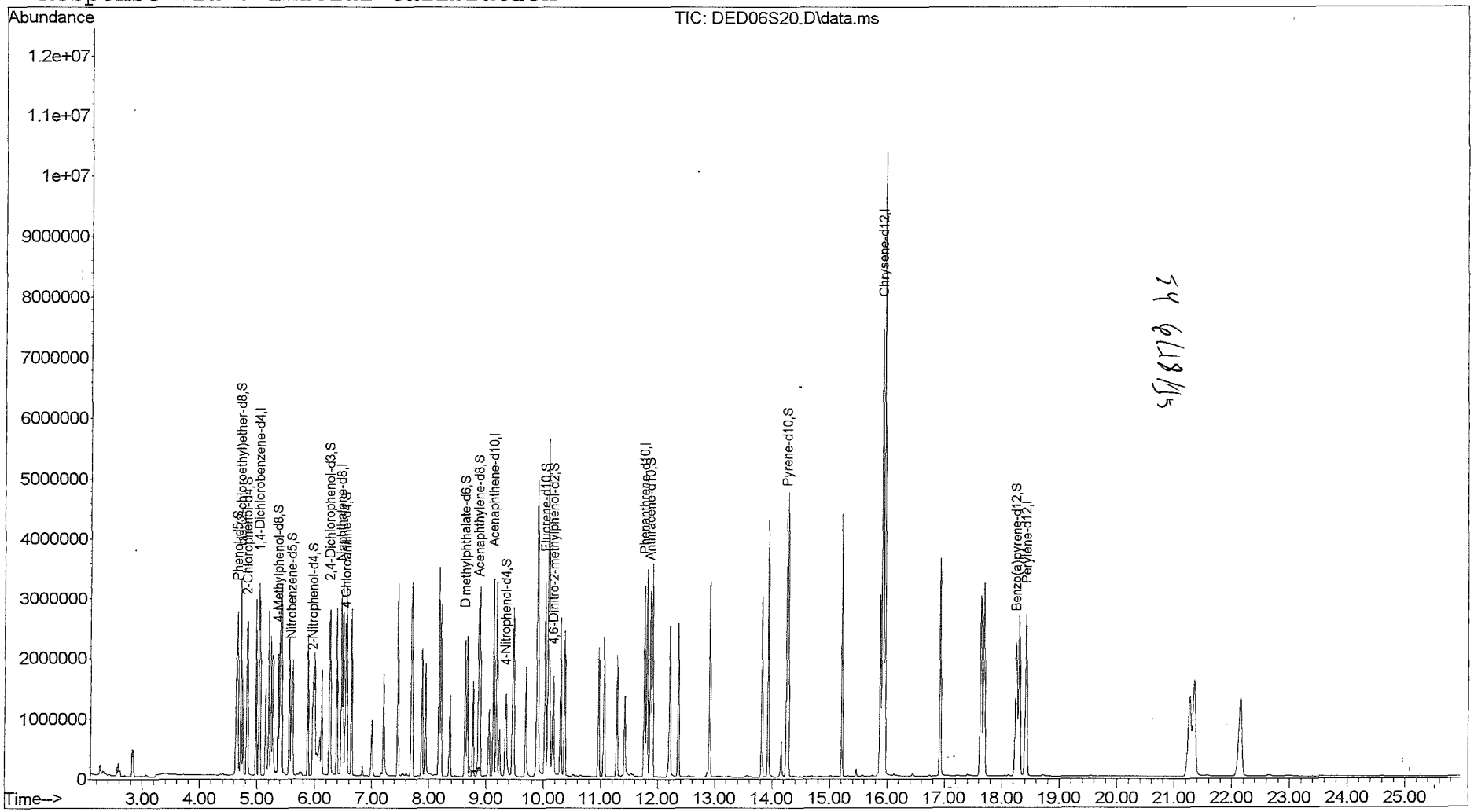
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.245	1.335	0.010	7.2	50.0
Bis(2-chloroethyl)ether-d8	0.911	0.978	0.010	7.4	50.0
2-Chlorophenol-d4	1.241	1.255	0.010	1.1	50.0
4-Methylphenol-d8	0.933	0.976	0.010	4.6	50.0
Nitrobenzene-d5	0.164	0.164	0.010	-0.1	50.0
2-Nitrophenol-d4	0.194	0.187	0.010	-3.8	50.0
2,4-Dichlorophenol-d3	0.314	0.327	0.010	4.2	50.0
4-Chloroaniline-d4	0.236	0.302	0.010	28.3	50.0
Dimethylphthalate-d6	1.233	1.250	0.010	1.4	50.0
Acenaphthylene-d8	1.624	1.646	0.010	1.4	50.0
4-Nitrophenol-d4	0.205	0.223	0.010	8.9	50.0
Fluorene-d10	1.090	1.113	0.010	2.1	50.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.129	0.010	2.3	50.0
Anthracene-d10	1.025	1.034	0.010	0.9	50.0
Pyrene-d10	0.842	0.832	0.010	-1.2	50.0
Benzo(a)pyrene-d12	0.915	0.897	0.010	-2.0	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\17JUN15\DED06S20.D Vial: 1
Acq On : 06/17/2015 15:25 Operator: SY
Sample : SSTD020D1 28296 DFTPPD1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:51:56 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 10:26:31 2015
Response via : Initial Calibration



57 6/18/15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\17JUN15\DED06S20.D Vial: 1
Acq On : 06/17/2015 15:25 Operator: SY
Sample : SSTD020D1 28296 DFTPPD1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 17 15:51:56 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 10:26:31 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.03	152	498400	20.00 ug/ml
16) Naphthalene-d8	6.46	136	1695301	20.00 ug/ml
33) Acenaphthene-d10	9.13	164	1089173	20.00 ug/ml
59) Phenanthrene-d10	11.77	188	1911432	20.00 ug/ml
73) Chrysene-d12	15.92	240	2465798	20.00 ug/ml
81) Perylene-d12	18.42	264	2143309	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.65	99	665158	21.444ug/ml
6) bis-(2-chloroethyl)ether-d	4.72	67	487532	21.480ug/mL
7) 2-Chlorophenol-d4	4.82	132	625422	20.228ug/ml
13) 4-Methylphenol-d8	5.37	113	486286	20.914ug/mL
17) Nitrobenzene-d5	5.60	128	277418	19.979ug/ml
21) 2-Nitrophenol-d4	5.96	143	316845	19.242ug/mL
25) 2,4-Dichlorophenol-d3	6.26	165	554549	20.840ug/mL
28) 4-Chloroaniline-d4	6.53	131	512815	25.652ug/mL
42) Dimethylphthalate-d6	8.63	166	1361559	20.275ug/mL
45) Acenaphthylene-d8	8.87	160	1792975	20.277ug/mL
50) 4-Nitrophenol-d4	9.33	143	242829	21.772ug/mL
57) Fluorene-d10	10.03	176	1211705	20.420ug/mL
61) 4,6-Dinitro-2-methylphenol	10.16	200	246860	20.451ug/mL
69) Anthracene-d10	11.87	188	1976469	20.183ug/mL
75) Pyrene-d10	14.25	212	2052560	19.766ug/mL
86) Benzo(a)pyrene-d12	18.24	264	1921543	19.590ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.63	77	385605	19.307ug/ml 92
4) Phenol	4.66	94	690489	21.505ug/ml 88
5) Bis(2-chloroethyl)ether	4.76	93	540977	19.148ug/ml 99
8) 2-Chlorophenol	4.83	128	616480	21.005ug/ml 99
9) 2-Methylphenol	5.24	108	528911	21.242ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.27	45	877529	21.494ug/ml 100
11) Acetophenone	5.43	105	785679	22.133ug/ml 89
12) 4-methylphenol	5.39	108	565807	21.778ug/ml 99
14) N-Nitroso-di-n-propylamine	5.42	70	381047	21.856ug/ml 79
15) Hexachloroethane	5.56	117	294993	21.285ug/ml 83
18) Nitrobenzene	5.62	77	589049	21.605ug/ml 96
19) Isophorone	5.88	82	1007944	21.432ug/ml 93
20) 2-Nitrophenol	5.98	139	335803	20.261ug/ml 87
22) 2,4-Dimethylphenol	6.00	107	532406	19.926ug/ml 96
23) Bis(2-chloroethoxy)methane	6.12	93	627904	20.626ug/ml 98
24) 2,4-Dichlorophenol	6.27	162	559814	21.039ug/ml 96
26) Naphthalene	6.49	128	1708761	21.061ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00350

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\17JUN15\DED06S20.D Vial: 1
Acq On : 06/17/2015 15:25 Operator: SY
Sample : SSTD020D1 28296 DFTPPD1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 17 15:51:56 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 10:26:31 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.55	127	647641	26.388ug/ml	98
29)	Hexachlorobutadiene	6.65	225	413214	20.298ug/ml	100
30)	Caprolactam	7.00	113	163330	22.870ug/ml	94
31)	4-Chloro-3-methylphenol	7.20	107	461622	20.747ug/ml	92
32)	2-Methylnaphthalene	7.46	142	1144227	20.844ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.71	216	717178	20.742ug/mL	96
35)	Hexachlorocyclopentadiene	7.69	237	502243	24.144ug/ml	98
36)	2,4,6-Trichlorophenol	7.88	196	447320	20.957ug/ml	98
37)	2,4,5-Trichlorophenol	7.94	196	475020	21.091ug/ml	99
38)	1,1'-Biphenyl	8.17	154	1476040	21.388ug/ml	96
39)	2-Chloronaphthalene	8.21	162	1198692	20.765ug/ml	89
40)	2-Nitroaniline	8.36	65	320513	21.558ug/ml	98
41)	Dimethylphthalate	8.67	163	1343523	20.680ug/ml	99
43)	2,6-Dinitrotoluene	8.77	165	302048	21.358ug/ml	95
44)	Acenaphthylene	8.89	152	1923225	21.263ug/ml	98
46)	3-Nitroaniline	9.05	138	273577	27.668ug/ml	94
47)	Acenaphthene	9.19	153	1208021	21.543ug/ml	92
48)	2,4-Dinitrophenol	9.23	184	180736	20.832ug/ml	100
49)	4-Nitrophenol	9.35	109	162756	24.608ug/ml	97
51)	Dibenzofuran	9.48	168	1649873	19.930ug/ml	95
52)	2,4-Dinitrotoluene	9.46	165	406840	21.291ug/ml	75
53)	2,3,4,6-Tetrachlorophenol	9.69	232	377411	20.424ug/mL	93
54)	Diethylphthalate	9.90	149	1406034	21.411ug/ml	99
55)	4-Chlorophenyl-phenylether	10.09	204	768112	21.690ug/ml	89
56)	Fluorene	10.08	166	1493801	22.782ug/ml	99
58)	4-Nitroaniline	10.11	138	292862	23.734ug/ml	84
60)	4,6-Dinitro-2-methylphenol	10.17	198	278899	20.724ug/ml	93
62)	N-Nitrosodiphenylamine	10.30	169	961620	20.694ug/ml	96
63)	4-Bromophenyl-phenyl ether	10.97	248	437330	19.414ug/ml	88
64)	Hexachlorobenzene	11.06	284	470555	19.798ug/ml	84
65)	Atrazine	11.29	200	371697	19.471ug/ml	98
66)	Pentachlorophenol	11.42	266	260426	20.992ug/ml	98
67)	Phenanthrene	11.81	178	2080554	21.759ug/ml	99
68)	Anthracene	11.90	178	2154015	21.902ug/ml	98
70)	Carbazole	12.21	167	1769878	22.186ug/mL	97
71)	Di-n-butylphthalate	12.91	149	2482260	22.342ug/ml	99
72)	Fluoranthene	13.93	202	2544880	23.212ug/ml	88
74)	Pyrene	14.28	202	2732450	21.314ug/ml	87
76)	Butylbenzylphthalate	15.21	149	1127577	20.511ug/ml	95
77)	3,3'-Dichlorobenzidine	15.87	252	865683	20.512ug/ml	96
78)	Benzo(a)anthracene	15.91	228	2796050	21.580ug/ml	97
79)	Chrysene	15.96	228	2593665	22.184ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	15.96	149	1883494	22.173ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00351

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\17JUN15\DED06S20.D Vial: 1
Acq On : 06/17/2015 15:25 Operator: SY
Sample : SSTD020D1 28296 DFTPPD1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 17 15:51:56 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 10:26:31 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.93	149	2841582	22.464ug/ml	99
83) Benzo(b)fluoranthene	17.64	252	2578465	22.540ug/ml	93
84) Benzo(k)fluoranthene	17.69	252	2433491	21.765ug/ml	93
85) Benzo(a)pyrene	18.30	252	2384095	21.482ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.27	276	2083362	19.641ug/ml	79
88) Dibenzo(a,h)anthracene	21.34	278	2203607	20.159ug/ml	90
89) Benzo(g,h,i)perylene	22.15	276	2110615	19.681ug/ml	87

(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.: F9M36

Instrument ID: 5975-G Calibration Date: 06/16/2015 Time: 18:04

Lab File ID: GBQ01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GQ Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.703	0.010	-16.0	40.0
Phenol	1.411	1.396	0.800	-1.0	25.0
Bis(2-chloroethyl)ether	1.177	1.077	0.700	-8.5	25.0
2-Chlorophenol	1.301	1.334	0.800	2.5	25.0
2-Methylphenol	1.092	1.068	0.700	-2.2	25.0
2,2'-Oxybis(1-chloropropane)	1.329	1.074	0.010	-19.2	40.0
Acetophenone	1.566	1.574	0.010	0.5	40.0
4-Methylphenol	1.146	1.153	0.600	0.7	25.0
N-Nitroso-di-n-propylamine	0.687	0.662	0.500	-3.7	25.0
Hexachloroethane	0.595	0.600	0.300	0.9	25.0
Nitrobenzene	0.309	0.301	0.200	-2.5	25.0
Isophorone	0.535	0.529	0.400	-1.2	25.0
2-Nitrophenol	0.197	0.201	0.100	1.7	25.0
2,4-Dimethylphenol	0.307	0.310	0.200	1.1	25.0
Bis(2-chloroethoxy)methane	0.354	0.340	0.300	-4.1	25.0
2,4-Dichlorophenol	0.272	0.287	0.200	5.5	25.0
Naphthalene	1.009	1.003	0.700	-0.7	25.0
4-Chloroaniline	0.334	0.359	0.010	7.5	40.0
Hexachlorobutadiene	0.173	0.179	0.010	3.2	40.0
Caprolactam	0.098	0.100	0.010	2.4	40.0
4-Chloro-3-methylphenol	0.266	0.279	0.200	4.8	25.0
2-Methylnaphthalene	0.645	0.661	0.400	2.6	25.0
Hexachlorocyclopentadiene	0.352	0.362	0.010	2.8	40.0
2,4,6-Trichlorophenol	0.351	0.367	0.200	4.3	25.0
2,4,5-Trichlorophenol	0.377	0.384	0.200	1.7	25.0
1,1'-Biphenyl	1.393	1.402	0.010	0.7	40.0
2-Chloronaphthalene	1.081	1.100	0.800	1.8	25.0
2-Nitroaniline	0.284	0.273	0.010	-3.9	40.0
Dimethylphthalate	1.247	1.239	0.010	-0.7	40.0
2,6-Dinitrotoluene	0.288	0.302	0.200	4.9	25.0
Acenaphthylene	1.828	1.836	0.900	0.4	25.0
3-Nitroaniline	0.206	0.272	0.010	32.1	40.0
Acenaphthene	1.126	1.150	0.900	2.2	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.: F9M36

Instrument ID: 5975-G Calibration Date: 06/16/2015 Time: 18:04

Lab File ID: GBQ01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GQ Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.192	0.010	8.7	40.0
4-Nitrophenol	0.153	0.156	0.010	2.0	40.0
Dibenzofuran	1.478	1.512	0.800	2.3	25.0
2,4-Dinitrotoluene	0.388	0.411	0.200	5.7	25.0
Diethylphthalate	1.290	1.319	0.010	2.3	40.0
Fluorene	1.226	1.264	0.900	3.1	25.0
4-Chlorophenyl-phenylether	0.582	0.598	0.400	2.8	25.0
4-Nitroaniline	0.238	0.287	0.010	20.7	40.0
4,6-Dinitro-2-methylphenol	0.149	0.156	0.010	4.6	40.0
N-Nitrosodiphenylamine (1)	0.523	0.523	0.010	0.0	40.0
1,2,4,5-Tetrachlorobenzene	0.495	0.508	0.010	2.6	40.0
4-Bromophenyl-phenylether	0.203	0.202	0.100	-0.9	25.0
Hexachlorobenzene	0.224	0.230	0.100	2.8	25.0
Atrazine	0.191	0.195	0.010	1.7	40.0
Pentachlorophenol	0.141	0.149	0.050	5.5	25.0
Phenanthrene	1.094	1.085	0.700	-0.8	25.0
Anthracene	1.116	1.121	0.700	0.5	25.0
Carbazole	0.675	0.939	0.010	39.1	40.0
Di-n-butylphthalate	1.380	1.405	0.010	1.8	40.0
Fluoranthene	1.128	1.158	0.600	2.6	25.0
Pyrene	1.238	1.226	0.600	-1.0	25.0
Butylbenzylphthalate	0.656	0.658	0.010	0.4	40.0
3,3'-Dichlorobenzidine	0.323	0.383	0.010	18.6	40.0
Benzo(a)anthracene	1.137	1.117	0.800	-1.7	25.0
Chrysene	1.032	1.023	0.700	-0.9	25.0
Bis(2-ethylhexyl)phthalate	0.965	0.978	0.010	1.3	40.0
Di-n-octylphthalate	1.688	1.735	0.010	2.8	40.0
Benzo(b)fluoranthene	1.163	1.158	0.700	-0.4	25.0
Benzo(k)fluoranthene	1.127	1.153	0.700	2.2	25.0
Benzo(a)pyrene	1.121	1.125	0.700	0.4	25.0
Indeno(1,2,3-cd)pyrene	1.099	1.119	0.500	1.8	25.0
Dibenzo(a,h)anthracene	1.128	1.151	0.400	2.1	25.0
Benzo(g,h,i)perylene	1.113	1.123	0.500	0.9	25.0
2,3,4,6-Tetrachlorophenol	0.284	0.308	0.100	8.4	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.: F9M36

Instrument ID: 5975-G Calibration Date: 06/16/2015 Time: 18:04

Lab File ID: GBQ01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GQ Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

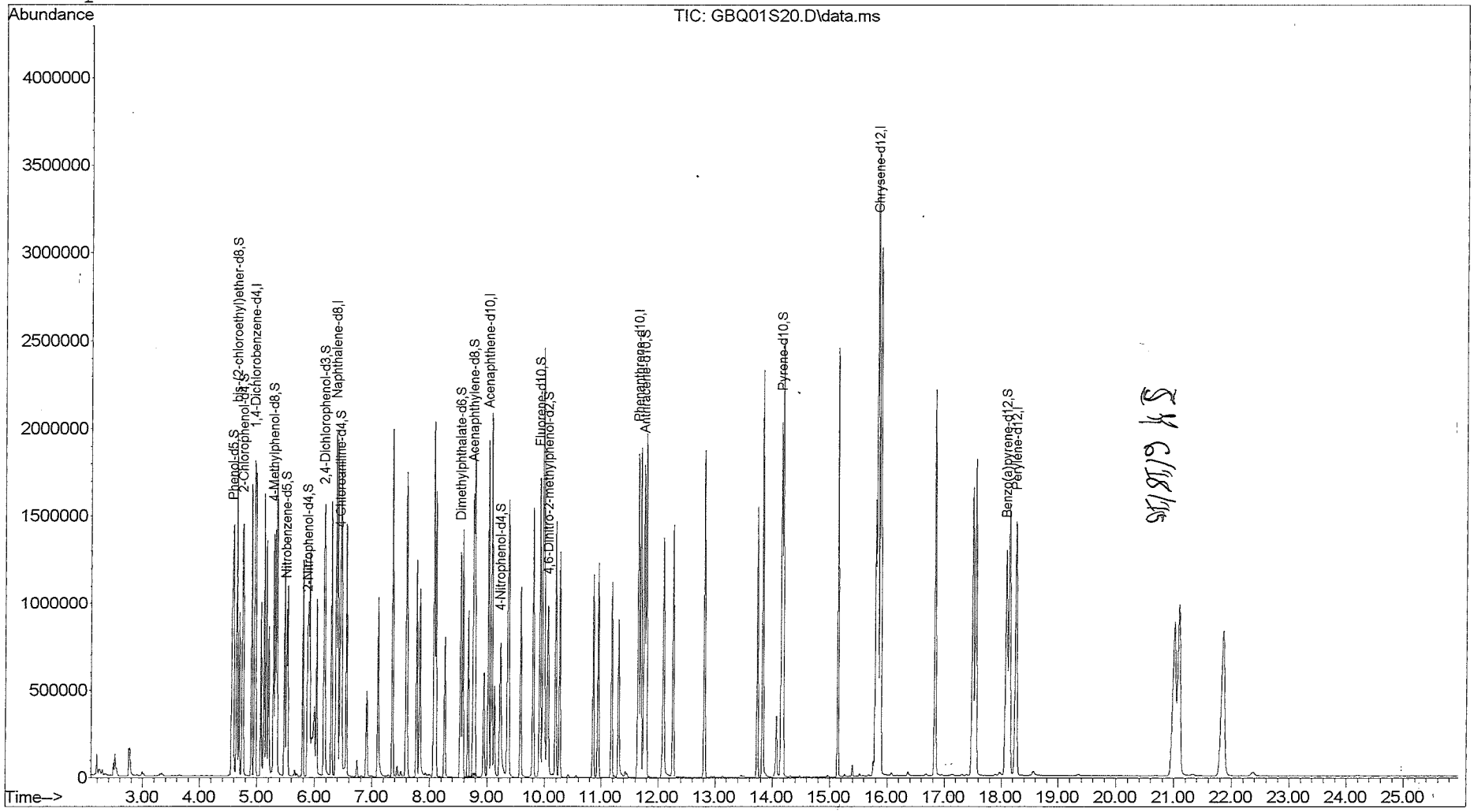
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.387	0.010	-0.6	25.0
Bis(2-chloroethyl)ether-d8	0.854	0.806	0.010	-5.6	25.0
2-Chlorophenol-d4	1.369	1.391	0.010	1.5	25.0
4-Methylphenol-d8	1.086	1.089	0.010	0.3	25.0
Nitrobenzene-d5	0.168	0.168	0.010	0.2	25.0
2-Nitrophenol-d4	0.187	0.188	0.010	0.5	25.0
2,4-Dichlorophenol-d3	0.274	0.287	0.010	4.7	25.0
4-Chloroaniline-d4	0.297	0.308	0.010	3.7	40.0
Dimethylphthalate-d6	1.216	1.267	0.010	4.2	40.0
Acenaphthylene-d8	1.623	1.650	0.010	1.6	25.0
4-Nitrophenol-d4	0.259	0.267	0.010	3.2	40.0
Fluorene-d10	1.056	1.095	0.010	3.7	25.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.140	0.010	6.9	40.0
Anthracene-d10	1.012	1.027	0.010	1.5	25.0
Pyrene-d10	0.909	0.909	0.010	0.0	25.0
Benzo(a)pyrene-d12	0.907	0.923	0.010	1.7	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\16JUN15\GBQ01S20.D Vial: 1
Acq On : 06/16/2015 18:04 Operator: SY
Sample : SSTD020GQ 28296 DFTPPGQ Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 16 18:30:20 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 17 09:01:47 2015
Response via : Initial Calibration



SY 6/18/15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\16JUN15\GBQ01S20.D Vial: 1
Acq On : 06/16/2015 18:04 Operator: SY
Sample : SSTD020GQ 28296 DFTPPGQ Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 16 18:30:20 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 17 09:01:47 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	314339	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1178314	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	670140	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1140094	20.00 ug/ml
73) Chrysene-d12	15.83	240	1124381	20.00 ug/ml
81) Perylene-d12	18.26	264	1103431	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	435843	19.883ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	253350	18.876ug/mL
7) 2-Chlorophenol-d4	4.75	132	437105	20.310ug/ml
13) 4-Methylphenol-d8	5.29	113	342314	20.058ug/mL
17) Nitrobenzene-d5	5.51	128	198146	20.043ug/ml
21) 2-Nitrophenol-d4	5.87	143	221457	20.101ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	337958	20.939ug/mL
28) 4-Chloroaniline-d4	6.44	131	363079	20.738ug/mL
42) Dimethylphthalate-d6	8.53	166	849001	20.832ug/mL
45) Acenaphthylene-d8	8.76	160	1105646	20.328ug/mL
50) 4-Nitrophenol-d4	9.22	143	179164	20.644ug/mL
57) Fluorene-d10	9.92	176	734023	20.736ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	160158	21.386ug/mL
69) Anthracene-d10	11.76	188	1171170	20.308ug/mL
75) Pyrene-d10	14.16	212	1022127	19.996ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1018157	20.342ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	220888	16.793ug/ml	95
4) Phenol	4.59	94	438937	19.794ug/ml	97
5) Bis(2-chloroethyl)ether	4.69	93	338497	18.305ug/ml	90
8) 2-Chlorophenol	4.76	128	419207	20.500ug/ml	92
9) 2-Methylphenol	5.16	108	335660	19.557ug/ml	100
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	337499	16.155ug/ml	100
11) Acetophenone	5.35	105	494788	20.100ug/ml	97
12) 4-methylphenol	5.32	108	362568	20.136ug/ml	98
14) N-Nitroso-di-n-propylamine	5.33	70	208061	19.265ug/ml	94
15) Hexachloroethane	5.47	117	188588	20.182ug/ml	96
18) Nitrobenzene	5.53	77	355033	19.506ug/ml	94
19) Isophorone	5.80	82	622887	19.752ug/ml	97
20) 2-Nitrophenol	5.89	139	236587	20.338ug/ml	97
22) 2,4-Dimethylphenol	5.92	107	365788	20.212ug/ml	93
23) Bis(2-chloroethoxy)methane	6.03	93	400189	19.173ug/ml	99
24) 2,4-Dichlorophenol	6.18	162	338694	21.107ug/ml	98
26) Naphthalene	6.40	128	1181761	19.870ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00357

Quantitation Report

Data File : C:\msdchem\1\data\20...15\16JUN15\GBQ01S20.D Vial: 1
Acq On : 06/16/2015 18:04 Operator: SY
Sample : SSTD020GQ 28296 DFTPPGQ Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 16 18:30:20 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 17 09:01:47 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	422639	21.496ug/ml	95
29)	Hexachlorobutadiene	6.55	225	210363	20.631ug/ml	100
30)	Caprolactam	6.91	113	117885	20.479ug/ml	67
31)	4-Chloro-3-methylphenol	7.10	107	329090	20.963ug/ml	95
32)	2-Methylnaphthalene	7.36	142	778810	20.510ug/ml	95
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	340349	20.530ug/mL	99
35)	Hexachlorocyclopentadiene	7.59	237	242525	20.557ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	245672	20.865ug/ml	99
37)	2,4,5-Trichlorophenol	7.83	196	257295	20.344ug/ml	99
38)	1,1'-Biphenyl	8.07	154	939844	20.132ug/ml	96
39)	2-Chloronaphthalene	8.10	162	737042	20.355ug/ml	98
40)	2-Nitroaniline	8.26	65	182682	19.218ug/ml	81
41)	Dimethylphthalate	8.57	163	830203	19.864ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	202106	20.974ug/ml	88
44)	Acenaphthylene	8.78	152	1230473	20.089ug/ml	99
46)	3-Nitroaniline	8.95	138	182339	26.415ug/ml	93
47)	Acenaphthene	9.07	153	770753	20.431ug/ml	93
48)	2,4-Dinitrophenol	9.12	184	128524	21.749ug/ml	100
49)	4-Nitrophenol	9.23	109	104790	20.405ug/ml	89
51)	Dibenzofuran	9.37	168	1013236	20.459ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	275161	21.145ug/ml	99
53)	2,3,4,6-Tetrachlorophenol	9.58	232	206355	21.675ug/mL	99
54)	Diethylphthalate	9.80	149	883990	20.455ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	400771	20.553ug/ml	98
56)	Fluorene	9.97	166	846887	20.613ug/ml	99
58)	4-Nitroaniline	10.00	138	192643	24.140ug/ml	74
60)	4,6-Dinitro-2-methylphenol	10.06	198	177381	20.928ug/ml	89
62)	N-Nitrosodiphenylamine	10.19	169	596147	19.993ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.86	248	229843	19.827ug/ml	100
64)	Hexachlorobenzene	10.95	284	262177	20.567ug/ml	86
65)	Atrazine	11.19	200	221799	20.342ug/ml	97
66)	Pentachlorophenol	11.30	266	170050	21.099ug/ml	99
67)	Phenanthrene	11.70	178	1237501	19.848ug/ml	100
68)	Anthracene	11.79	178	1278546	20.095ug/ml	99
70)	Carbazole	12.09	167	1070456	27.816ug/mL	99
71)	Di-n-butylphthalate	12.82	149	1601822	20.363ug/ml	99
72)	Fluoranthene	13.83	202	1319693	20.526ug/ml	95
74)	Pyrene	14.19	202	1378983	19.806ug/ml	95
76)	Butylbenzylphthalate	15.14	149	740247	20.077ug/ml	89
77)	3,3'-Dichlorobenzidine	15.79	252	430765	23.722ug/ml	98
78)	Benzo(a)anthracene	15.82	228	1255613	19.651ug/ml	99
79)	Chrysene	15.87	228	1150027	19.826ug/ml	100
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1099694	20.265ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\16JUN15\GBQ01S20.D Vial: 1
Acq On : 06/16/2015 18:04 Operator: SY
Sample : SSTD020GQ 28296 DFTPPGQ Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 16 18:30:20 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 17 09:01:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.83	149	1914381	20.557ug/ml	100
83) Benzo(b)fluoranthene	17.50	252	1277489	19.917ug/ml	98
84) Benzo(k)fluoranthene	17.55	252	1271894	20.450ug/ml	97
85) Benzo(a)pyrene	18.14	252	1241911	20.073ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	21.01	276	1234586	20.356ug/ml	91
88) Dibenzo(a,h)anthracene	21.09	278	1270303	20.415ug/ml	96
89) Benzo(g,h,i)perylene	21.85	276	1239152	20.174ug/ml	94

(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.: F9M36

Instrument ID: 5975-G Calibration Date: 06/16/2015 Time: 22:54

Lab File ID: GBQ10S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020Q1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.722	0.010	-13.7	50.0
Phenol	1.411	1.390	0.010	-1.5	50.0
Bis(2-chloroethyl)ether	1.177	1.092	0.010	-7.2	50.0
2-Chlorophenol	1.301	1.346	0.010	3.5	50.0
2-Methylphenol	1.092	1.102	0.010	0.9	50.0
2,2'-Oxybis(1-chloropropane)	1.329	1.094	0.010	-17.7	50.0
Acetophenone	1.566	1.564	0.010	-0.2	50.0
4-Methylphenol	1.146	1.153	0.010	0.7	50.0
N-Nitroso-di-n-propylamine	0.687	0.652	0.010	-5.1	50.0
Hexachloroethane	0.595	0.580	0.010	-2.4	50.0
Nitrobenzene	0.309	0.311	0.010	0.7	50.0
Isophorone	0.535	0.543	0.010	1.4	50.0
2-Nitrophenol	0.197	0.204	0.010	3.4	50.0
2,4-Dimethylphenol	0.307	0.325	0.010	5.9	50.0
Bis(2-chloroethoxy)methane	0.354	0.351	0.010	-0.9	50.0
2,4-Dichlorophenol	0.272	0.293	0.010	7.6	50.0
Naphthalene	1.009	0.996	0.010	-1.3	50.0
4-Chloroaniline	0.334	0.382	0.010	14.5	50.0
Hexachlorobutadiene	0.173	0.184	0.010	6.4	50.0
Caprolactam	0.098	0.101	0.010	3.8	50.0
4-Chloro-3-methylphenol	0.266	0.283	0.010	6.3	50.0
2-Methylnaphthalene	0.645	0.664	0.010	3.0	50.0
Hexachlorocyclopentadiene	0.352	0.222	0.010	-36.8	50.0
2,4,6-Trichlorophenol	0.351	0.372	0.010	5.8	50.0
2,4,5-Trichlorophenol	0.377	0.392	0.010	3.8	50.0
1,1'-Biphenyl	1.393	1.402	0.010	0.7	50.0
2-Chloronaphthalene	1.081	1.096	0.010	1.4	50.0
2-Nitroaniline	0.284	0.280	0.010	-1.1	50.0
Dimethylphthalate	1.247	1.273	0.010	2.0	50.0
2,6-Dinitrotoluene	0.288	0.306	0.010	6.3	50.0
Acenaphthylene	1.828	1.815	0.010	-0.7	50.0
3-Nitroaniline	0.206	0.300	0.010	45.6	50.0
Acenaphthene	1.126	1.133	0.010	0.6	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.: F9M36

Instrument ID: 5975-G Calibration Date: 06/16/2015 Time: 22:54

Lab File ID: GBQ10S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020Q1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.155	0.010	-11.8	50.0
4-Nitrophenol	0.153	0.162	0.010	5.6	50.0
Dibenzofuran	1.478	1.509	0.010	2.1	50.0
2,4-Dinitrotoluene	0.388	0.415	0.010	6.9	50.0
Diethylphthalate	1.290	1.318	0.010	2.2	50.0
Fluorene	1.226	1.265	0.010	3.2	50.0
4-Chlorophenyl-phenylether	0.582	0.595	0.010	2.2	50.0
4-Nitroaniline	0.238	0.307	0.010	28.8	50.0
4,6-Dinitro-2-methylphenol	0.149	0.134	0.010	-10.1	50.0
N-Nitrosodiphenylamine (1)	0.523	0.527	0.010	0.8	50.0
1,2,4,5-Tetrachlorobenzene	0.495	0.518	0.010	4.7	50.0
4-Bromophenyl-phenylether	0.203	0.203	0.010	0.0	50.0
Hexachlorobenzene	0.224	0.229	0.010	2.5	50.0
Atrazine	0.191	0.192	0.010	0.3	50.0
Pentachlorophenol	0.141	0.151	0.010	7.1	50.0
Phenanthrene	1.094	1.081	0.010	-1.2	50.0
Anthracene	1.116	1.123	0.010	0.6	50.0
Carbazole	0.675	0.941	0.010	39.4	50.0
Di-n-butylphthalate	1.380	1.418	0.010	2.8	50.0
Fluoranthene	1.128	1.157	0.010	2.6	50.0
Pyrene	1.238	1.225	0.010	-1.1	50.0
Butylbenzylphthalate	0.656	0.664	0.010	1.2	50.0
3,3'-Dichlorobenzidine	0.323	0.409	0.010	26.6	50.0
Benzo(a)anthracene	1.137	1.128	0.010	-0.7	50.0
Chrysene	1.032	1.032	0.010	0.0	50.0
Bis(2-ethylhexyl)phthalate	0.965	0.983	0.010	1.8	50.0
Di-n-octylphthalate	1.688	1.765	0.010	4.5	50.0
Benzo(b)fluoranthene	1.163	1.158	0.010	-0.4	50.0
Benzo(k)fluoranthene	1.127	1.152	0.010	2.2	50.0
Benzo(a)pyrene	1.121	1.121	0.010	0.0	50.0
Indeno(1,2,3-cd)pyrene	1.099	1.068	0.010	-2.8	50.0
Dibenzo(a,h)anthracene	1.128	1.101	0.010	-2.4	50.0
Benzo(g,h,i)perylene	1.113	1.030	0.010	-7.5	50.0
2,3,4,6-Tetrachlorophenol	0.284	0.311	0.010	9.5	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.: F9M36

Instrument ID: 5975-G Calibration Date: 06/16/2015 Time: 22:54

Lab File ID: GBQ10S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020Q1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

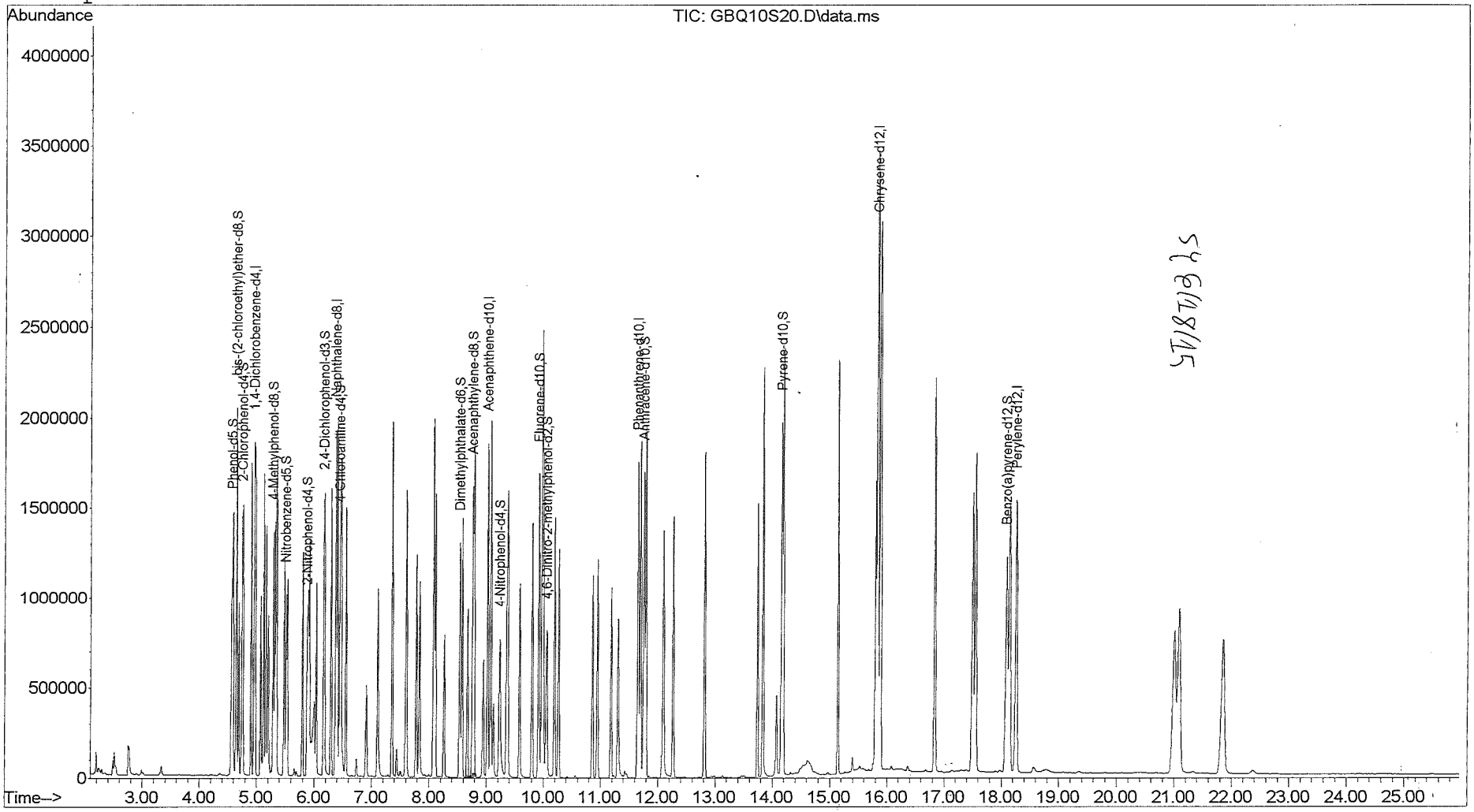
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.385	0.010	-0.7	50.0
Bis(2-chloroethyl)ether-d8	0.854	0.815	0.010	-4.6	50.0
2-Chlorophenol-d4	1.369	1.404	0.010	2.6	50.0
4-Methylphenol-d8	1.086	1.090	0.010	0.4	50.0
Nitrobenzene-d5	0.168	0.172	0.010	2.7	50.0
2-Nitrophenol-d4	0.187	0.195	0.010	4.4	50.0
2,4-Dichlorophenol-d3	0.274	0.290	0.010	5.8	50.0
4-Chloroaniline-d4	0.297	0.342	0.010	15.0	50.0
Dimethylphthalate-d6	1.216	1.292	0.010	6.2	50.0
Acenaphthylene-d8	1.623	1.648	0.010	1.5	50.0
4-Nitrophenol-d4	0.259	0.274	0.010	5.8	50.0
Fluorene-d10	1.056	1.097	0.010	3.8	50.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.119	0.010	-9.5	50.0
Anthracene-d10	1.012	1.025	0.010	1.3	50.0
Pyrene-d10	0.909	0.915	0.010	0.6	50.0
Benzo(a)pyrene-d12	0.907	0.928	0.010	2.3	50.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\16JUN15\GBQ10S20.D Vial: 9
Acq On : 06/16/2015 22:54 Operator: SY
Sample : SSTD020Q1 28296 DFTPPQ1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 16 23:20:21 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 17 09:04:58 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\16JUN15\GBQ10S20.D Vial: 9
Acq On : 06/16/2015 22:54 Operator: SY
Sample : SSTD020Q1 28296 DFTPPQ1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 16 23:20:21 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 17 09:04:58 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	317025	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1166199	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	658417	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1105786	20.00 ug/ml
73) Chrysene-d12	15.83	240	1096093	20.00 ug/ml
81) Perylene-d12	18.26	264	1074388	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	439119	19.863ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	258333	19.084ug/mL
7) 2-Chlorophenol-d4	4.75	132	445253	20.513ug/ml
13) 4-Methylphenol-d8	5.29	113	345561	20.077ug/mL
17) Nitrobenzene-d5	5.51	128	200999	20.543ug/ml
21) 2-Nitrophenol-d4	5.87	143	227679	20.880ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	338083	21.165ug/mL
28) 4-Chloroaniline-d4	6.44	131	398546	23.000ug/mL
42) Dimethylphthalate-d6	8.53	166	850430	21.238ug/mL
45) Acenaphthylene-d8	8.76	160	1084785	20.299ug/mL
50) 4-Nitrophenol-d4	9.23	143	180447	21.162ug/mL
57) Fluorene-d10	9.92	176	722130	20.763ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	131414	18.092ug/mL
69) Anthracene-d10	11.76	188	1133323	20.261ug/mL
75) Pyrene-d10	14.16	212	1002416	20.116ug/mL
86) Benzo(a)pyrene-d12	18.09	264	997521	20.469ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	228839	17.250ug/ml 96
4) Phenol	4.59	94	440510	19.697ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	346283	18.567ug/ml 91
8) 2-Chlorophenol	4.76	128	426770	20.693ug/ml 92
9) 2-Methylphenol	5.16	108	349300	20.179ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	346958	16.467ug/ml 100
11) Acetophenone	5.35	105	495712	19.967ug/ml 96
12) 4-methylphenol	5.32	108	365599	20.132ug/ml 97
14) N-Nitroso-di-n-propylamine	5.33	70	206655	18.973ug/ml 94
15) Hexachloroethane	5.47	117	184010	19.525ug/ml 95
18) Nitrobenzene	5.53	77	362654	20.132ug/ml 96
19) Isophorone	5.80	82	633014	20.282ug/ml 97
20) 2-Nitrophenol	5.89	139	238121	20.683ug/ml 98
22) 2,4-Dimethylphenol	5.92	107	379469	21.185ug/ml 93
23) Bis(2-chloroethoxy)methane	6.03	93	409334	19.815ug/ml 99
24) 2,4-Dichlorophenol	6.17	162	341615	21.510ug/ml 98
26) Naphthalene	6.40	128	1161829	19.738ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\16JUN15\GBQ10S20.D Vial: 9
Acq On : 06/16/2015 22:54 Operator: SY
Sample : SSTD020Q1 28296 DFTPPQ1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 16 23:20:21 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 17 09:04:58 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	445439	22.891ug/ml	95
29)	Hexachlorobutadiene	6.55	225	214800	21.285ug/ml	100
30)	Caprolactam	6.91	113	118222	20.751ug/ml	69
31)	4-Chloro-3-methylphenol	7.10	107	330466	21.269ug/ml	94
32)	2-Methylnaphthalene	7.36	142	774521	20.609ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.60	216	341227	20.949ug/mL	98
35)	Hexachlorocyclopentadiene	7.59	237	146418	12.632ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	244716	21.154ug/ml	98
37)	2,4,5-Trichlorophenol	7.83	196	257948	20.759ug/ml	98
38)	1,1'-Biphenyl	8.07	154	923376	20.131ug/ml	96
39)	2-Chloronaphthalene	8.10	162	721649	20.284ug/ml	98
40)	2-Nitroaniline	8.26	65	184665	19.773ug/ml	82
41)	Dimethylphthalate	8.57	163	837878	20.405ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	201311	21.263ug/ml	88
44)	Acenaphthylene	8.78	152	1194999	19.857ug/ml	99
46)	3-Nitroaniline	8.95	138	197558	29.129ug/ml	91
47)	Acenaphthene	9.07	153	745954	20.125ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	102375	17.632ug/ml	100
49)	4-Nitrophenol	9.24	109	106517	21.111ug/ml	90
51)	Dibenzofuran	9.37	168	993653	20.421ug/ml	99
52)	2,4-Dinitrotoluene	9.35	165	273474	21.390ug/ml	100
53)	2,3,4,6-Tetrachlorophenol	9.58	232	204845	21.899ug/mL	97
54)	Diethylphthalate	9.80	149	867592	20.433ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	391491	20.435ug/ml	98
56)	Fluorene	9.97	166	833117	20.638ug/ml	99
58)	4-Nitroaniline	10.00	138	201935	25.755ug/ml	75
60)	4,6-Dinitro-2-methylphenol	10.06	198	147875	17.988ug/ml	91
62)	N-Nitrosodiphenylamine	10.19	169	583051	20.161ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	224904	20.003ug/ml	99
64)	Hexachlorobenzene	10.95	284	253569	20.508ug/ml	87
65)	Atrazine	11.19	200	212204	20.066ug/ml	96
66)	Pentachlorophenol	11.31	266	167425	21.418ug/ml	99
67)	Phenanthrene	11.70	178	1194960	19.760ug/ml	100
68)	Anthracene	11.79	178	1241748	20.122ug/ml	100
70)	Carbazole	12.10	167	1040841	27.886ug/mL	99
71)	Di-n-butylphthalate	12.82	149	1568183	20.554ug/ml	99
72)	Fluoranthene	13.83	202	1279612	20.520ug/ml	95
74)	Pyrene	14.19	202	1342970	19.786ug/ml	95
76)	Butylbenzylphthalate	15.14	149	727642	20.244ug/ml	89
77)	3,3'-Dichlorobenzidine	15.79	252	448040	25.310ug/ml	99
78)	Benzo(a)anthracene	15.82	228	1236830	19.857ug/ml	100
79)	Chrysene	15.87	228	1130810	19.998ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1077302	20.365ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\16JUN15\GBQ10S20.D Vial: 9
Acq On : 06/16/2015 22:54 Operator: SY
Sample : SSTD020Q1 28296 DFTPPQ1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 16 23:20:21 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 17 09:04:58 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.83	149	1895796	20.908ug/ml	99
83) Benzo(b)fluoranthene	17.50	252	1243614	19.913ug/ml	98
84) Benzo(k)fluoranthene	17.55	252	1237978	20.443ug/ml	97
85) Benzo(a)pyrene	18.14	252	1204711	19.998ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	21.00	276	1147708	19.435ug/ml	92
88) Dibenzo(a,h)anthracene	21.09	278	1183147	19.528ug/ml	96
89) Benzo(g,h,i)perylene	21.85	276	1106684	18.504ug/ml	94

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

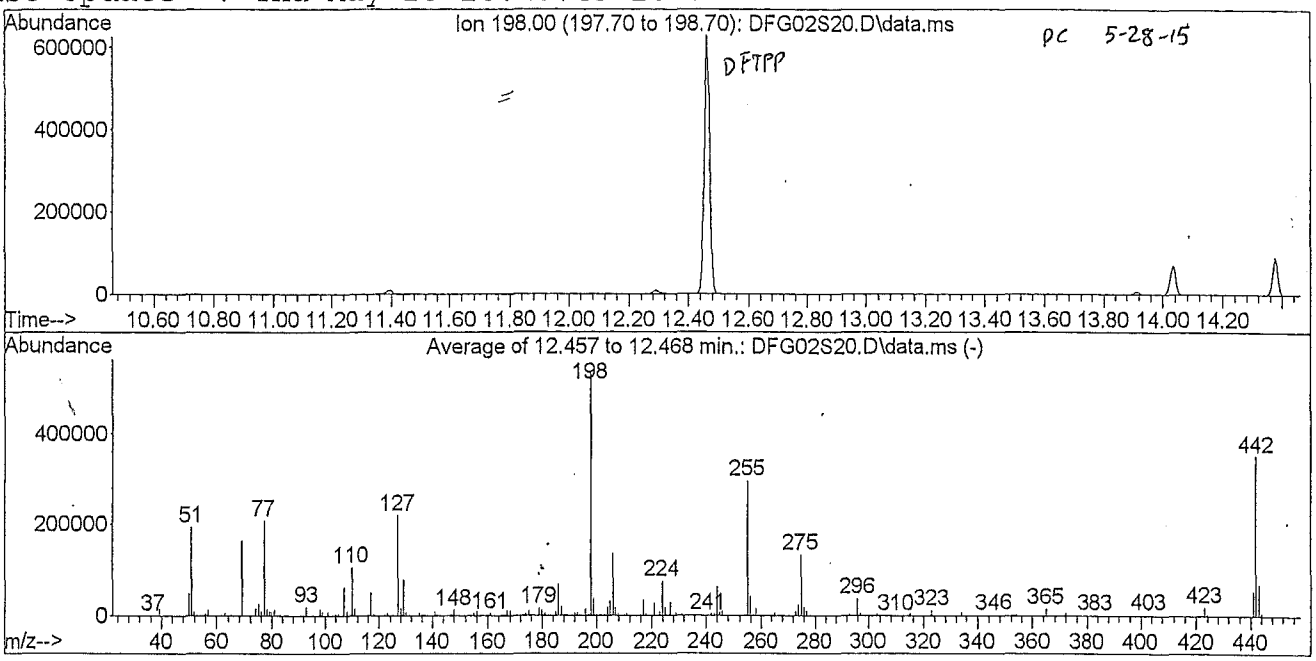
DFTPP

Data Path : C:\msdchem\1\DATA\2015\MAY15\21MAY15\
Data File : DFG02S20.D
Acq On : 05/21/2015 14:38
Operator : DJC
Sample : SSTD020DG 28104 DFTPPDG
Inst : 5975-D
Misc : X6-19-15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DSOM01D5.M
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015

Original with SDG: F9K50
Case: 45316



Average of Scan 1763, 1764, 1765; Background corrected with Scan 1758

Spectrum Information: Average of 12.457 to 12.468 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.0	193564	PASS
68	69	0.00	2	1.4	2286	PASS
69	198	0.00	100	30.4	163553	PASS
70	69	0.00	2	1.0	1628	PASS
127	198	10	80	40.8	219404	PASS
197	198	0.00	2	0.5	2433	PASS
198	198	100	100	100.0	537792	PASS
199	198	5	9	6.8	36485	PASS
275	198	10	60	24.9	133741	PASS
365	198	1	100	2.9	15386	PASS
441	443	0.01	100	77.9	53181	PASS
442	198	50	100	65.3	351381	PASS
443	442	15	24	19.4	68240	PASS

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	134	49.00	1285	60.95	2013	71.95	49
36.95	680	50.00	47706	61.95	1858	73.00	1065
38.00	1923	50.95	193564	62.90	6228	73.95	15635
39.00	14087	51.95	9725	63.95	976	74.95	25657
39.90	517	52.95	362	64.95	3393	76.00	10138
41.00	530	55.00	1119	65.90	214	77.00	207901
41.95	72	56.00	4716	66.95	303	78.00	13859
43.00	295	57.00	11969	67.90	2286	78.90	10151
44.90	449	57.90	499	68.90	163553	79.95	8558
47.85	152	58.90	69	70.00	1628	80.90	12911
48.10	50	59.90	275	71.00	1147	81.95	3038

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	4107	93.95	1473	104.90	4089	117.95	3748
83.75	662	94.90	286	106.00	1697	118.95	386
84.10	271	95.95	1052	106.95	62941	119.90	869
84.90	2631	97.00	399	108.00	9473	120.90	204
85.90	2746	97.95	14382	108.95	1375	121.95	3343
86.90	1343	98.90	10919	109.90	105071	122.90	5118
87.90	400	99.85	947	110.95	15795	123.90	2467
88.90	107	100.90	7530	111.95	2221	124.95	2932
90.95	2312	101.95	531	112.90	285	126.00	1089
91.95	2699	102.95	2178	115.95	2955	126.90	219404
92.90	19013	103.95	3980	116.90	50139	127.90	15935

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.90	78067	141.90	3411	151.85	809	162.90	587
129.90	6819	142.90	2368	152.90	3136	163.90	349
130.95	1517	143.80	217	153.90	2569	164.90	3721
131.95	688	143.95	423	154.95	6457	166.00	982
133.05	414	144.85	614	155.95	9623	167.00	12557
133.95	2072	145.90	1910	156.95	2002	167.95	10687
134.90	6190	146.90	5325	157.90	1799	168.95	1993
135.90	2639	147.90	12638	158.90	1494	169.90	636
136.90	3620	148.90	2312	159.90	3091	170.85	942
137.85	406	149.90	700	160.90	5269	171.90	1917
140.90	9260	151.00	1515	161.95	1554	172.90	2478

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.90	5058	183.95	1307	194.95	825	206.00	135576
175.00	9396	184.95	8335	195.90	14384	206.95	17362
175.95	2669	186.00	67997	196.80	1059	207.90	3992
176.90	3670	187.00	18957	197.00	2433	208.90	1225
177.90	1102	187.95	2019	197.90	537792	210.05	2350
178.85	16461	188.90	3397	198.90	36485	210.95	5433
179.95	11987	189.85	627	199.90	2899	212.80	85
180.95	6195	190.90	1750	201.45	2737	212.95	286
181.95	953	191.90	5835	202.90	3387	213.70	57
182.70	166	192.90	6482	203.90	18488	214.00	69
182.85	433	193.90	1401	204.95	31696	214.90	1373

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.95	2806	228.90	6598	239.95	887	250.85	551
216.90	34141	229.90	975	240.90	1638	251.95	579
217.90	4440	230.95	2966	241.95	4200	252.95	1284
218.85	492	231.85	560	243.00	4246	254.00	2608
220.95	26925	232.90	486	244.00	61589	254.90	295765
222.90	8226	233.85	1896	245.00	8185	255.90	43349
223.95	75768	234.90	2193	245.90	10350	256.95	3278
224.95	19232	235.95	1496	246.90	1997	257.90	15758
225.95	1935	236.90	2603	247.95	523	258.90	2561
226.90	28301	237.95	397	248.90	2180	259.85	490
227.90	3814	238.95	1094	249.95	491	260.85	530

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
262.90	157	273.90	24939	285.00	1867	295.90	37245
263.75	435	274.95	133741	285.80	94	296.90	5146
264.95	6394	275.95	18072	286.00	240	297.90	363
265.90	1277	276.90	10619	288.05	120	298.90	144
266.80	64	277.95	1914	288.90	474	300.90	528
267.85	311	278.90	427	289.95	397	302.00	605
268.80	52	280.90	55	290.85	283	303.00	4218
269.85	373	281.10	108	291.90	499	303.95	1172
270.90	619	281.95	336	292.90	2595	304.90	145
271.95	802	282.90	1292	293.90	651	307.95	534
272.90	9595	283.90	725	294.90	567	308.95	390

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
309.85	533	320.95	1116	332.95	1149	351.10	97
311.10	56	321.95	642	334.00	7207	352.00	3522
311.50	51	323.00	11769	335.00	1935	353.00	2404
312.00	51	323.95	2254	335.90	157	354.00	3497
312.95	312	324.95	244	338.80	166	354.95	724
313.95	1781	325.85	236	340.95	1257	358.80	114
314.90	4034	326.90	2322	341.95	294	359.00	81
315.95	2378	327.80	239	342.80	50	363.80	62
316.80	110	327.95	882	345.90	2413	364.90	15386
317.00	324	328.90	149	346.90	488	365.90	2002
319.95	149	331.95	913	350.90	137	366.85	131

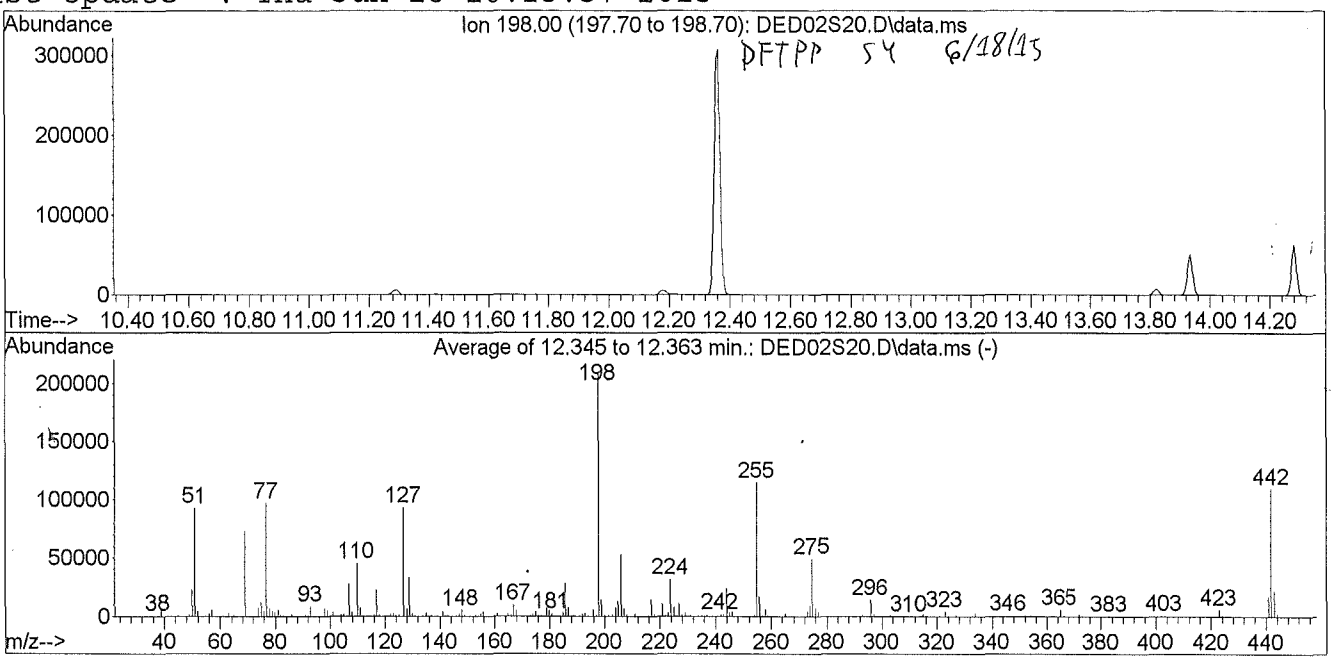
Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
369.90	341	391.95	282	425.00	375	439.90	225
370.95	802	400.90	347	434.10	56	441.00	53181
372.00	5649	401.95	2189	435.00	108	442.00	351381
373.05	1427	403.00	3097	435.50	56	443.00	68240
374.00	128	403.95	1173	436.45	148	444.00	6462
376.90	57	404.90	59	437.10	63	444.95	314
382.90	1519	414.85	149	437.80	167		
383.90	442	420.95	2548	438.30	103		
389.95	695	422.00	2473	438.70	87		
391.00	548	423.00	18427	439.15	209		
391.80	65	424.00	3761	439.60	65		

Data Path : C:\msdchem\1\DATA\2015\JUN15\17JUN15\
Data File : DED02S20.D
Acq On : 06/17/2015 13:06
Operator : SY
Sample : SSTD020DD 28296 DFTPPDD
Inst : 5975-D
Misc : . X6-19-15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DSOM01D5.M
Title : EPA/CLP SOM01
Last Update : Thu Jun 18 10:23:37 2015



Average of scans 1745, 1746, 1747 Background subtracted with scan 1738

Spectrum Information: Average of 12.345 to 12.363 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.3	92818	PASS
68	69	0.00	2	1.4	1039	PASS
69	198	0.00	100	34.8	72888	PASS
70	69	0.00	2	0.5	335	PASS
127	198	10	80	44.5	93328	PASS
197	198	0.00	2	0.7	1428	PASS
198	198	100	100	100.0	209690	PASS
199	198	5	9	6.9	14550	PASS
275	198	10	60	23.4	49166	PASS
365	198	1	100	2.6	5551	PASS
441	443	0.01	100	76.4	16587	PASS
442	198	50	100	52.3	109582	PASS
443	442	15	24	19.8	21711	PASS

Average of 12.345 to 12.363 min.: DED02S20.D\data.ms
SSTD020DD 28296 DFTPPDD
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	59	48.90	1025	60.95	859	72.95	819
36.85	236	49.95	22668	61.90	993	73.90	7039
37.90	893	50.95	92818	62.90	3026	74.90	11986
38.95	6712	51.95	4591	63.90	546	75.95	4658
39.95	312	52.95	274	64.90	1574	76.95	96975
40.90	288	54.90	432	65.90	89	78.00	6744
42.90	233	55.90	2304	66.95	174	78.90	4386
43.90	79	56.90	5647	67.90	1039	79.95	3698
44.90	330	57.95	289	68.90	72888	80.90	5827
46.90	53	59.00	140	69.85	335	81.85	1681
47.90	78	60.00	40	70.90	224	82.90	1364

Average of 12.345 to 12.363 min.: DED02S20.D\data.ms
SSTD020DD 28296 DFTPPDD
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.85	627	95.80	47	105.95	615	116.90	22850
84.85	953	95.95	533	106.90	27336	117.90	1684
85.90	1644	96.95	228	107.90	4136	118.85	251
86.90	648	97.90	6603	108.95	793	119.90	287
87.90	262	98.90	5199	109.90	45324	120.95	141
88.85	270	99.90	502	110.90	7017	121.95	1478
90.90	1127	100.90	3525	111.90	917	122.90	2426
91.90	1293	101.85	194	112.85	232	123.90	1135
92.90	8523	102.90	895	113.95	136	124.95	1310
93.90	730	103.95	1736	114.90	54	126.00	433
94.95	312	104.85	1628	115.90	1360	126.90	93328

Average of 12.345 to 12.363 min.: DED02S20.D\data.ms
SSTD020DD 28296 DFTPPDD
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
127.90	6984	138.90	60	149.90	373	159.85	1300
128.90	33312	139.90	270	150.95	647	160.90	2159
129.90	2866	140.90	3958	151.50	128	161.90	624
130.90	639	141.95	1441	151.80	192	163.00	207
131.95	267	142.90	1085	152.90	1347	163.95	370
132.85	97	143.90	299	153.85	1063	164.85	1611
133.85	867	144.90	257	154.95	2654	165.95	1185
134.90	2772	145.90	753	155.90	4083	166.95	9646
135.90	1118	146.90	2338	156.95	757	167.90	5256
136.90	1553	147.90	5499	157.85	721	168.80	812
137.85	203	148.90	1295	158.90	584	169.85	228

Average of 12.345 to 12.363 min.: DED02S20.D\data.ms
SSTD020DD 28296 DFTPPDD
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.80	371	181.95	402	192.90	2839	204.90	12701
171.90	720	182.95	158	193.90	625	205.95	53244
172.90	1163	183.90	559	194.85	402	206.90	6912
173.90	2034	184.90	3713	195.90	5846	207.90	1638
174.90	3952	185.90	27993	196.90	1428	208.90	599
175.95	1168	186.90	7853	197.90	209690	209.90	247
176.90	1463	187.90	864	198.90	14550	210.10	317
177.95	655	188.90	1383	199.90	1193	210.90	2142
178.90	7052	189.90	210	201.35	1007	211.70	98
179.90	5095	190.90	828	202.90	1336	212.95	112
180.90	2431	191.90	2398	203.90	7687	214.90	493

00371

Average of 12.345 to 12.363 min.: DED02S20.D\data.ms
SSTD020DD 28296 DFTPPDD
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.90	1207	226.90	11262	237.80	151	248.90	879
216.90	14152	227.90	1712	238.90	389	249.85	187
217.90	1815	228.90	2807	239.85	350	250.95	213
218.85	168	229.90	412	240.85	686	251.90	233
220.00	77	230.90	1131	241.90	1702	252.90	589
220.90	10535	231.85	202	242.95	1921	253.70	61
221.80	1488	232.85	215	243.95	23740	253.95	968
222.90	3527	233.90	730	244.90	3211	254.90	114930
223.90	31601	234.90	950	245.90	4207	255.90	17509
224.90	7822	235.90	630	246.85	884	256.90	1370
225.90	855	236.90	1065	247.85	206	257.90	6217

Average of 12.345 to 12.363 min.: DED02S20.D\data.ms
SSTD020DD 28296 DFTPPDD
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.85	1013	273.90	9113	285.85	114	300.90	128
259.90	210	274.90	49166	288.85	112	301.85	233
260.85	203	275.90	6550	289.85	103	302.95	1530
263.80	234	276.90	3881	290.80	58	303.90	367
264.95	2463	277.90	688	291.90	186	307.85	184
265.90	502	278.90	121	292.85	969	308.80	49
266.80	46	280.90	108	293.85	263	309.10	49
269.90	113	281.90	121	294.85	281	309.90	168
270.85	243	282.85	574	295.90	13963	312.70	50
271.90	295	283.90	303	296.90	1979	312.90	48
272.90	3772	284.90	738	297.90	110	313.85	694

Average of 12.345 to 12.363 min.: DED02S20.D\data.ms
SSTD020DD 28296 DFTPPDD
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
314.85	1487	328.80	95	351.90	1136	383.90	98
315.90	906	331.90	263	352.90	806	389.95	224
316.95	101	332.90	332	353.90	1135	390.95	108
320.85	394	333.90	2642	354.95	358	391.80	89
321.90	177	334.90	672	364.90	5551	400.90	90
323.00	4084	335.90	40	365.90	742	401.90	701
323.95	753	340.90	512	369.90	57	402.95	993
324.95	92	341.85	105	370.95	286	403.95	275
325.85	102	345.70	73	372.00	1885	421.00	844
326.90	923	345.90	901	372.95	455	421.95	825
327.90	343	346.80	124	382.90	502	423.00	5740

Average of 12.345 to 12.363 min.: DED02S20.D\data.ms
SSTD020DD 28296 DFTPPDD
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.95	1148						
424.95	96						
439.00	39						
439.80	87						
441.00	16587						
442.00	109582						
443.00	21711						
444.00	1989						
444.95	95						

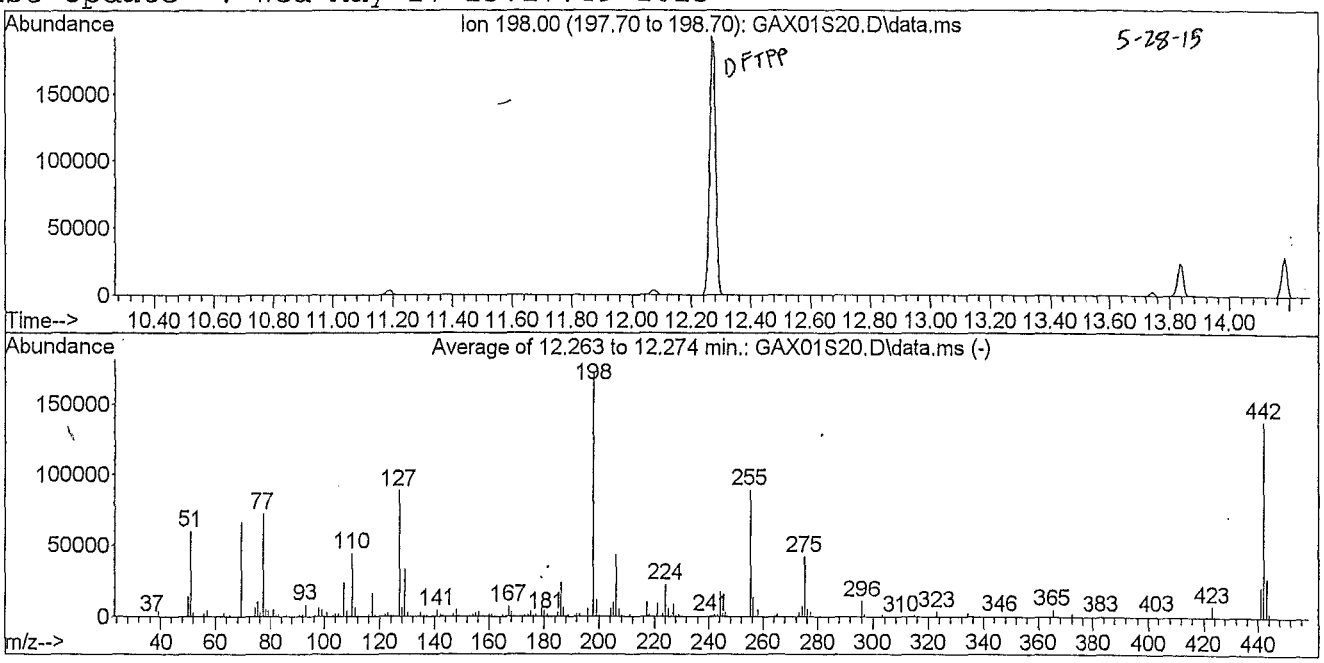
DFTPP

Data Path : C:\msdchem\1\data\2015\MAY15\27MAY15PM\
Data File : GAX01S20.D
Acq On : 05/27/2015 15:49
Operator : DJC
Sample : SSTD020GX 28165 DFTPPGX
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M
Title : EPA/CLP SOM01
Last Update : Wed May 27 15:17:49 2015

Original with SDG: F9K48
Case: 45316



Average of Scans 1730, 1731, 1732 ; Background corrected with scan 1723

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	34.5	59670	PASS
68	69	0.00	2	2.0	1300	PASS
69	198	0.00	100	38.4	66443	PASS
70	69	0.00	2	0.4	297	PASS
127	198	10	80	51.1	88531	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	173163	PASS
199	198	5	9	6.6	11486	PASS
275	198	10	60	24.4	42221	PASS
365	198	1	100	2.8	4828	PASS
441	443	0.01	100	76.6	20965	PASS
442	198	50	100	79.9	138347	PASS
443	442	15	24	19.8	27379	PASS

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.95	198	57.00	4406	70.20	177	80.00	3555
38.05	670	58.00	200	70.80	121	81.00	5186
39.10	4170	61.00	925	70.95	60	82.05	1245
40.05	276	62.00	726	73.00	328	83.05	1417
41.05	139	63.05	2446	73.20	140	85.00	1133
49.15	324	64.00	419	74.05	6405	85.95	1193
50.10	14413	65.05	1286	75.00	10406	86.95	793
51.05	59670	67.00	116	76.10	3574	88.00	388
52.10	2918	68.05	1300	77.05	72527	89.00	304
55.00	311	69.00	66443	78.10	4941	91.00	1215
56.00	2015	69.95	297	79.00	4684	92.00	1300

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	7925	101.00	2936	112.05	867	125.00	1051
93.90	405	101.90	222	113.00	177	127.00	88531
94.10	185	102.95	1094	114.00	125	128.05	6708
95.00	59	103.95	1897	116.05	1428	129.00	33195
96.05	482	105.00	1868	117.00	16298	130.00	2887
97.00	78	106.05	680	118.00	1266	131.05	622
97.20	82	107.00	23941	119.00	96	132.05	278
98.00	6063	108.00	3882	120.10	335	132.40	81
99.00	4705	109.10	512	122.00	1654	132.85	125
99.95	421	110.00	44104	123.00	2377	134.00	905
100.20	101	111.00	6705	124.00	1054	135.00	2967

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.95	1065	146.10	458	156.90	219	166.10	1203
137.10	1185	146.95	2018	157.10	517	167.10	6907
138.00	262	148.00	4469	157.95	830	168.00	3157
139.05	35	149.00	886	159.00	603	169.05	727
140.00	521	150.10	246	160.05	1263	170.10	322
141.00	4480	151.00	569	161.05	1921	170.95	386
142.00	1396	151.85	464	161.80	115	172.00	827
143.00	991	153.00	1246	162.05	405	173.00	996
143.90	236	154.05	1133	162.95	134	174.05	1745
145.00	254	155.05	2351	164.00	215	175.05	3314
145.90	163	156.10	3481	165.00	1589	176.05	1097

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	1601	187.10	6468	198.00	173163	210.00	138
178.05	586	188.10	652	199.00	11486	210.20	301
179.00	6146	189.00	1324	200.05	991	211.00	1681
180.00	4225	190.00	261	201.45	791	212.05	138
181.05	1970	191.05	694	203.05	1040	215.05	543
182.05	328	192.00	2061	204.10	5945	216.05	892
182.60	61	193.05	1918	205.10	10186	217.00	10239
182.90	181	194.05	498	206.10	43251	218.05	1368
184.05	534	194.90	233	207.10	5497	218.90	65
185.05	3153	195.20	256	208.00	1424	221.10	9296
186.10	23701	196.05	5396	209.05	494	223.05	2553

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
224.10	22435	235.05	588	246.05	3137	258.05	4991
225.10	5550	236.05	420	247.05	726	258.95	742
226.10	685	237.00	781	247.90	66	260.10	79
227.10	8673	238.00	56	249.05	626	260.90	76
228.05	1295	239.05	302	250.10	67	264.00	149
229.00	1771	240.00	272	251.05	142	265.05	1946
230.05	287	241.00	498	252.00	250	266.05	270
231.05	801	242.05	1312	253.00	456	271.05	205
232.05	201	243.10	1396	255.10	89128	272.05	263
233.00	162	244.10	17245	256.10	13583	273.10	2748
234.00	633	245.10	2288	257.10	1078	274.10	7576

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
275.10	42221	291.95	109	309.00	54	328.05	364
276.05	5434	293.00	807	309.95	151	332.00	61
277.05	3445	294.00	112	314.00	463	332.25	273
278.10	526	294.20	79	315.05	1272	333.10	342
283.00	255	296.10	10831	316.05	687	334.10	2288
283.20	155	297.05	1452	317.00	61	335.05	610
283.90	79	301.10	159	321.05	418	341.05	412
284.10	171	302.00	171	322.15	214	342.00	71
285.05	626	303.10	1387	323.10	3577	345.90	162
286.00	53	304.05	347	324.10	682	346.10	607
289.10	63	308.00	68	327.00	709	346.90	66

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

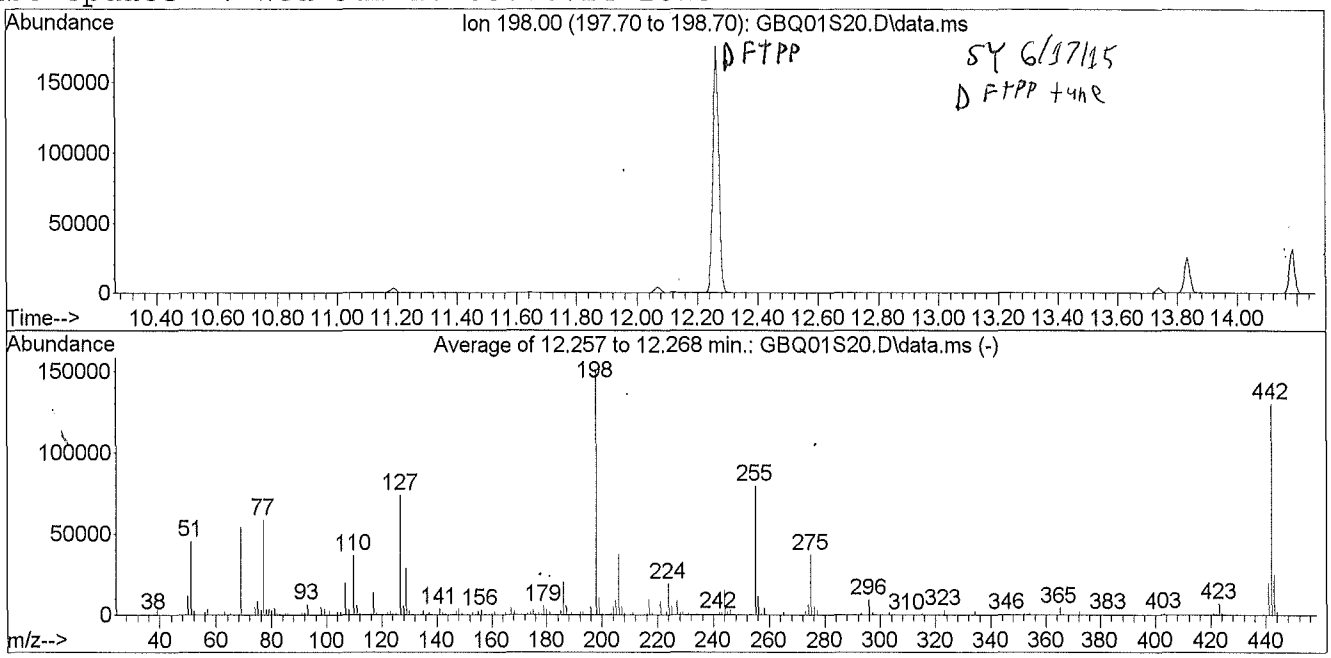
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.10	905	391.00	160	435.60	65		
353.05	737	392.10	57	436.50	117		
354.10	1171	401.00	58	437.20	97		
355.05	280	402.05	729	437.65	154		
365.05	4828	403.05	1106	438.40	153		
366.05	628	404.10	388	439.70	145		
371.05	343	421.05	1065	441.10	20965		
372.10	2005	422.10	989	442.10	138347		
373.10	496	423.10	7558	443.10	27379		
383.05	511	424.10	1523	444.10	2502		
390.10	292	425.10	146	445.05	127		

DFTPP

Data Path : C:\msdchem\1\data\2015\JUN15\16JUN15\
Data File : GBQ01S20.D
Acq On : 06/16/2015 18:04
Operator : SY
Sample : SSTD020GQ 28296 DFTPPGQ
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M
Title : EPA/CLP SOM01
Last Update : Wed Jun 17 08:56:24 2015



Average of scans 1730, 1731, 1729 Background corrected with scan 1719

Spectrum Information: Average of 12.257 to 12.268 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.0	45304	PASS
68	69	0.00	2	2.0	1076	PASS
69	198	0.00	100	35.8	54125	PASS
70	69	0.00	2	0.6	325	PASS
127	198	10	80	48.9	73949	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	151109	PASS
199	198	5	9	6.7	10167	PASS
275	198	10	60	24.4	36941	PASS
365	198	1	100	2.8	4162	PASS
441	443	0.01	100	78.0	19524	PASS
442	198	50	100	86.1	130136	PASS
443	442	15	24	19.2	25037	PASS

Average of 12.257 to 12.268 min.: GBQ01S20.D\data.ms
SSTD020GQ 28296 DFTPPGQ
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.00	584	57.00	3472	73.05	392	84.10	69
39.05	3140	58.00	208	74.05	5112	85.05	795
39.95	139	60.95	637	75.00	8605	85.95	1000
41.00	218	62.05	698	76.10	2971	87.00	588
49.05	436	63.00	2144	77.10	58811	88.00	159
50.10	11505	63.95	293	78.05	3802	91.00	1042
51.10	45304	65.05	1016	79.00	3656	91.95	1148
52.05	2365	68.15	1076	80.00	3005	93.00	6424
53.00	55	69.00	54125	81.00	4313	93.95	534
55.05	176	69.95	325	82.00	1204	95.00	191
55.95	1574	70.95	139	83.05	1078	95.95	373

Average of 12.257 to 12.268 min.: GBQ01S20.D\data.ms
SSTD020GQ 28296 DFTPPGQ
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.15	147	108.00	3135	120.00	240	132.10	263
98.00	4956	109.10	682	121.20	51	132.70	51
99.00	3793	110.00	36872	122.00	1452	133.00	174
99.95	366	111.00	5698	123.05	1978	134.00	900
101.00	2670	112.00	742	124.00	913	135.00	2356
101.95	124	112.95	71	125.00	809	136.05	793
103.00	833	114.95	26	127.00	73949	137.05	1171
104.00	1683	116.05	1064	128.00	5713	138.00	386
105.05	1435	117.00	13410	129.00	28365	141.00	3790
106.10	667	117.95	1003	130.00	2442	142.05	1151
107.00	19656	119.05	141	131.05	501	143.00	838

Average of 12.257 to 12.268 min.: GBQ01S20.D\data.ms
SSTD020GQ 28296 DFTPPGQ
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.05	283	154.05	968	164.05	375	174.05	1556
144.90	150	155.05	2076	164.95	1219	175.05	2658
145.10	70	156.10	3101	166.10	153	176.05	887
146.05	582	157.00	611	167.10	4021	177.05	1291
147.00	1931	157.80	447	168.05	2102	177.95	438
148.00	3789	158.10	210	169.00	641	179.00	5350
149.00	707	158.95	576	170.10	188	180.00	3374
150.00	246	160.00	1129	170.30	68	181.05	1591
151.05	534	161.00	1705	170.90	296	182.15	1258
151.95	326	162.05	572	171.95	720	183.00	168
153.00	1146	163.00	147	173.00	744	184.10	461

Average of 12.257 to 12.268 min.: GBQ01S20.D\data.ms
SSTD020GQ 28296 DFTPPGQ
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.00	2556	196.05	4714	207.10	4774	217.95	1235
186.10	20144	198.00	151109	208.05	1242	219.05	111
187.10	5711	199.00	10167	209.00	327	219.90	55
188.05	641	200.05	786	210.10	631	221.10	8017
189.00	1249	200.80	76	211.00	1386	221.80	602
190.00	253	201.45	730	211.70	168	223.10	2292
191.05	563	202.05	171	212.10	112	224.10	19125
192.00	1612	203.05	989	214.90	127	225.10	5121
193.00	1838	204.10	4932	215.10	319	226.15	636
194.05	462	205.10	8857	216.10	836	227.05	8273
194.95	251	206.10	37253	217.00	9212	228.05	1242

00377

Average of 12.257 to 12.268 min.: GBQ01S20.D\data.ms
SSTD020GQ 28296 DFTPPGQ
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
229.00	1734	241.10	447	250.95	180	265.05	1669
230.05	240	242.05	1081	251.80	79	265.80	103
231.05	708	243.10	1288	252.00	64	266.00	254
232.00	67	244.10	15154	253.05	441	271.00	245
233.05	120	245.05	2024	255.10	79373	272.00	284
234.05	540	246.05	2867	256.10	11723	273.05	2402
235.05	544	246.95	499	257.10	969	274.10	6500
236.00	346	248.00	52	258.10	4235	275.10	36941
237.05	566	249.00	613	259.00	697	276.10	5232
239.05	290	249.80	59	261.00	76	277.10	2946
240.00	191	250.10	76	263.95	112	278.00	524

Average of 12.257 to 12.268 min.: GBQ01S20.D\data.ms
SSTD020GQ 28296 DFTPPGQ
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
279.00	121	296.05	9435	315.00	1115	334.10	2183
283.05	326	297.10	1311	316.05	682	335.10	515
284.05	256	301.10	132	321.05	361	341.05	426
285.05	537	301.90	66	322.10	172	342.00	54
289.00	59	302.25	129	323.10	3018	346.05	676
289.90	51	303.05	1147	324.05	581	352.05	940
290.20	59	304.05	387	326.95	560	353.05	611
292.00	109	308.00	176	328.00	287	354.05	1055
293.00	725	309.00	62	331.80	74	355.10	181
294.20	66	309.90	70	332.15	214	365.05	4162
295.00	83	314.05	504	333.00	317	366.05	674

Average of 12.257 to 12.268 min.: GBQ01S20.D\data.ms
SSTD020GQ 28296 DFTPPGQ
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
371.10	355	421.10	908	442.10	130136		
372.10	1788	422.10	843	443.10	25037		
373.05	455	423.10	6744	444.15	2220		
383.05	486	424.10	1231	445.00	55		
384.05	127	425.05	128				
390.10	257	436.60	115				
391.05	152	437.90	87				
400.90	54	438.30	63				
402.05	791	439.05	363				
403.05	972	440.00	133				
404.05	340	441.10	19524				

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK11

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450511

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBQ03BLK

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U

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

EPA SAMPLE NO.

SBLK11

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450511

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBQ03BLK

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

SBLK11

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450511

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBQ03BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	625-86-5	Furan, 2,5-dimethyl-	2.50	900	JN
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	87.	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.58	4100	J
04		Unknown 3-Hexene-2,5-dione	4.35	250	J
05	629-54-9	Hexadecanamide	14.25	150	JN
06	301-02-0	9-Octadecenamide, (Z)-	15.17	1200	JN
07	301-02-0	9-Octadecenamide, (Z)-	15.96	71.	JN
08		Unknown 2,6-Decadienoic acid, 3-methyl-, ethyl e	16.31	130	J
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	500	J

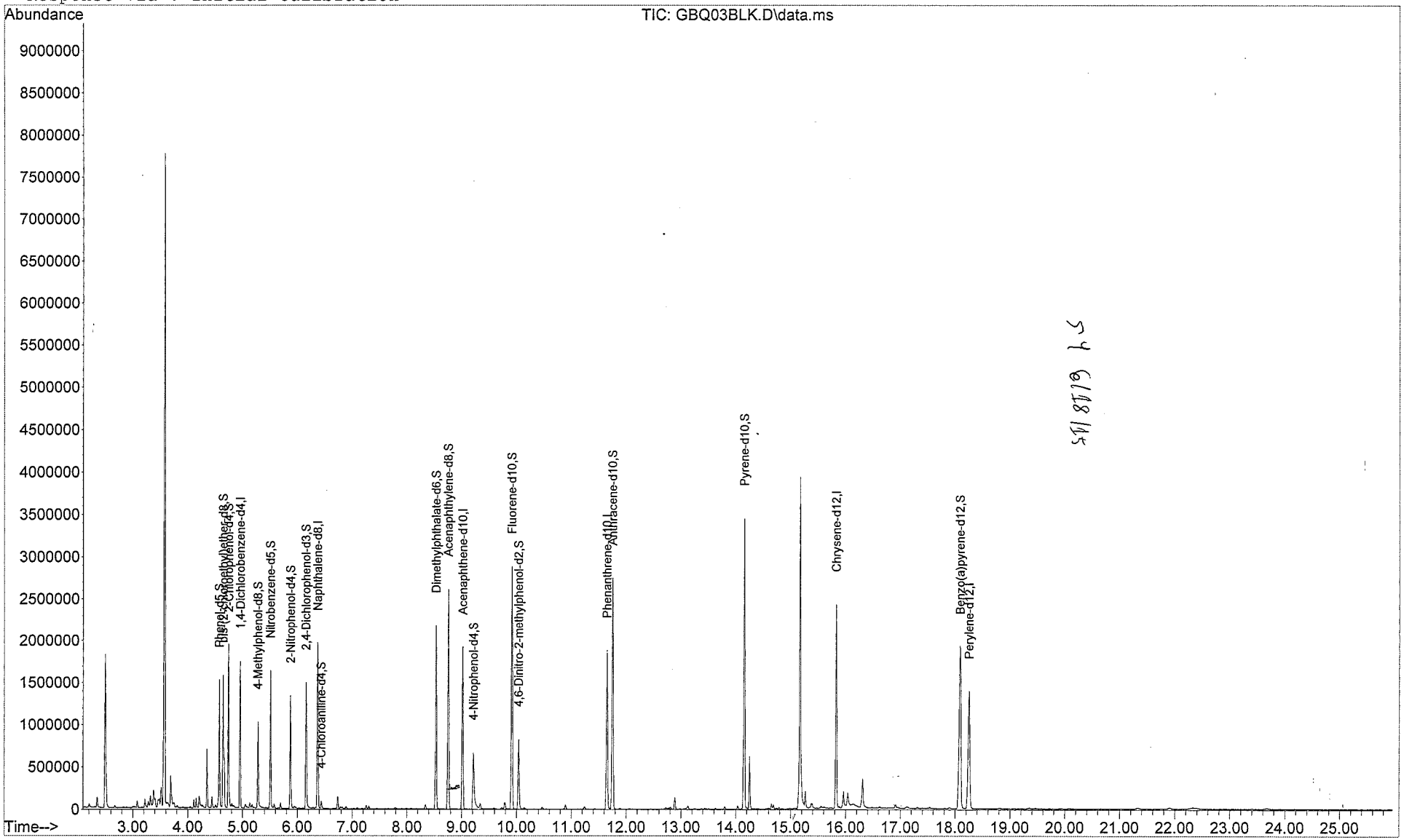
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 11:29:51 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:29:51 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	310647	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1208205	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	695732	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1133208	20.00 ug/ml
73) Chrysene-d12	15.83	240	1083251	20.00 ug/ml
81) Perylene-d12	18.25	264	1056163	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	623466	28.781ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	349113	26.320ug/mL
7) 2-Chlorophenol-d4	4.75	132	604419	28.418ug/ml
13) 4-Methylphenol-d8	5.28	113	266264	15.787ug/mL
17) Nitrobenzene-d5	5.51	128	305670	30.154ug/ml
21) 2-Nitrophenol-d4	5.87	143	349901	30.973ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	438165	26.477ug/mL
28) 4-Chloroaniline-d4	6.43	131	41377	2.305ug/mL
42) Dimethylphthalate-d6	8.53	166	1363024	32.214ug/mL
45) Acenaphthylene-d8	8.76	160	1728048	30.602ug/mL
50) 4-Nitrophenol-d4	9.22	143	271222	30.102ug/mL
57) Fluorene-d10	9.92	176	1177400	32.037ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	227922	30.620ug/mL
69) Anthracene-d10	11.75	188	1812472	31.618ug/mL
75) Pyrene-d10	14.16	212	1599918	32.487ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1511424	31.549ug/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)

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:29:51 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

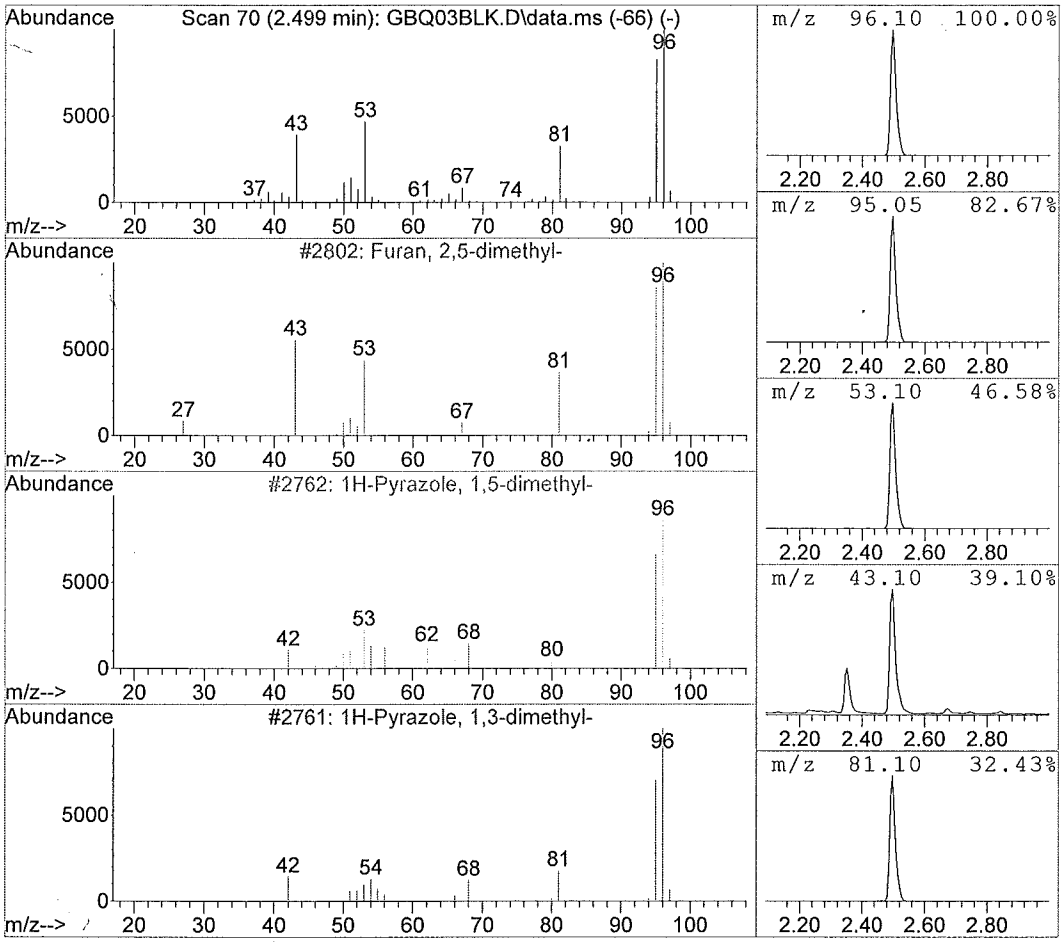
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.50	26.98 ug/ml	2324541	1,4-Dichlorobenzene-d4	1723031

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2802	000625-86-5	94.00
2	1H-Pyrazole, 1,5-dimethyl-	2762	000694-31-5	43.00
3	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	38.00
4	1H-Imidazole, 4,5-dimethyl-	2767	002302-39-8	35.00
5	Furfural	2736	000098-01-1	35.00



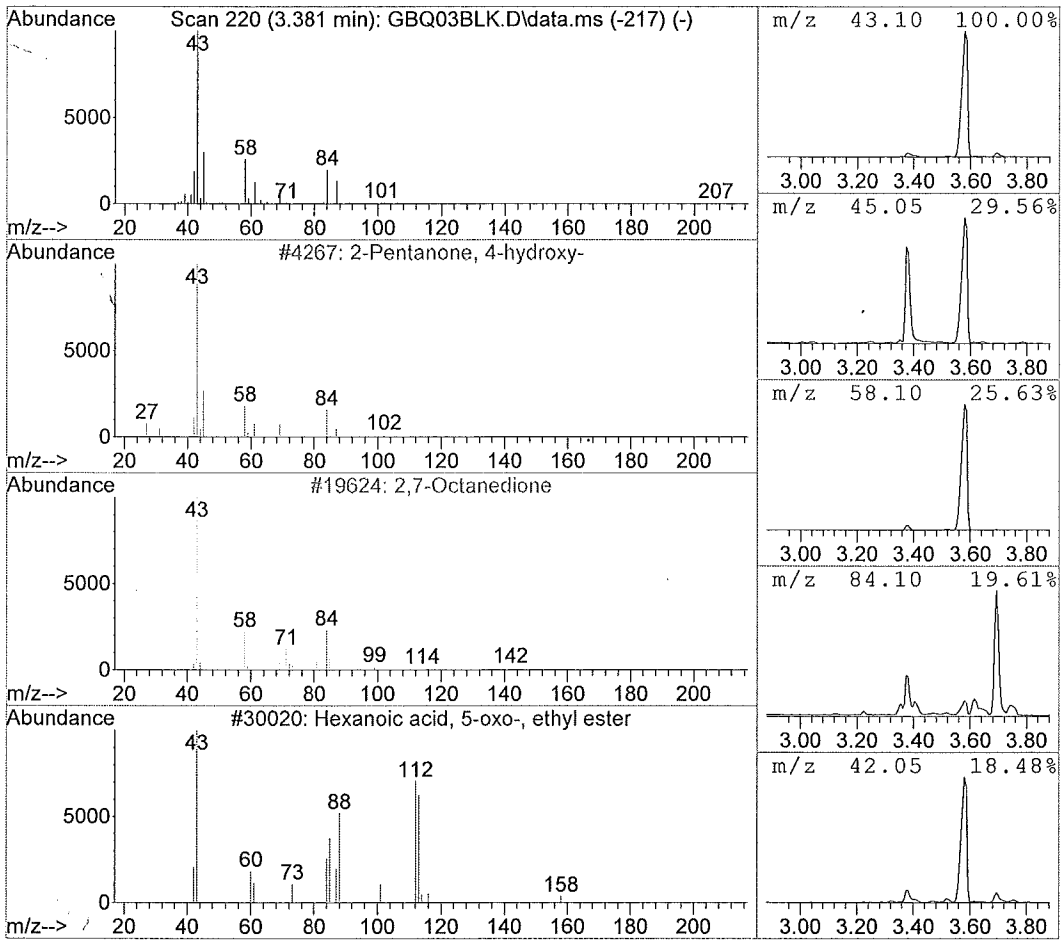
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	2.62 ug/ml	226030	1,4-Dichlorobenzene-d4	1723031

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	64.00
2	2,7-Octanedione	19624	001626-09-1	28.00
3	Hexanoic acid, 5-oxo-, ethyl ester	30020	013984-57-1	25.00
4	Isopropyl acetate	4254	000108-21-4	12.00
5	Acetone	217	000067-64-1	9.00



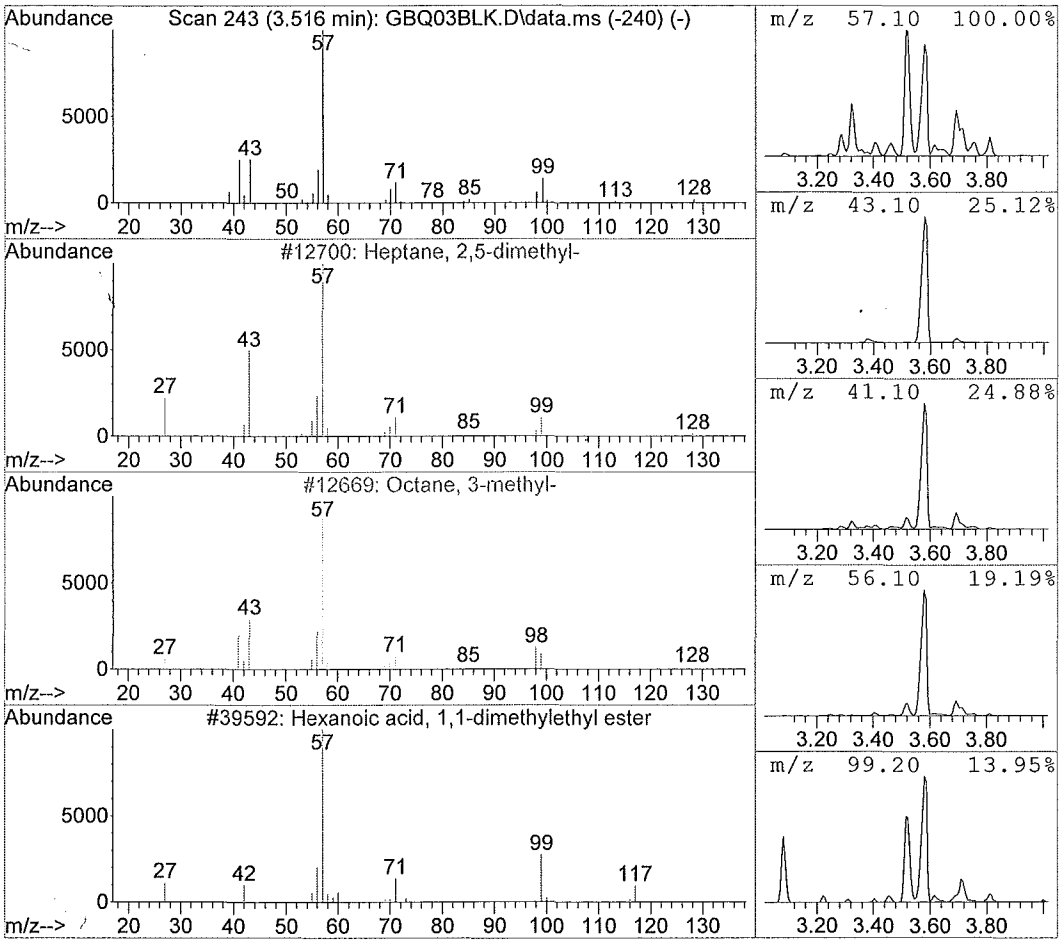
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	3.06 ug/ml	263917	1,4-Dichlorobenzene-d4	1723031

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,5-dimethyl- βA	12700	002216-30-0	91.00
2	Octane, 3-methyl-	12669	002216-33-3	90.00
3	Hexanoic acid, 1,1-dimethylethyl es	39592	002492-18-4	56.00
4	2,2,4,4-Tetramethyloctane	38352	062183-79-3	56.00
5	Nonane, 2,5-dimethyl-	28440	017302-27-1	56.00



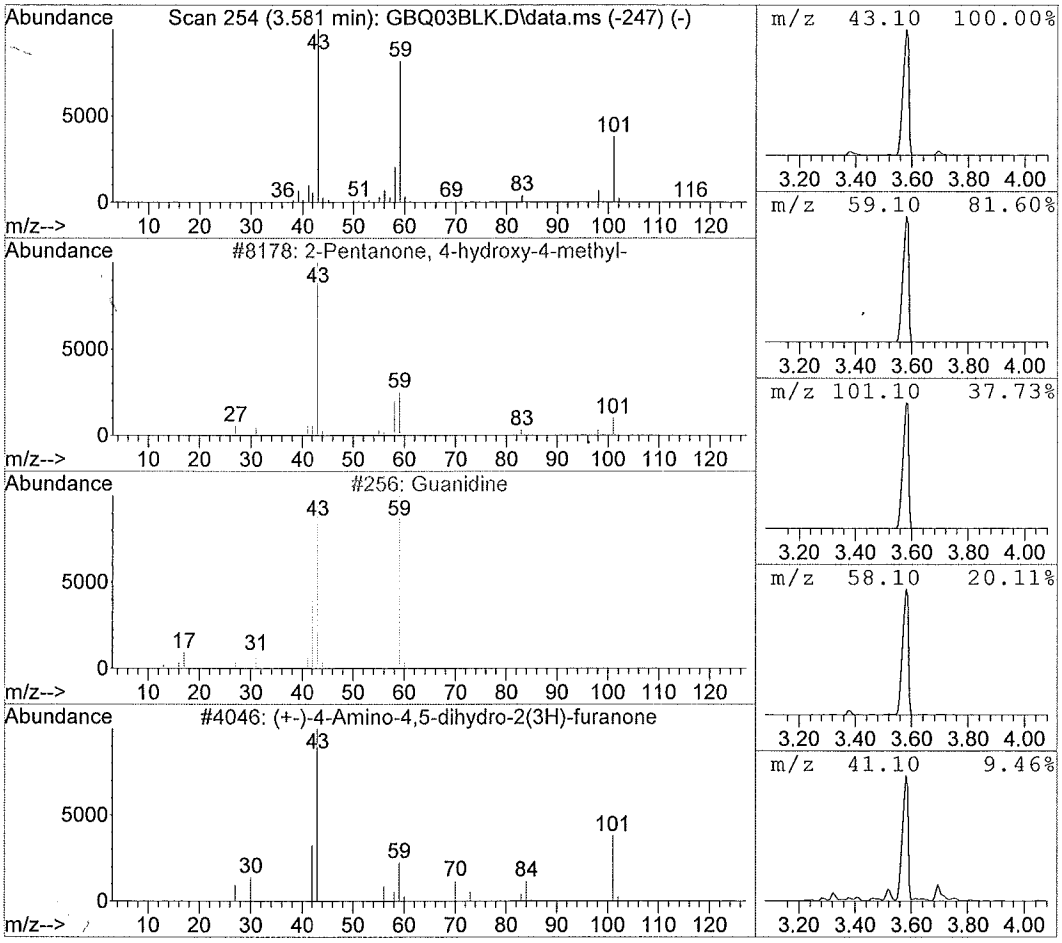
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.58	123.28 ug/ml	10620435	1,4-Dichlorobenzene-d4	1723031

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	5-Hexen-2-one	3152	000109-49-9	9.00



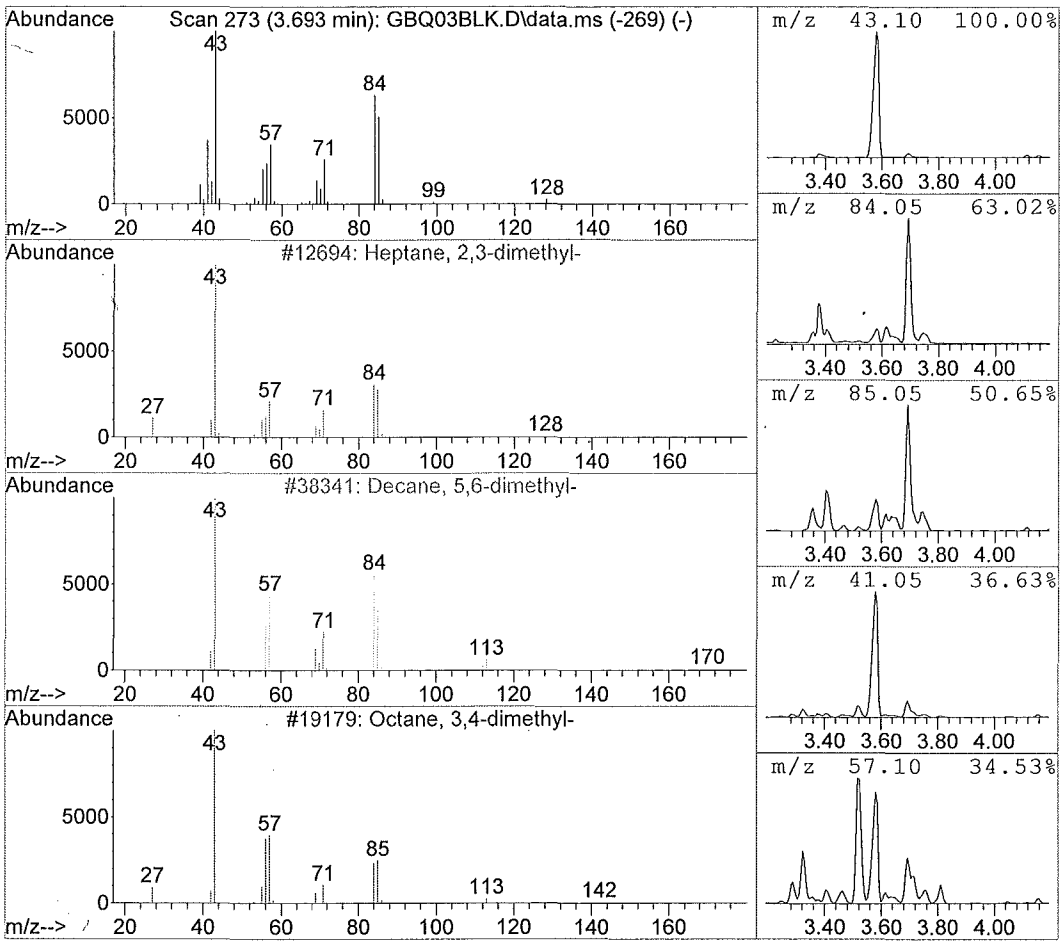
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	5.93 ug/ml	510691	1,4-Dichlorobenzene-d4	1723031

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	83.00
2	Decane, 5,6-dimethyl- BA	38341	001636-43-7	72.00
3	Octane, 3,4-dimethyl-	19179	015869-92-8	53.00
4	Hexane, 2,3,5-trimethyl-	12717	001069-53-0	52.00
5	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	50.00



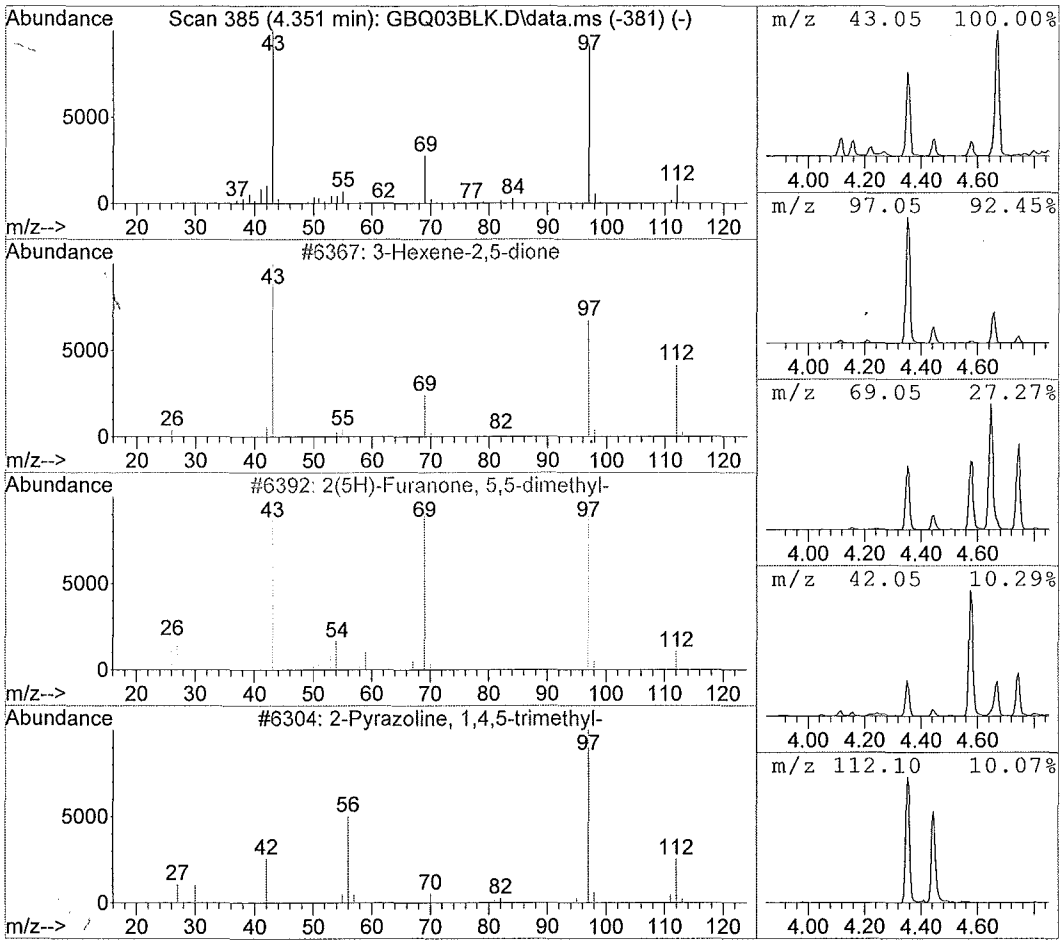
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	7.43 ug/ml	640028	1,4-Dichlorobenzene-d4	1723031

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	64.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	50.00
3	2-Pyrazoline, 1,4,5-trimethyl-	6304	007423-11-2	10.00
4	1H-Pyrazole, 4,5-dihydro-3,4,5-trim	6320	022591-95-3	9.00
5	3-Hexen-2-one, 5-methyl-	6518	005166-53-0	9.00



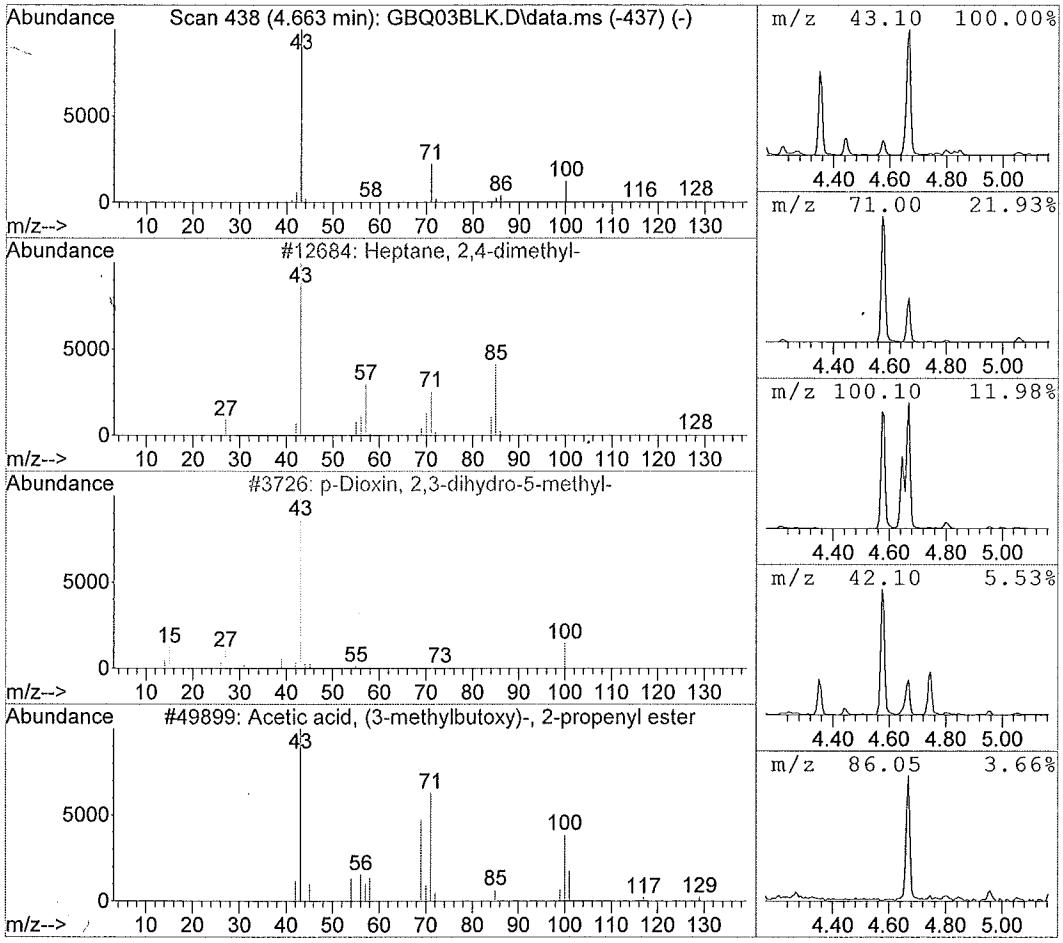
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.66	5.93 ug/ml	510783	1,4-Dichlorobenzene-d4	1723031

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12684	002213-23-2	45.00
2	p-Dioxin, 2,3-dihydro-5-methyl- BA	3726	003973-22-6	9.00
3	Acetic acid, (3-methylbutoxy)-, 2-p	49899	067634-00-8	9.00
4	3-Hexanone	3776	000589-38-8	7.00
5	Cyanic acid, ethyl ester	600	000627-48-5	7.00



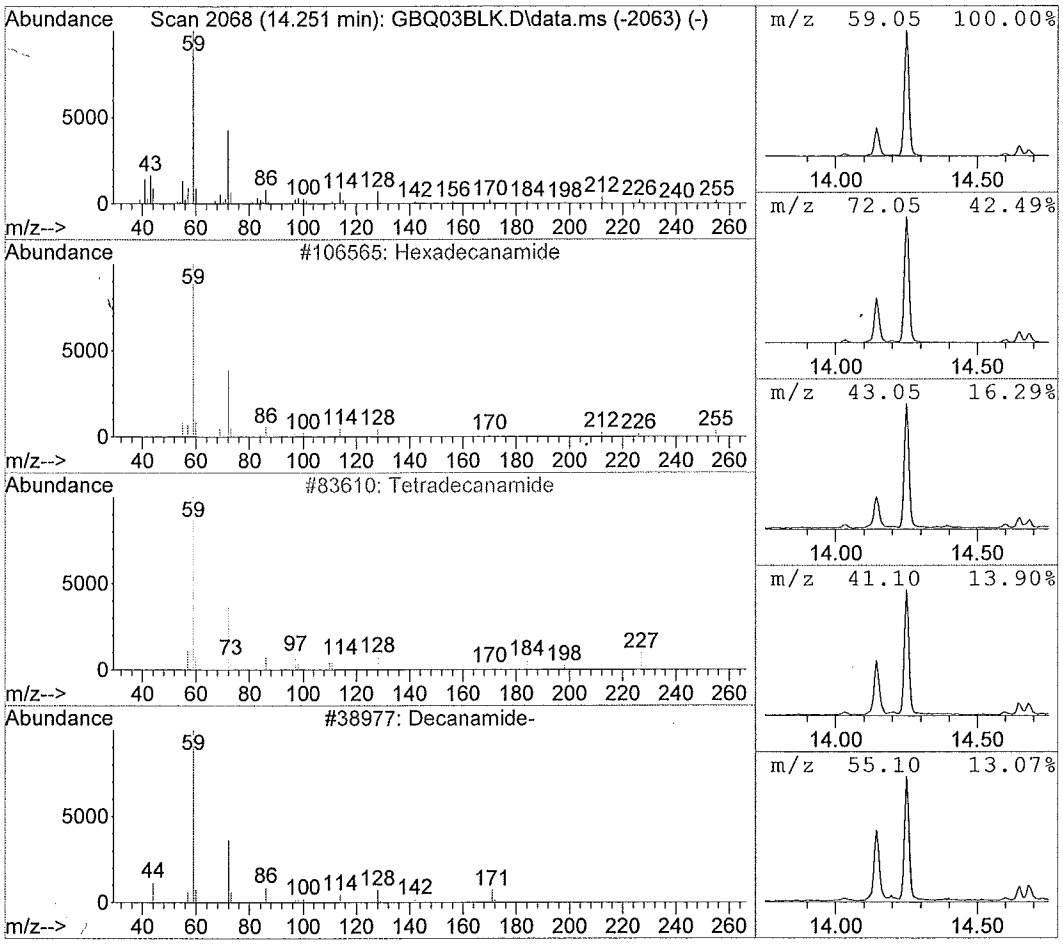
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.25	4.52 ug/ml	687584	Chrysene-d12	3043940

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	95.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	83.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	Dodecanamide	60439	001120-16-7	59.00



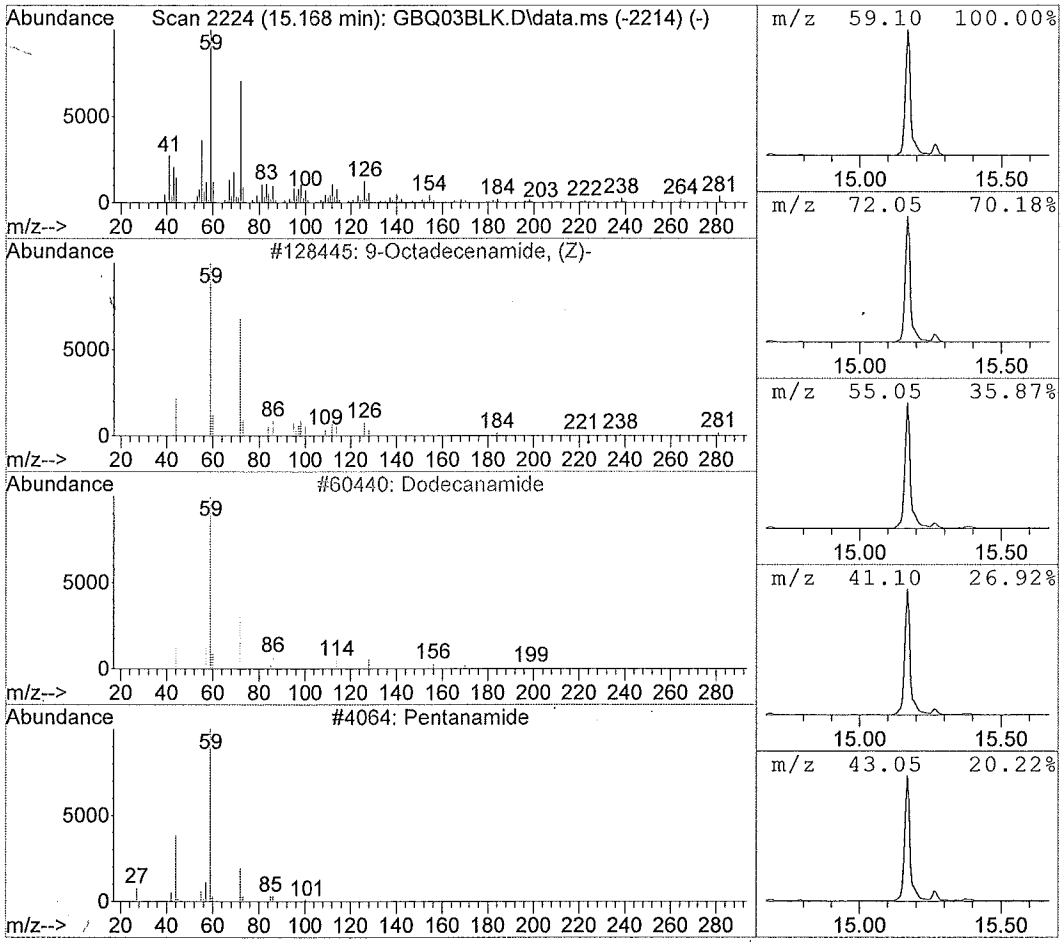
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	35.18 ug/ml	5354429	Chrysene-d12	3043940

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Dodecanamide	60440	001120-16-7	53.00
3	Pentanamide	4064	000626-97-1	53.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
5	Nonanamide	29478	001120-07-6	50.00



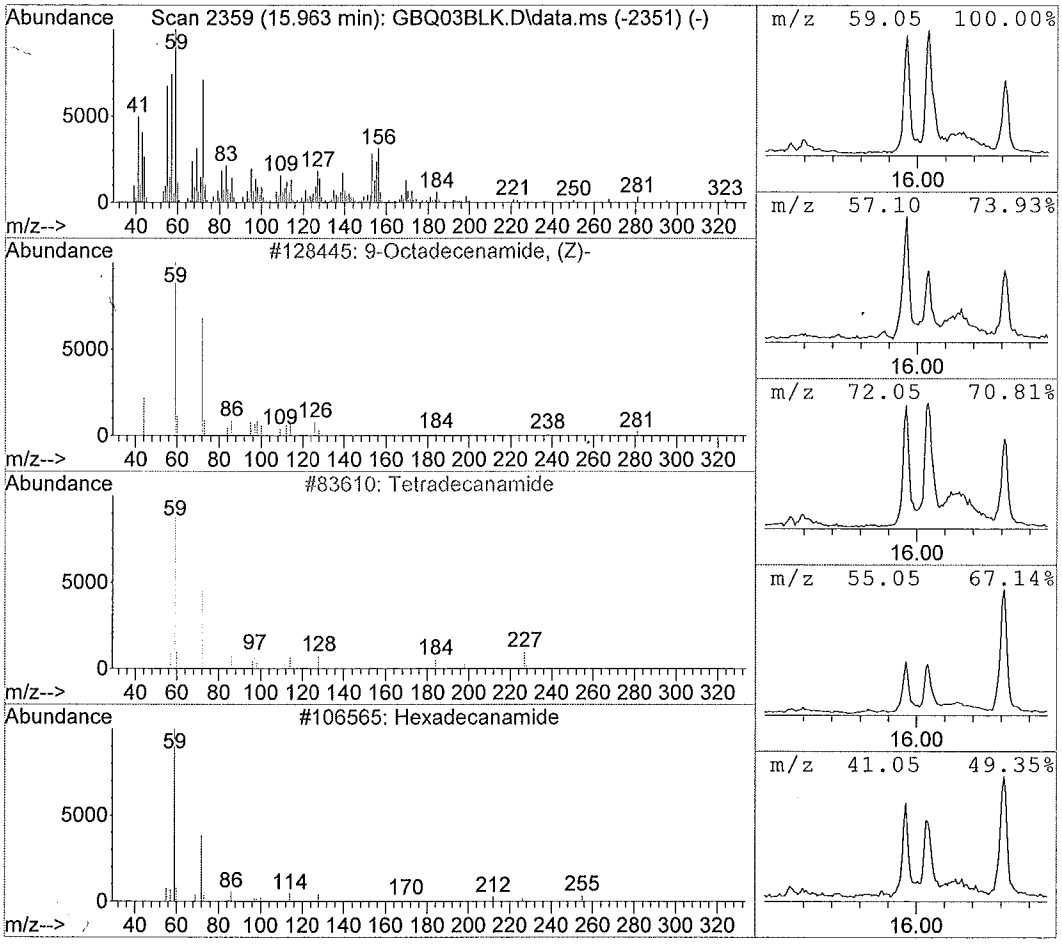
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.14 ug/ml	325449	Chrysene-d12	3043940

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	95.00
2	Tetradecanamide	83610	000638-58-4	49.00
3	Hexadecanamide	106565	000629-54-9	43.00
4	3-Cyclohexylpropionamide	28138	004361-29-9	38.00
5	Octadecanamide	130205	000124-26-5	35.00



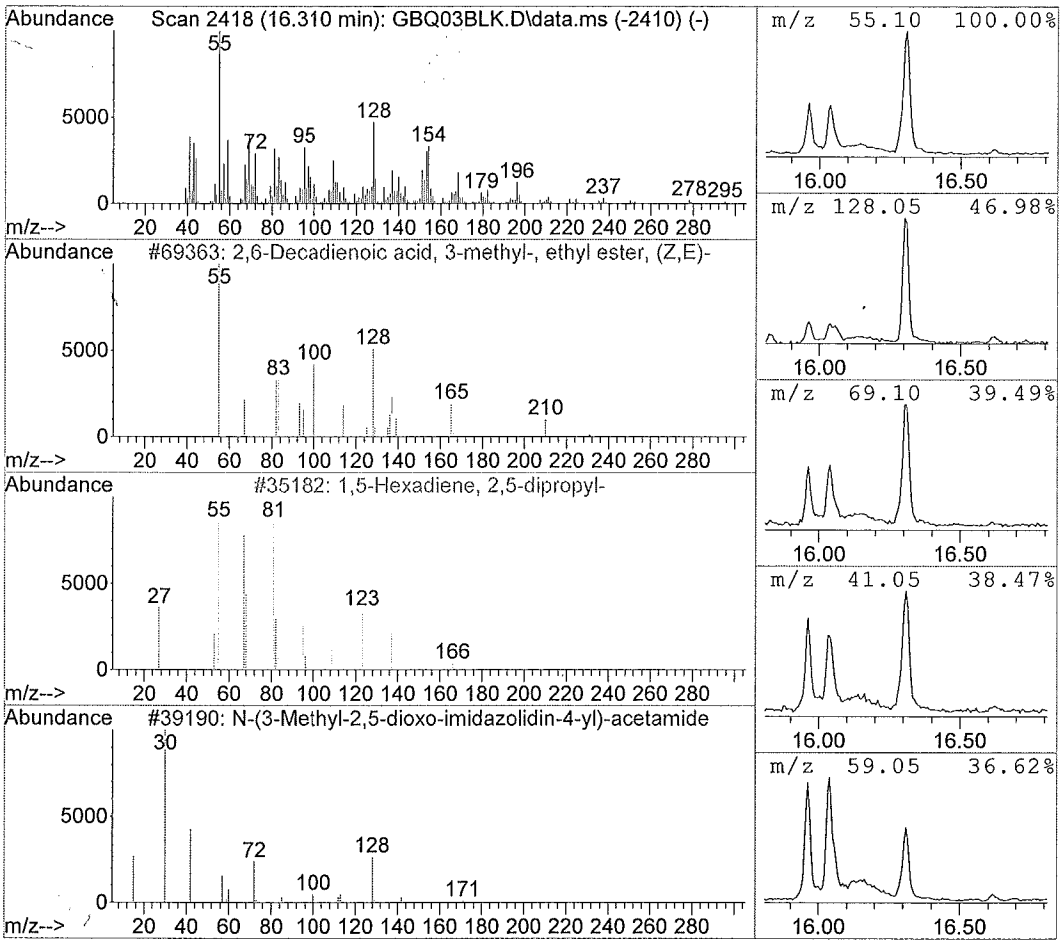
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ03BLK.D Vial: 2
Acq On : 06/16/2015 19:08 Operator: SY
Sample : 450511 SBLK11 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	4.04 ug/ml	614906	Chrysene-d12	3043940

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Decadienoic acid, 3-methyl-, et	69363	055283-34-6	12.00
2	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
3	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	11.00
4	5-Allyldihydro-1,3,5-dioxazine	12864	016574-19-9	10.00
5	E,E,Z-1,3,12-Nonadecatriene-5,14-di	139697	1000131-11-4	10.00

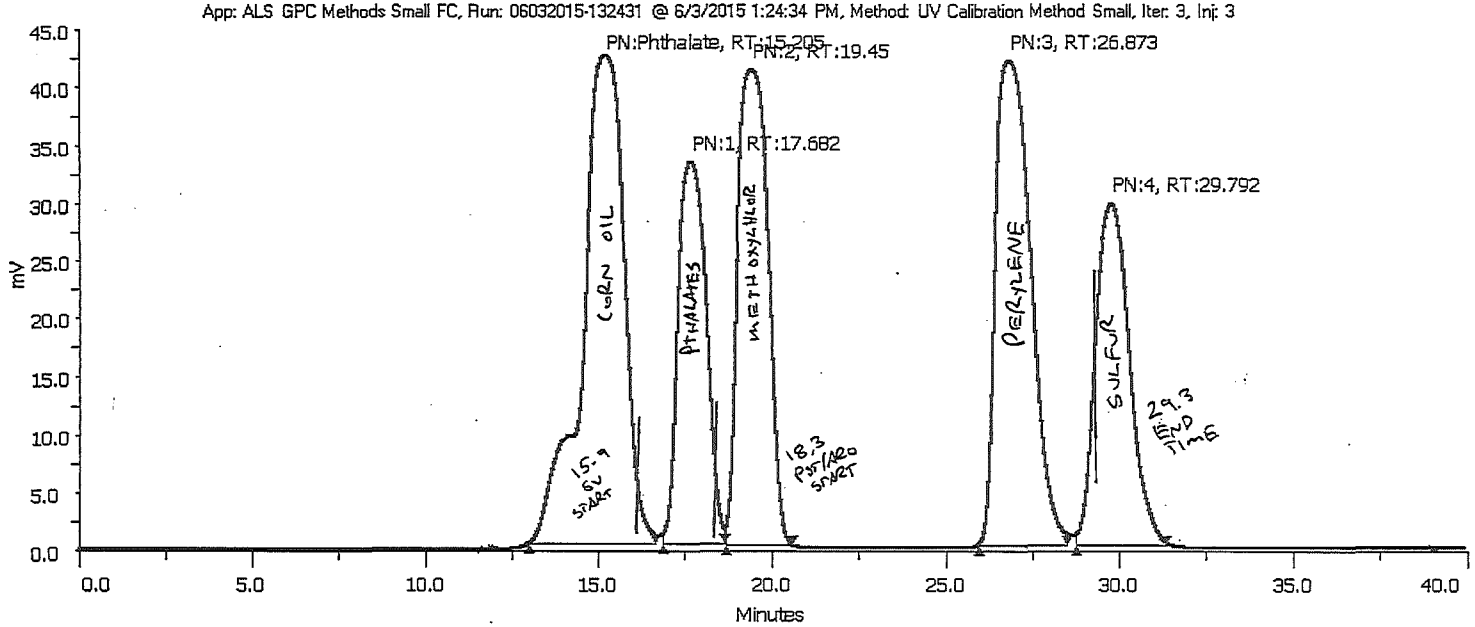


Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
6/3/15
Lyle Edwards
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 06032015-132431 @ 6/3/2015 1:24:34 PM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.986	15.205	5870776.6667	42.15	0	91.224
3	GPC Weekly	Sample Zone->1	1	16.852	17.682	3105954.5833	32.99	91.224	95.006
3	GPC Weekly	Sample Zone->1	2	18.67	19.45	4146383.75	40.92	95.006	332.264
3	GPC Weekly	Sample Zone->1	3	25.958	26.873	4912102.5	41.75	332.264	113.425
3	GPC Weekly	Sample Zone->1	4	28.773	29.792	3353368.75	29.54	113.425	0

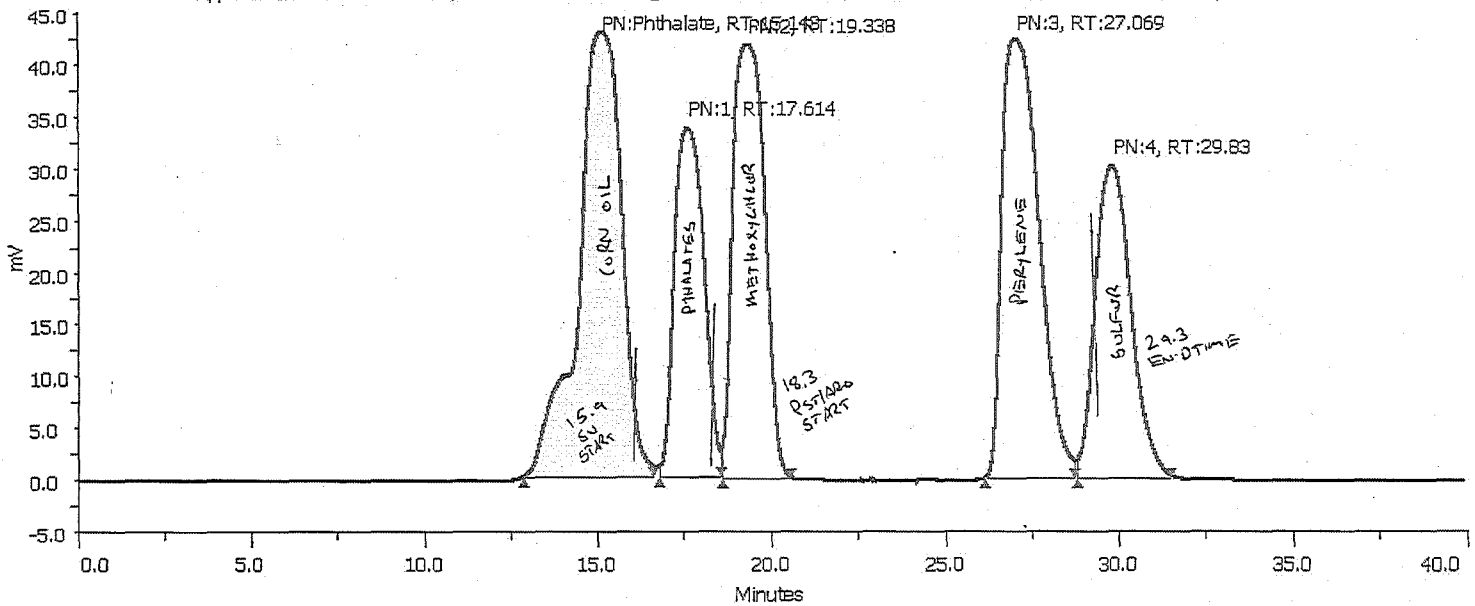
Run Variables

Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
5/25/15
Lyle Edmond
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 05252015-065221 @ 5/25/2015 6:52:26 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.888	15.143	6185062.9167	42.65	0	90.122
3	GPC Weekly	Sample Zone->1	1	16.776	17.614	3298919.1667	33.43	90.122	91.565
3	GPC Weekly	Sample Zone->1	2	18.578	19.338	4422131.25	41.52	91.565	342.046
3	GPC Weekly	Sample Zone->1	3	26.172	27.069	5238672.5	42.14	342.046	106.152
3	GPC Weekly	Sample Zone->1	4	28.819	29.83	3595322.9167	29.99	106.152	0

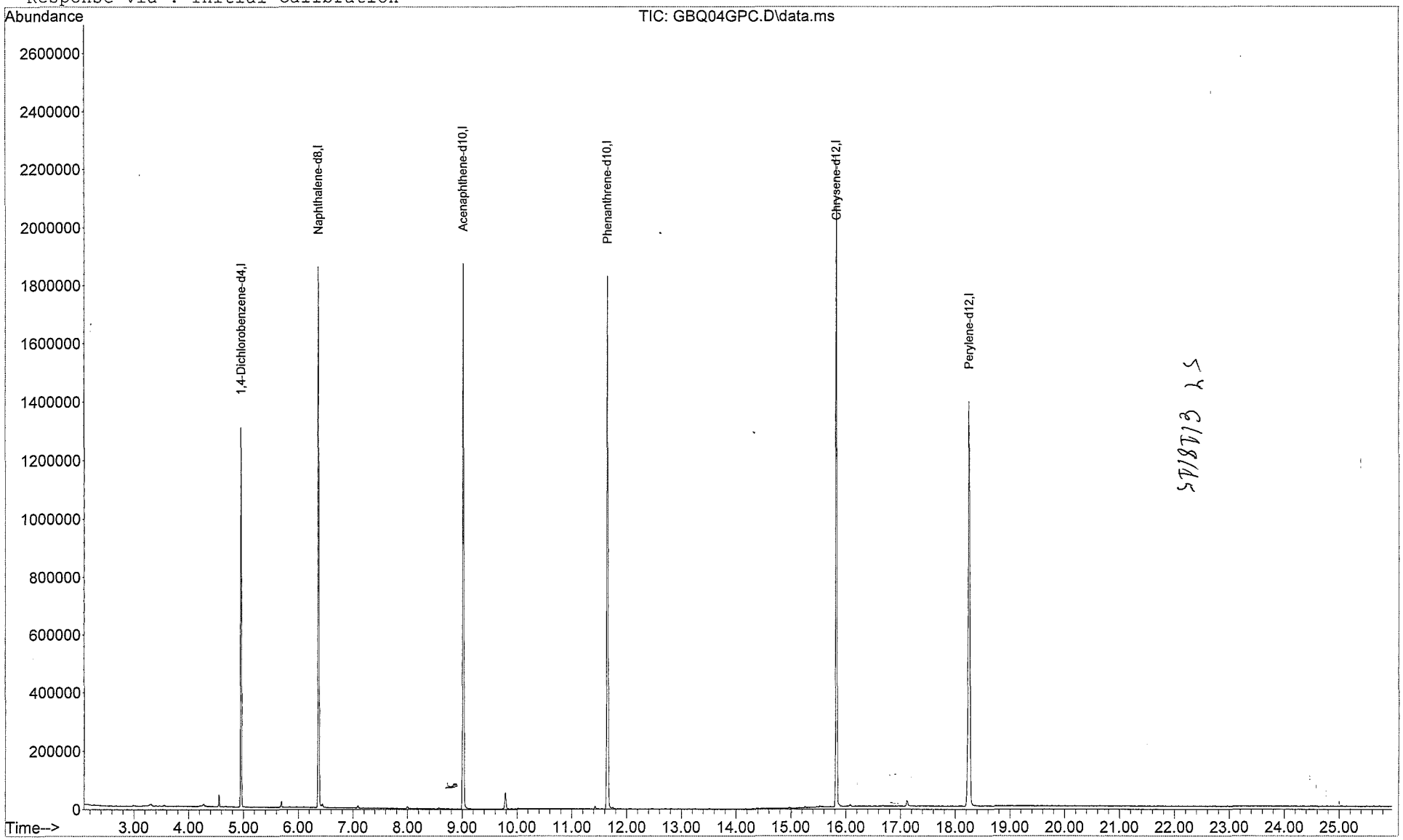
Run Variables

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ04GPC.D Vial: 3
Acq On : 06/16/2015 19:41 Operator: SY
Sample : 450982 GBLK82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 11:30:54 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



57 GLABLS

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ04GPC.D Vial: 3
Acq On : 06/16/2015 19:41 Operator: SY
Sample : 450982 GBLK82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:30:54 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	247841	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1106826	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	663420	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1066998	20.00 ug/ml
73) Chrysene-d12	15.83	240	1027784	20.00 ug/ml
81) Perylene-d12	18.25	264	1010105	20.00 ug/ml

System Monitoring Compounds				
2) Phenol-d5	0.00	99	0	0.000ug/ml
6) bis-(2-chloroethyl)ether-d	0.00	67	0	0.000ug/mL
7) 2-Chlorophenol-d4	0.00	132	0	0.000ug/ml
13) 4-Methylphenol-d8	0.00	113	0	0.000ug/mL
17) Nitrobenzene-d5	0.00	128	0	0.000ug/ml
21) 2-Nitrophenol-d4	5.84	143	767	0.074ug/mL
25) 2,4-Dichlorophenol-d3	0.00	165	0	0.000ug/mL
28) 4-Chloroaniline-d4	0.00	131	0	0.000ug/mL
42) Dimethylphthalate-d6	0.00	166	0	0.000ug/mL
45) Acenaphthylene-d8	0.00	160	0	0.000ug/mL
50) 4-Nitrophenol-d4	0.00	143	0	0.000ug/mL
57) Fluorene-d10	9.92	176	213	0.006ug/mL
61) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.000ug/mL
69) Anthracene-d10	0.00	188	0	0.000ug/mL
75) Pyrene-d10	0.00	212	0	0.000ug/mL
86) Benzo(a)pyrene-d12	0.00	264	0	0.000ug/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)

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\16JUN15\GBQ04GPC.D Vial: 3
Acq On : 06/16/2015 19:41 Operator: SY
Sample : 450982 GBLK82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 11:30:54 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

2M - FORM II SV-SIM2

SOIL SEMIVOLATILE SIM DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	F9M36	70	70	0
02	F9M42	76	66	0
03	F9M43	74	75	0
04	F9M44	79	79	0
05	F9M45	65	65	0
06	SBLK00	82	77	0
07	SBLK11	75	76	0
08				
09				
10				
11				
12				
13				
14				
15				
16				
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18				
19				
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21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

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.

SBLK11

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: DEG04BLK Lab Sample ID: 450511

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

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

Time Analyzed: 13:08 Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9M36	1515552001	DEG06F01	06/18/2015
02	F9M43	1515552005	DEG08F05	06/18/2015
03	F9M44	1515552006	DEG09F06	06/18/2015
04	F9M45	1515552007	DEG10F07	06/18/2015
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
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23				
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25				
26				
27				
28				
29				
30				

COMMENTS:

4D - FORM IV SV-SIM
SEMIVOLATILE SIM METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: DEJ06MB Lab Sample ID: 452600

Instrument ID: 5975-D Date Extracted: 06/19/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/20/2015

Time Analyzed: 12:17 Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9M42	1515552004	DEJ08F04	06/20/2015
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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26				
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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.: F9M36

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.: F9M36

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	SBLK11	450511	DEG04BLK	06/18/2015	13:08
03	F9M36	1515552001	DEG06F01	06/18/2015	14:09
04	F9M43	1515552005	DEG08F05	06/18/2015	15:10
05	F9M44	1515552006	DEG09F06	06/18/2015	15:40
06	F9M45	1515552007	DEG10F07	06/18/2015	16:11
07	SSTD0.4G2	SSTD0.4G2	DEG15SP4	06/18/2015	18:44
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.

SSTD0.4DJ

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab File ID: DEJ03SP4 DFTPP Injection Date: 06/20/2015

Instrument ID: 5975-D DFTPP Injection Time: 10:32

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	SSTD0.4DJ	SSTD0.4DJ	DEJ03SP4	06/20/2015	10:32
02	SBLK00	452600	DEJ06MB	06/20/2015	12:17
03	F9M42	1515552004	DEJ08F04	06/20/2015	13:18
04	SSTD0.4J2	SSTD0.4J2	DEJ23SP4	06/20/2015	20:51
05					
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.: F9M36

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	SBLK11			214371	6.07	150379	8.73
02	F9M36			256769	6.07	181878	8.73
03	F9M43			246557	6.07	176040	8.73
04	F9M44			206566	6.07	147108	8.73
05	F9M45			208929	6.07	145575	8.73
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.: F9M36

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	SBLK11	252427	11.37	264416	15.52	272022	18.02
02	F9M36	307034	11.36	308674	15.52	304417	18.02
03	F9M43	292670	11.36	326726	15.52	332453	18.02
04	F9M44	241688	11.36	257655	15.52	268777	18.02
05	F9M45	246637	11.36	252785	15.52	260307	18.02
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.

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.: F9M36

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DJ Date Analyzed: 06/20/2015

Lab File ID (Standard): DEJ03SP4 Time Analyzed: 10:32

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			199811	5.91	124840	8.55
	UPPER LIMIT			399622	6.41	249680	9.05
	LOWER LIMIT			99906	5.41	62420	8.05
	EPA SAMPLE NO.						
01	SBLK00			188476	5.91	134978	8.55
02	F9M42			186561	5.91	132884	8.55
03							
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.: F9M36

EPA Sample No.(SSTD0.4##): SSTD0.4DJ Date Analyzed: 06/20/2015

Lab File ID (Standard): DEJ03SP4 Time Analyzed: 10:32

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	214579	11.17	232946	15.35	219273	17.71
	UPPER LIMIT	429158	11.67	465892	15.85	438546	18.21
	LOWER LIMIT	107290	10.67	116473	14.85	109637	17.21
	EPA SAMPLE NO.						
01	SBLK00	220185	11.17	216033	15.35	248407	17.72
02	F9M42	220931	11.17	229160	15.36	237541	17.72
03							
04							
05							
06							
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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.

F9M36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DEG06F01

Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

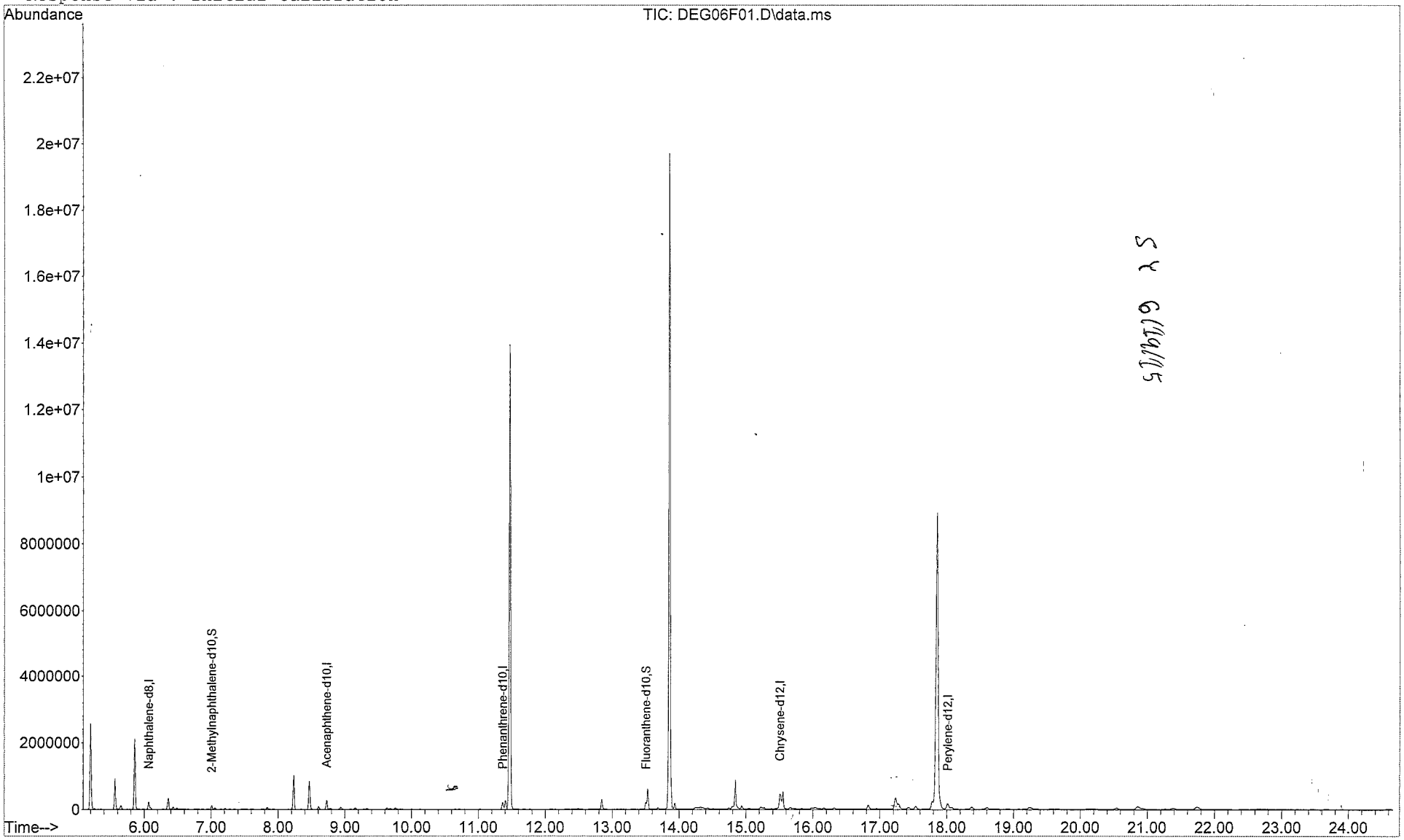
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	2.6	J
91-57-6	2-Methylnaphthalene	2.5	J
208-96-8	Acenaphthylene	2.5	J
83-32-9	Acenaphthene	1.7	J
86-73-7	Fluorene	1.3	J
87-86-5	Pentachlorophenol	4.8	J
85-01-8	Phenanthrene	13.	
120-12-7	Anthracene	3.6	J
206-44-0	Fluoranthene	20.	
129-00-0	Pyrene	20.	
56-55-3	Benzo(a)anthracene	14.	
218-01-9	Chrysene	19.	
205-99-2	Benzo(b)fluoranthene	21.	
207-08-9	Benzo(k)fluoranthene	6.2	
50-32-8	Benzo(a)pyrene	11.	
193-39-5	Indeno(1,2,3-cd)pyrene	12.	
53-70-3	Dibenzo(a,h)anthracene	2.9	J
191-24-2	Benzo(g,h,i)perylene	9.0	

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG06F01.D Vial: 5
Acq On : 06/18/2015 14:09 Operator: DJC
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 19 07:27:38 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



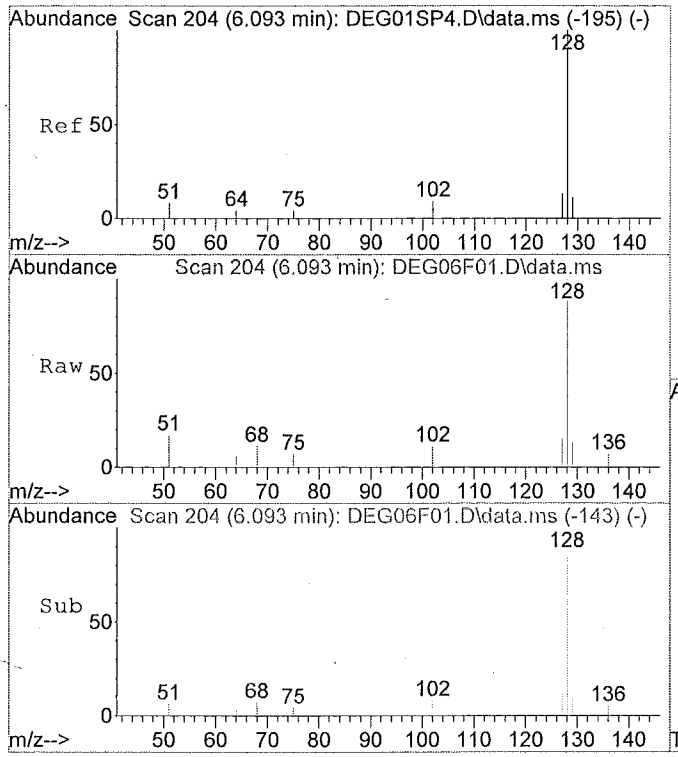
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG06F01.D Vial: 5
Acq On : 06/18/2015 14:09 Operator: DJC
Sample : 1515552001 F9M36 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 07:27:38 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	256769	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	181878	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	307034	0.40 ug/ml	
15) Chrysene-d12	15.52	240	308674	0.40 ug/ml	
19) Perylene-d12	18.02	264	304417	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	116357	0.281ug/mL	
13) Fluoranthene-d10	13.50	212	236241	0.281ug/mL	m SC 6/19/15
Target Compounds					Qvalue
2) Naphthalene	6.09	128	41223	0.062ug/ml	96
4) 2-Methylnaphthalene	7.05	142	25560	0.059ug/ml	99
6) Acenaphthylene	8.49	152	47262	0.059ug/ml	88
7) Acenaphthene	8.78	153	20271	0.040ug/ml	98
8) Fluorene	9.68	166	18532	0.031ug/ml	100
10) Pentachlorophenol	11.02	266	5274	0.114ug/ml	100
11) Phenanthrene	11.41	178	278100	0.315ug/ml	99
12) Anthracene	11.50	178	74370	0.087ug/ml	94
14) Fluoranthene	13.53	202	480776	0.478ug/ml	SC 89
16) Pyrene	13.88	202	473510	0.489ug/ml	m 6/19/15 89
17) Benzo(a)anthracene	15.50	228	269910	0.328ug/ml	91
18) Chrysene	15.55	228	404238	0.465ug/ml	97
20) Benzo(b)fluoranthene	17.23	252	464952	0.490ug/ml	99
21) Benzo(k)fluoranthene	17.28	252	145929	0.148ug/ml	SC m 98
22) Benzo(a)pyrene	17.90	252	247366	0.273ug/ml	6/19/15 95
23) Indeno(1,2,3-c,d)pyrene	20.86	276	229399	0.289ug/ml	100
24) Dibenzo(a,h)anthracene	20.93	278	61404	0.070ug/ml	90
25) Benzo(g,h,i)perylene	21.74	276	192284	0.215ug/ml	72

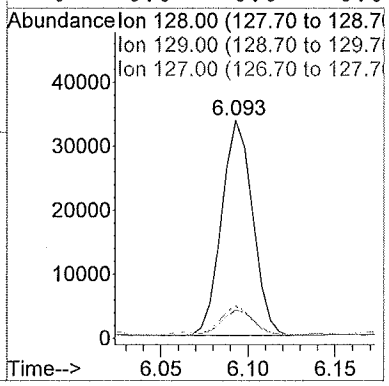
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

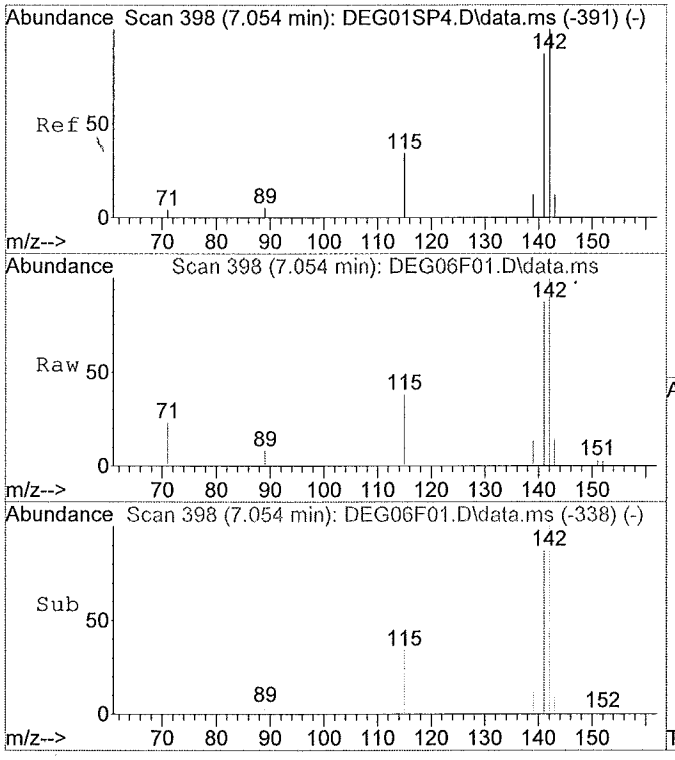


#2
Naphthalene
Concen: 0.06 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:128 Resp: 41223

Ion	Ratio	Lower	Upper
128	100		
129	12.2	0.0	0.0#
127	14.0	11.1	20.5
0	0.0	0.0	0.0

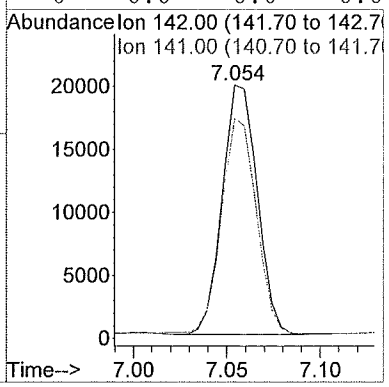


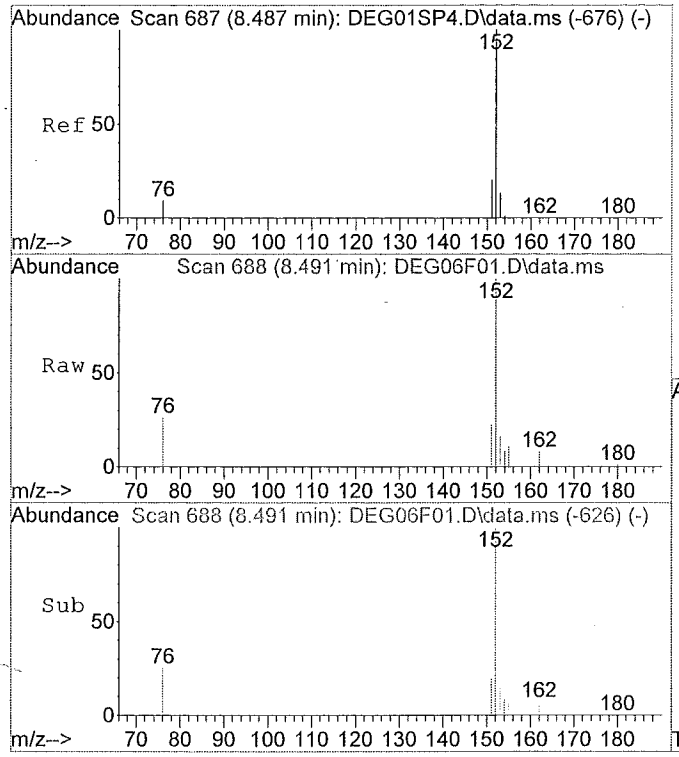


#4
2-Methylnaphthalene
Concen: 0.06 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:142 Resp: 25560

Ion	Ratio	Lower	Upper
142	100		
141	85.9	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

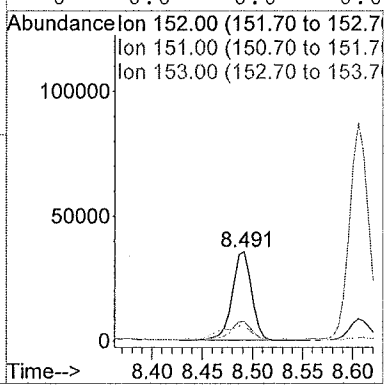


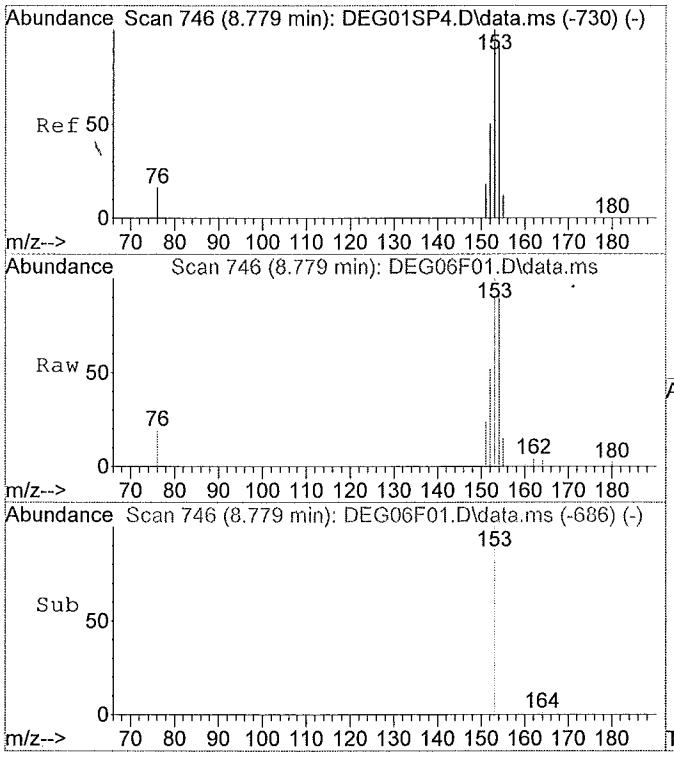


#6
Acenaphthylene
Concen: 0.06 ug/ml
RT: 8.49 min Scan# 688
Delta R.T. 0.01 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:152 Resp: 47262

Ion	Ratio	Lower	Upper
152	100		
151	21.7	15.5	28.7
153	25.4	8.8	16.4#
0	0.0	0.0	0.0

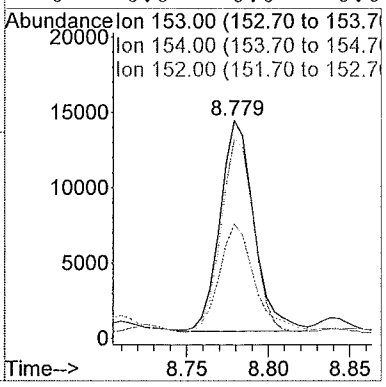


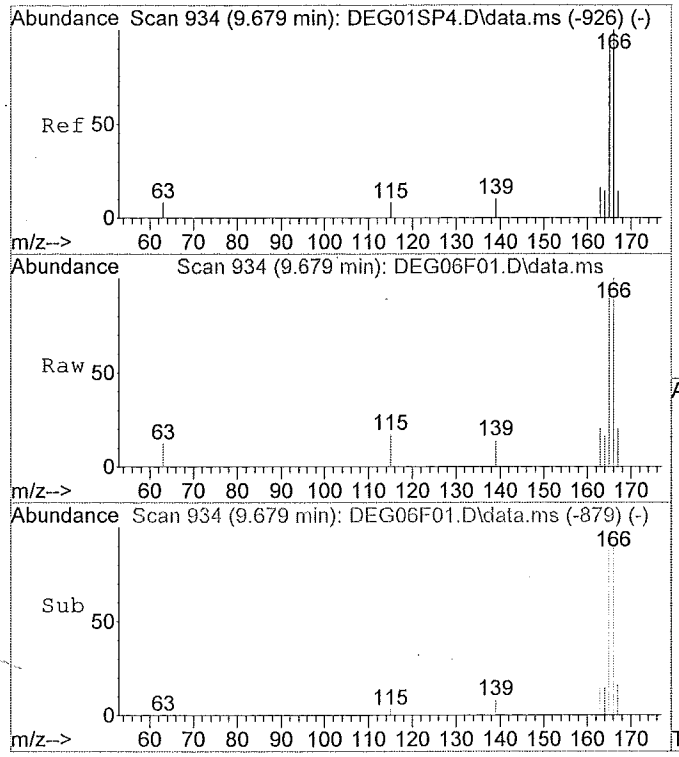


#7
Acenaphthene
Concen: 0.04 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:153 Resp: 20271

Ion	Ratio	Lower	Upper
153	100		
154	90.1	65.1	120.9
152	50.0	35.2	65.4
0	0.0	0.0	0.0

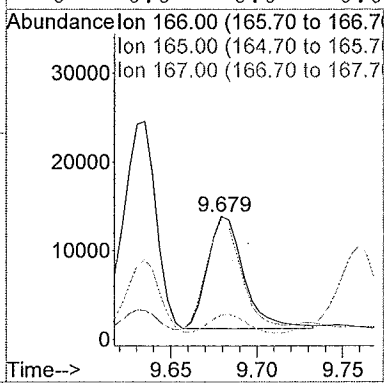


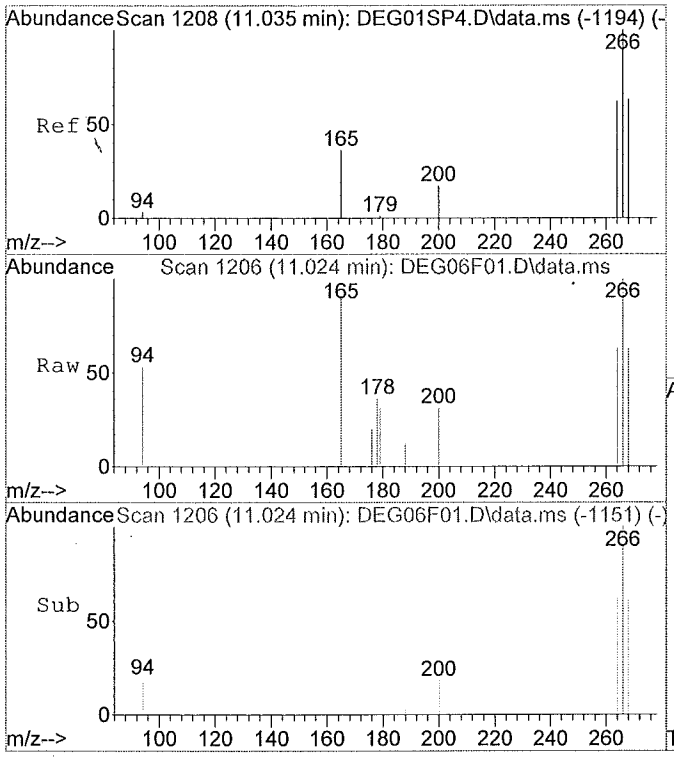


#8
Fluorene
Concen: 0.03 ug/ml
RT: 9.68 min Scan# 934
Delta R.T. 0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:166 Resp: 18532

Ion	Ratio	Lower	Upper
166	100		
165	95.1	66.3	123.1
167	16.6	0.0	0.0#
0	0.0	0.0	0.0

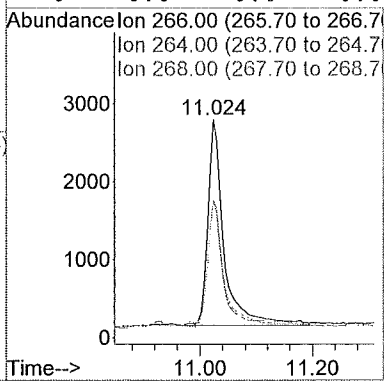


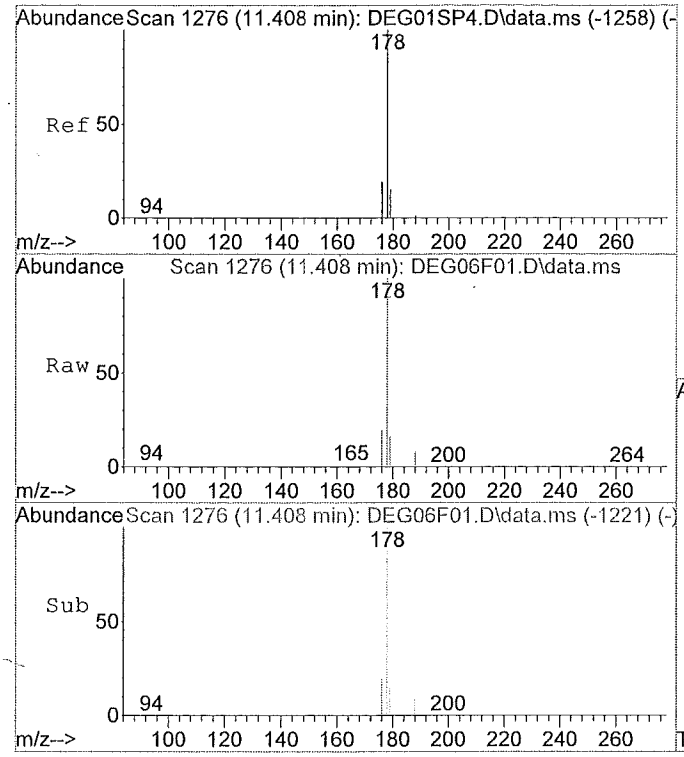


#10
Pentachlorophenol
Concen: 0.11 ug/ml
RT: 11.02 min Scan# 1206
Delta R.T. 0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:266 Resp: 5274

Ion	Ratio	Lower	Upper
266	100		
264	59.3	0.0	0.0#
268	59.9	0.0	0.0#
0	0.0	0.0	0.0

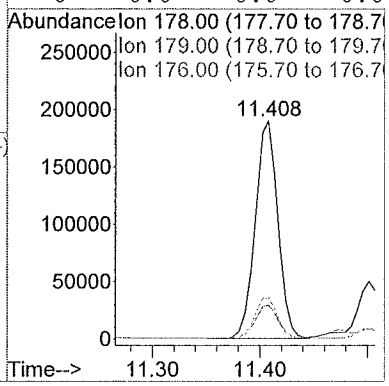


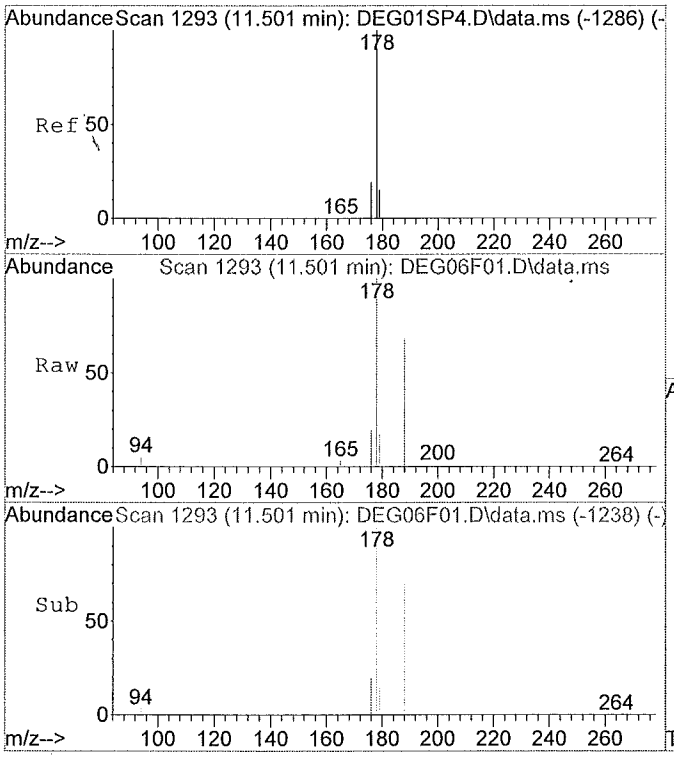


#11
Phenanthrene
Concen: 0.31 ug/ml
RT: 11.41 min Scan# 1276
Delta R.T. 0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:178 Resp: 278100

Ion	Ratio	Lower	Upper
178	100		
179	15.9	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0

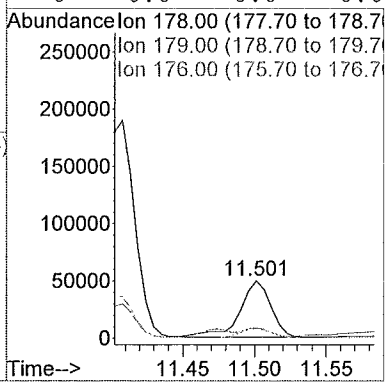


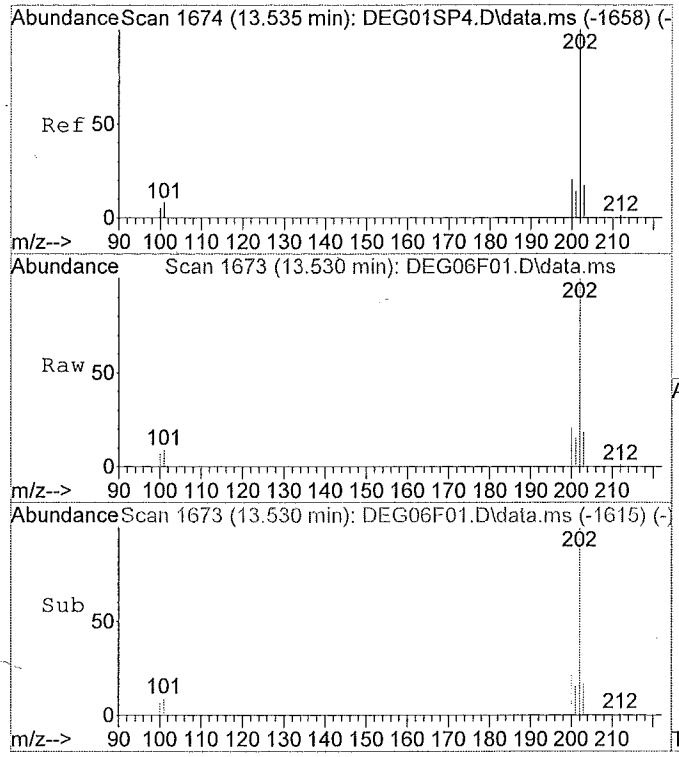


#12
Anthracene
Concen: 0.09 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. 0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:178 Resp: 74370

Ion	Ratio	Lower	Upper
178	100		
179	14.0	11.6	21.6
176	17.3	13.9	25.7
0	0.0	0.0	0.0

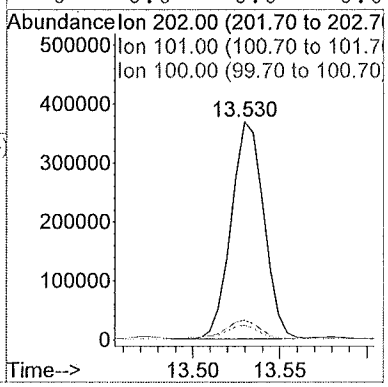


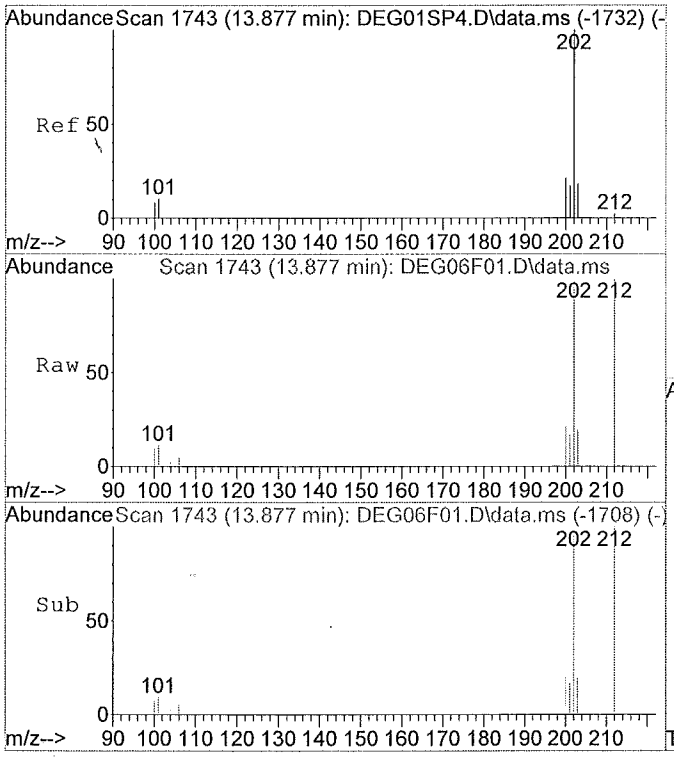


#14
Fluoranthene
Concen: 0.48 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:202 Resp: 480776

Ion	Ratio	Lower	Upper
202	100		
101	9.1	9.4	17.6#
100	7.3	0.0	0.0#
0	0.0	0.0	0.0

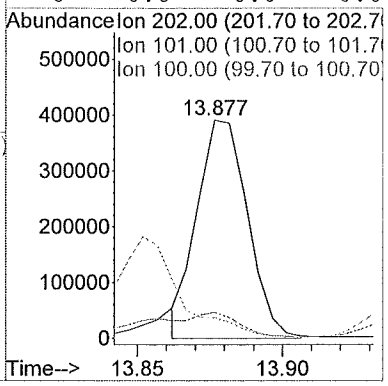


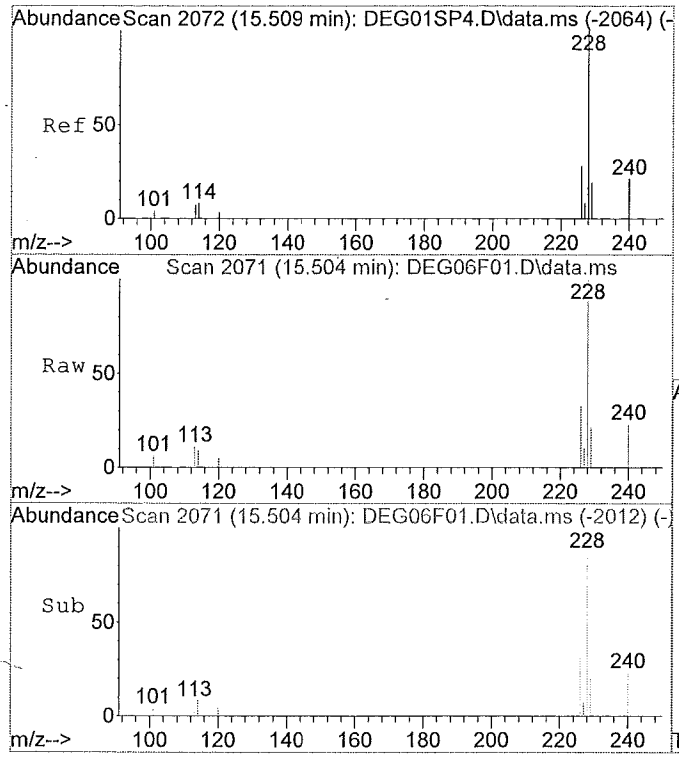


#16
Pyrene
Concen: 0.49 ug/ml m
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:202 Resp: 473510

Ion	Ratio	Lower	Upper
202	100		
101	20.5	10.6	19.6#
100	66.5	9.4	17.4#
0	0.0	0.0	0.0

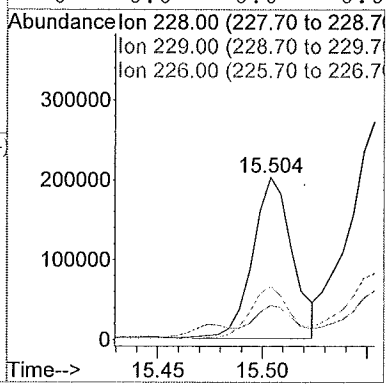


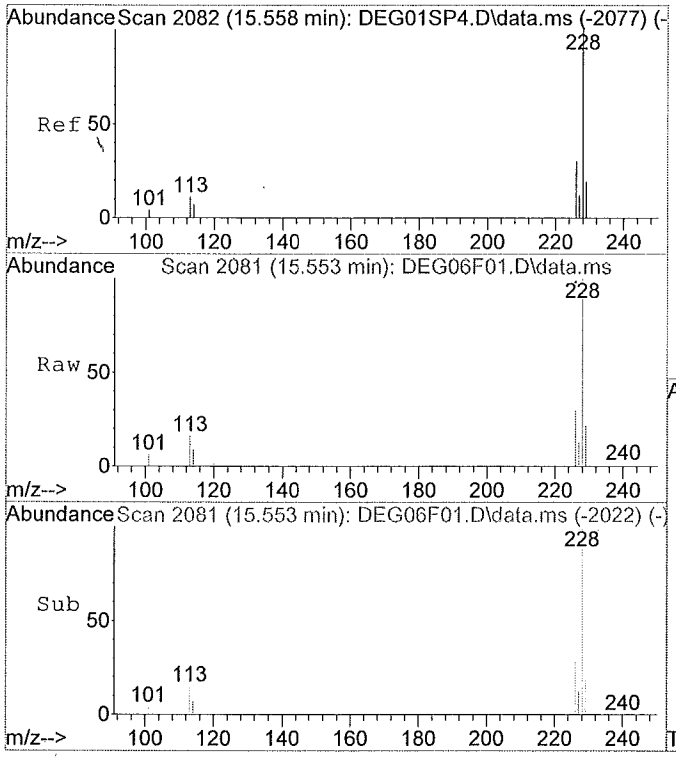


#17
Benzo(a)anthracene
Concen: 0.33 ug/ml
RT: 15.50 min Scan# 2071
Delta R.T. -0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:228 Resp: 269910

Ion	Ratio	Lower	Upper
228	100		
229	18.4	14.5	26.9
226	32.6	18.5	34.3
0	0.0	0.0	0.0

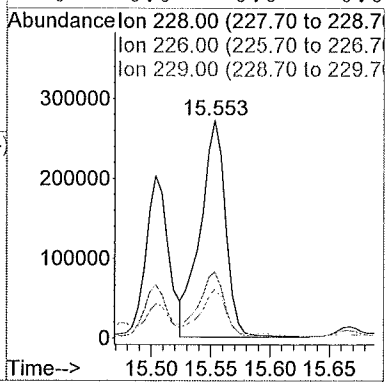


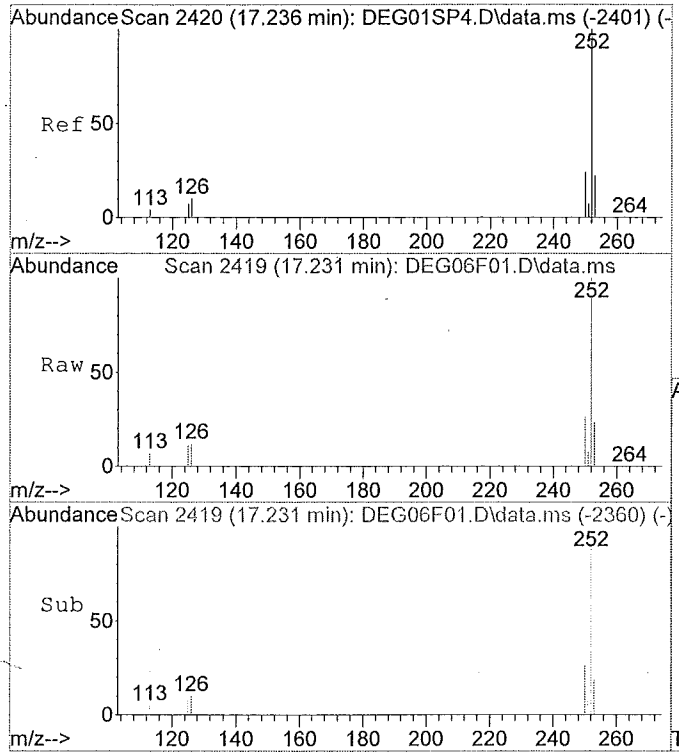


#18
Chrysene
Concen: 0.46 ug/ml
RT: 15.55 min Scan# 2081
Delta R.T. -0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:228 Resp: 404238

Ion	Ratio	Lower	Upper
228	100		
226	30.5	19.7	36.7
229	20.0	14.5	26.9
0	0.0	0.0	0.0

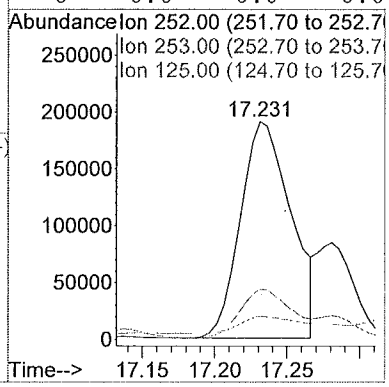


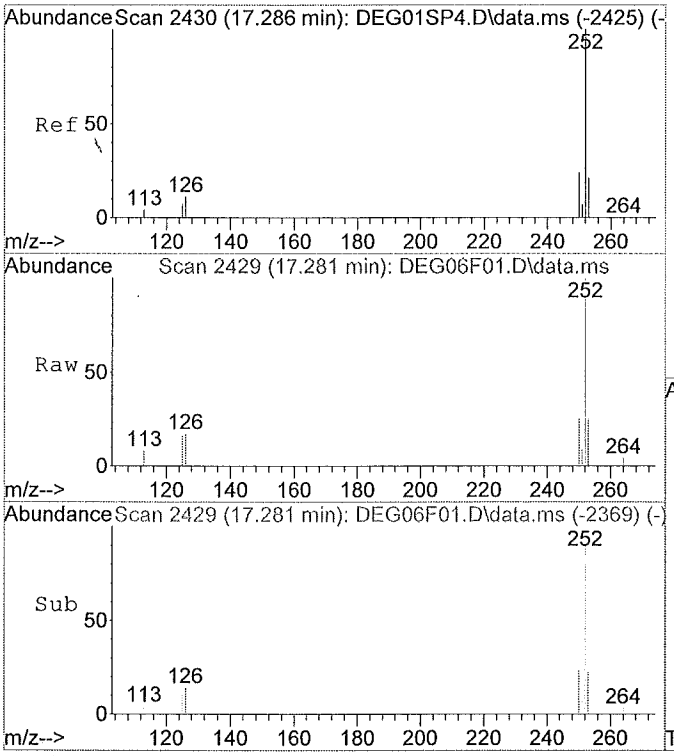


#20
Benzo(b)fluoranthene
Concen: 0.49 ug/ml
RT: 17.23 min Scan# 2419
Delta R.T. 0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:252 Resp: 464952

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.3	28.3
125	13.0	0.0	0.0#
0	0.0	0.0	0.0

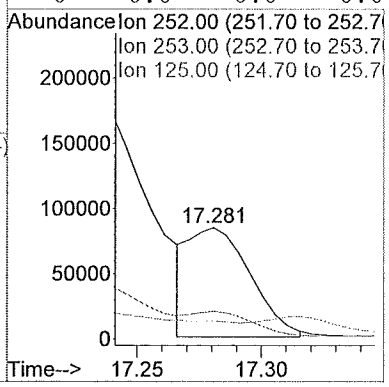


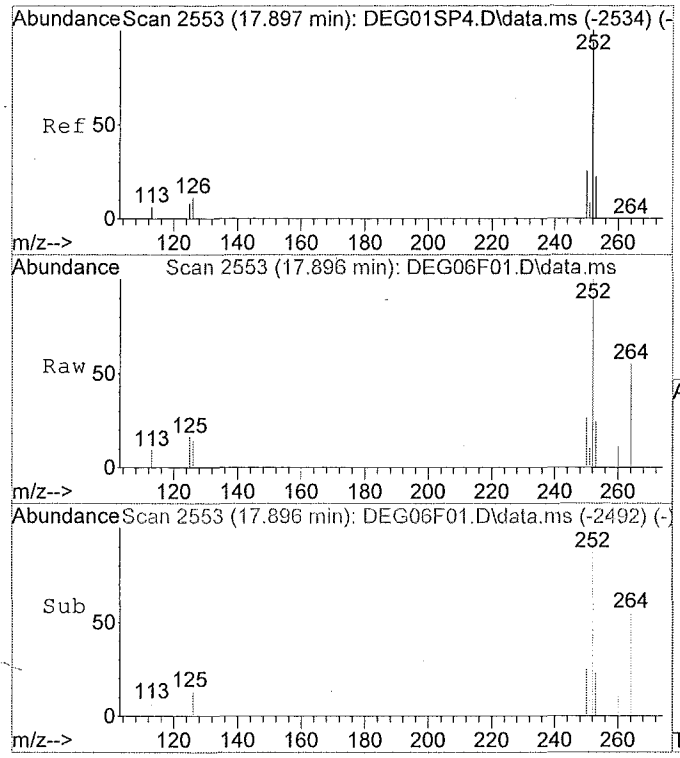


#21
Benzo(k)fluoranthene
Concen: 0.15 ug/ml m
RT: 17.28 min Scan# 2429
Delta R.T. 0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:252 Resp: 145929

Ion	Ratio	Lower	Upper
252	100		
253	70.9	15.0	27.8#
125	38.1	0.0	0.0#
0	0.0	0.0	0.0

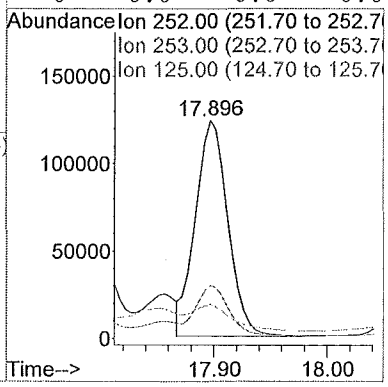


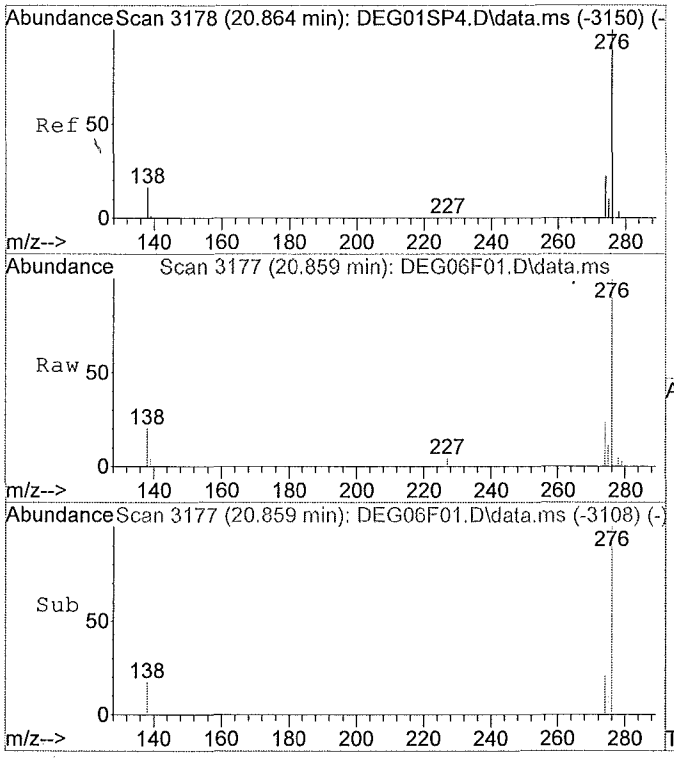


#22
Benzo(a)pyrene
Concen: 0.27 ug/ml
RT: 17.90 min Scan# 2553
Delta R.T. 0.01 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:252 Resp: 247366

Ion	Ratio	Lower	Upper
252	100		
253	23.6	15.0	27.8
125	16.5	0.0	0.0#
0	0.0	0.0	0.0

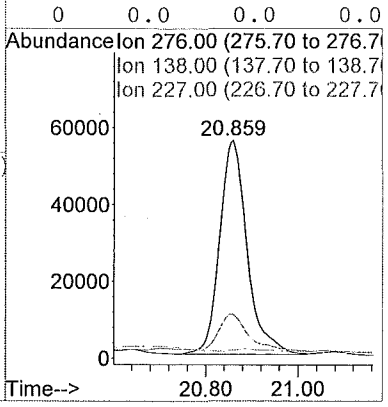


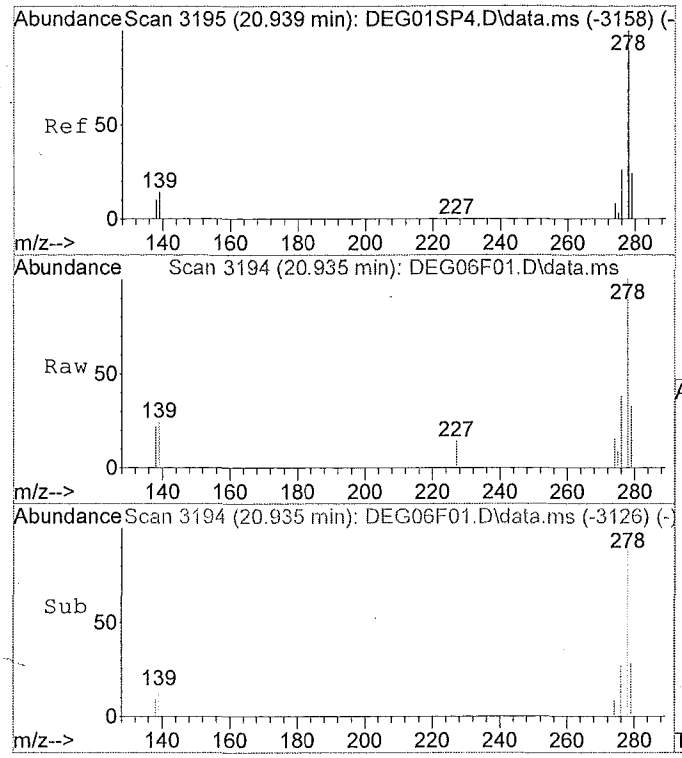


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.29 ug/ml
RT: 20.86 min Scan# 3177
Delta R.T. 0.01 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:276 Resp: 229399

Ion	Ratio	Lower	Upper
276	100		
138	18.6	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

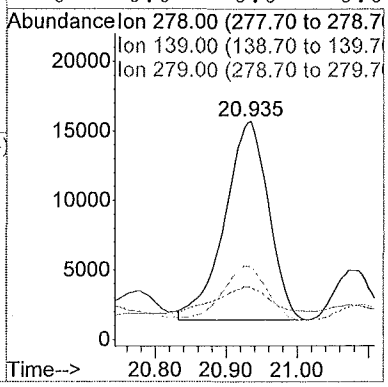


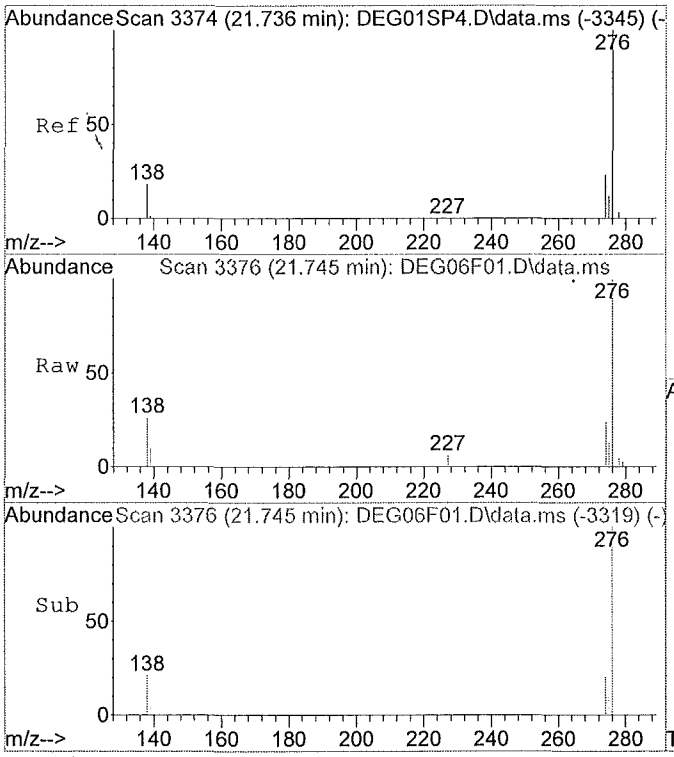


#24
Dibenzo(a,h)anthracene
Concen: 0.07 ug/ml
RT: 20.93 min Scan# 3194
Delta R.T. 0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:278 Resp: 61404

Ion	Ratio	Lower	Upper
278	100		
139	17.0	0.0	0.0#
279	27.2	15.8	29.3
0	0.0	0.0	0.0

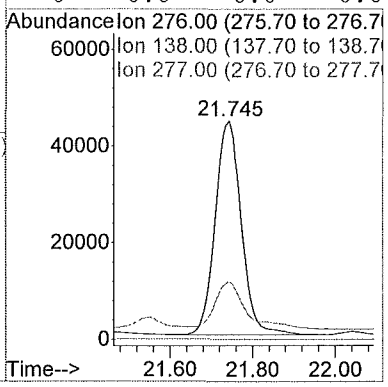




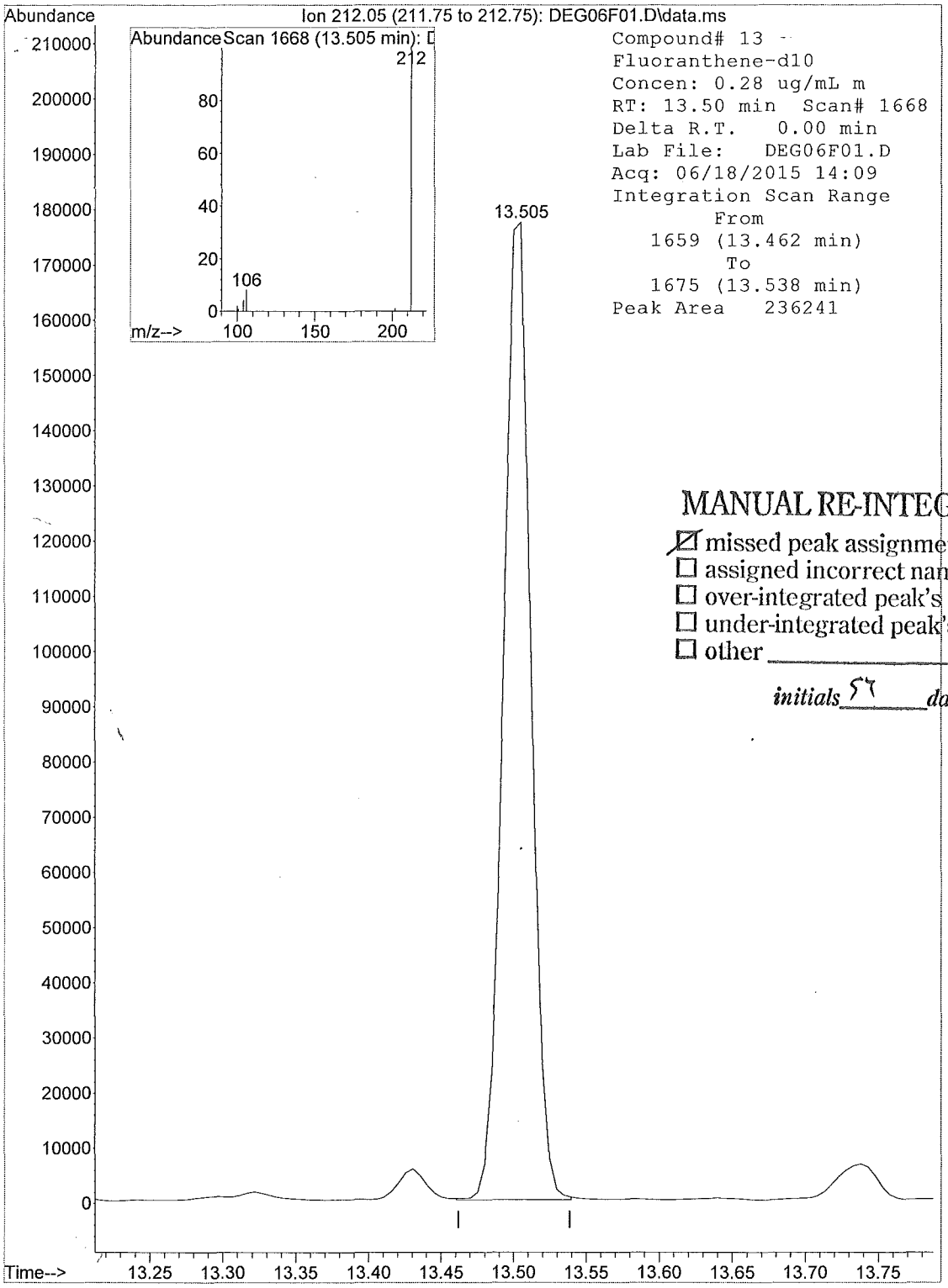
#25
Benzo(g,h,i)perylene
Concen: 0.22 ug/ml
RT: 21.74 min Scan# 3376
Delta R.T. 0.02 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09

Tgt Ion:276 Resp: 192284

Ion	Ratio	Lower	Upper
276	100		
138	26.4	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Fluoranthene-d10



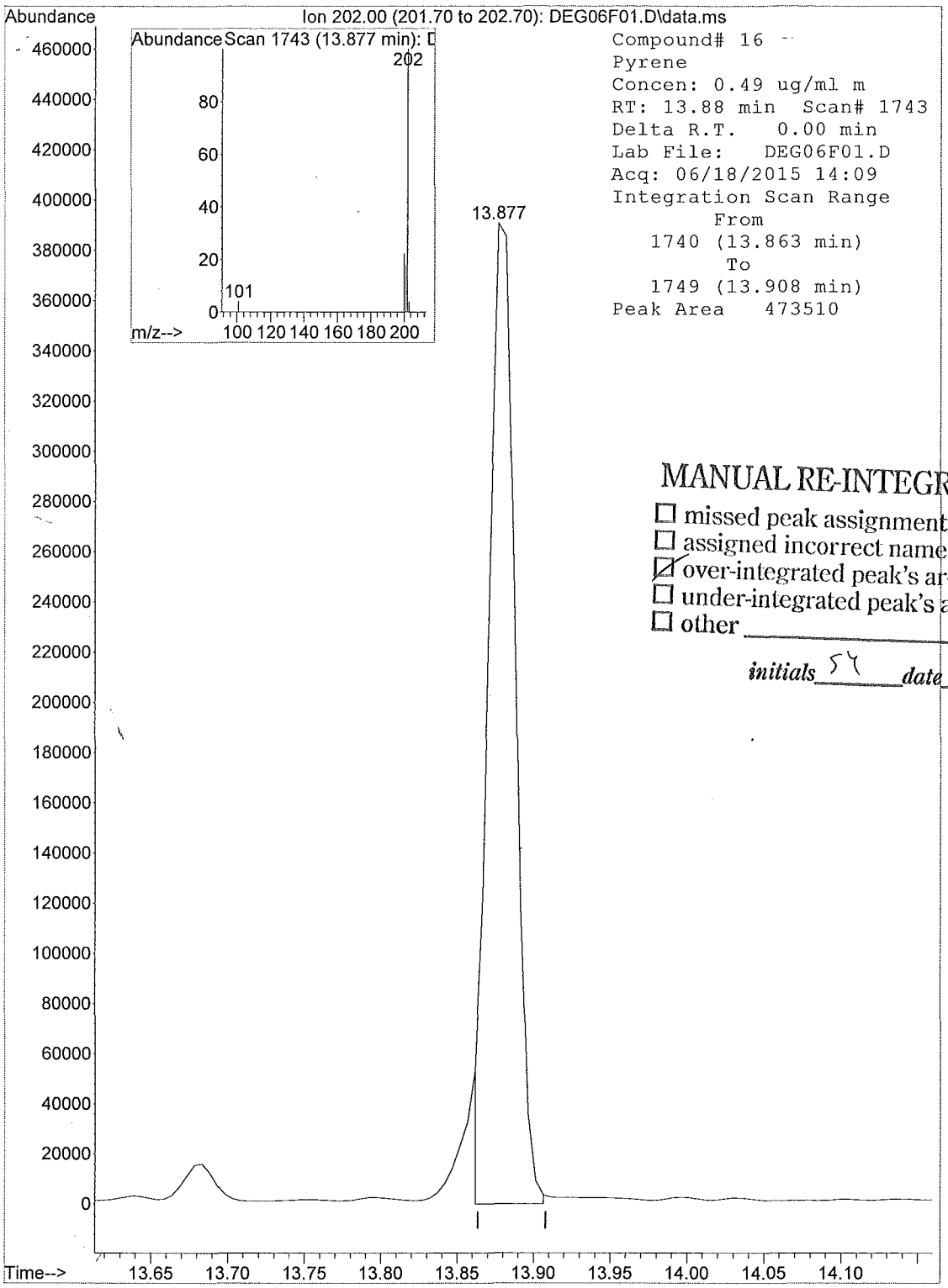
Compound# 13
Fluoranthene-d10
Concen: 0.28 ug/mL m
RT: 13.50 min Scan# 1668
Delta R.T. 0.00 min
Lab File: DEG06F01.D
Acq: 06/18/2015 14:09
Integration Scan Range
From
1659 (13.462 min)
To
1675 (13.538 min)
Peak Area 236241

MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/19/15

M A N U A L I N T E G R A T I O N FOR Pyrene



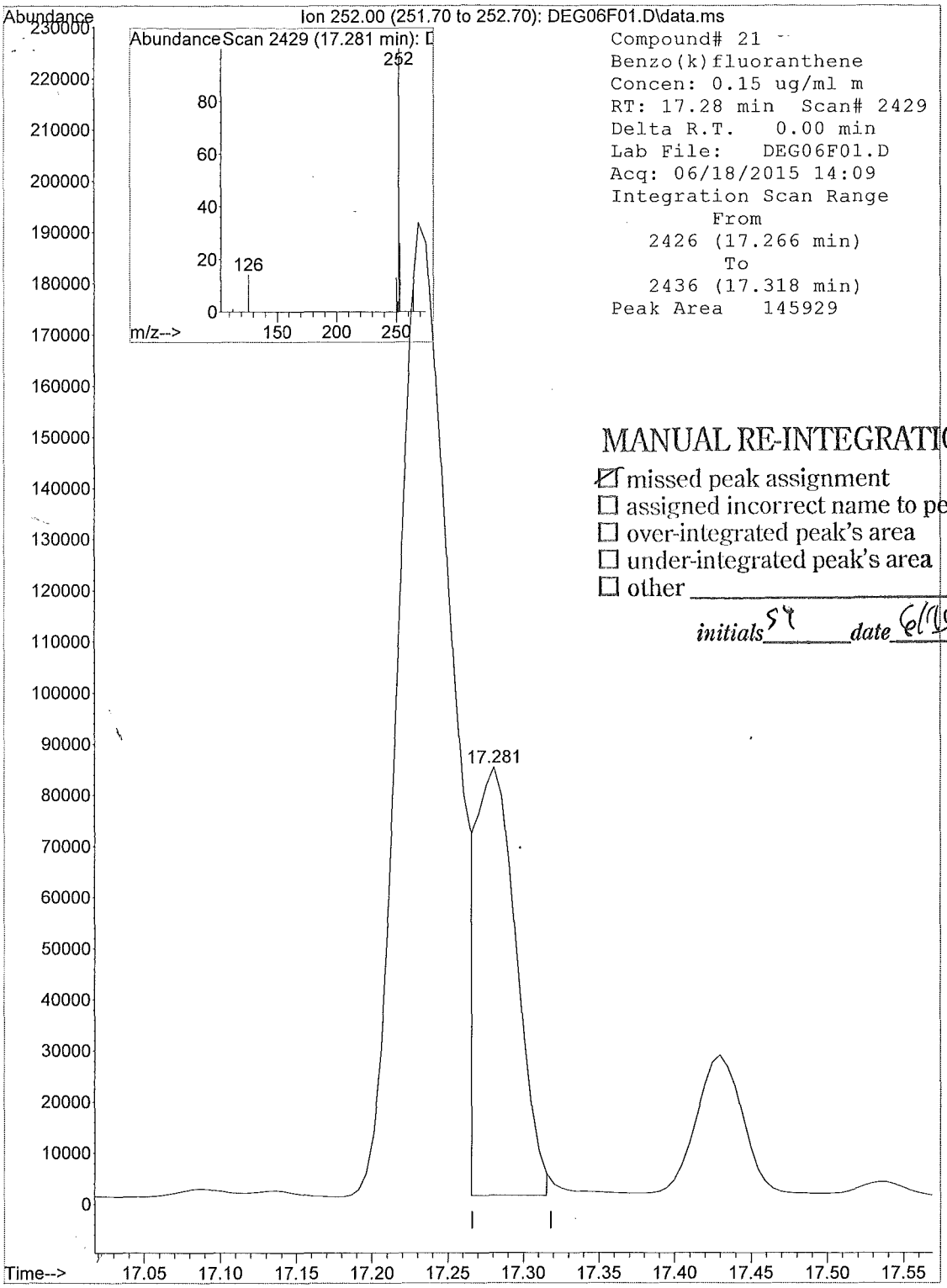
MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/19/15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1515552001 F9M36 . SOIL SIM

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 6/19/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552004

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEJ08F04

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/19/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/20/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

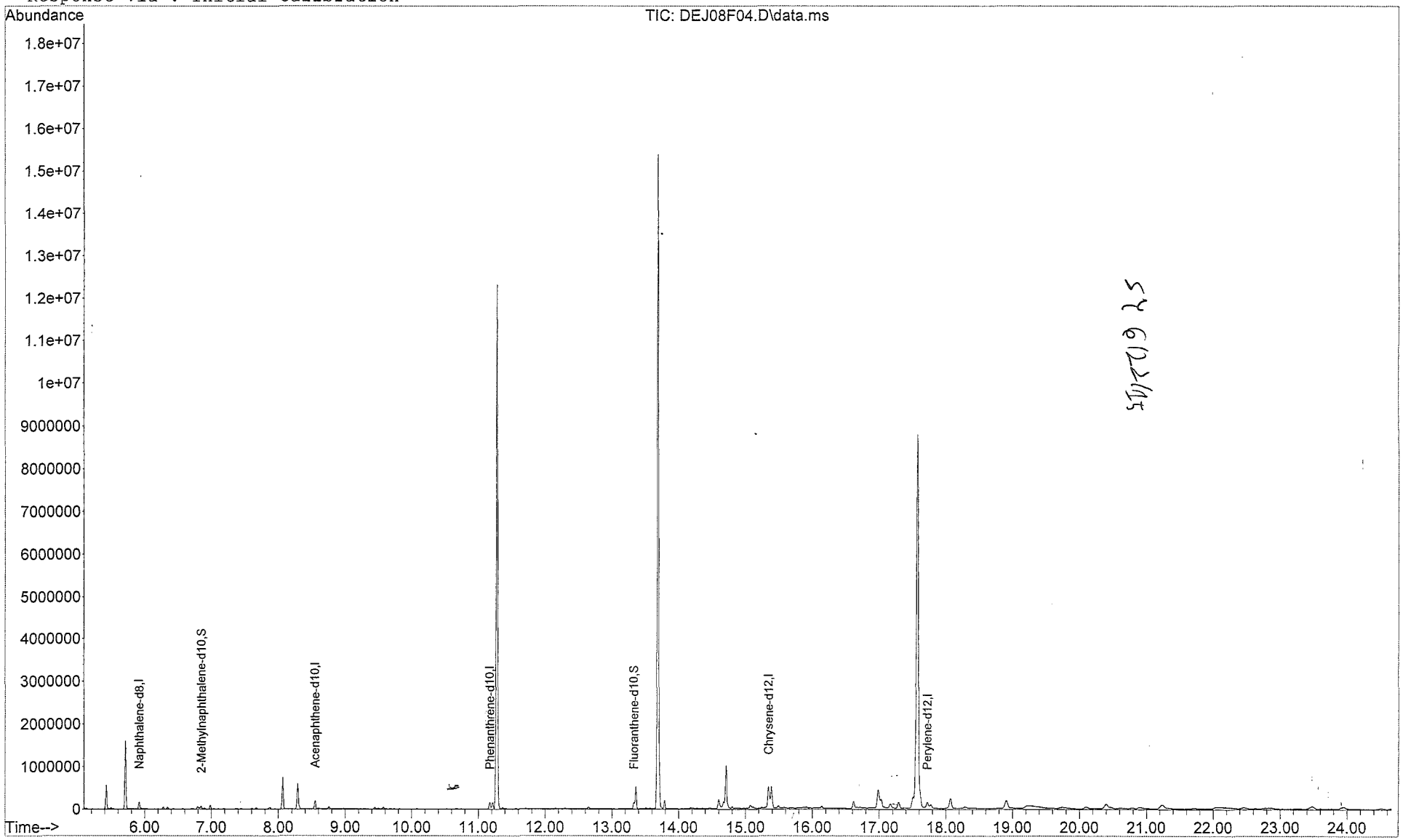
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.97	J
91-57-6	2-Methylnaphthalene	1.4	J
208-96-8	Acenaphthylene	3.9	J
83-32-9	Acenaphthene	1.2	J
86-73-7	Fluorene	1.2	J
87-86-5	Pentachlorophenol	8.0	U
85-01-8	Phenanthrene	11.	
120-12-7	Anthracene	4.5	
206-44-0	Fluoranthene	22.	
129-00-0	Pyrene	24.	
56-55-3	Benzo(a)anthracene	21.	
218-01-9	Chrysene	25.	
205-99-2	Benzo(b)fluoranthene	30.	
207-08-9	Benzo(k)fluoranthene	10.	
50-32-8	Benzo(a)pyrene	22.	
193-39-5	Indeno(1,2,3-cd)pyrene	18.	
53-70-3	Dibenzo(a,h)anthracene	4.0	
191-24-2	Benzo(g,h,i)perylene	14.	

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\20JUN15\DEJ08F04.D Vial: 17
Acq On : 06/20/2015 13:18 Operator: DJC
Sample : 1515552004 F9M42 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 22 10:00:32 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\20JUN15\DEJ08F04.D Vial: 17
Acq On : 06/20/2015 13:18 Operator: DJC
Sample : 1515552004 F9M42 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 22 10:00:32 2015 Results File: DSOM_SIMJ2.RES

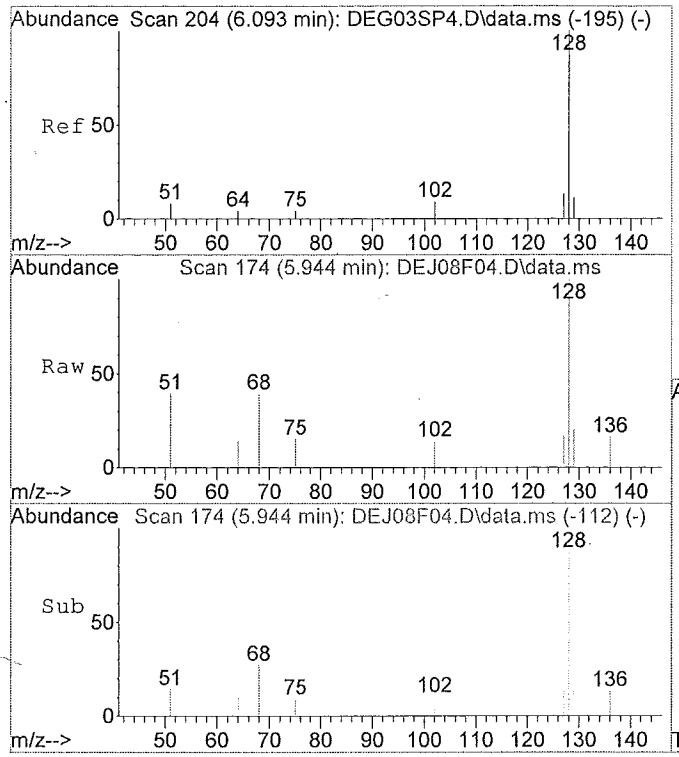
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	5.91	136	186561	0.40 ug/ml
5) Acenaphthene-d10	8.55	164	132884	0.40 ug/ml
9) Phenanthrene-d10	11.17	188	220931	0.40 ug/ml
15) Chrysene-d12	15.35	240	229160	0.40 ug/ml
19) Perylene-d12	17.72	264	237541	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.85	152	79916	0.265ug/mL
13) Fluoranthene-d10	13.33	212	182709	0.302ug/mL

Target Compounds					Qvalue
2) Naphthalene	5.94	128	11916	0.024ug/ml	98
4) 2-Methylnaphthalene	6.90	142	10637	0.034ug/ml	99
6) Acenaphthylene	8.31	152	56920	0.098ug/ml	93
7) Acenaphthene	8.60	153	11322	0.030ug/ml	96
8) Fluorene	9.50	166	13267	0.031ug/ml	72
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.21	178	170795	0.269ug/ml	99
12) Anthracene	11.31	178	69833	0.113ug/ml	96
14) Fluoranthene	13.36	202	407245	0.562ug/ml SY	89
16) Pyrene	13.71	202	438563	0.610ug/ml m 6/22/15	78
17) Benzo(a)anthracene	15.34	228	324098	0.530ug/ml	94
18) Chrysene	15.38	228	400605	0.620ug/ml	94
20) Benzo(b)fluoranthene	16.98	252	562293	0.759ug/ml SY	99
21) Benzo(k)fluoranthene	17.03	252	192238	0.251ug/ml m 6/22/15	98
22) Benzo(a)pyrene	17.61	252	389418	0.550ug/ml	100
23) Indeno(1,2,3-c,d)pyrene	20.40	276	283470	0.458ug/ml	100
24) Dibenzo(a,h)anthracene	20.47	278	69666	0.102ug/ml	93
25) Benzo(g,h,i)perylene	21.23	276	247869	0.356ug/ml	62

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

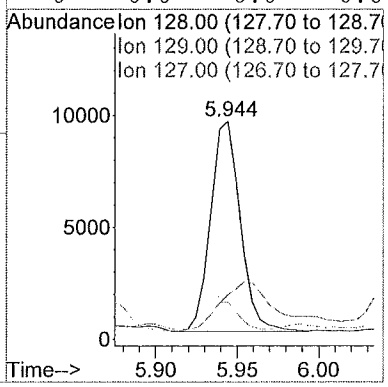
: 001129

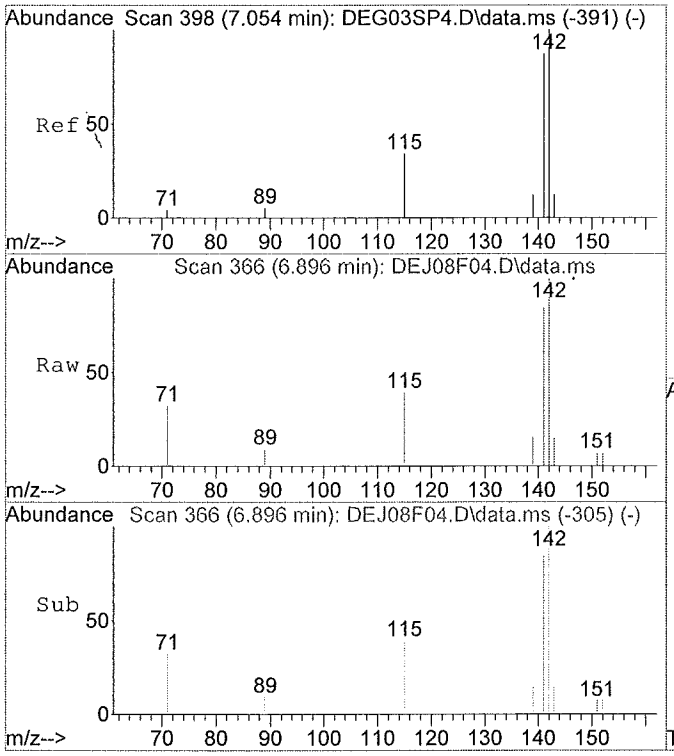


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.94 min Scan# 174
Delta R.T. 0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:128 Resp: 11916

Ion	Ratio	Lower	Upper
128	100		
129	44.3	0.0	0.0#
127	14.9	11.1	20.5
0	0.0	0.0	0.0

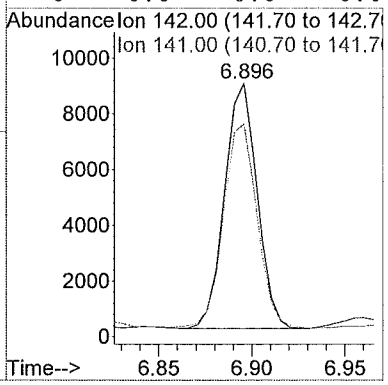


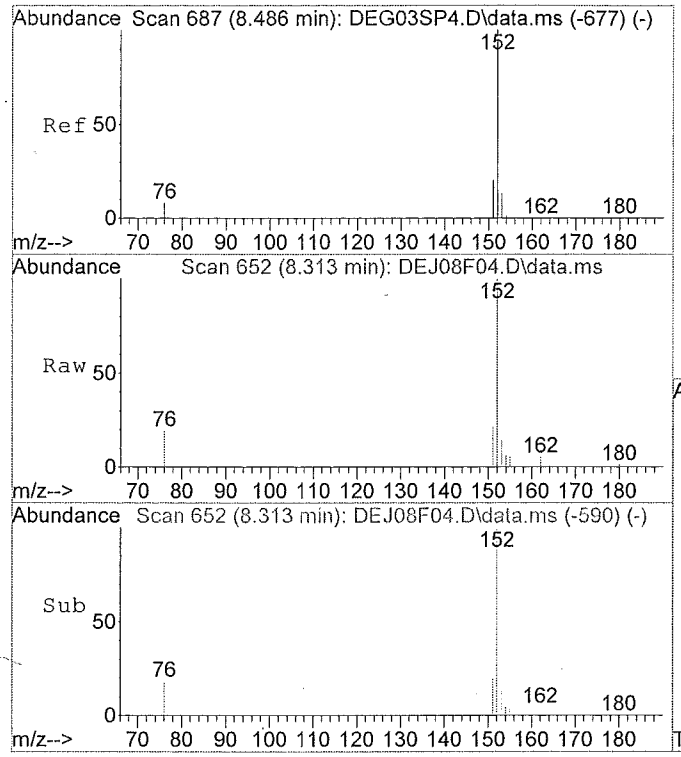


#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 6.90 min Scan# 366
Delta R.T. 0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:142 Resp: 10637

Ion	Ratio	Lower	Upper
142	100		
141	88.3	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

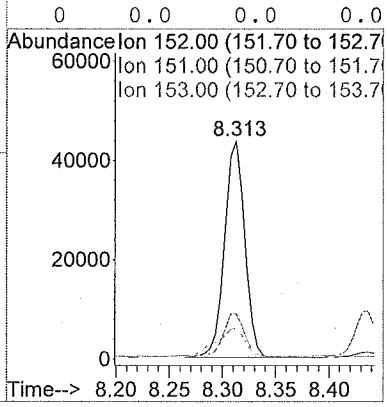


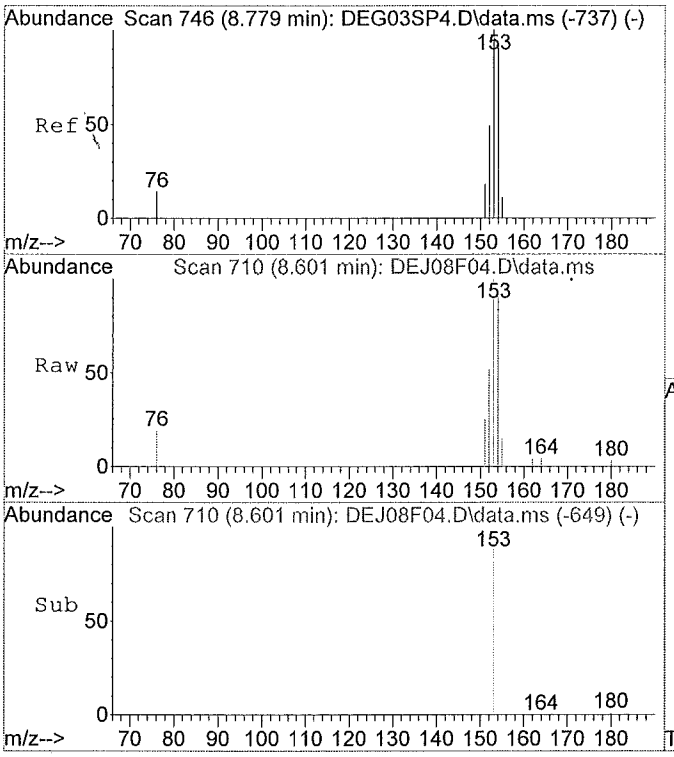


#6
Acenaphthylene
Concen: 0.10 ug/ml
RT: 8.31 min Scan# 652
Delta R.T. 0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:152 Resp: 56920

Ion	Ratio	Lower	Upper
152	100		
151	21.8	15.5	28.7
153	19.8	8.8	16.4#
0	0.0	0.0	0.0

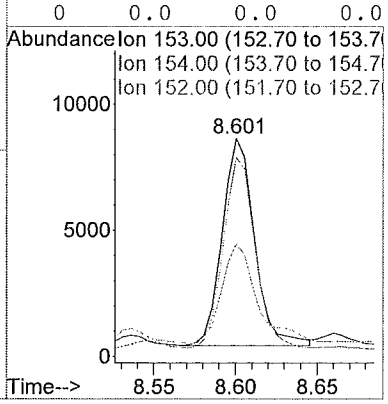


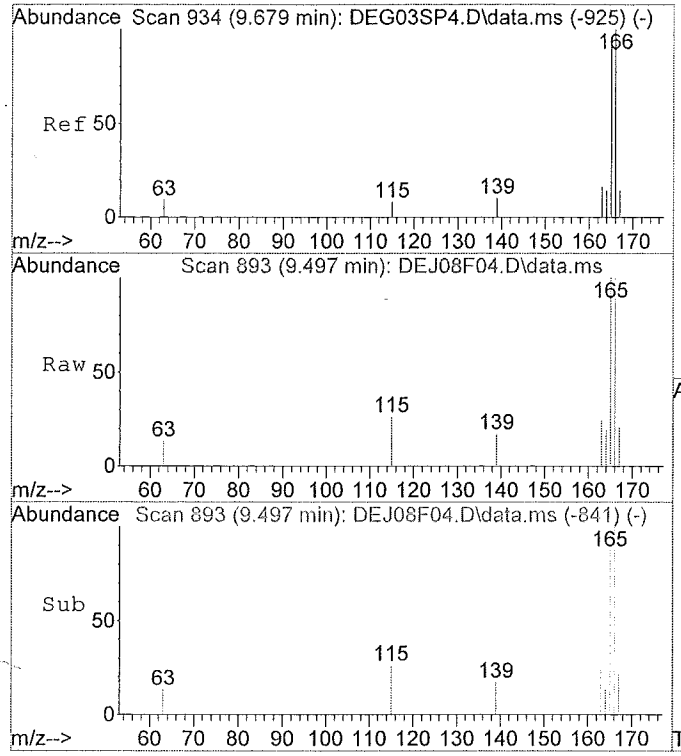


#7
Acenaphthene
Concen: 0.03 ug/ml
RT: 8.60 min Scan# 710
Delta R.T. 0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:153 Resp: 11322

Ion	Ratio	Lower	Upper
153	100		
154	93.6	65.1	120.9
152	57.3	35.2	65.4
0	0.0	0.0	0.0

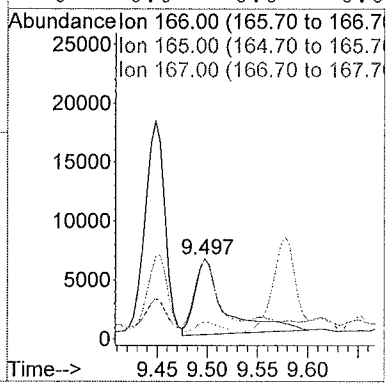


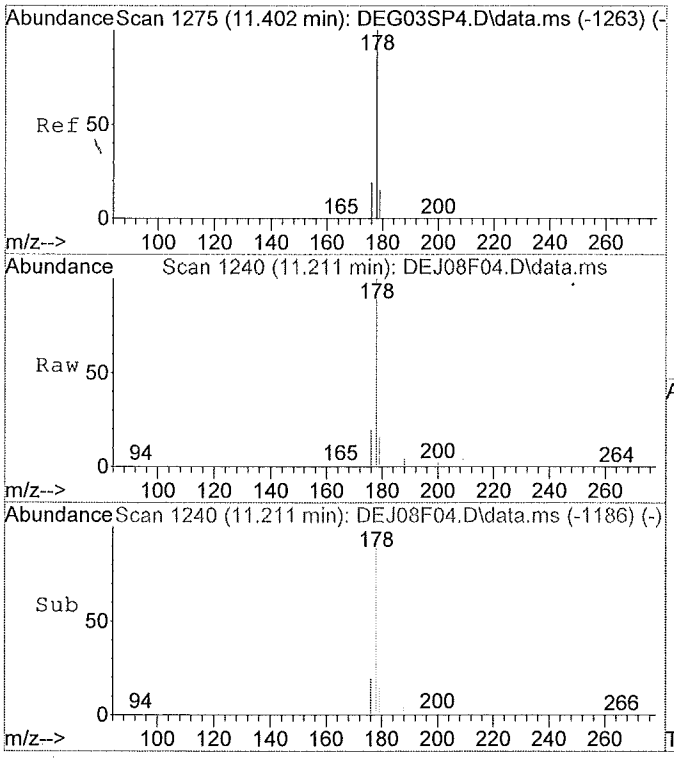


#8
Fluorene
Concen: 0.03 ug/ml
RT: 9.50 min Scan# 893
Delta R.T. -0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:166 Resp: 13267

Ion	Ratio	Lower	Upper
166	100		
165	67.9	66.3	123.1
167	10.0	0.0	0.0#
0	0.0	0.0	0.0

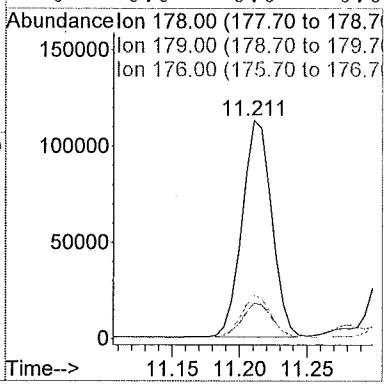


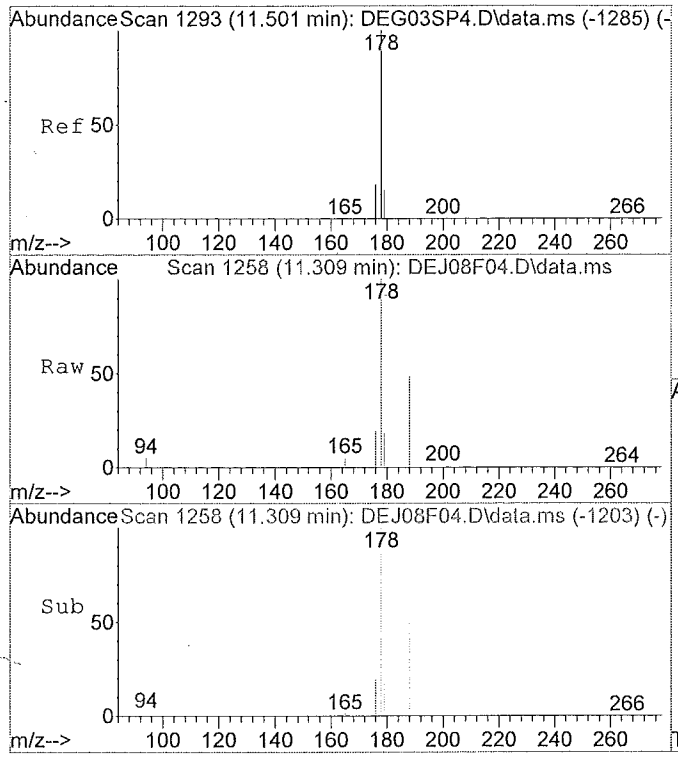


#11
Phenanthrene
Concen: 0.27 ug/ml
RT: 11.21 min Scan# 1240
Delta R.T. -0.01 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:178 Resp: 170795

Ion	Ratio	Lower	Upper
178	100		
179	15.8	11.1	20.5
176	19.7	14.1	26.1
0	0.0	0.0	0.0

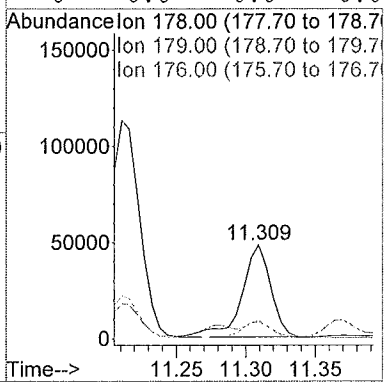


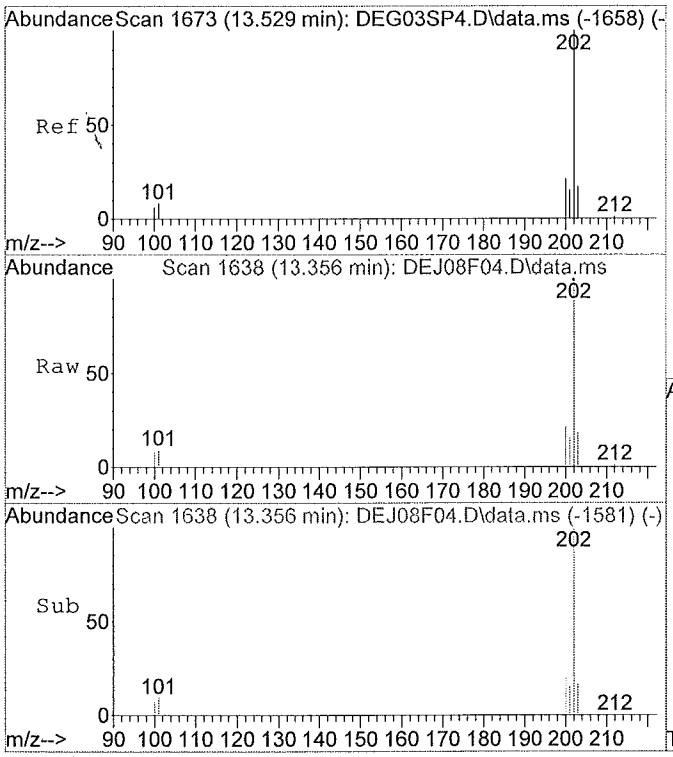


#12
Anthracene
Concen: 0.11 ug/ml
RT: 11.31 min Scan# 1258
Delta R.T. 0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:178 Resp: 69833

Ion	Ratio	Lower	Upper
178	100		
179	14.3	11.6	21.6
176	18.4	13.9	25.7
0	0.0	0.0	0.0

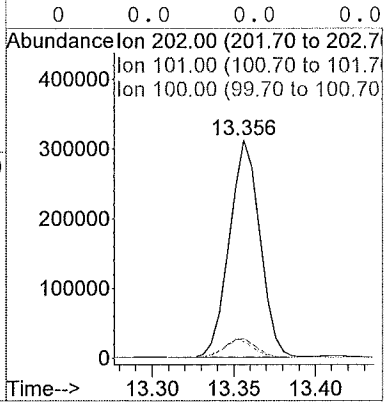


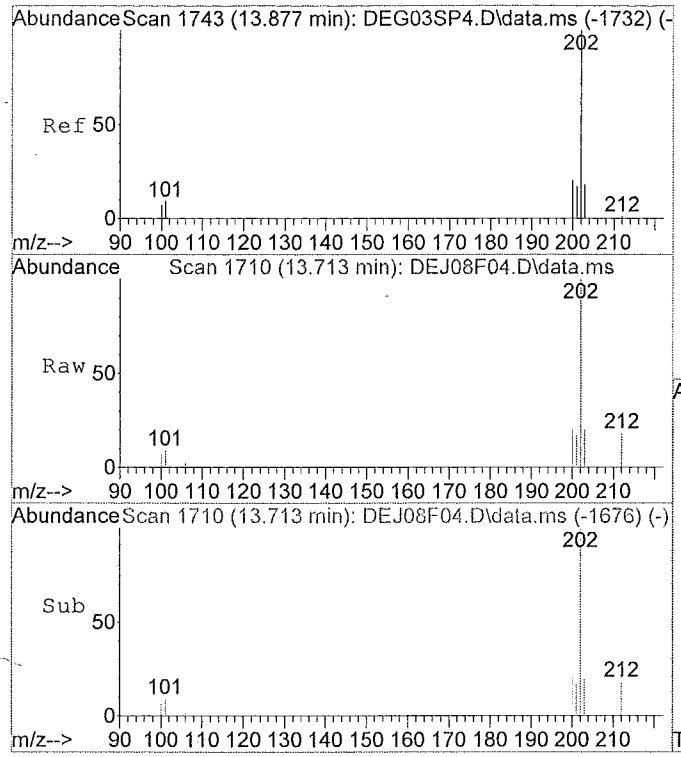


#14
Fluoranthene
Concen: 0.56 ug/ml
RT: 13.36 min Scan# 1638
Delta R.T. -0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:202 Resp: 407245

Ion	Ratio	Lower	Upper
202	100		
101	9.1	9.4	17.6#
100	8.8	0.0	0.0#
0	0.0	0.0	0.0

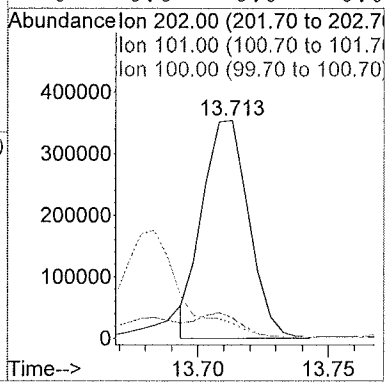


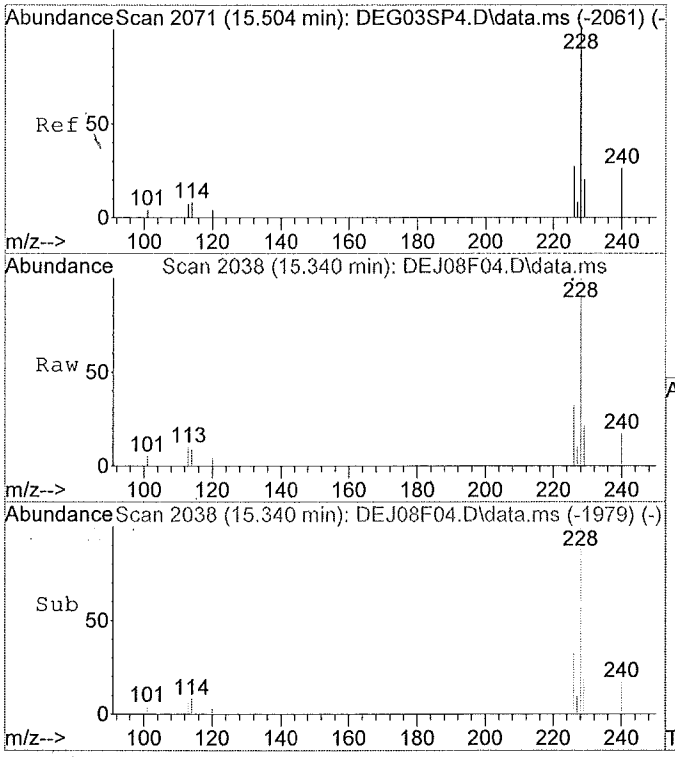


#16
Pyrene
Concen: 0.61 ug/ml m
RT: 13.71 min Scan# 1710
Delta R.T. -0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:202 Resp: 438563

Ion	Ratio	Lower	Upper
202	100		
101	11.0	10.6	19.6
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

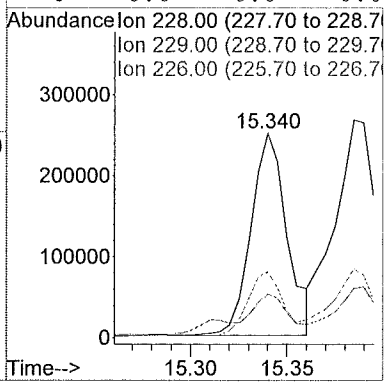


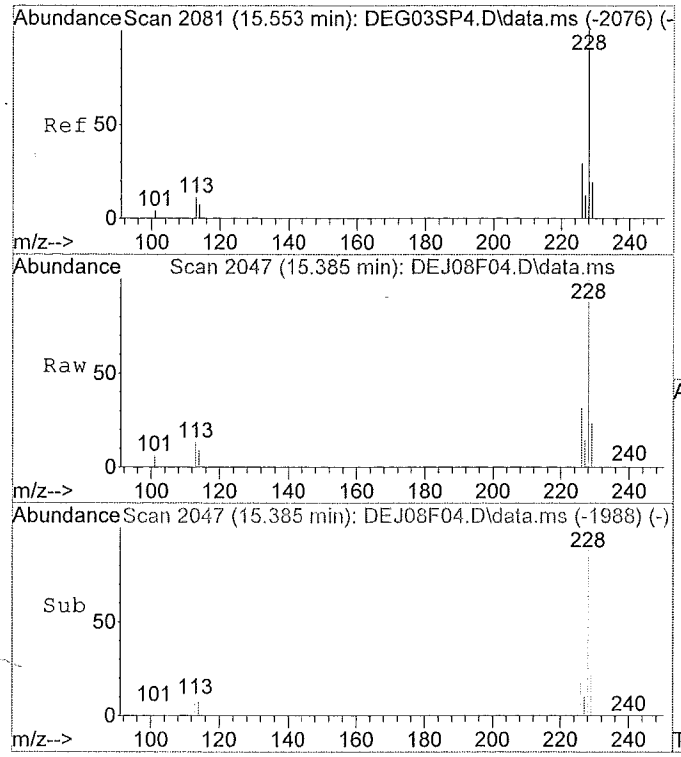


#17
Benzo(a)anthracene
Concen: 0.53 ug/ml
RT: 15.34 min Scan# 2038
Delta R.T. -0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:228 Resp: 324098

Ion	Ratio	Lower	Upper
228	100		
229	21.3	14.5	26.9
226	31.4	18.5	34.3
0	0.0	0.0	0.0

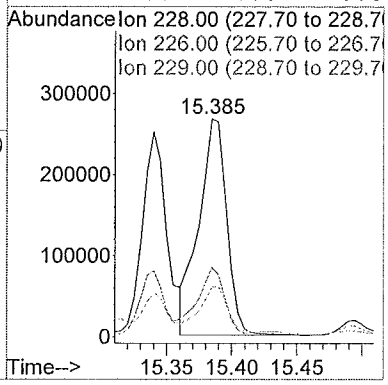


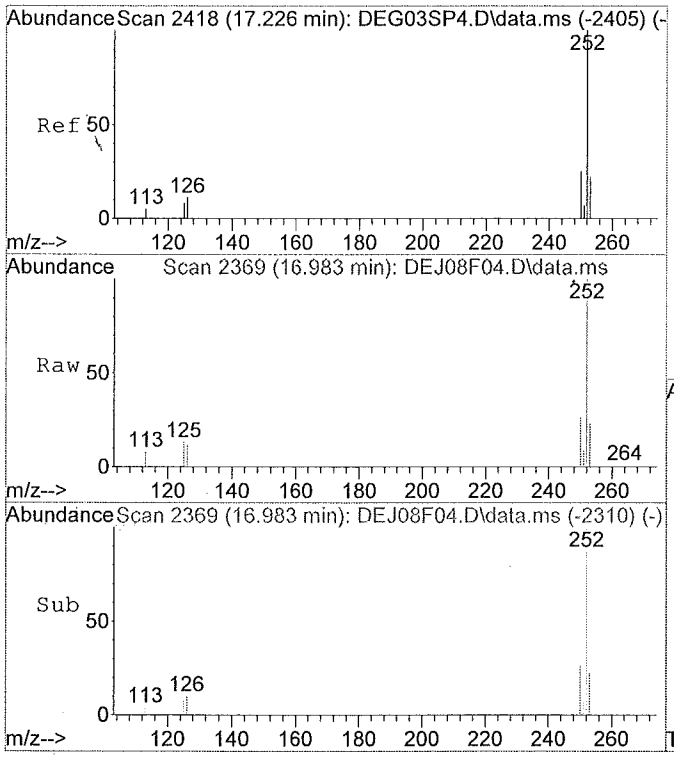


#18
Chrysene
Concen: 0.62 ug/ml
RT: 15.38 min Scan# 2047
Delta R.T. -0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:228 Resp: 400605

Ion	Ratio	Lower	Upper
228	100		
226	31.1	19.7	36.7
229	23.8	14.5	26.9
0	0.0	0.0	0.0

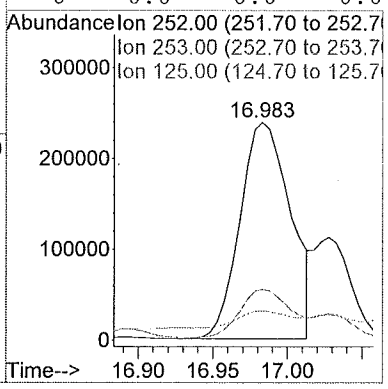


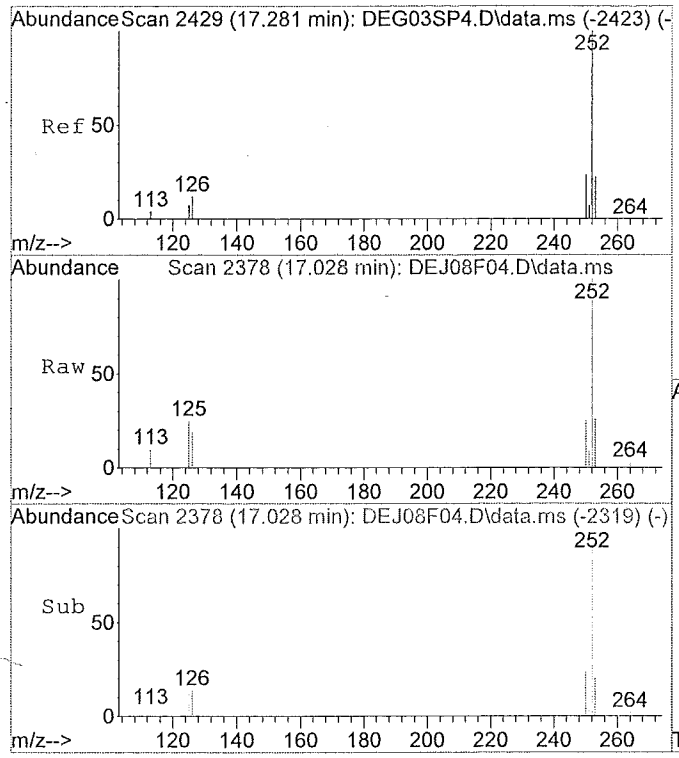


#20
Benzo(b)fluoranthene
Concen: 0.76 ug/ml
RT: 16.98 min Scan# 2369
Delta R.T. -0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:252 Resp: 562293

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.3	28.3
125	8.3	0.0	0.0#
0	0.0	0.0	0.0

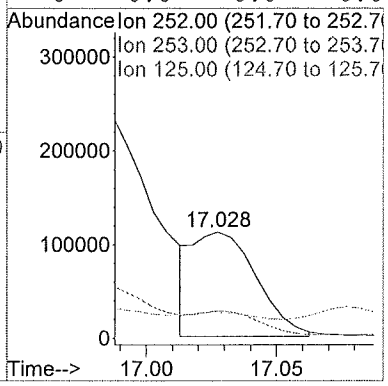


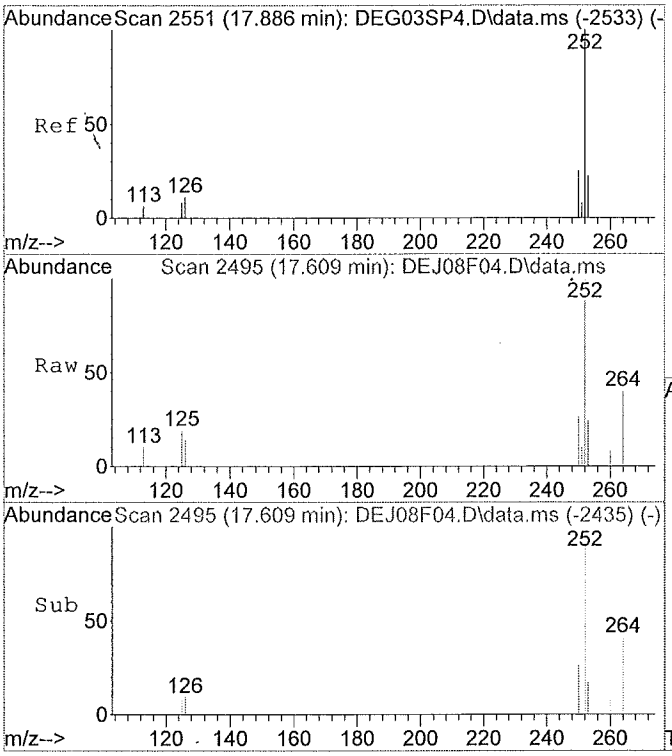


#21
Benzo(k)fluoranthene
Concen: 0.25 ug/ml m
RT: 17.03 min Scan# 2378
Delta R.T. -0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:252 Resp: 192238

Ion	Ratio	Lower	Upper
252	100		
253	65.2	15.0	27.8#
125	24.2	0.0	0.0#
0	0.0	0.0	0.0

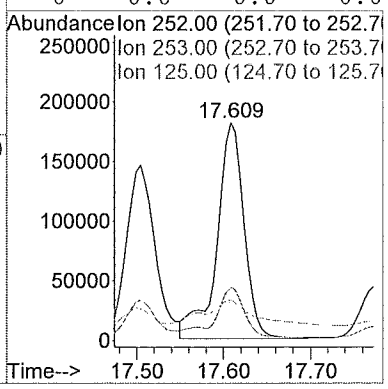


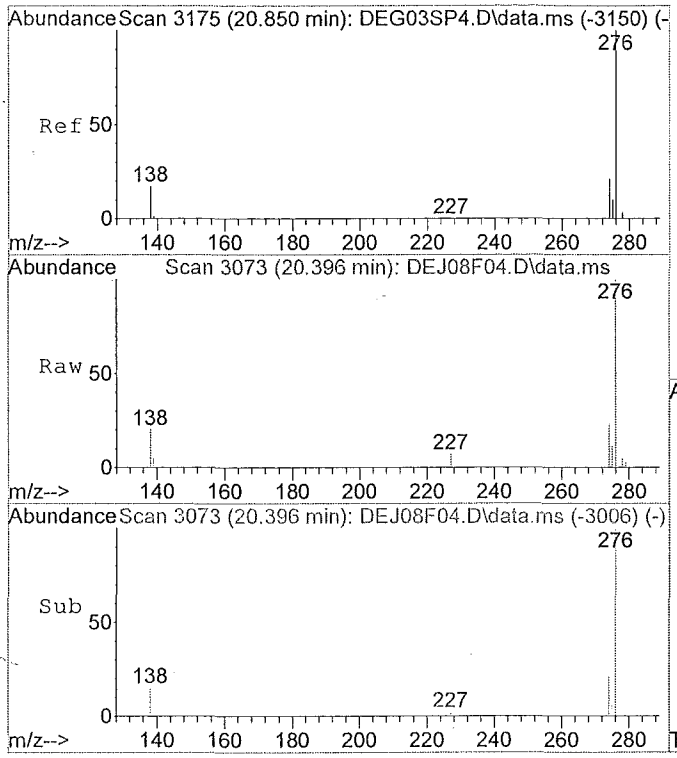


#22
Benzo(a)pyrene
Concen: 0.55 ug/ml
RT: 17.61 min Scan# 2495
Delta R.T. 0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:252 Resp: 389418

Ion	Ratio	Lower	Upper
252	100		
253	21.3	15.0	27.8
125	21.3	0.0	0.0#
0	0.0	0.0	0.0

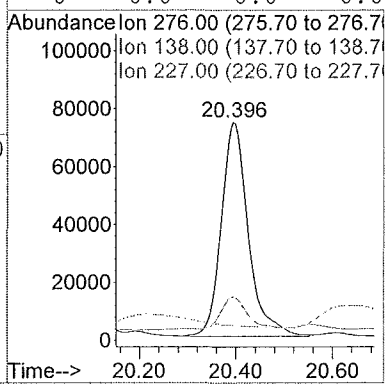


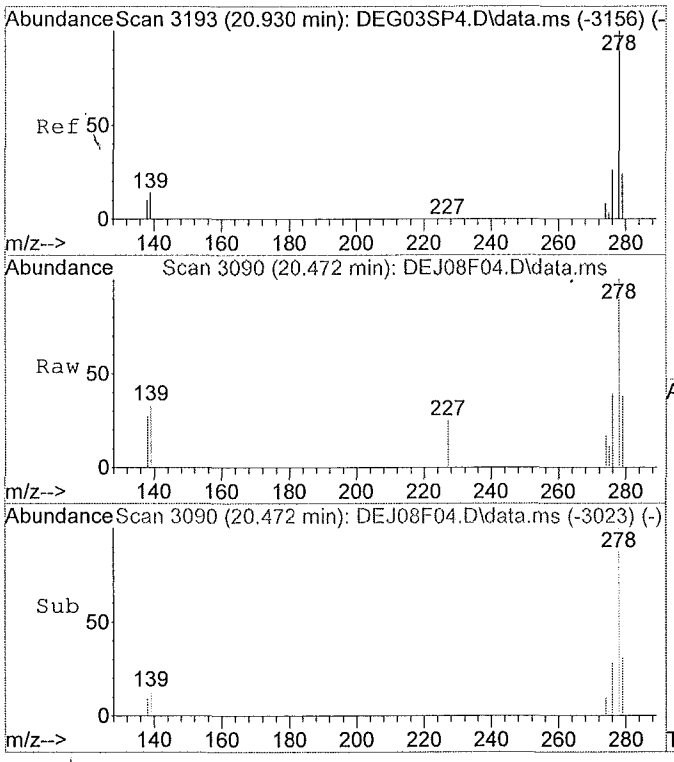


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.46 ug/ml
RT: 20.40 min Scan# 3073
Delta R.T. 0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:276 Resp: 283470

Ion	Ratio	Lower	Upper
276	100		
138	14.4	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

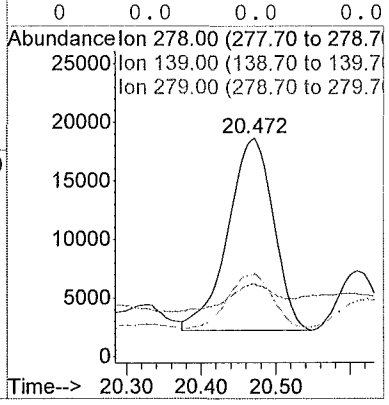


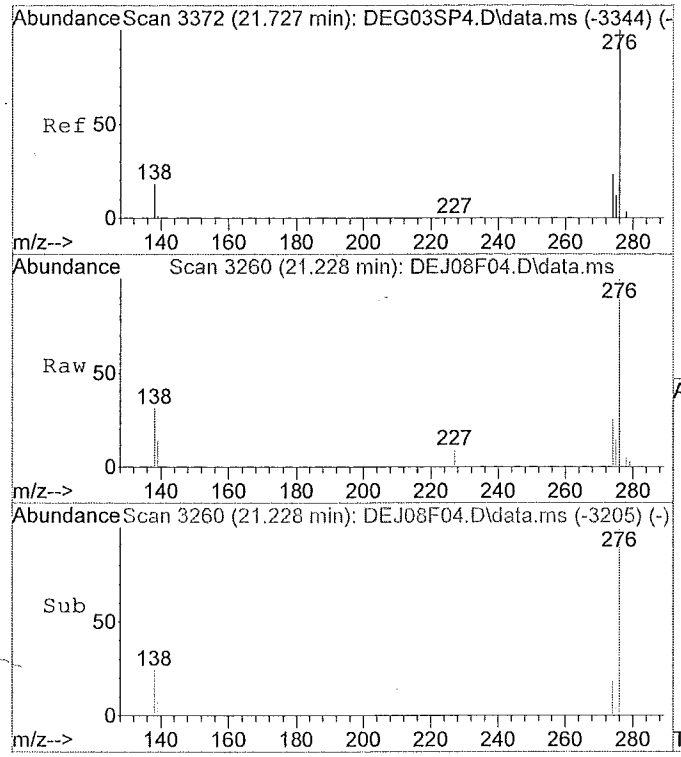


#24
Dibenzo(a,h)anthracene
Concen: 0.10 ug/ml
RT: 20.47 min Scan# 3090
Delta R.T. -0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:278 Resp: 69666

Ion	Ratio	Lower	Upper
278	100		
139	15.2	0.0	0.0#
279	26.0	15.8	29.3
0	0.0	0.0	0.0

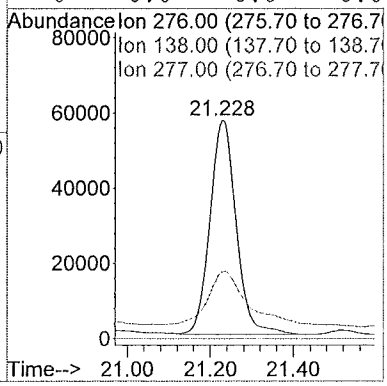




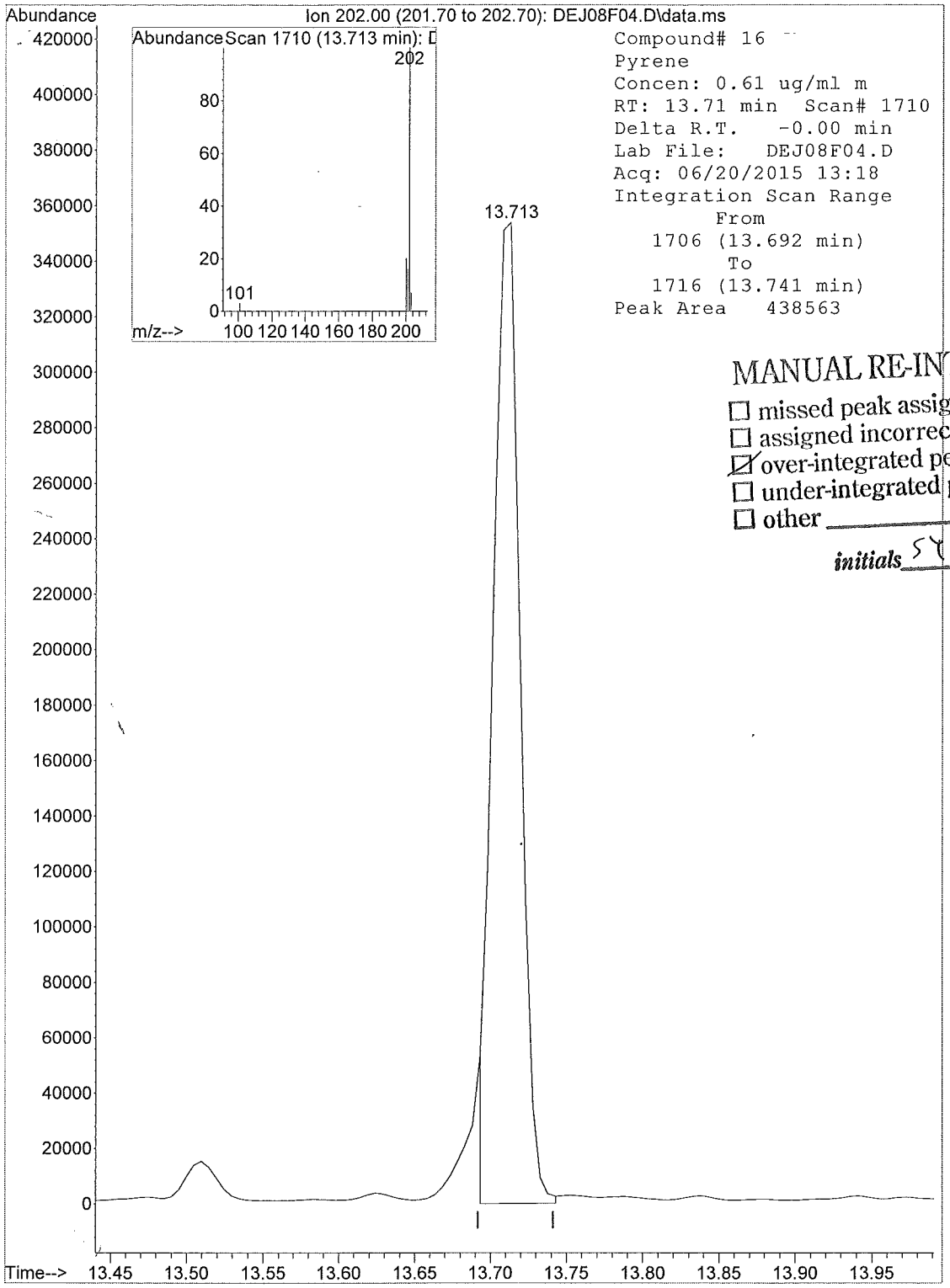
#25
Benzo(g,h,i)perylene
Concen: 0.36 ug/ml
RT: 21.23 min Scan# 3260
Delta R.T. 0.01 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18

Tgt Ion:276 Resp: 247869

Ion	Ratio	Lower	Upper
276	100		
138	37.0	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Pyrene



Compound# 16
Pyrene
Concen: 0.61 ug/ml m
RT: 13.71 min Scan# 1710
Delta R.T. -0.00 min
Lab File: DEJ08F04.D
Acq: 06/20/2015 13:18
Integration Scan Range
From
1706 (13.692 min)
To
1716 (13.741 min)
Peak Area 438563

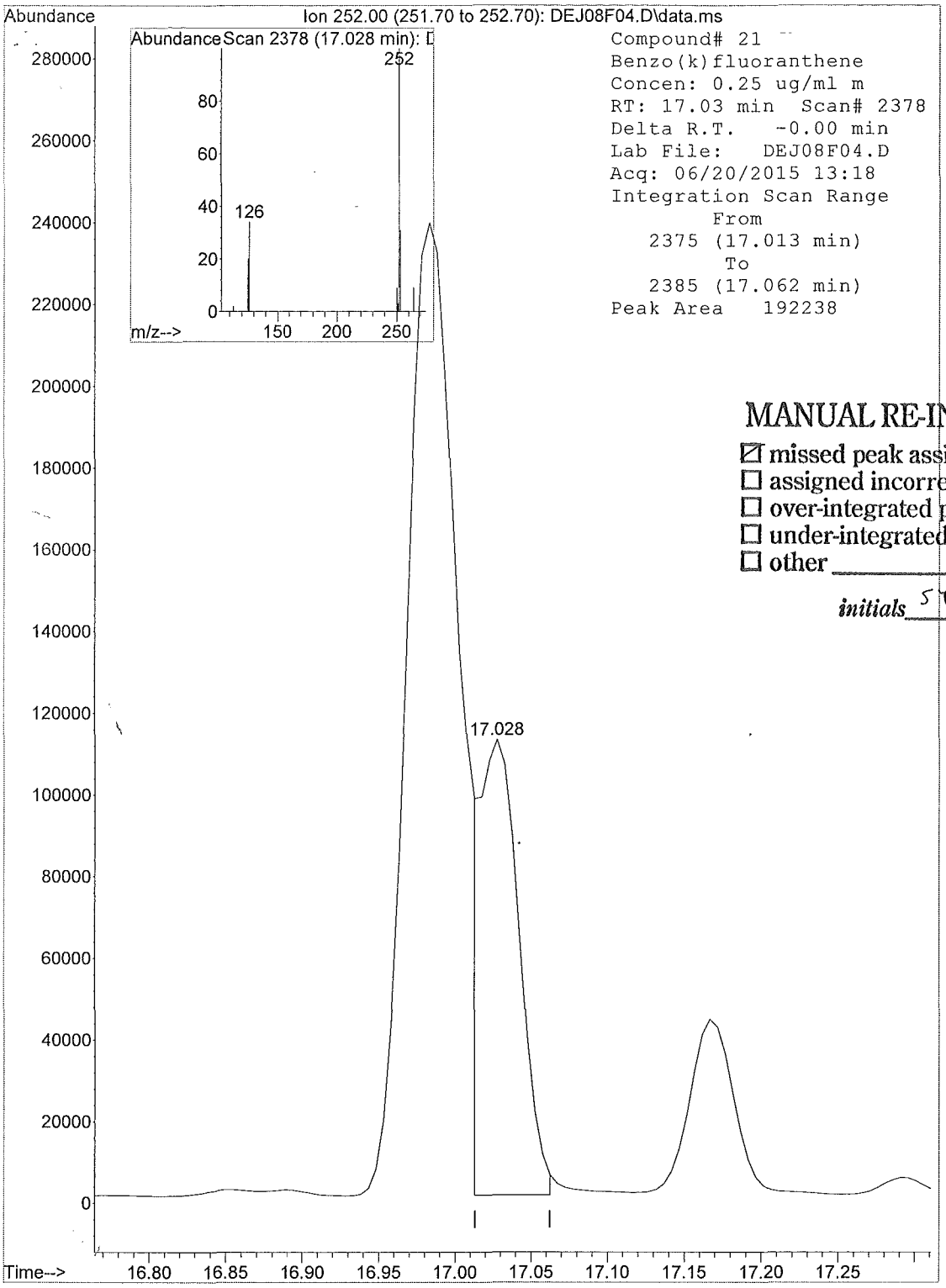
MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/22/15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1515552004 F9M42 . X7-19-15

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/22/15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1515552004 F9M42 . X7-19-15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DEG08F05

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

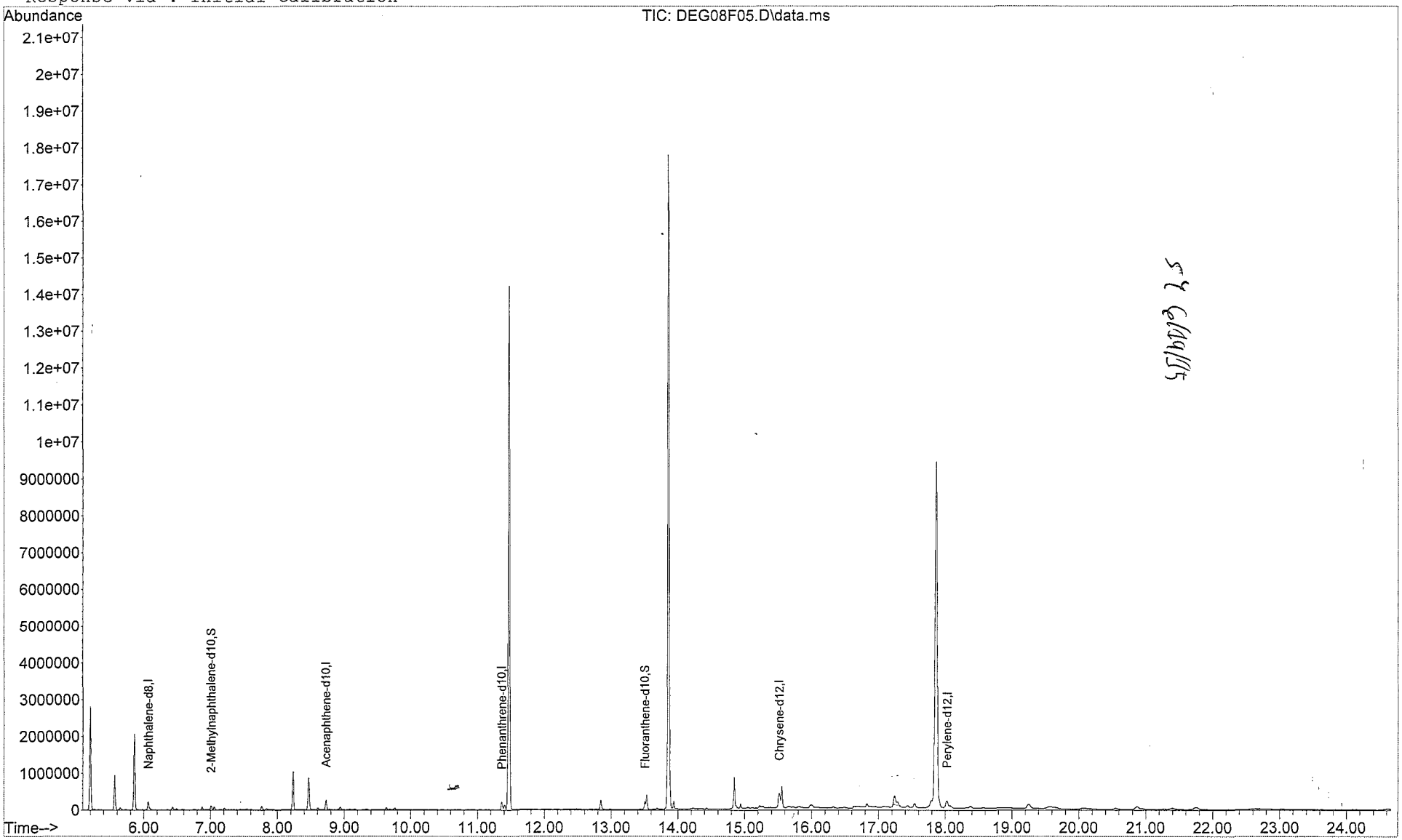
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.9	J
91-57-6	2-Methylnaphthalene	3.7	J
208-96-8	Acenaphthylene	2.2	J
83-32-9	Acenaphthene	0.80	J
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	1.9	J
85-01-8	Phenanthrene	5.7	
120-12-7	Anthracene	2.5	J
206-44-0	Fluoranthene	12.	
129-00-0	Pyrene	12.	
56-55-3	Benzo(a)anthracene	8.6	
218-01-9	Chrysene	12.	
205-99-2	Benzo(b)fluoranthene	15.	
207-08-9	Benzo(k)fluoranthene	4.6	
50-32-8	Benzo(a)pyrene	7.5	
193-39-5	Indeno(1,2,3-cd)pyrene	8.8	
53-70-3	Dibenzo(a,h)anthracene	2.0	J
191-24-2	Benzo(g,h,i)perylene	5.8	

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG08F05.D Vial: 7
Acq On : 06/18/2015 15:10 Operator: DJC
Sample : 1515552005 F9M43 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 19 07:29:48 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

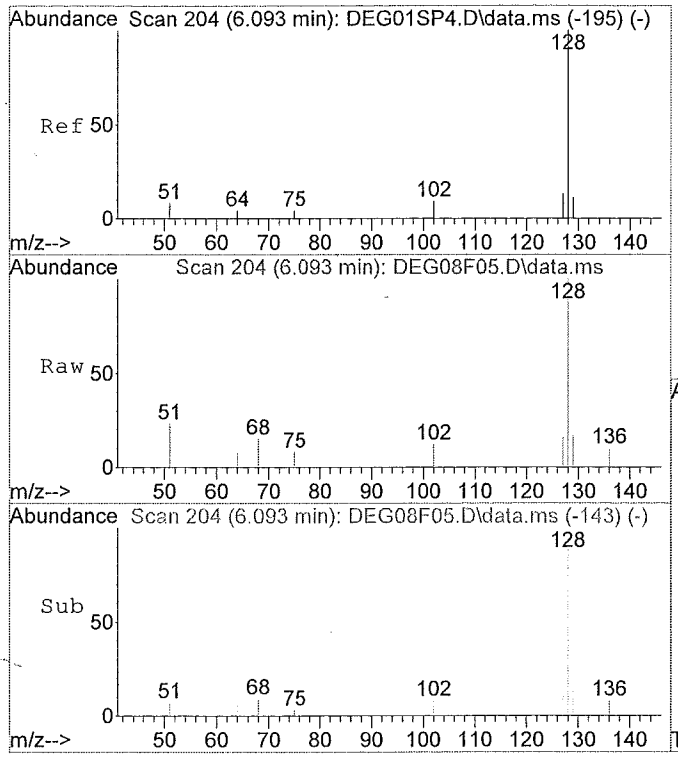
Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG08F05.D Vial: 7
Acq On : 06/18/2015 15:10 Operator: DJC
Sample : 1515552005 F9M43 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 07:29:48 2015 Results File: DSOM_SIMJ2.RES

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	246557	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	176040	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	292670	0.40 ug/ml
15) Chrysene-d12	15.52	240	326726	0.40 ug/ml
19) Perylene-d12	18.02	264	332453	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	119331	0.300ug/mL
13) Fluoranthene-d10	13.50	212	236248	0.295ug/mL

Target Compounds					Qvalue
2) Naphthalene	6.09	128	30764	0.048ug/ml	97
4) 2-Methylnaphthalene	7.06	142	39276	0.095ug/ml	97
6) Acenaphthylene	8.49	152	43067	0.056ug/ml	86
7) Acenaphthene	8.78	153	10251	0.021ug/ml	91
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	11.03	266	2163	0.049ug/ml	100
11) Phenanthrene	11.41	178	124945	0.148ug/ml	98
12) Anthracene	11.50	178	52270	0.064ug/ml	91
14) Fluoranthene	13.53	202	306894	0.320ug/ml	90
16) Pyrene	13.88	202	327417	0.319ug/ml m	97
17) Benzo(a)anthracene	15.51	228	193975	0.223ug/ml	90
18) Chrysene	15.56	228	294820	0.320ug/ml	95
20) Benzo(b)fluoranthene	17.24	252	400919	0.387ug/ml	98
21) Benzo(k)fluoranthene	17.29	252	128965	0.120ug/ml m	97
22) Benzo(a)pyrene	17.90	252	192524	0.194ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.87	276	196142	0.226ug/ml	100
24) Dibenzo(a,h)anthracene	20.94	278	48418	0.051ug/ml	90
25) Benzo(g,h,i)perylene	21.75	276	145527	0.149ug/ml	61

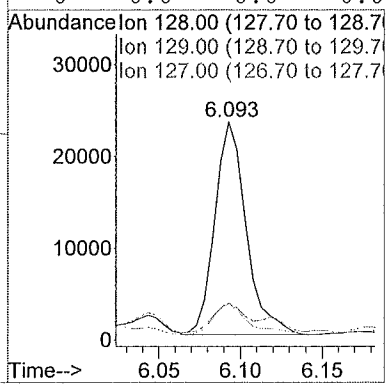
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

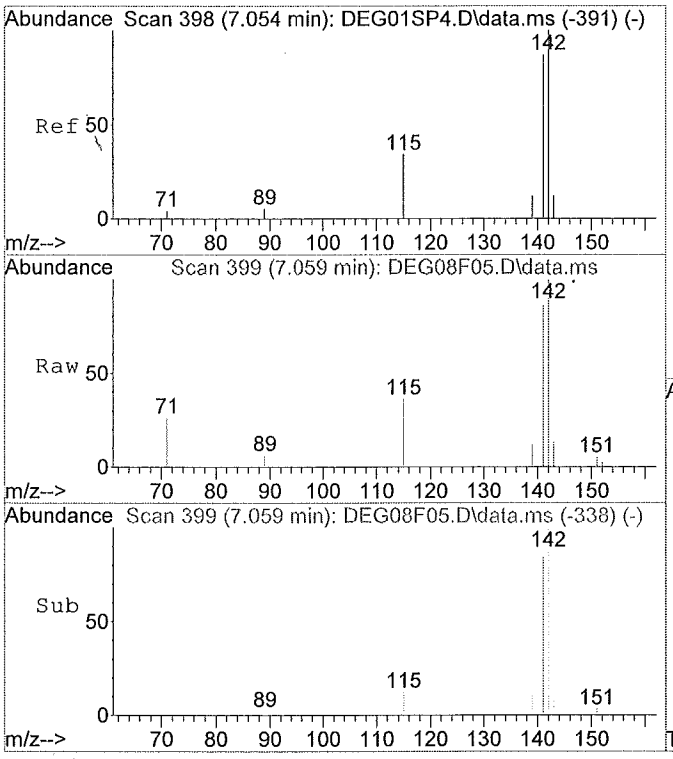


#2
Naphthalene
Concen: 0.05 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:128 Resp: 30764

Ion	Ratio	Lower	Upper
128	100		
129	13.8	0.0	0.0#
127	17.3	11.1	20.5
0	0.0	0.0	0.0

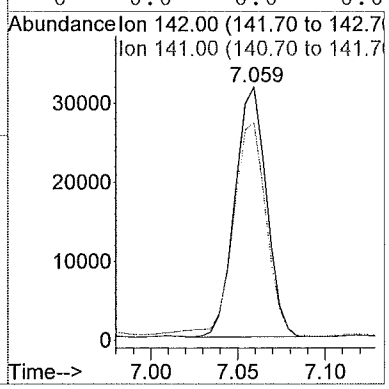


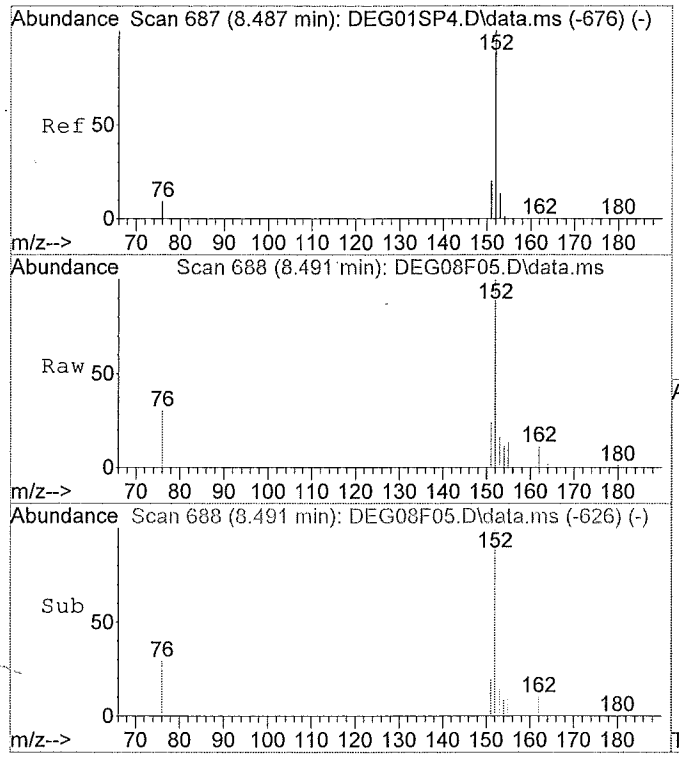


#4
2-Methylnaphthalene
Concen: 0.09 ug/ml
RT: 7.06 min Scan# 399
Delta R.T. 0.00 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:142 Resp: 39276

Ion	Ratio	Lower	Upper
142	100		
141	89.7	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

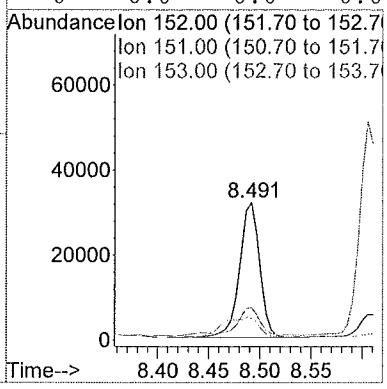


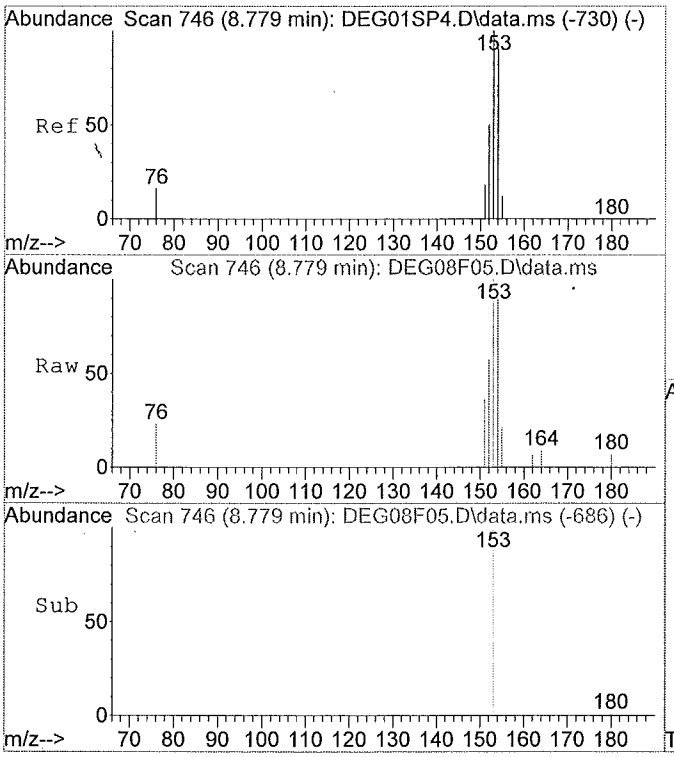


#6
Acenaphthylene
Concen: 0.06 ug/ml
RT: 8.49 min Scan# 688
Delta R.T. 0.01 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:152 Resp: 43067

Ion	Ratio	Lower	Upper
152	100		
151	21.7	15.5	28.7
153	27.4	8.8	16.4#
0	0.0	0.0	0.0

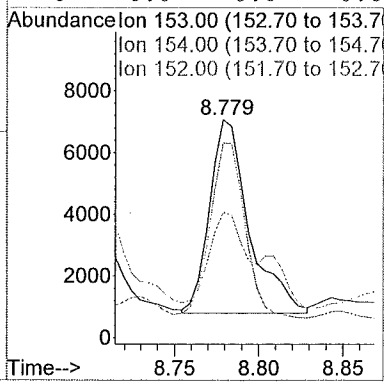


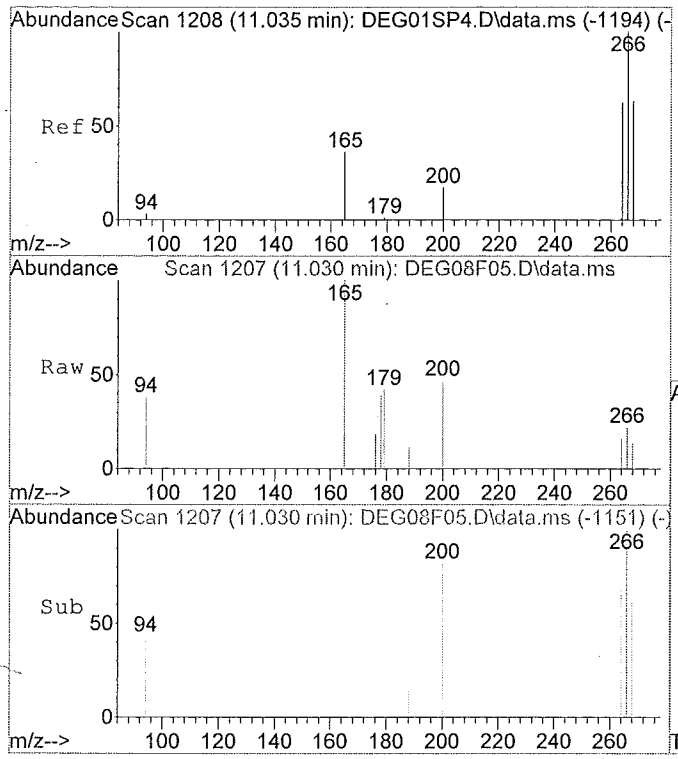


#7
Acenaphthene
Concen: 0.02 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:153 Resp: 10251

Ion	Ratio	Lower	Upper
153	100		
154	85.9	65.1	120.9
152	41.8	35.2	65.4
0	0.0	0.0	0.0

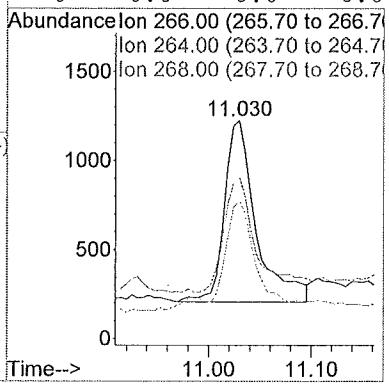


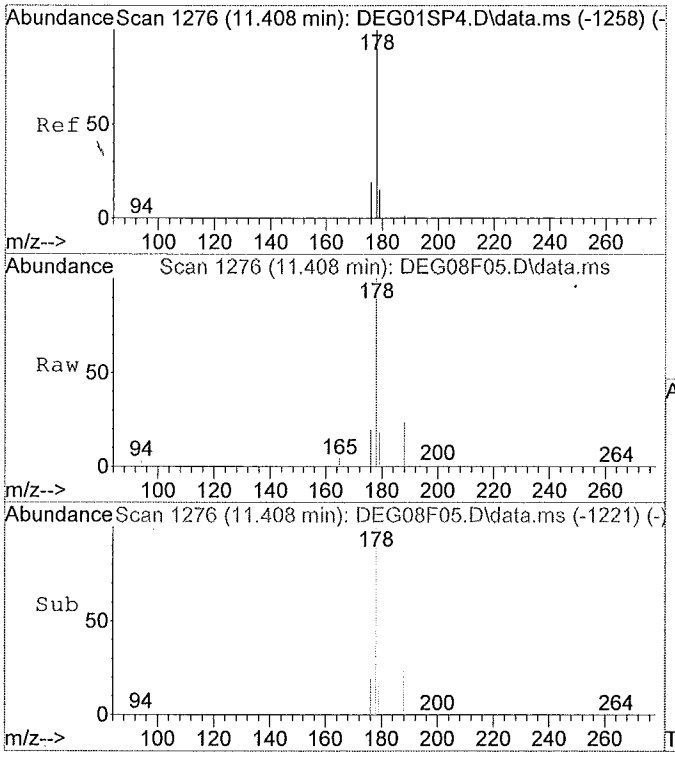


#10
Pentachlorophenol
Concen: 0.05 ug/ml
RT: 11.03 min Scan# 1207
Delta R.T. 0.01 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:266 Resp: 2163

Ion	Ratio	Lower	Upper
266	100		
264	65.5	0.0	0.0#
268	49.1	0.0	0.0#
0	0.0	0.0	0.0

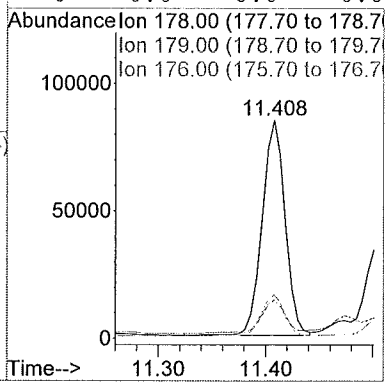


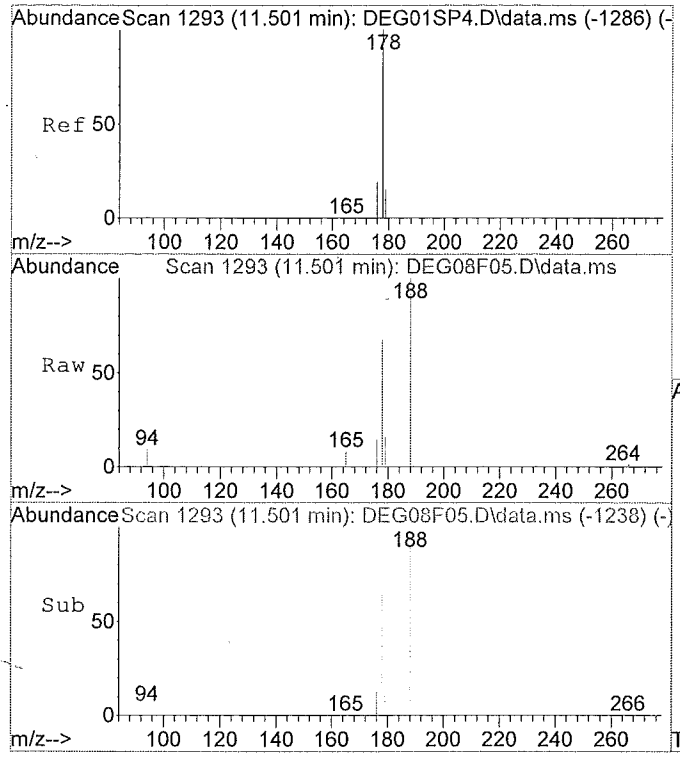


#11
Phenanthrene
Concen: 0.15 ug/ml
RT: 11.41 min Scan# 1276
Delta R.T. 0.00 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:178 Resp: 124945

Ion	Ratio	Lower	Upper
178	100		
179	14.7	11.1	20.5
176	19.7	14.1	26.1
0	0.0	0.0	0.0

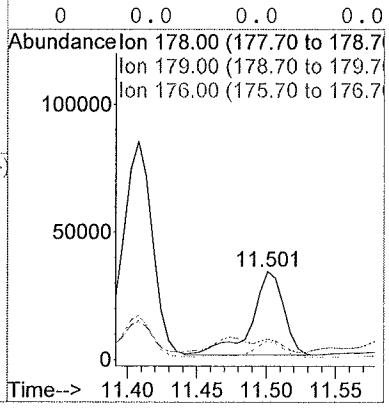


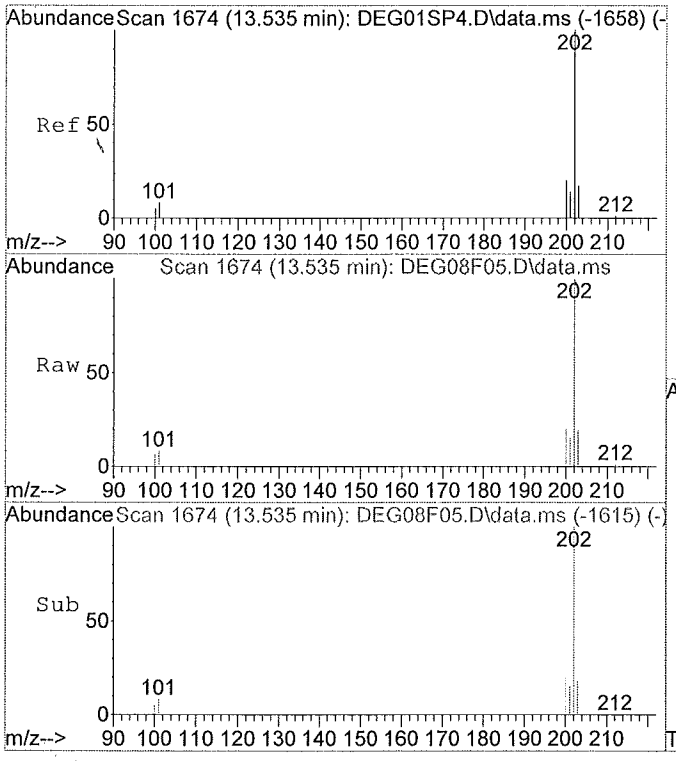


#12
Anthracene
Concen: 0.06 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. 0.00 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:178 Resp: 52270

Ion	Ratio	Lower	Upper
178	100		
179	11.0	11.6	21.6#
176	17.3	13.9	25.7
0	0.0	0.0	0.0

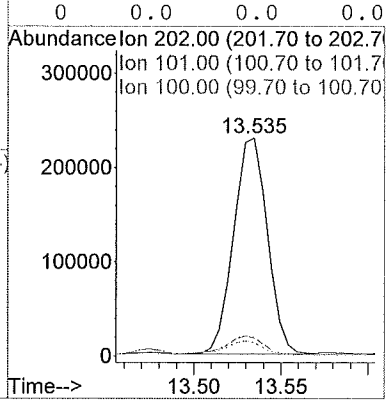


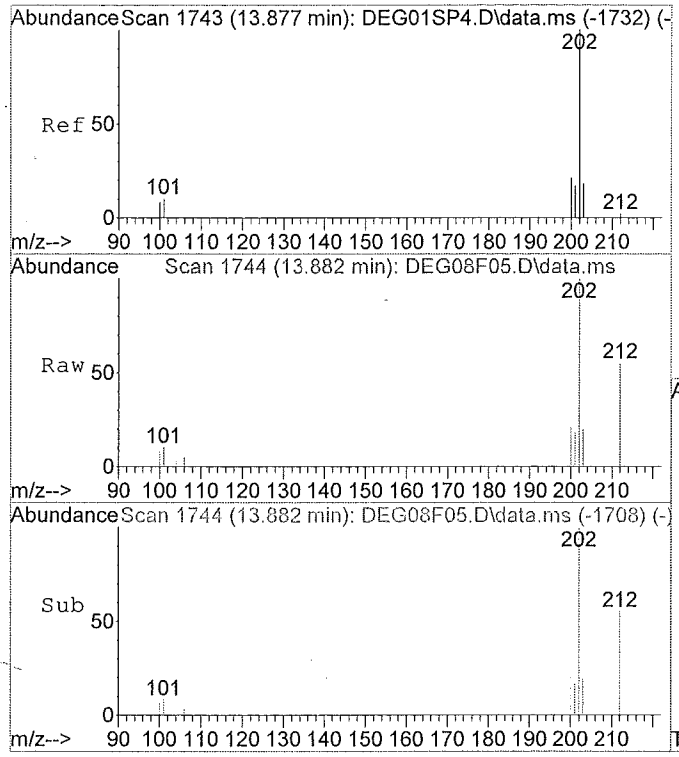


#14
Fluoranthene
Concen: 0.32 ug/ml
RT: 13.53 min Scan# 1674
Delta R.T. 0.00 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:202 Resp: 306894

Ion	Ratio	Lower	Upper
202	100		
101	9.3	9.4	17.6#
100	7.8	0.0	0.0#
0	0.0	0.0	0.0

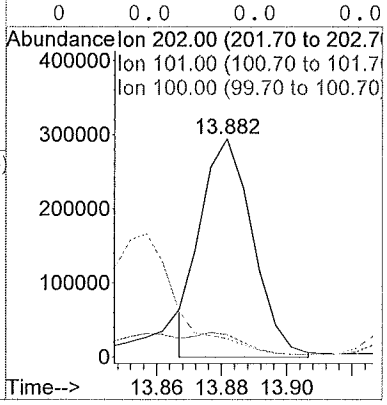


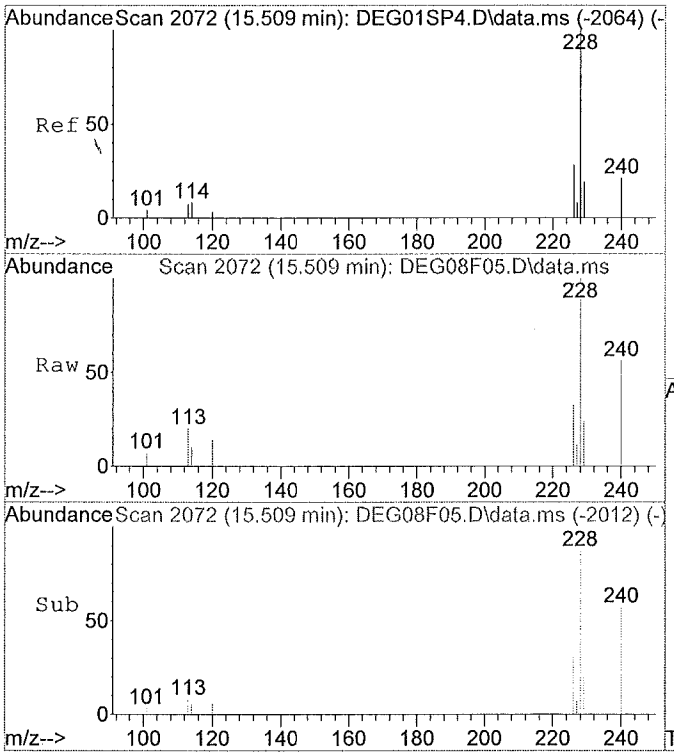


#16
Pyrene
Concen: 0.32 ug/ml m
RT: 13.88 min Scan# 1744
Delta R.T. 0.01 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:202 Resp: 327417

Ion	Ratio	Lower	Upper
202	100		
101	5.7	10.6	19.6#
100	92.4	9.4	17.4#
0	0.0	0.0	0.0

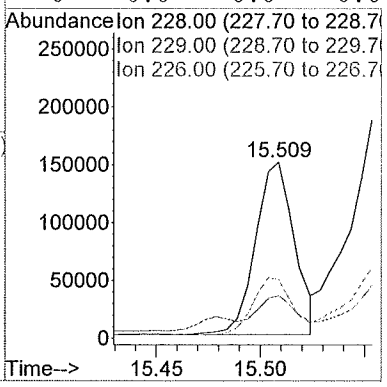


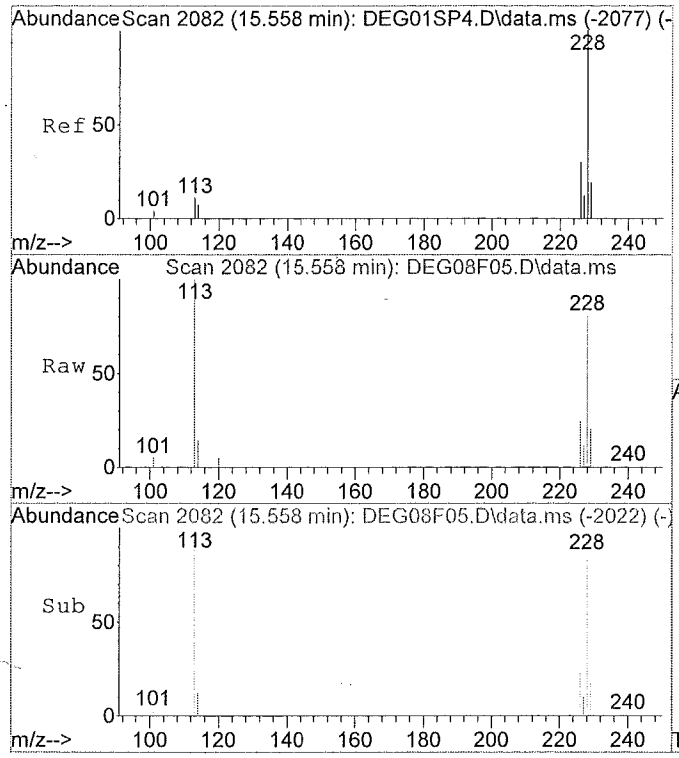


#17
Benzo(a)anthracene
Concen: 0.22 ug/ml
RT: 15.51 min Scan# 2072
Delta R.T. 0.00 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:228 Resp: 193975

Ion	Ratio	Lower	Upper
228	100		
229	19.7	14.5	26.9
226	34.3	18.5	34.3#
0	0.0	0.0	0.0

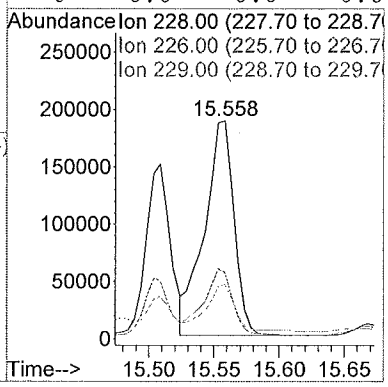


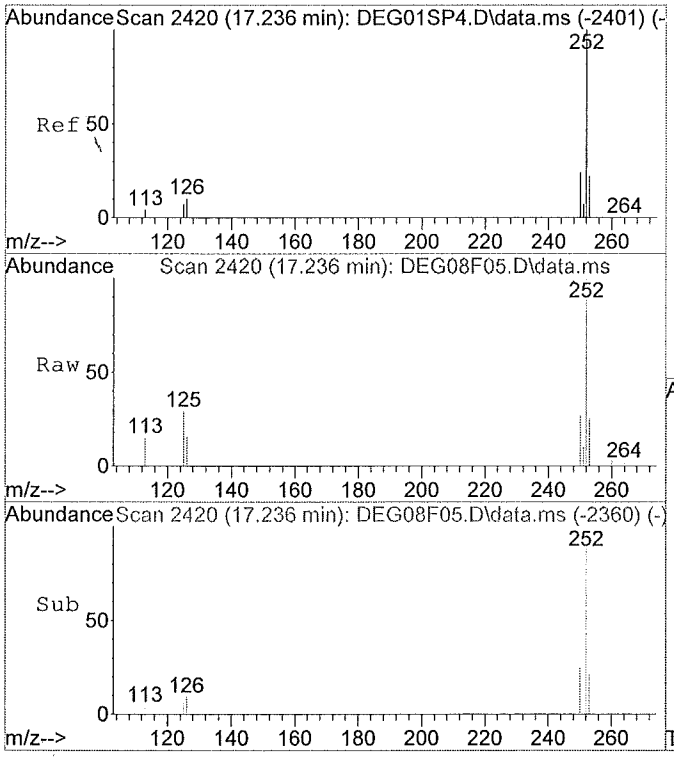


#18
Chrysene
Concen: 0.32 ug/ml
RT: 15.56 min Scan# 2082
Delta R.T. 0.00 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:228 Resp: 294820

Ion	Ratio	Lower	Upper
228	100		
226	31.2	19.7	36.7
229	19.3	14.5	26.9
0	0.0	0.0	0.0

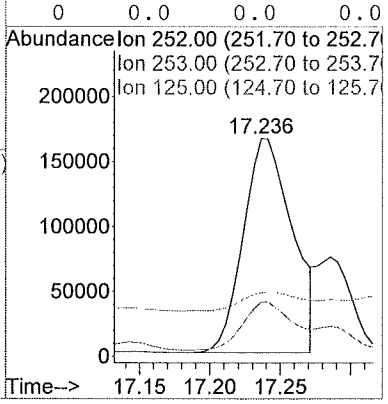


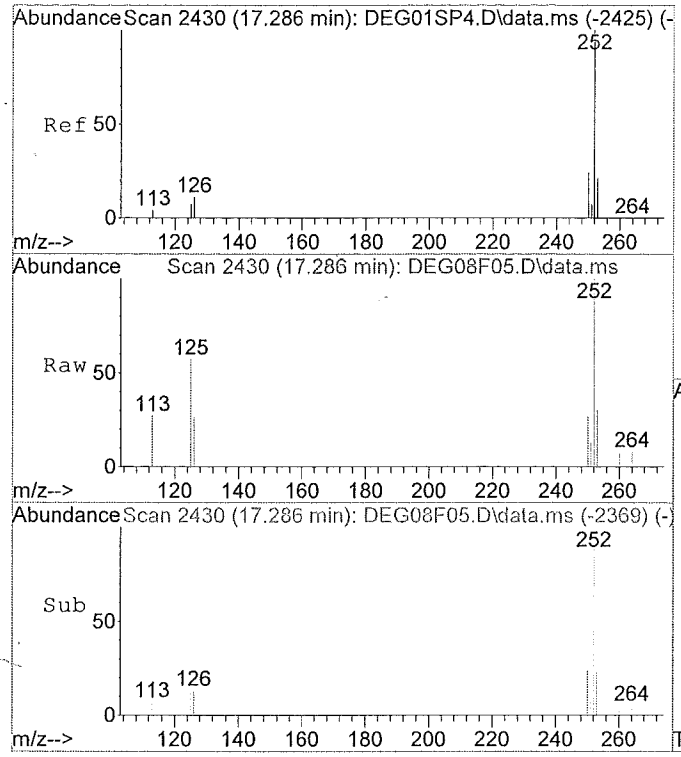


#20
Benzo(b)fluoranthene
Concen: 0.39 ug/ml
RT: 17.24 min Scan# 2420
Delta R.T. 0.01 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:252 Resp: 400919

Ion	Ratio	Lower	Upper
252	100		
253	22.9	15.3	28.3
125	10.5	0.0	0.0#
0	0.0	0.0	0.0

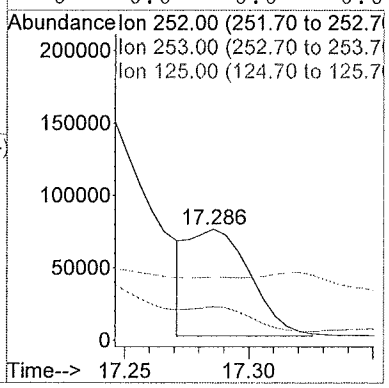


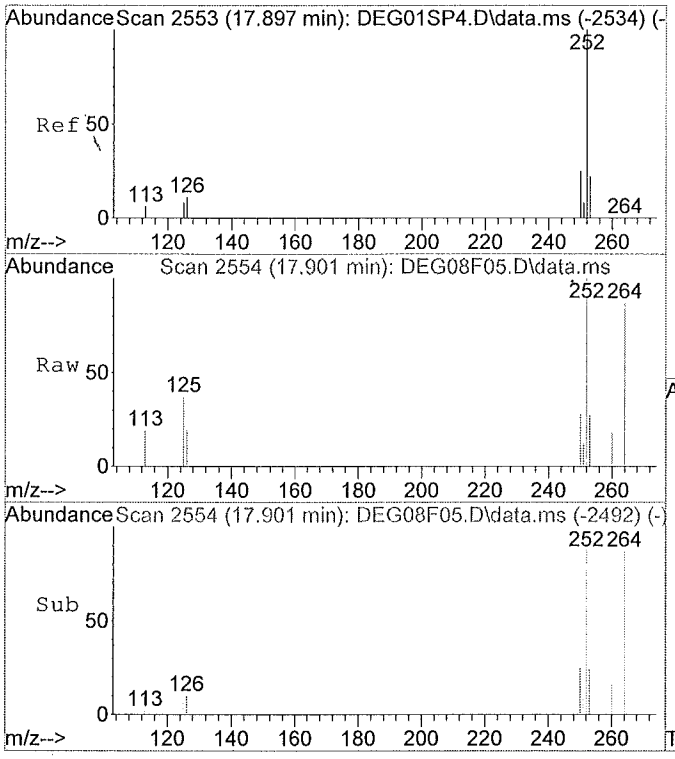


#21
Benzo(k)fluoranthene
Concen: 0.12 ug/ml m
RT: 17.29 min Scan# 2430
Delta R.T. 0.01 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:252 Resp: 128965

Ion	Ratio	Lower	Upper
252	100		
253	71.1	15.0	27.8#
125	32.5	0.0	0.0#
0	0.0	0.0	0.0

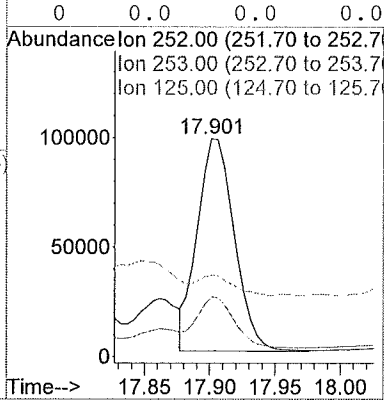


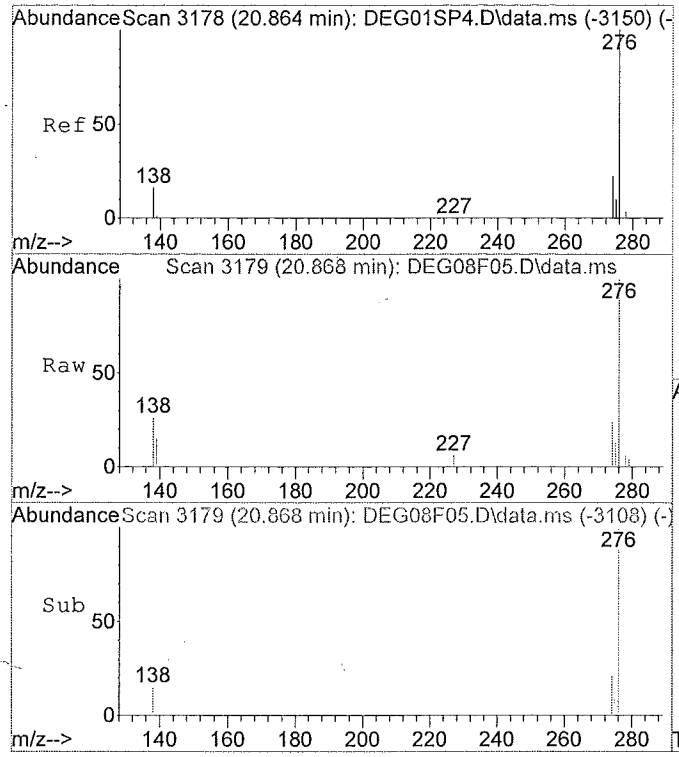


#22
Benzo(a)pyrene
Concen: 0.19 ug/ml
RT: 17.90 min Scan# 2554
Delta R.T. 0.01 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:252 Resp: 192524

Ion	Ratio	Lower	Upper
252	100		
253	24.7	15.0	27.8
125	8.5	0.0	0.0#
0	0.0	0.0	0.0

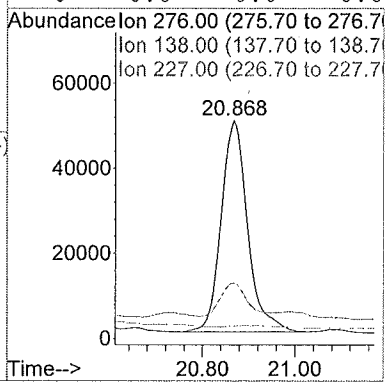


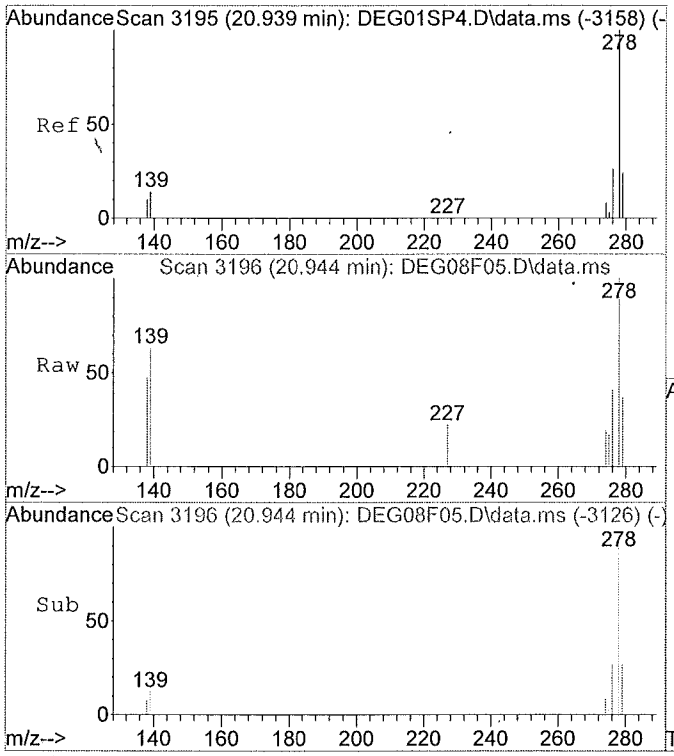


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.23 ug/ml
RT: 20.87 min Scan# 3179
Delta R.T. 0.02 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:276 Resp: 196142

Ion	Ratio	Lower	Upper
276	100		
138	15.1	0.0	0.0#
227	0.3	0.0	0.0#
0	0.0	0.0	0.0

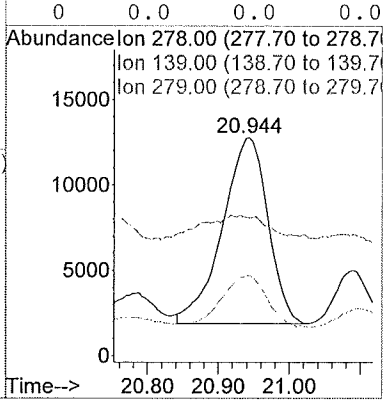


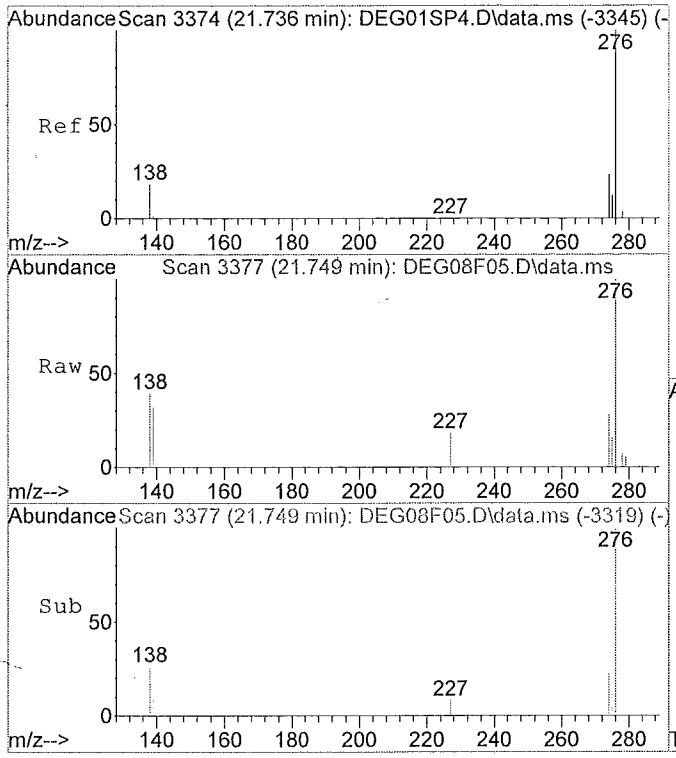


#24
Dibenzo(a,h)anthracene
Concen: 0.05 ug/ml
RT: 20.94 min Scan# 3196
Delta R.T. 0.01 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:278 Resp: 48418

Ion	Ratio	Lower	Upper
278	100		
139	10.4	0.0	0.0#
279	27.4	15.8	29.3
0	0.0	0.0	0.0

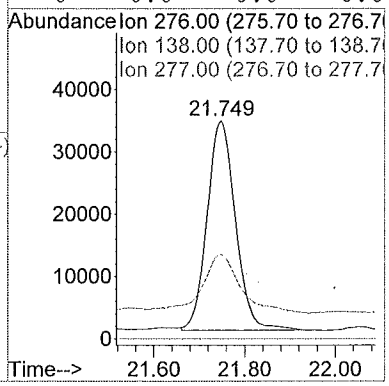




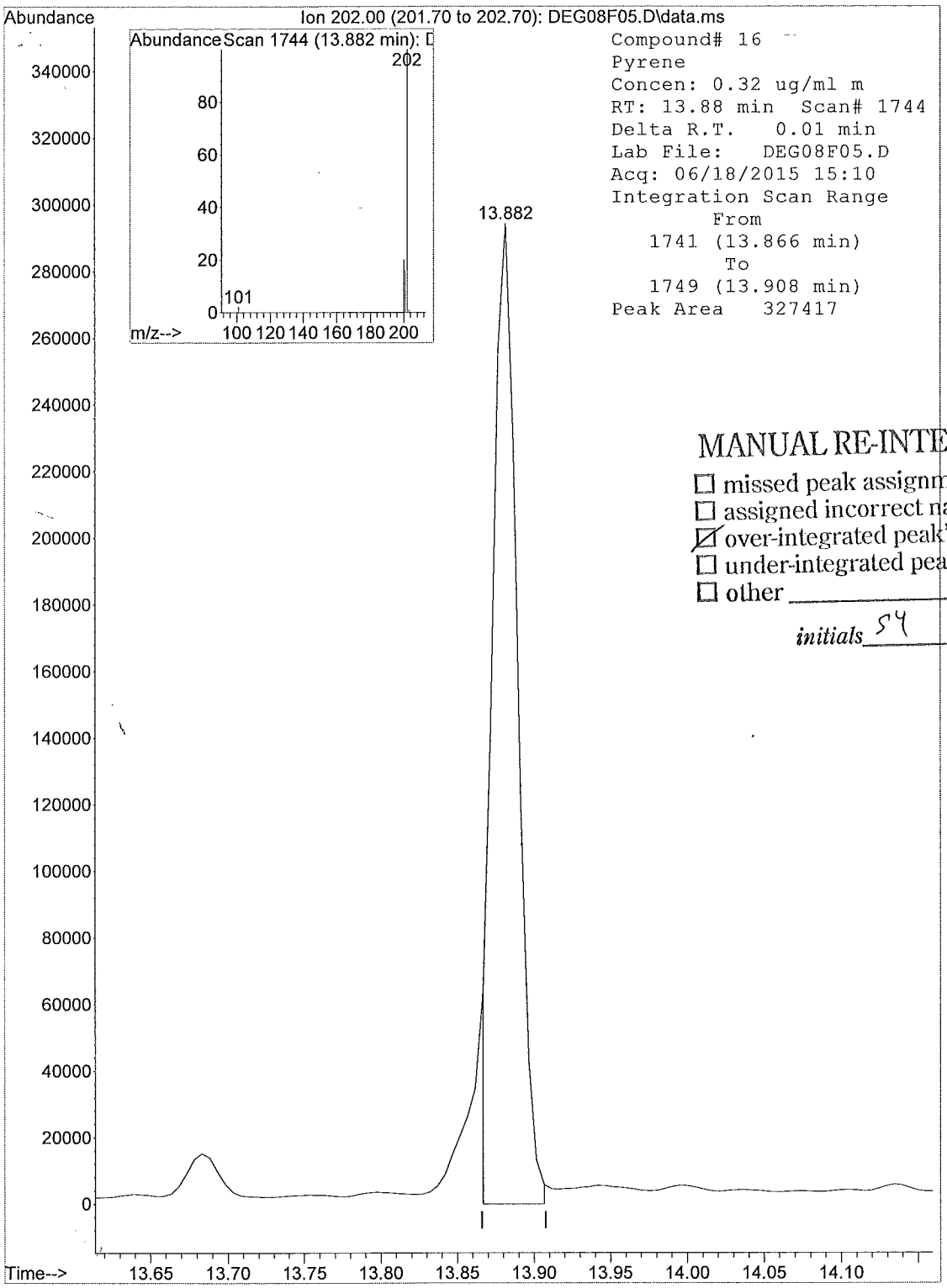
#25
Benzo(g,h,i)perylene
Concen: 0.15 ug/ml
RT: 21.75 min Scan# 3377
Delta R.T. 0.03 min
Lab File: DEG08F05.D
Acq: 06/18/2015 15:10

Tgt Ion:276 Resp: 145527

Ion	Ratio	Lower	Upper
276	100		
138	37.8	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Pyrene

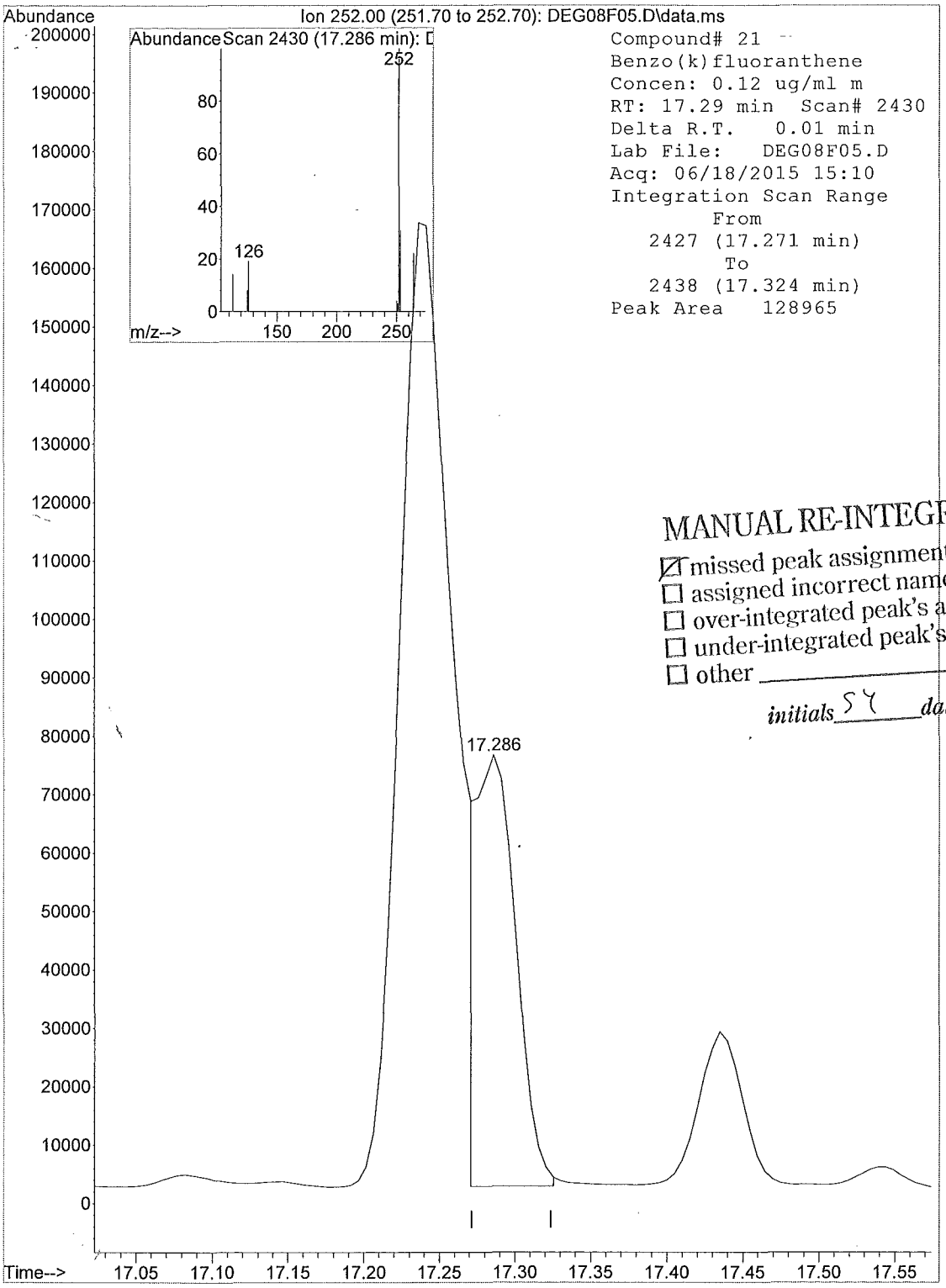


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/19/15

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 6/19/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEG09F06

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

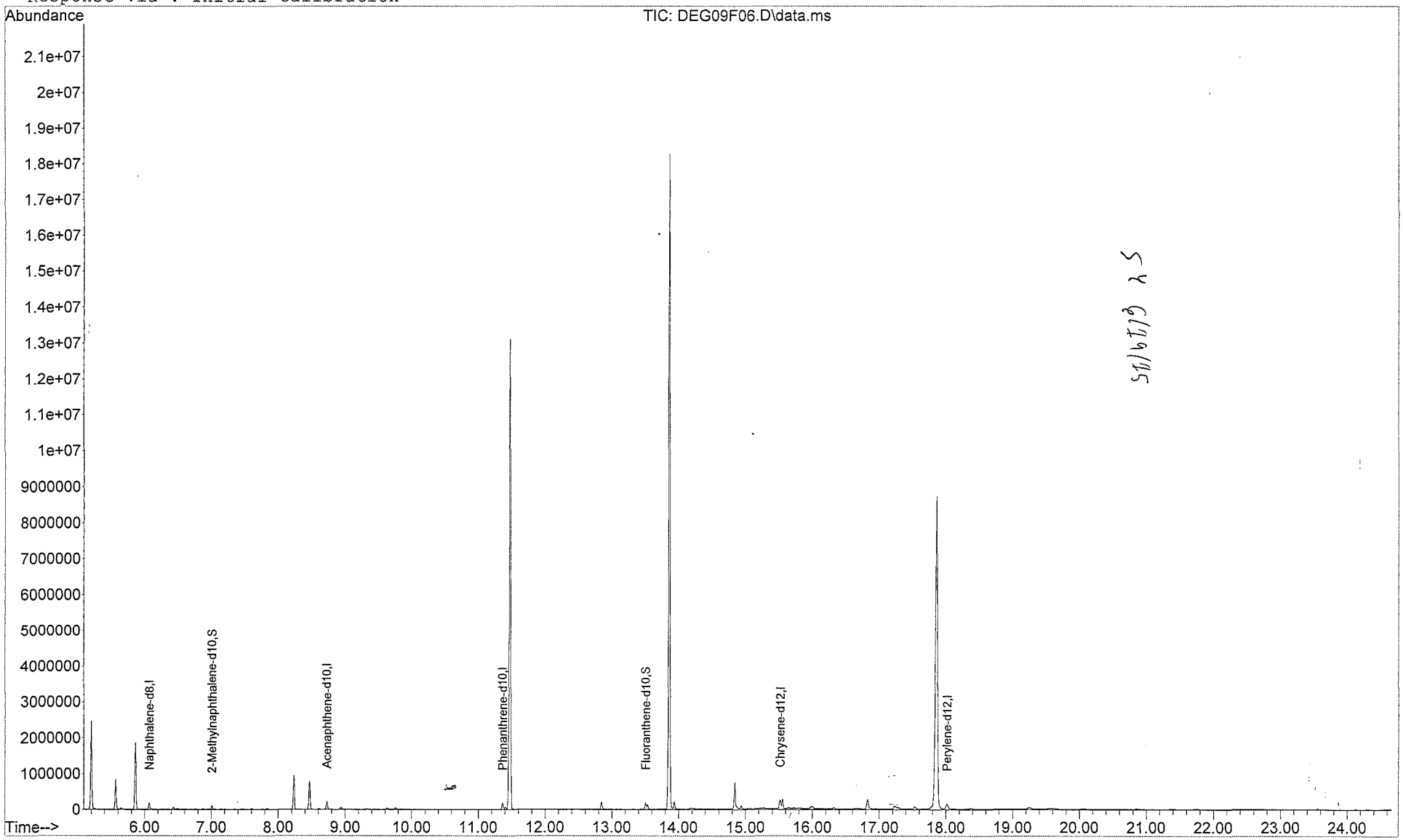
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.86	J
91-57-6	2-Methylnaphthalene	4.0	U
208-96-8	Acenaphthylene	4.0	U
83-32-9	Acenaphthene	4.0	U
86-73-7	Fluorene	4.0	U
87-86-5	Pentachlorophenol	8.2	U
85-01-8	Phenanthrene	3.2	J
120-12-7	Anthracene	4.0	U
206-44-0	Fluoranthene	5.4	
129-00-0	Pyrene	5.7	
56-55-3	Benzo(a)anthracene	3.0	J
218-01-9	Chrysene	5.7	
205-99-2	Benzo(b)fluoranthene	5.5	
207-08-9	Benzo(k)fluoranthene	1.4	J
50-32-8	Benzo(a)pyrene	2.6	J
193-39-5	Indeno(1,2,3-cd)pyrene	3.2	J
53-70-3	Dibenzo(a,h)anthracene	4.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG09F06.D Vial: 8
Acq On : 06/18/2015 15:40 Operator: DJC
Sample : 1515552006 F9M44 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 19 07:30:33 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



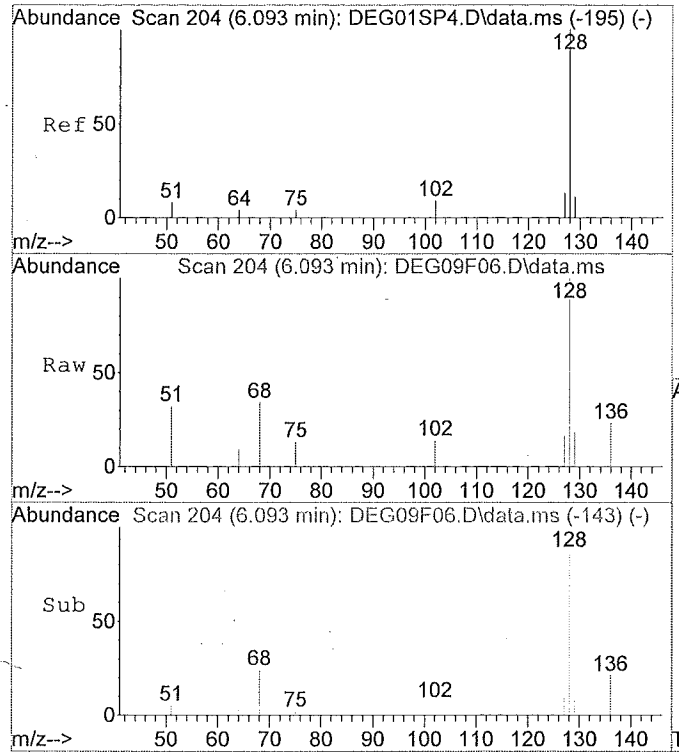
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG09F06.D Vial: 8
Acq On : 06/18/2015 15:40 Operator: DJC
Sample : 1515552006 F9M44 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 07:30:33 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	206566	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	147108	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	241688	0.40 ug/ml	
15) Chrysene-d12	15.52	240	257655	0.40 ug/ml	
19) Perylene-d12	18.02	264	268777	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	105266	0.316ug/mL	
13) Fluoranthene-d10	13.50	212	209752	0.317ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	11354	0.021ug/ml	96
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	11.41	178	53863	0.077ug/ml	97
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	104619	0.132ug/ml	91
16) Pyrene	13.88	202	113720	0.141ug/ml m SY 6/19/15	91
17) Benzo(a)anthracene	15.50	228	51277	0.075ug/ml	91
18) Chrysene	15.55	228	101263	0.139ug/ml	97
20) Benzo(b)fluoranthene	17.23	252	112919	0.135ug/ml	99
21) Benzo(k)fluoranthene	17.28	252	28812	0.033ug/ml m SY 6/19/15	99
22) Benzo(a)pyrene	17.90	252	51625	0.064ug/ml	90
23) Indeno(1,2,3-c,d)pyrene	20.86	276	54179	0.077ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.74	276	37925	0.048ug/ml	62

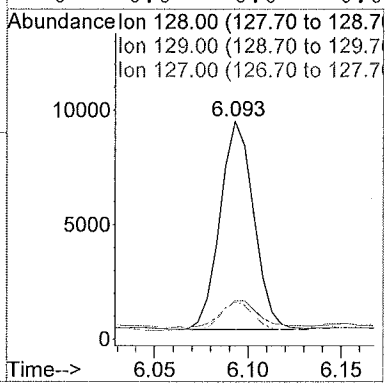
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

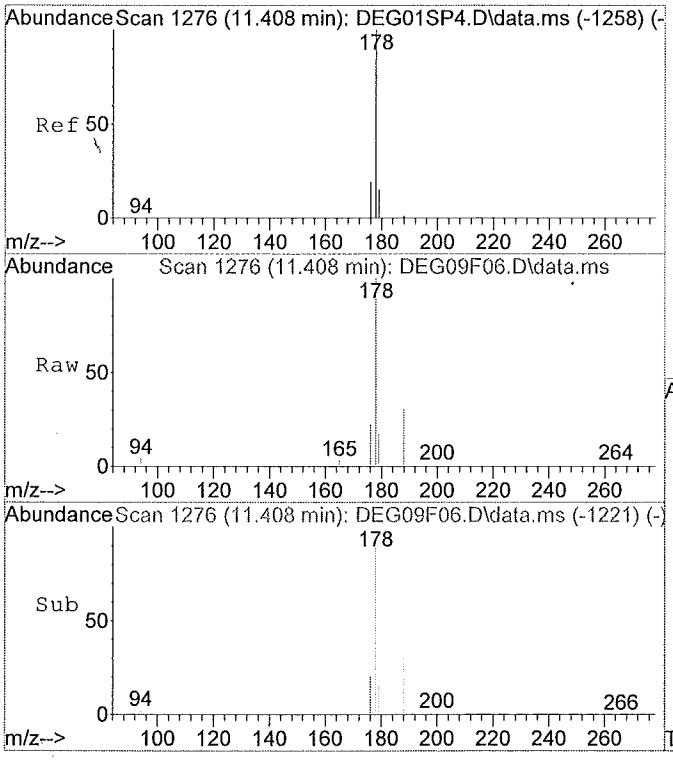


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40

Tgt Ion:128 Resp: 11354

Ion	Ratio	Lower	Upper
128	100		
129	14.5	0.0	0.0#
127	14.1	11.1	20.5
0	0.0	0.0	0.0

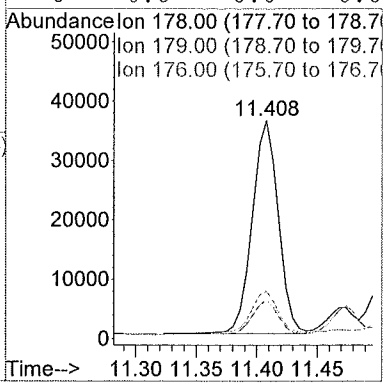


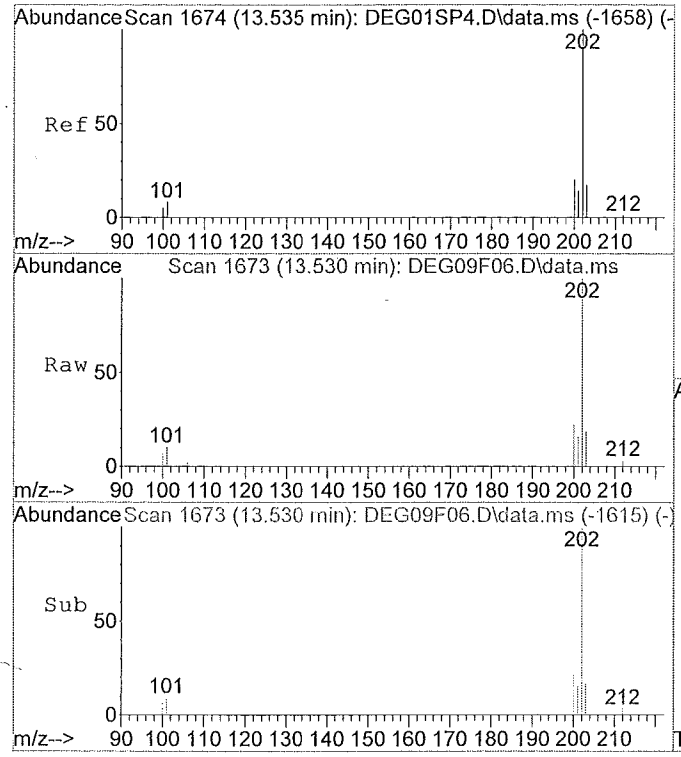


#11
Phenanthrene
Concen: 0.08 ug/ml
RT: 11.41 min Scan# 1276
Delta R.T. 0.00 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40

Tgt Ion:178 Resp: 53863

Ion	Ratio	Lower	Upper
178	100		
179	16.7	11.1	20.5
176	21.5	14.1	26.1
0	0.0	0.0	0.0

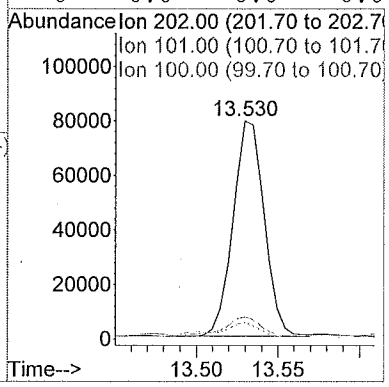


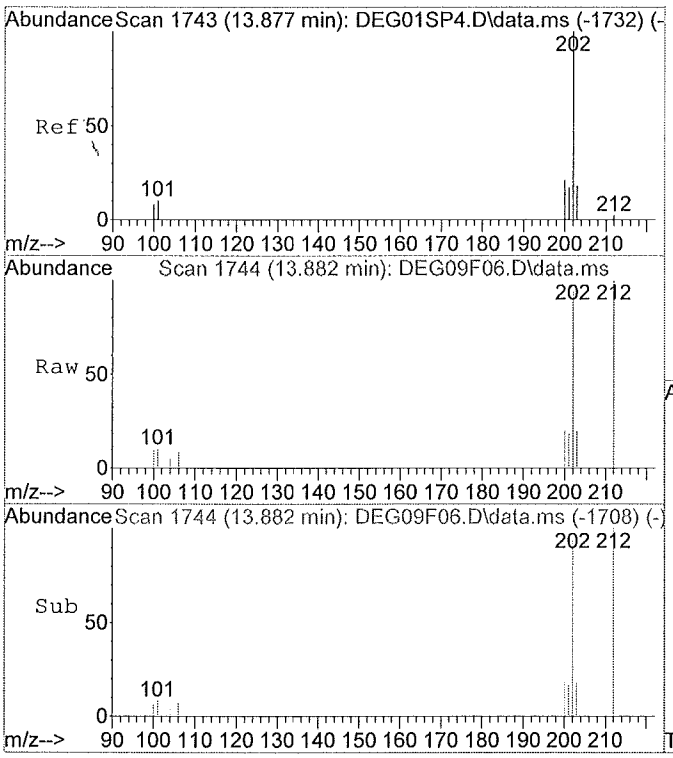


#14
Fluoranthene
Concen: 0.13 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40

Tgt Ion:202 Resp: 104619

Ion	Ratio	Lower	Upper
202	100		
101	9.8	9.4	17.6
100	6.8	0.0	0.0#
0	0.0	0.0	0.0

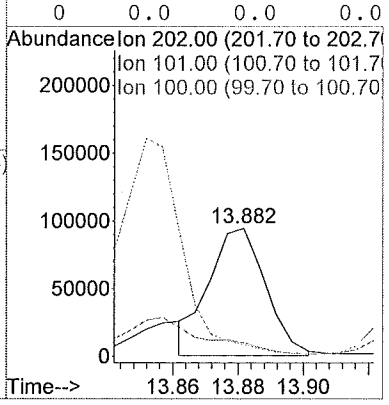


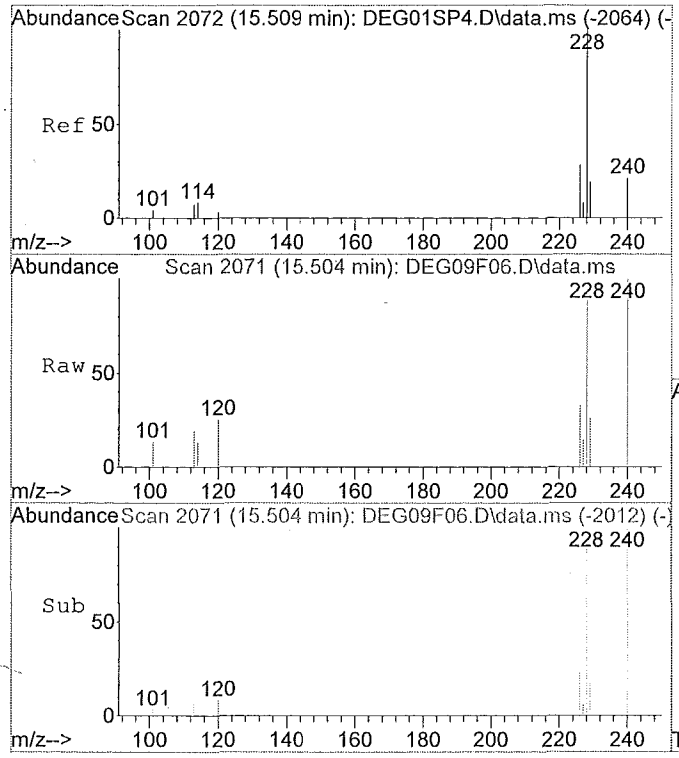


#16
Pyrene
Concen: 0.14 ug/ml m
RT: 13.88 min Scan# 1744
Delta R.T. 0.01 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40

Tgt Ion:202 Resp: 113720

Ion	Ratio	Lower	Upper
202	100		
101	53.9	10.6	19.6#
100	227.9	9.4	17.4#
0	0.0	0.0	0.0

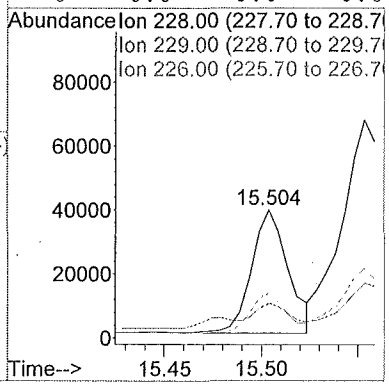


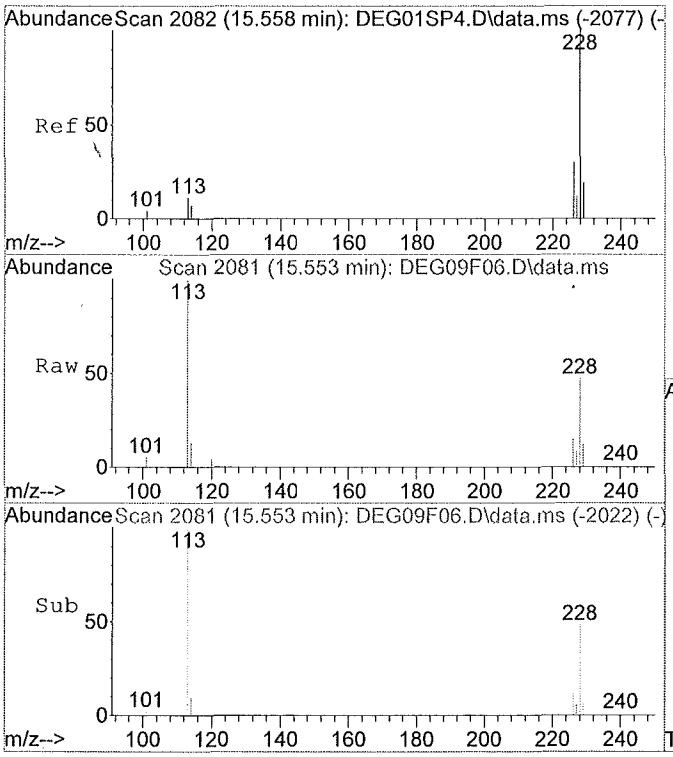


#17
Benzo(a)anthracene
Concen: 0.07 ug/ml
RT: 15.50 min Scan# 2071
Delta R.T. -0.00 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40

Tgt Ion:228 Resp: 51277

Ion	Ratio	Lower	Upper
228	100		
229	19.3	14.5	26.9
226	33.4	18.5	34.3
0	0.0	0.0	0.0

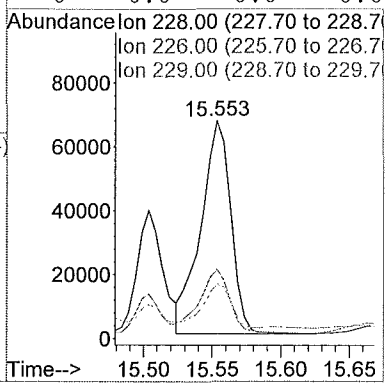


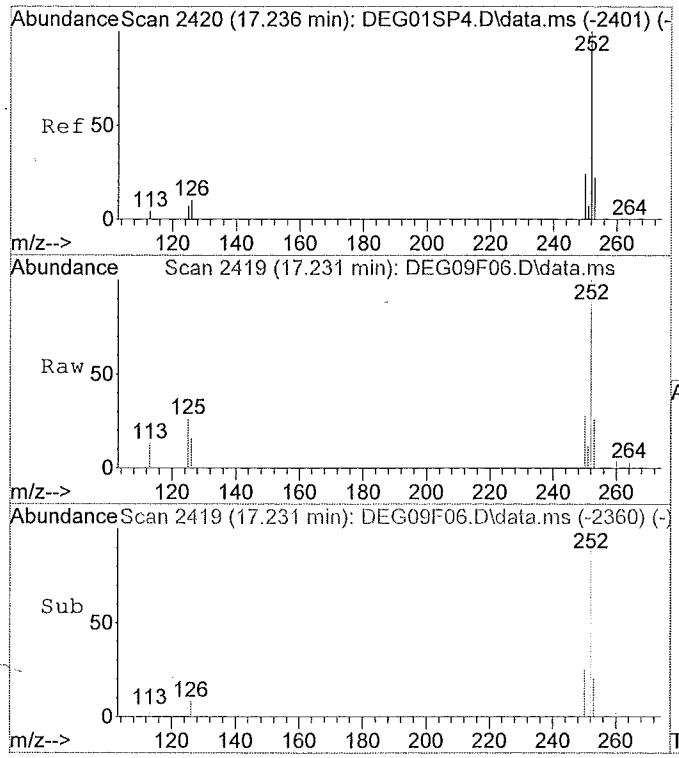


#18
Chrysene
Concen: 0.14 ug/ml
RT: 15.55 min Scan# 2081
Delta R.T. -0.00 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40

Tgt Ion:228 Resp: 101263

Ion	Ratio	Lower	Upper
228	100		
226	30.6	19.7	36.7
229	20.1	14.5	26.9
0	0.0	0.0	0.0

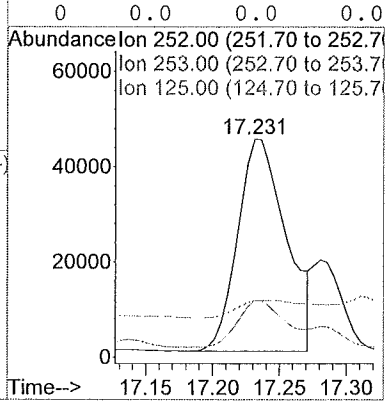


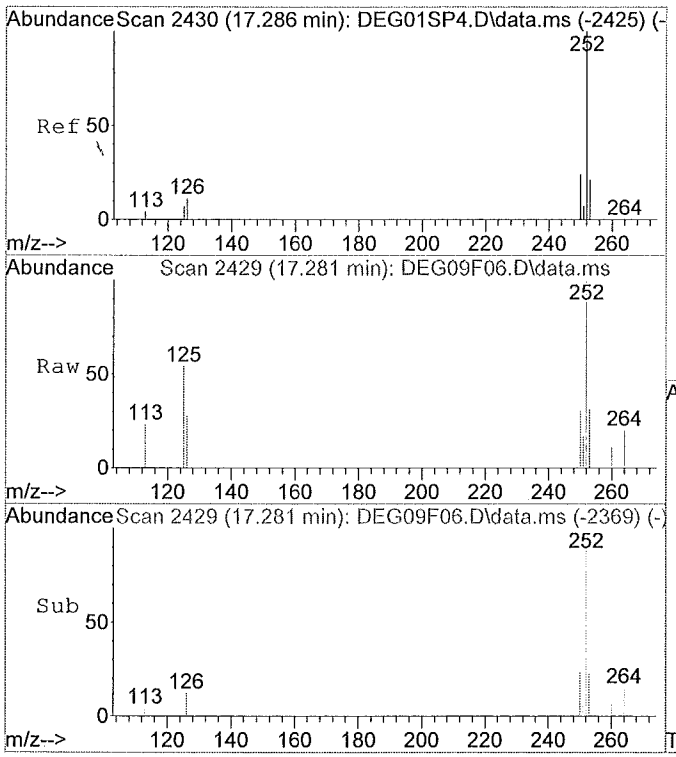


#20
Benzo(b)fluoranthene
Concen: 0.13 ug/ml
RT: 17.23 min Scan# 2419
Delta R.T. 0.00 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40

Tgt Ion:252 Resp: 112919

Ion	Ratio	Lower	Upper
252	100		
253	21.1	15.3	28.3
125	13.9	0.0	0.0#
0	0.0	0.0	0.0

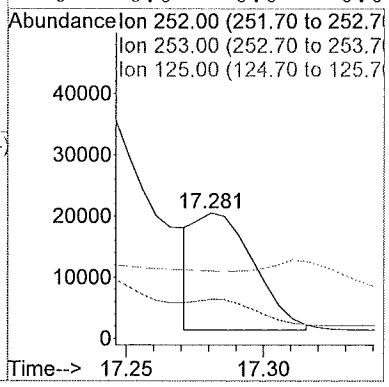


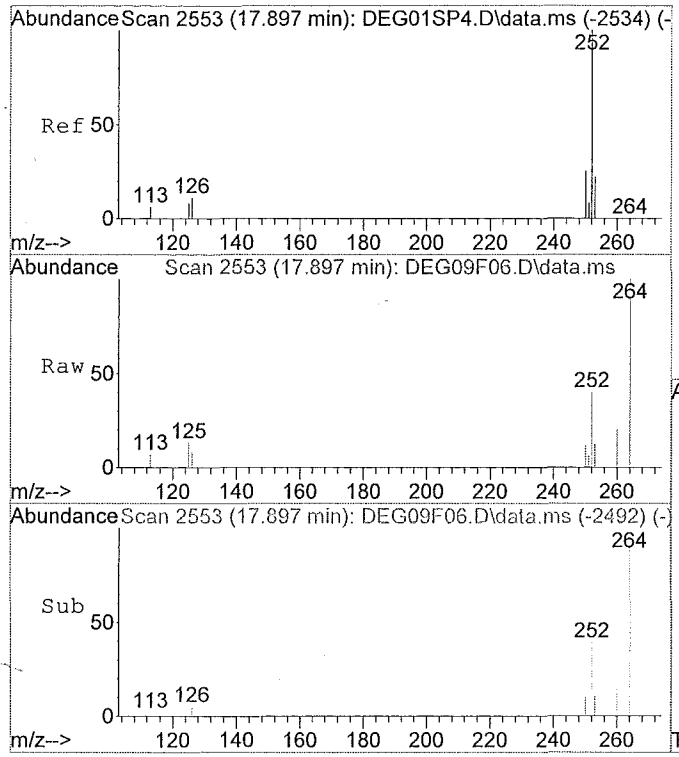


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.28 min Scan# 2429
Delta R.T. 0.00 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40

Tgt Ion:252 Resp: 28812

Ion	Ratio	Lower	Upper
252	100		
253	82.7	15.0	27.8#
125	51.3	0.0	0.0#
0	0.0	0.0	0.0

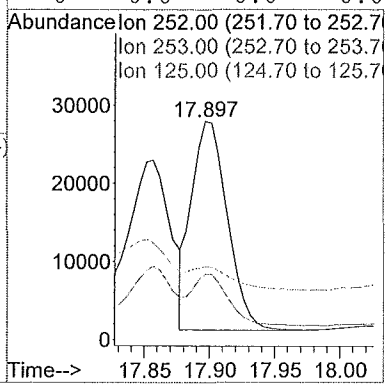


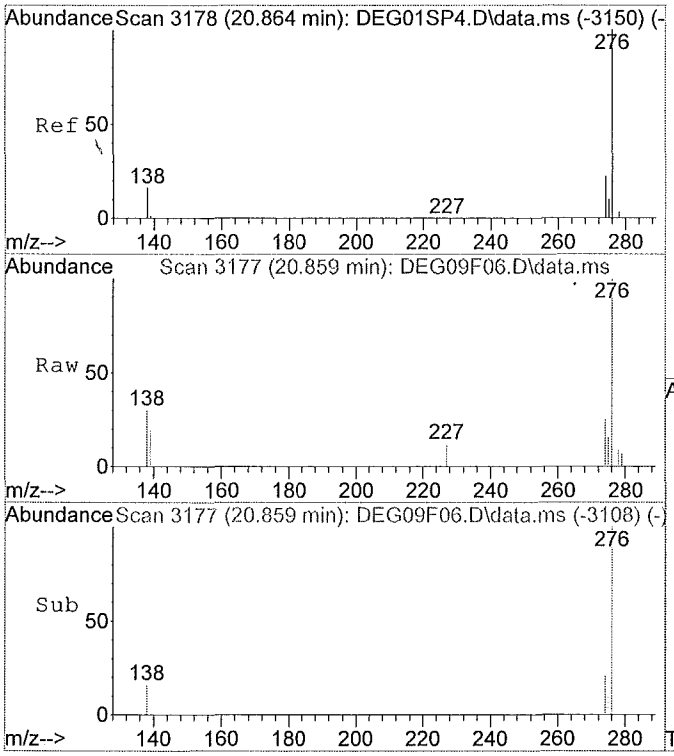


#22
Benzo(a)pyrene
Concen: 0.06 ug/ml
RT: 17.90 min Scan# 2553
Delta R.T. 0.01 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40

Tgt Ion:252 Resp: 51625

Ion	Ratio	Lower	Upper
252	100		
253	26.3	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

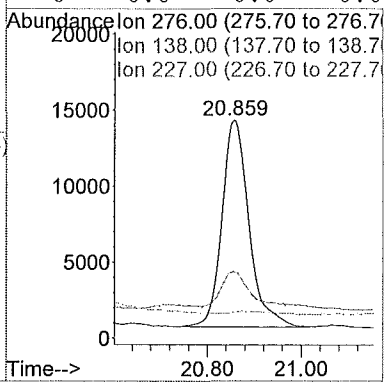


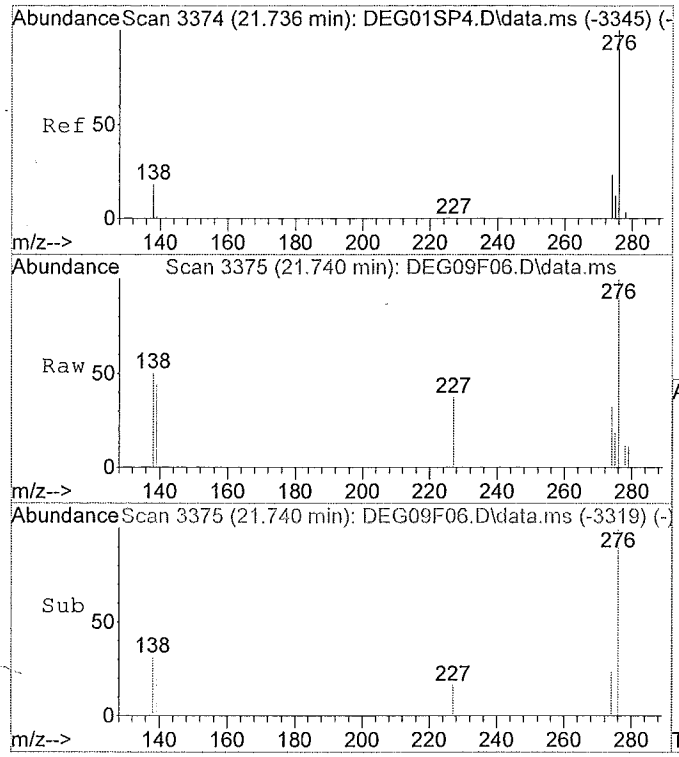


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.08 ug/ml
RT: 20.86 min Scan# 3177
Delta R.T. 0.01 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40

Tgt Ion:276 Resp: 54179

Ion	Ratio	Lower	Upper
276	100		
138	21.3	0.0	0.0#
227	0.4	0.0	0.0#
0	0.0	0.0	0.0

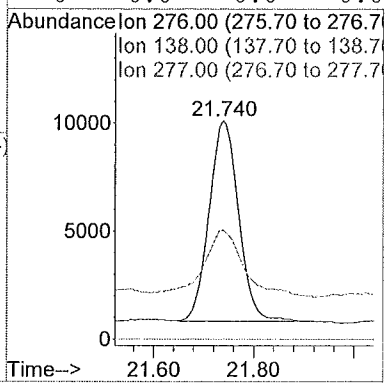




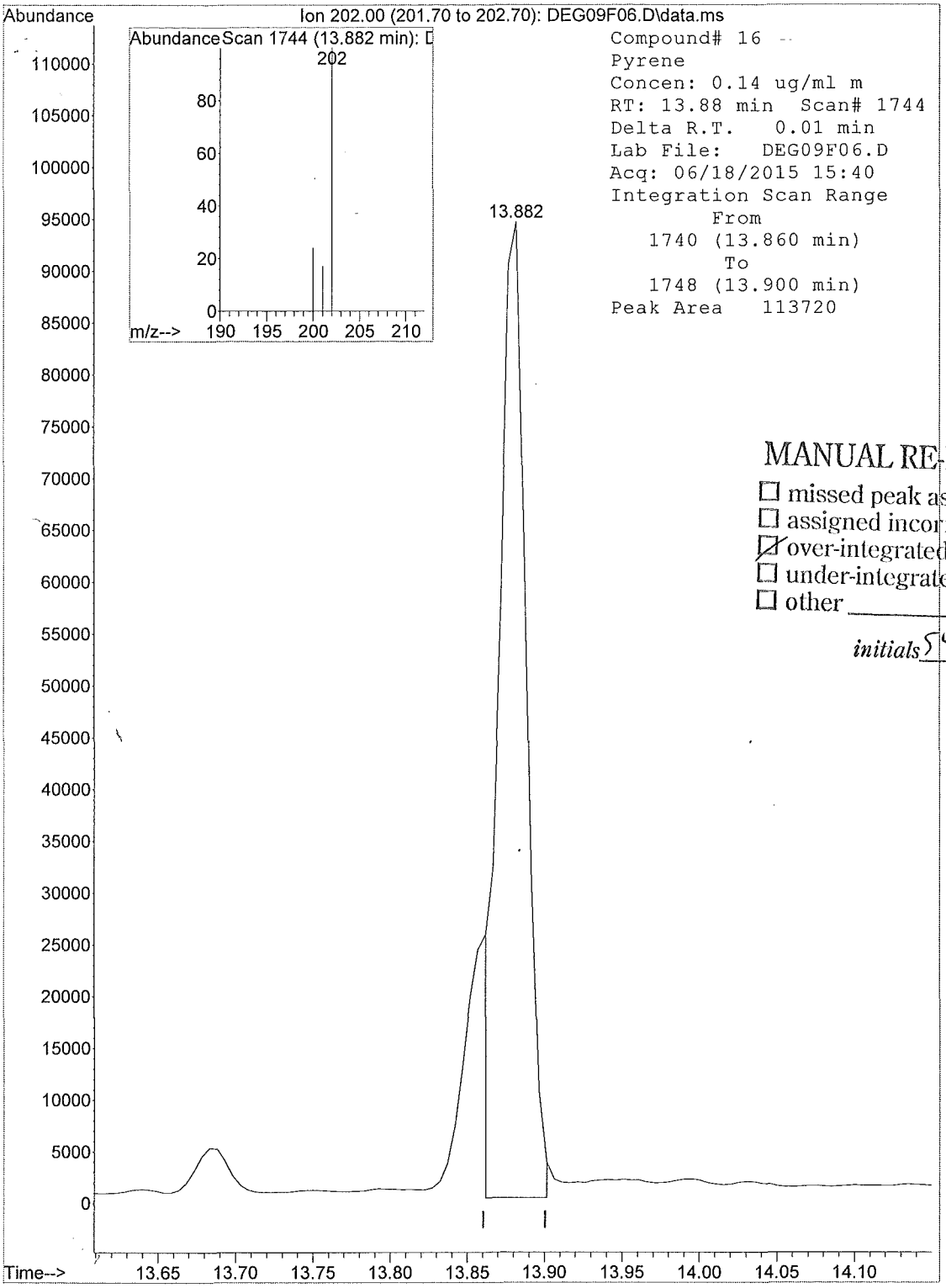
#25
Benzo(g,h,i)perylene
Concen: 0.05 ug/ml
RT: 21.74 min Scan# 3375
Delta R.T. 0.02 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40

Tgt Ion:276 Resp: 37925

Ion	Ratio	Lower	Upper
276	100		
138	36.8	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Pyrene



Compound# 16 --
Pyrene
Concen: 0.14 ug/ml m
RT: 13.88 min Scan# 1744
Delta R.T. 0.01 min
Lab File: DEG09F06.D
Acq: 06/18/2015 15:40
Integration Scan Range
From
1740 (13.860 min)
To
1748 (13.900 min)
Peak Area 113720

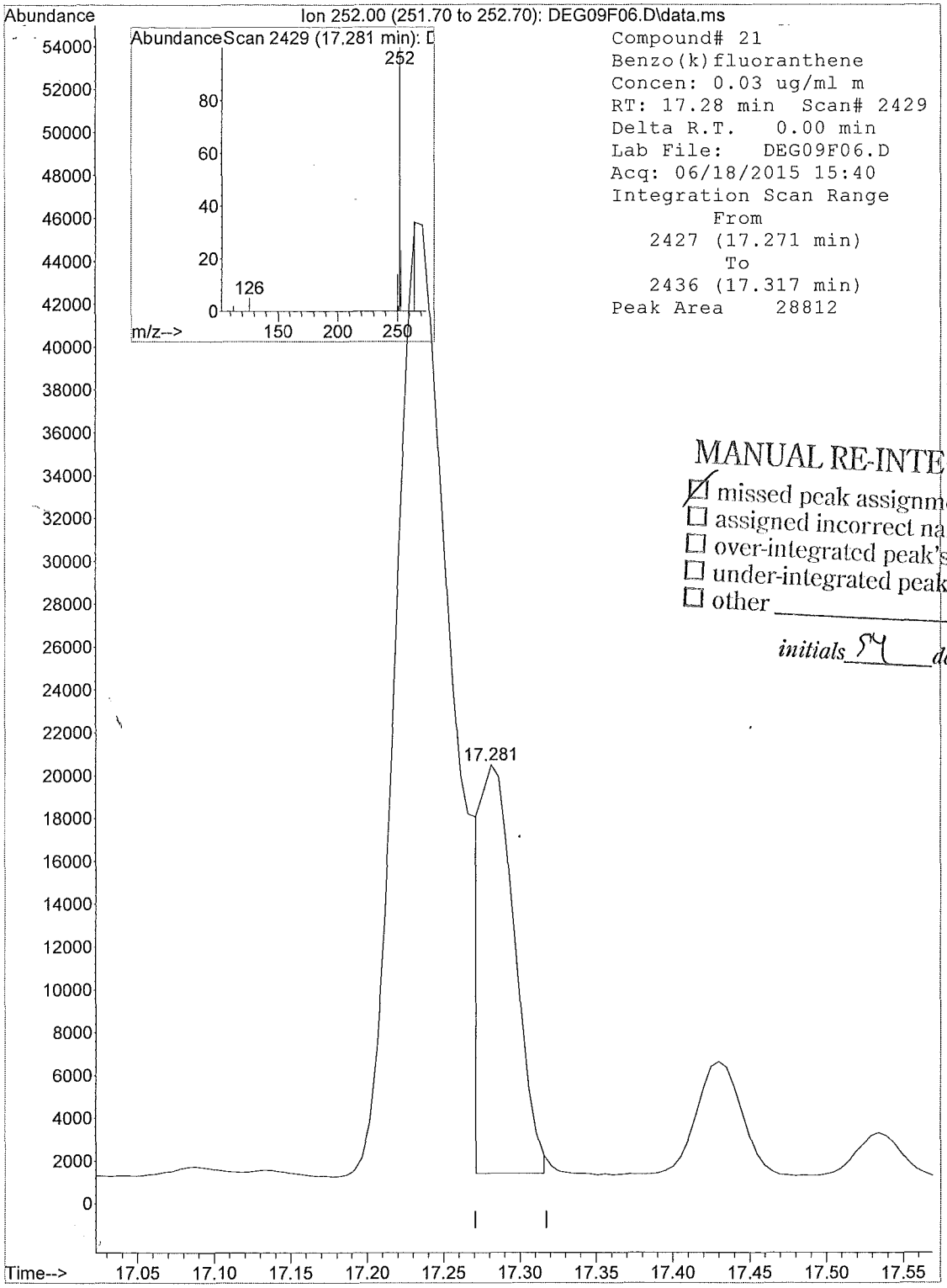
MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/19/15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1515552006 F9M44 . SOIL SIM

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 6/19/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DEG10F07

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/18/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

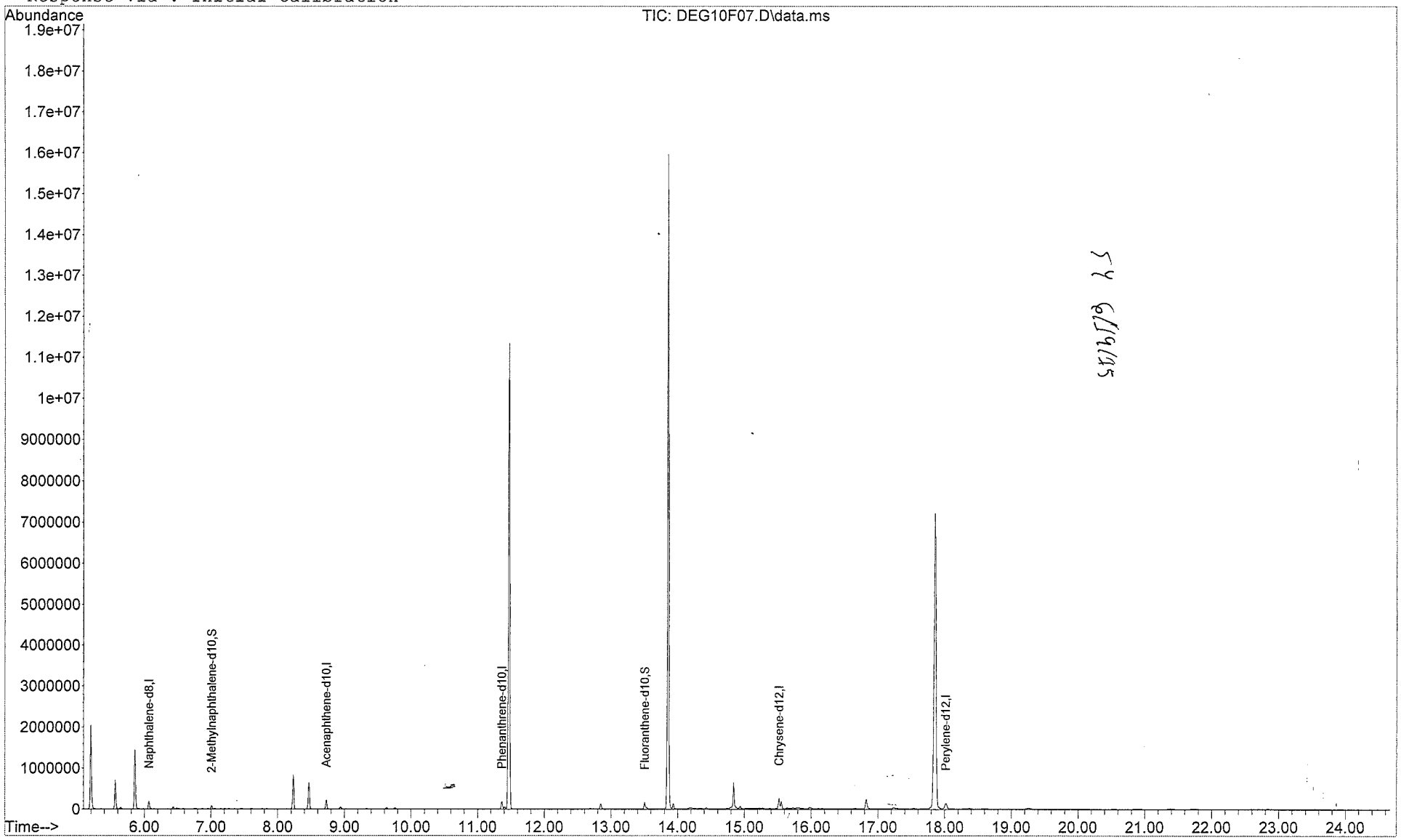
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.79	J
91-57-6	2-Methylnaphthalene	3.9	U
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.9	U
85-01-8	Phenanthrene	2.7	J
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	1.5	J
129-00-0	Pyrene	2.9	J
56-55-3	Benzo(a)anthracene	1.7	J
218-01-9	Chrysene	3.8	J
205-99-2	Benzo(b)fluoranthene	2.0	J
207-08-9	Benzo(k)fluoranthene	3.9	U
50-32-8	Benzo(a)pyrene	1.2	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	J
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	1.1	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG10F07.D Vial: 9
Acq On : 06/18/2015 16:11 Operator: DJC
Sample : 1515552007 F9M45 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 19 07:31:41 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



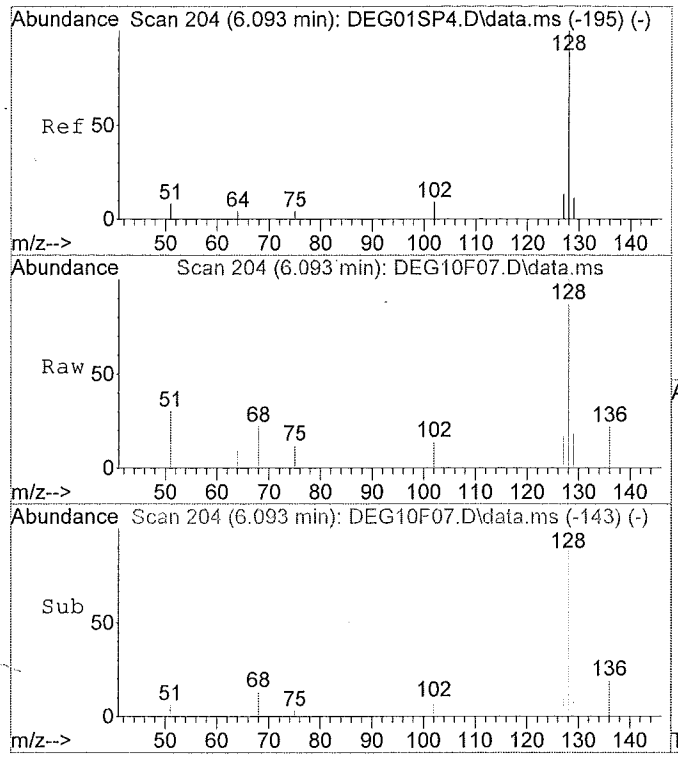
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG10F07.D Vial: 9
Acq On : 06/18/2015 16:11 Operator: DJC
Sample : 1515552007 F9M45 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 07:31:41 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	208929	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	145575	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	246637	0.40 ug/ml	
15) Chrysene-d12	15.52	240	252785	0.40 ug/ml	
19) Perylene-d12	18.02	264	260307	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	87268	0.259ug/mL	
13) Fluoranthene-d10	13.50	212	174019	0.258ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	10930	0.020ug/ml	97
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	11.41	178	49294	0.069ug/ml	98
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	31021	0.038ug/ml	95
16) Pyrene	13.88	202	57658	0.073ug/ml m SY 6/19/15	1
17) Benzo(a)anthracene	15.50	228	29856	0.044ug/ml	93
18) Chrysene	15.55	228	69203	0.097ug/ml	95
20) Benzo(b)fluoranthene	17.24	252	40131	0.049ug/ml	98
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.90	252	24175	0.031ug/ml	91
23) Indeno(1,2,3-c,d)pyrene	20.86	276	19257	0.028ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.74	276	21255	0.028ug/ml	62

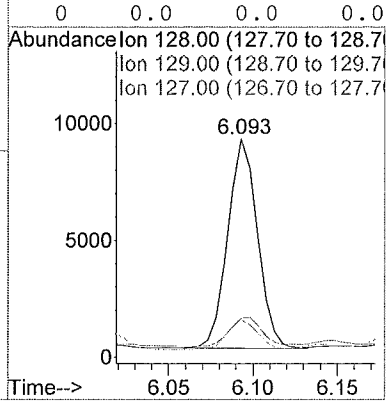
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

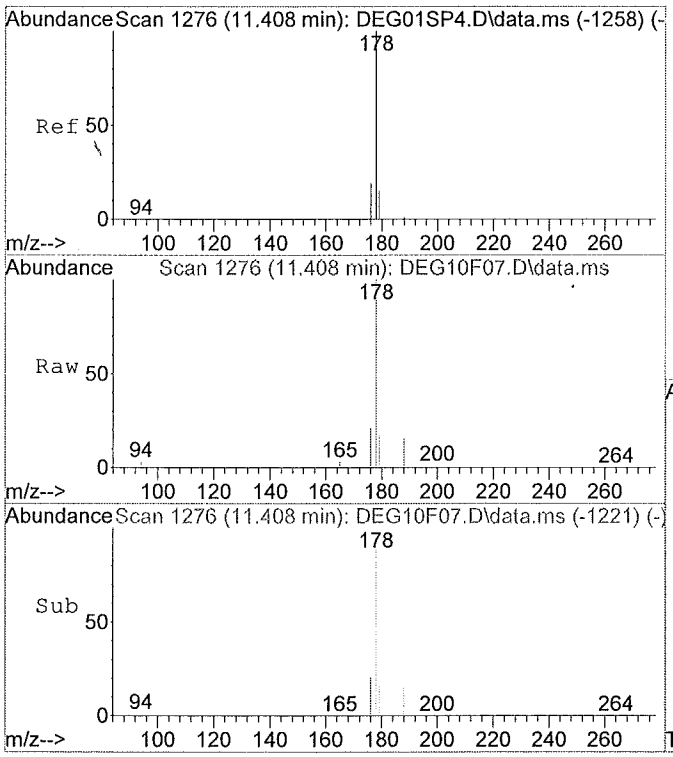


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DEG10F07.D
Acq: 06/18/2015 16:11

Tgt Ion:128 Resp: 10930

Ion	Ratio	Lower	Upper
128	100		
129	15.7	0.0	0.0#
127	14.7	11.1	20.5
0	0.0	0.0	0.0

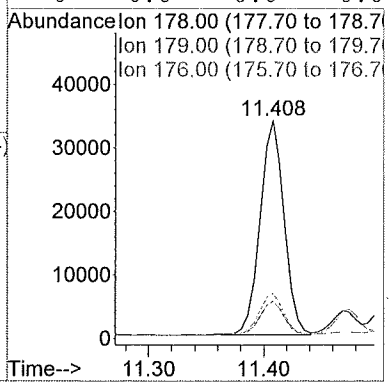


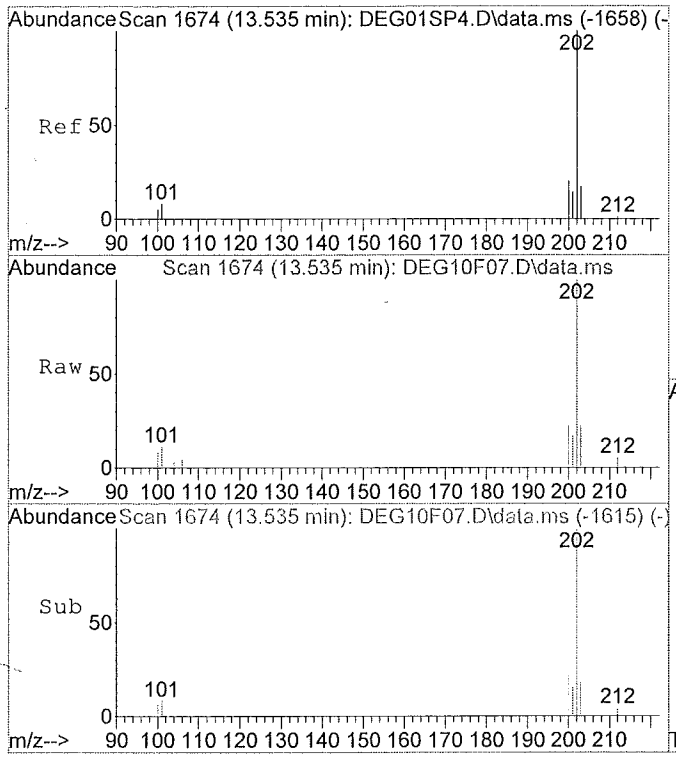


#11
Phenanthrene
Concen: 0.07 ug/ml
RT: 11.41 min Scan# 1276
Delta R.T. 0.00 min
Lab File: DEG10F07.D
Acq: 06/18/2015 16:11

Tgt Ion:178 Resp: 49294

Ion	Ratio	Lower	Upper
178	100		
179	17.1	11.1	20.5
176	20.3	14.1	26.1
0	0.0	0.0	0.0

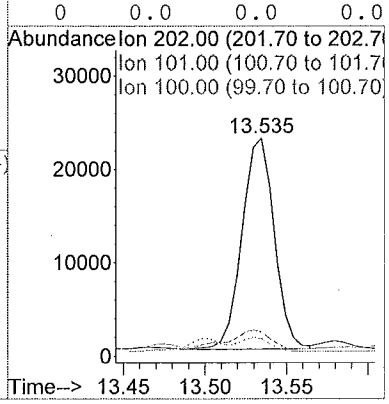


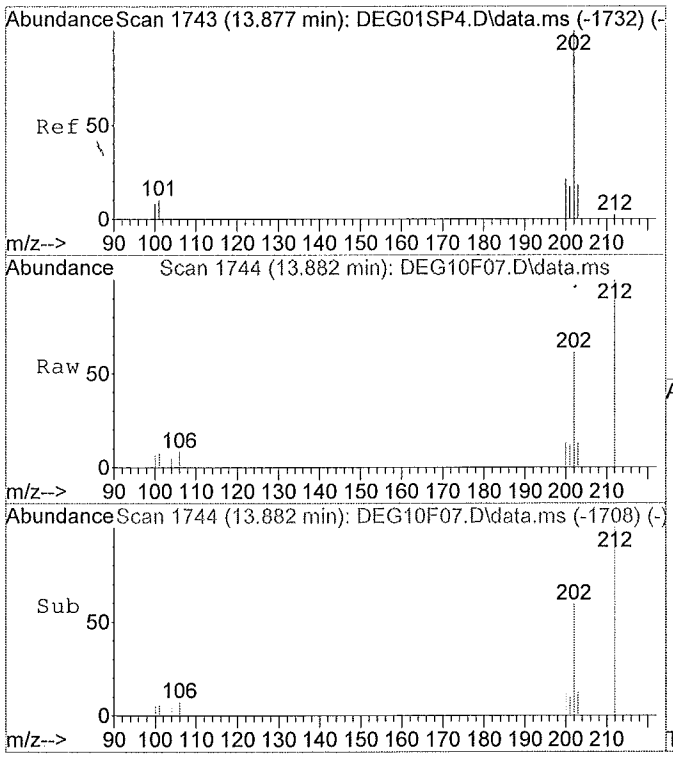


#14
Fluoranthene
Concen: 0.04 ug/ml
RT: 13.53 min Scan# 1674
Delta R.T. 0.00 min
Lab File: DEG10F07.D
Acq: 06/18/2015 16:11

Tgt Ion:202 Resp: 31021

Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.4	17.6
100	6.6	0.0	0.0#
0	0.0	0.0	0.0

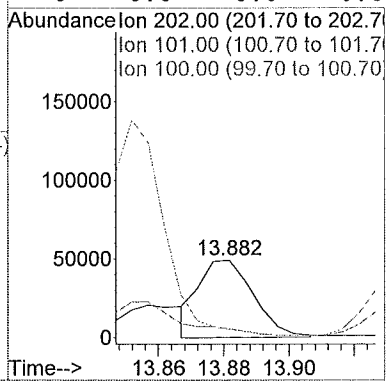


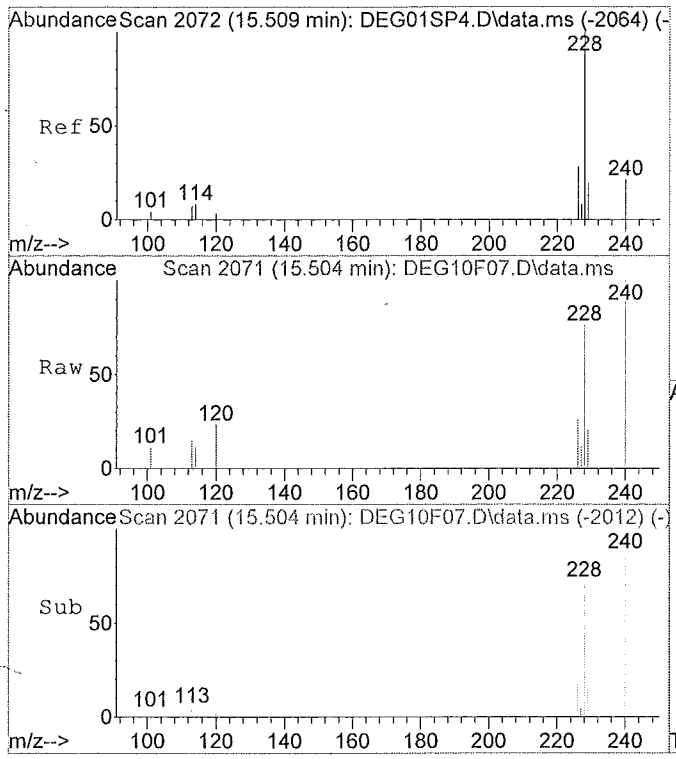


#16
Pyrene
Concen: 0.07 ug/ml m
RT: 13.88 min Scan# 1744
Delta R.T. 0.01 min
Lab File: DEG10F07.D
Acq: 06/18/2015 16:11

Tgt Ion:202 Resp: 57658

Ion	Ratio	Lower	Upper
202	100		
101	76.7	10.6	19.6#
100	361.6	9.4	17.4#
0	0.0	0.0	0.0

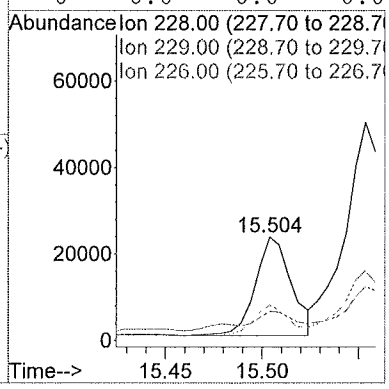


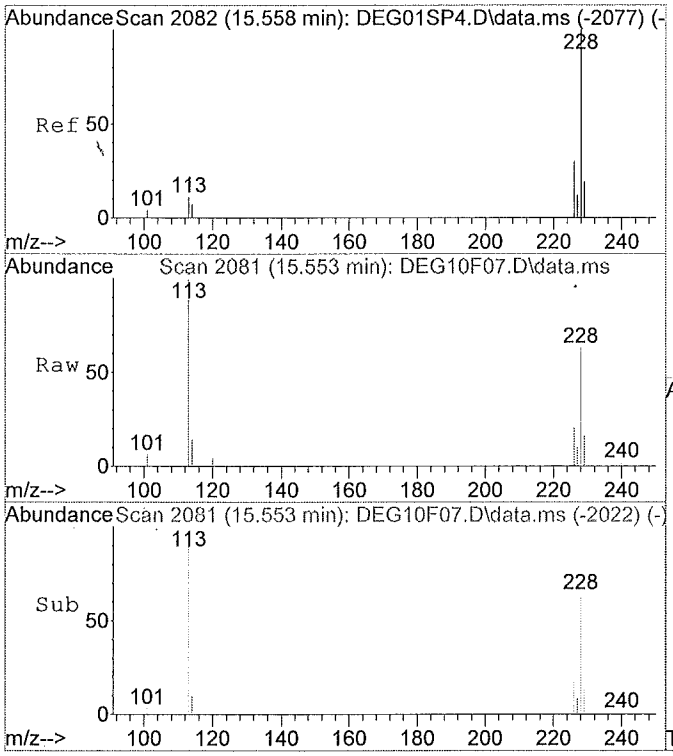


#17
Benzo(a)anthracene
Concen: 0.04 ug/ml
RT: 15.50 min Scan# 2071
Delta R.T. -0.00 min
Lab File: DEG10F07.D
Acq: 06/18/2015 16:11

Tgt Ion:228 Resp: 29856

Ion	Ratio	Lower	Upper
228	100		
229	20.8	14.5	26.9
226	32.3	18.5	34.3
0	0.0	0.0	0.0

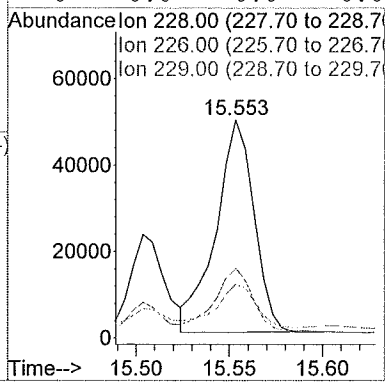


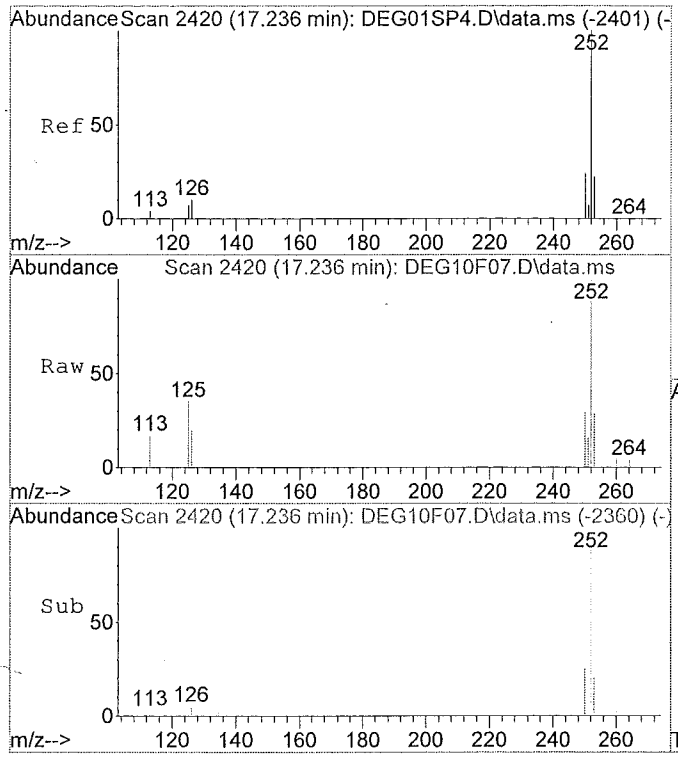


#18
Chrysene
Concen: 0.10 ug/ml
RT: 15.55 min Scan# 2081
Delta R.T. -0.00 min
Lab File: DEG10F07.D
Acq: 06/18/2015 16:11

Tgt Ion:228 Resp: 69203

Ion	Ratio	Lower	Upper
228	100		
226	32.3	19.7	36.7
229	20.9	14.5	26.9
0	0.0	0.0	0.0

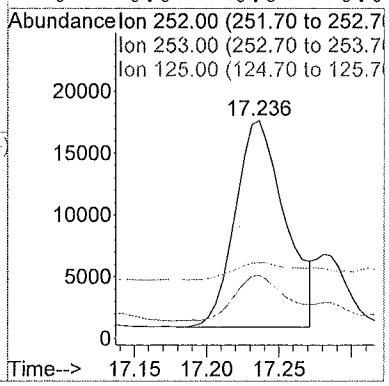


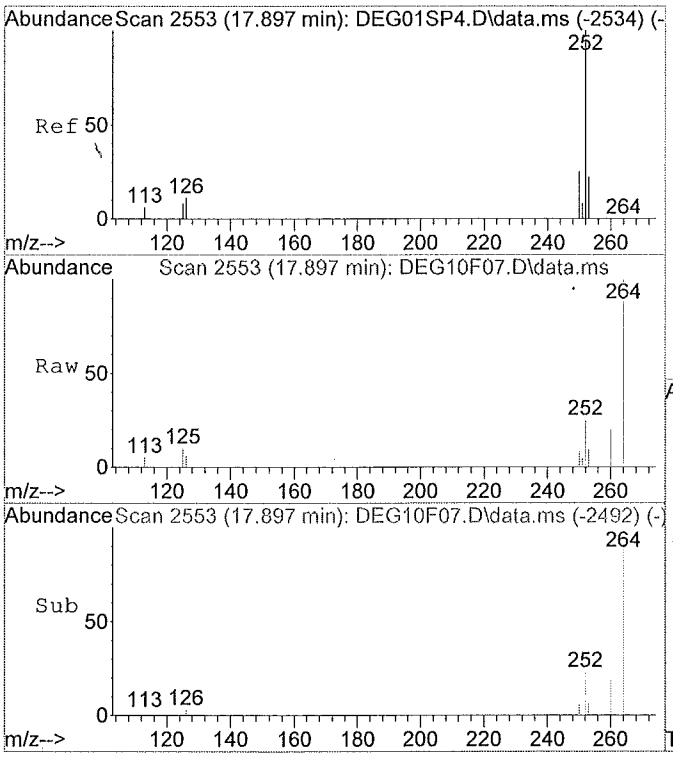


#20
Benzo(b)fluoranthene
Concen: 0.05 ug/ml
RT: 17.24 min Scan# 2420
Delta R.T. 0.01 min
Lab File: DEG10F07.D
Acq: 06/18/2015 16:11

Tgt Ion:252 Resp: 40131

Ion	Ratio	Lower	Upper
252	100		
253	22.7	15.3	28.3
125	13.1	0.0	0.0#
0	0.0	0.0	0.0

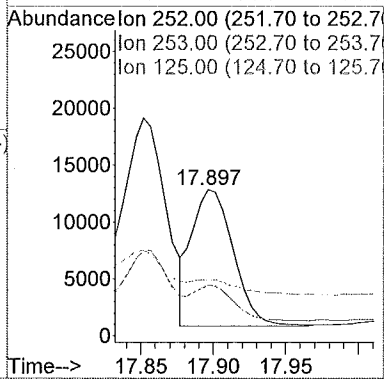


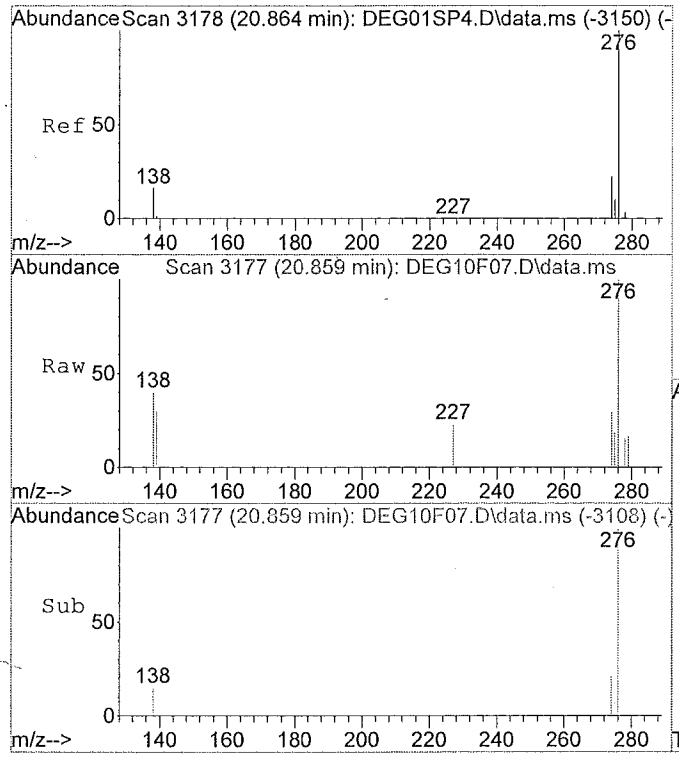


#22
Benzo(a)pyrene
Concen: 0.03 ug/ml
RT: 17.90 min Scan# 2553
Delta R.T. 0.01 min
Lab File: DEG10F07.D
Acq: 06/18/2015 16:11

Tgt Ion:252 Resp: 24175

Ion	Ratio	Lower	Upper
252	100		
253	25.6	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

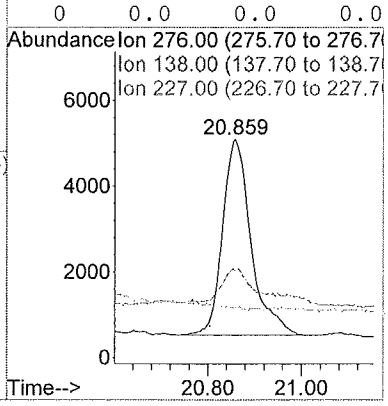


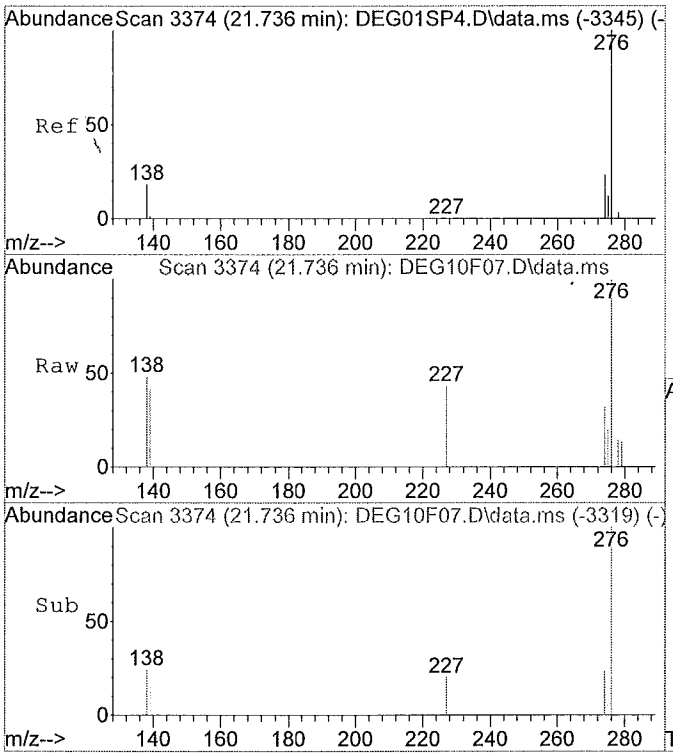


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.03 ug/ml
RT: 20.86 min Scan# 3177
Delta R.T. 0.01 min
Lab File: DEG10F07.D
Acq: 06/18/2015 16:11

Tgt Ion:276 Resp: 19257

Ion	Ratio	Lower	Upper
276	100		
138	15.6	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

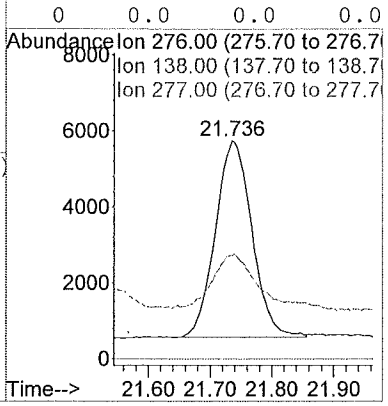




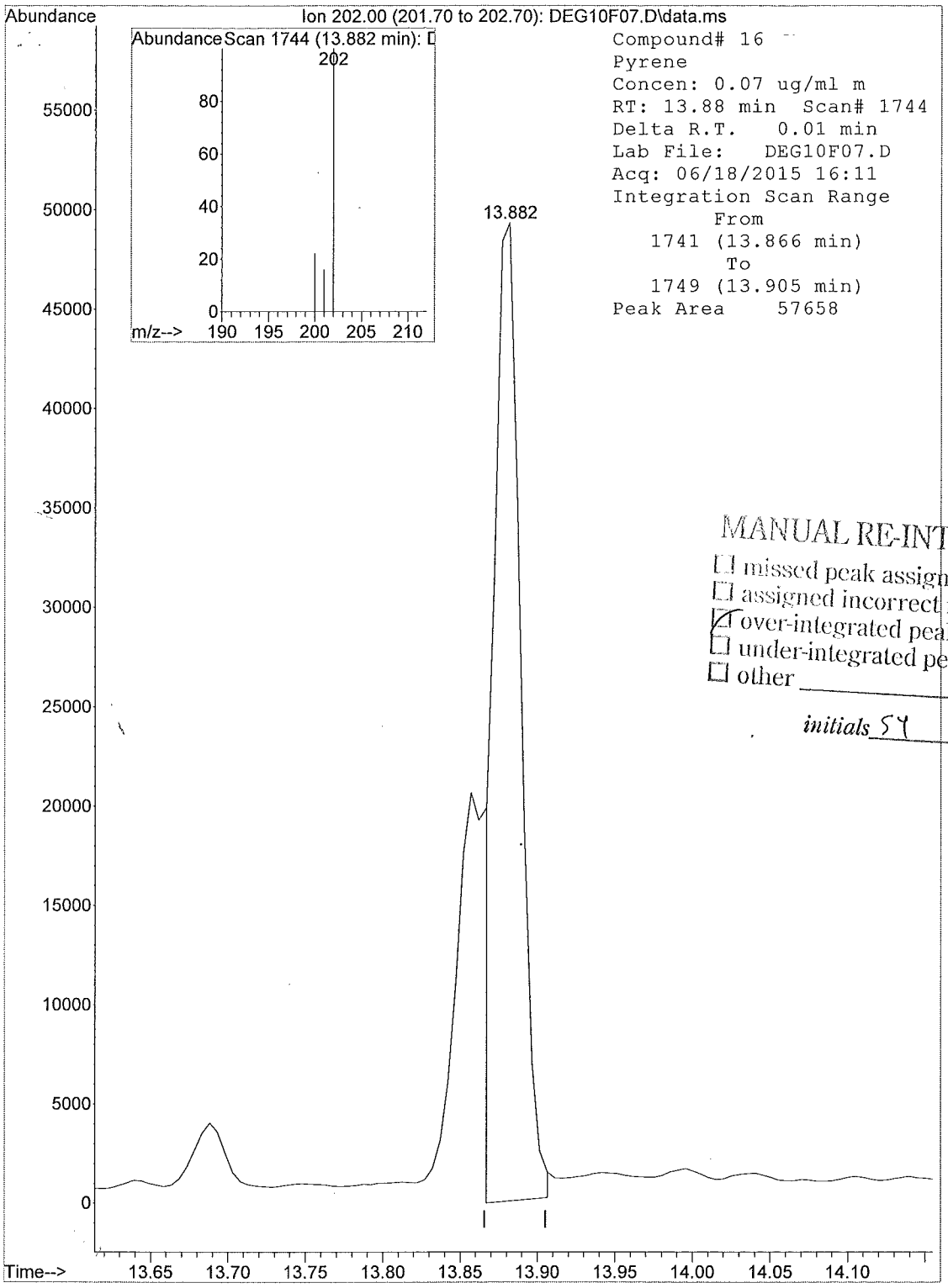
#25
Benzo(g,h,i)perylene
Concen: 0.03 ug/ml
RT: 21.74 min Scan# 3374
Delta R.T. 0.01 min
Lab File: DEG10F07.D
Acq: 06/18/2015 16:11

Tgt Ion:276 Resp: 21255

Ion	Ratio	Lower	Upper
276	100		
138	36.6	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Pyrene



MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 6/19/15

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.: F9M36

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

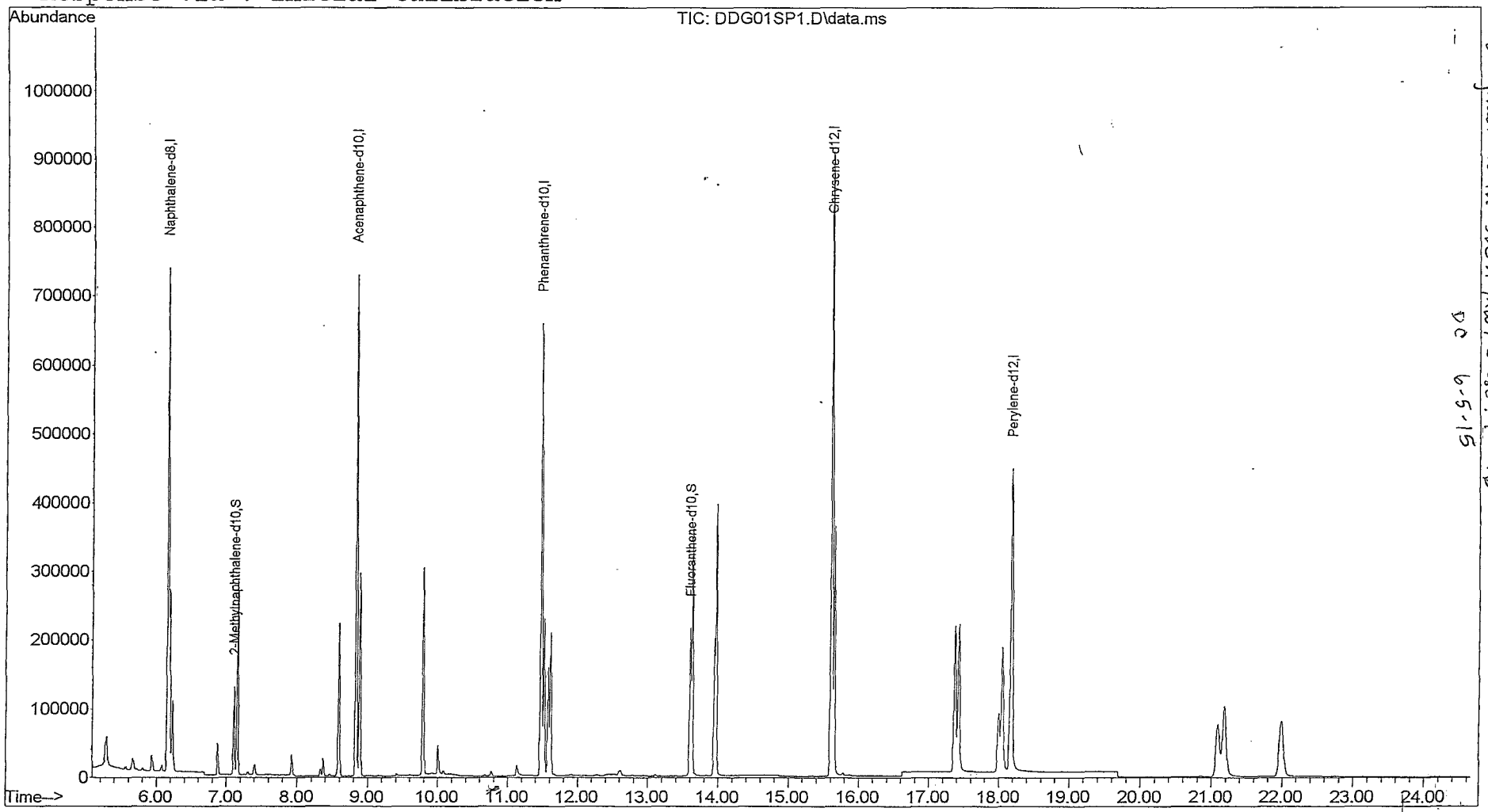
COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	%RSD
Naphthalene	1.070	1.060	1.047	1.004	1.034	1.043	2.5
2-Methylnaphthalene	0.678	0.680	0.672	0.652	0.676	0.672	1.7
Acenaphthylene	1.712	1.721	1.747	1.737	1.836	1.750	2.8
Acenaphthene	1.121	1.125	1.118	1.093	1.144	1.120	1.6
Fluorene	1.280	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)

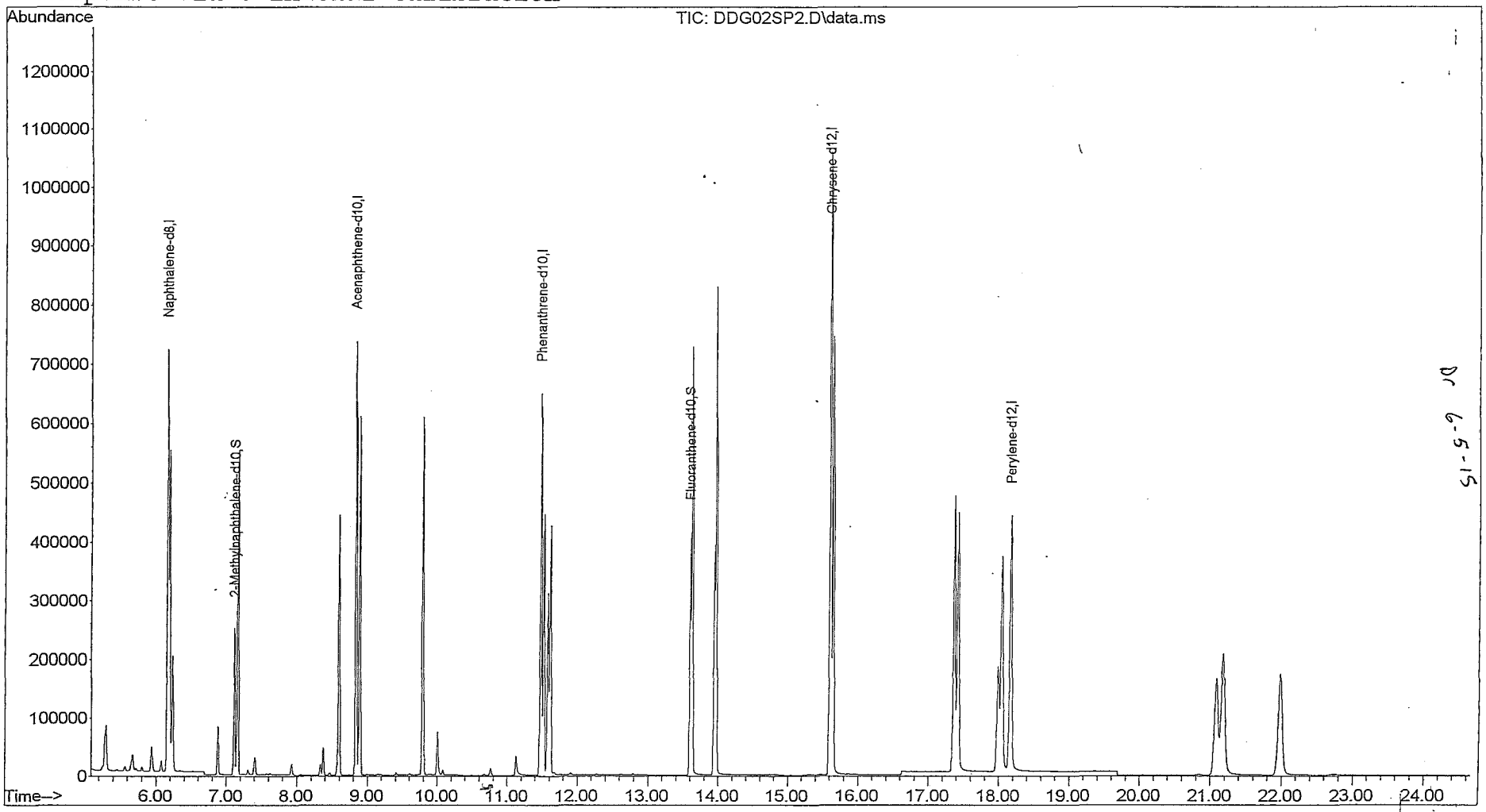
: 00178

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)

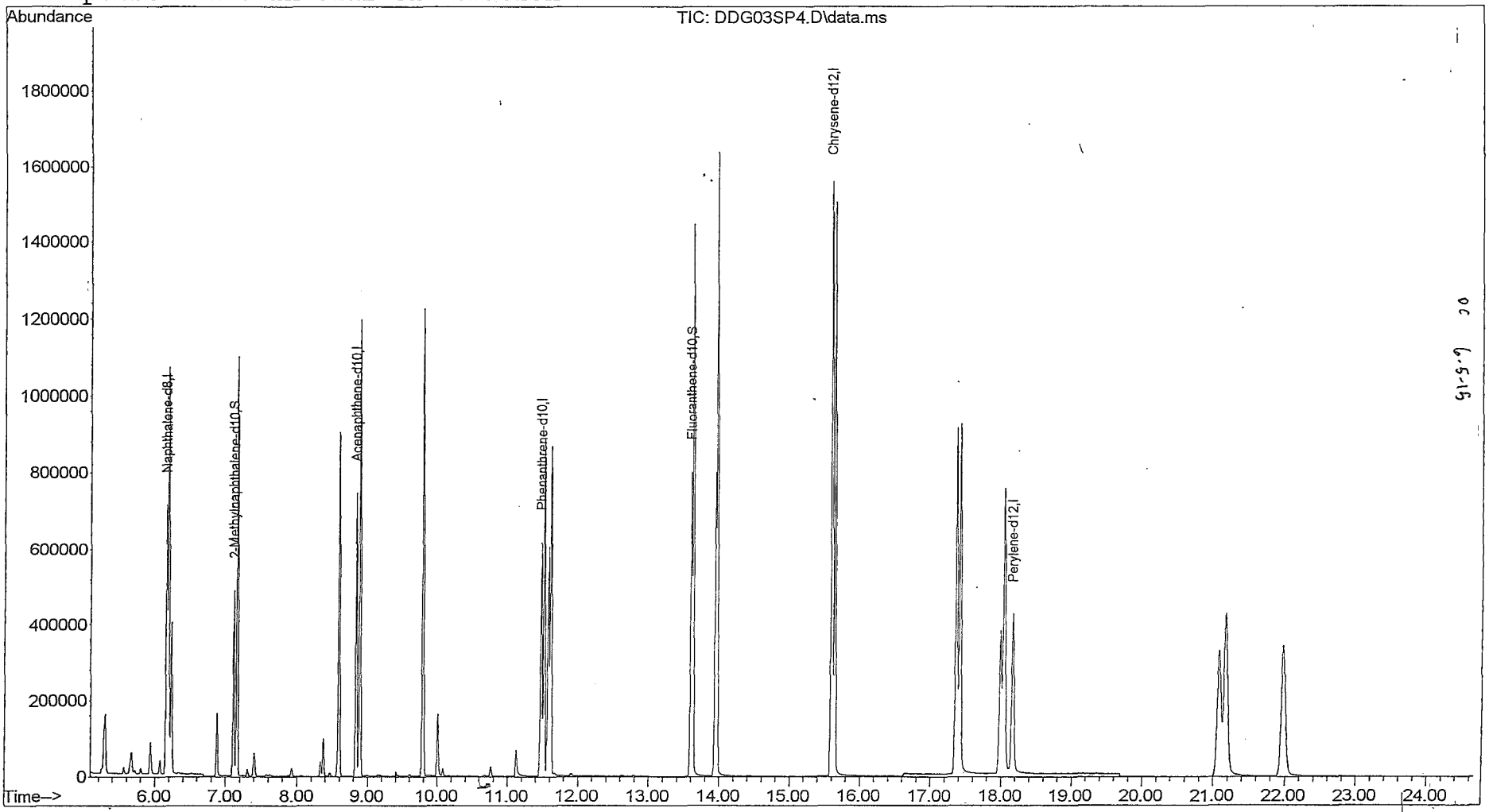
39179

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

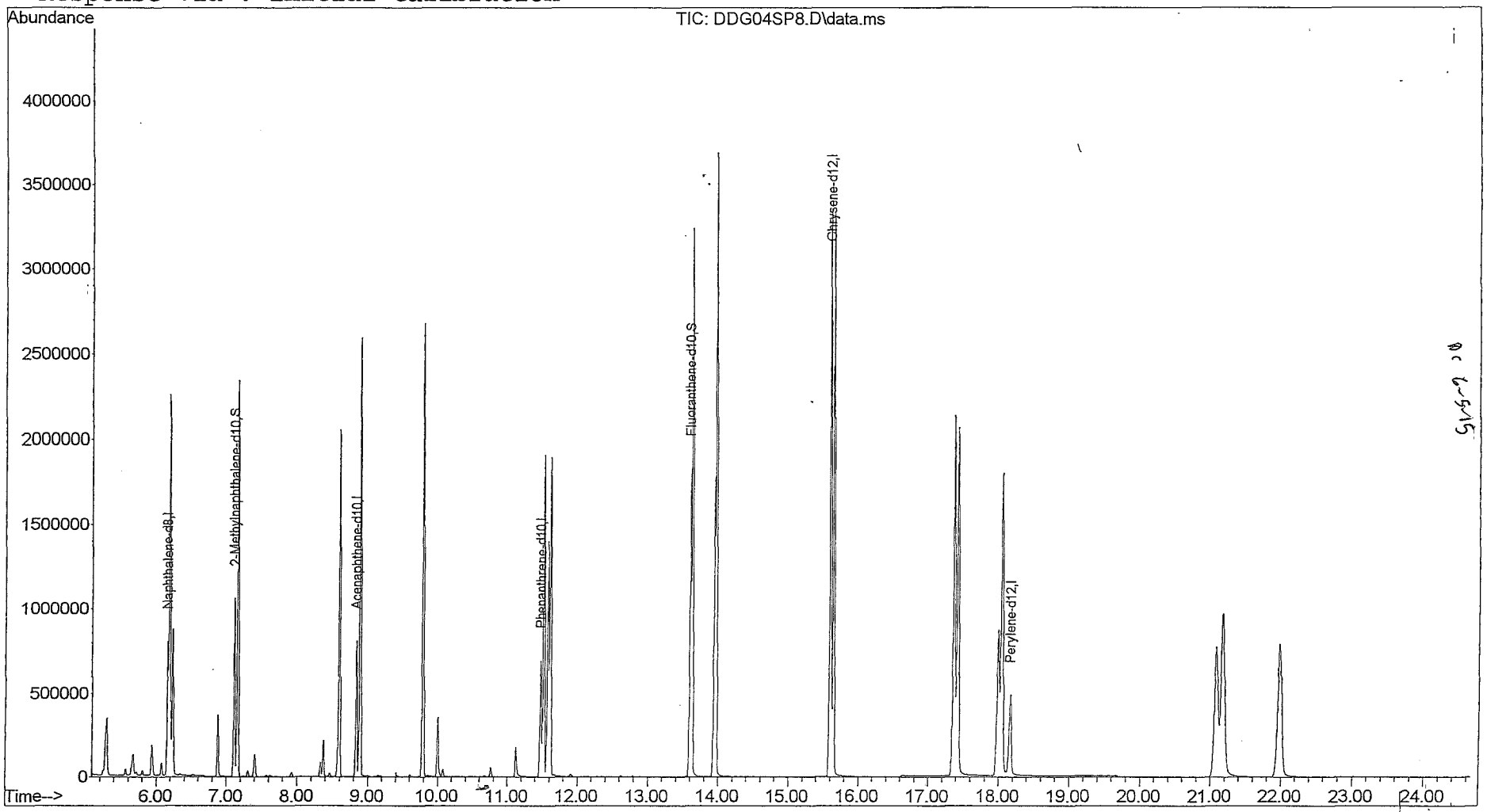
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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

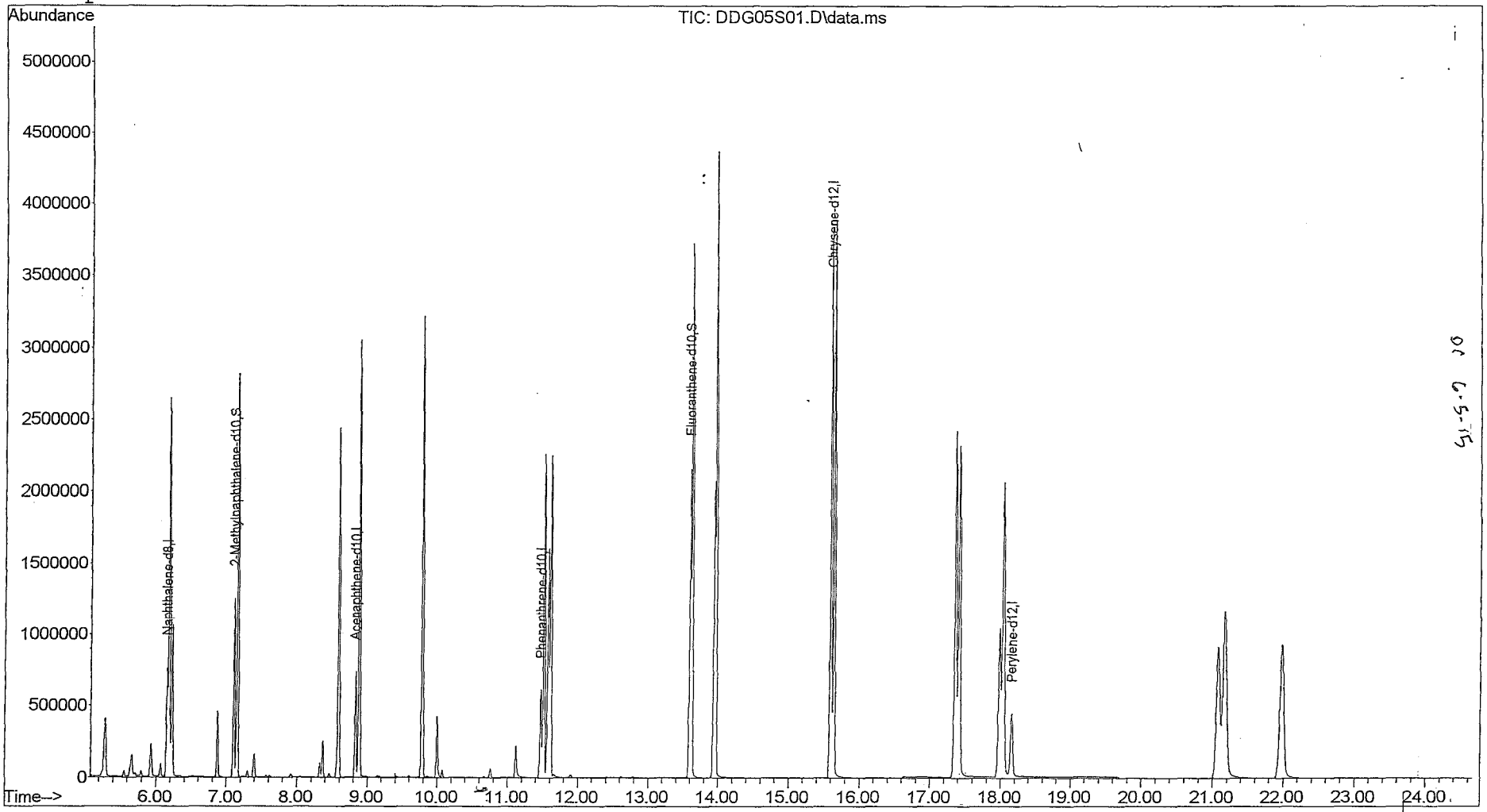
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



5-5-15

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.: F9M36

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)

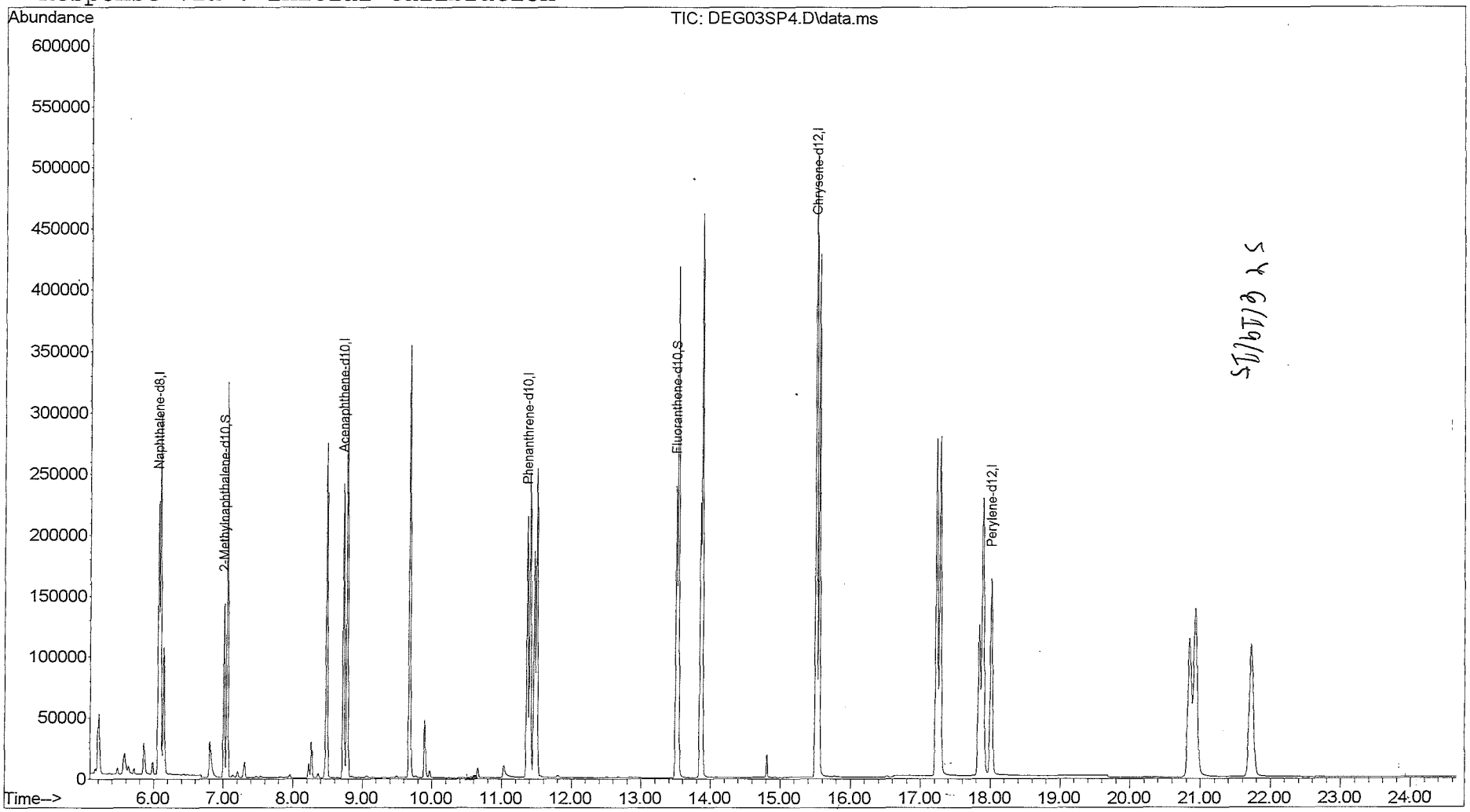
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.915	0.700	-12.3	25.0
2-Methylnaphthalene	0.672	0.609	0.400	-9.3	25.0
Acenaphthylene	1.750	1.569	0.900	-10.4	25.0
Acenaphthene	1.120	1.000	0.900	-10.7	25.0
Fluorene	1.299	1.143	0.900	-12.0	25.0
Pentachlorophenol	0.060	0.042	0.050	-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 07:04:11 2015
Response via : Initial Calibration



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 07:04:11 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)

: 66437

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.: F9M36

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)

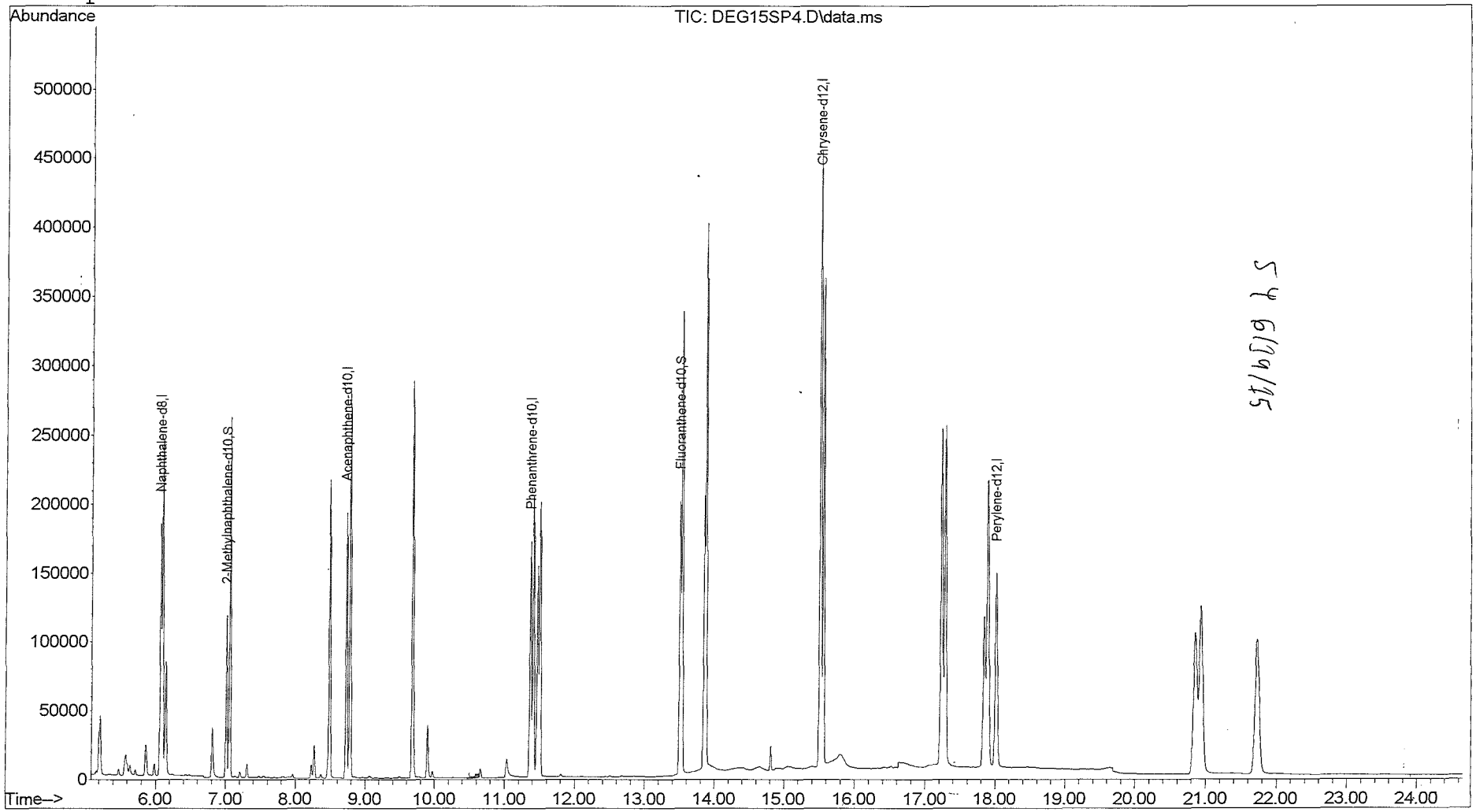
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.914	0.010	-12.4	50.0
2-Methylnaphthalene	0.672	0.607	0.010	-9.7	50.0
Acenaphthylene	1.750	1.585	0.010	-9.4	50.0
Acenaphthene	1.120	1.002	0.010	-10.5	50.0
Fluorene	1.299	1.145	0.010	-11.8	50.0
Pentachlorophenol	0.060	0.057	0.010	-4.4	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 07:09:23 2015
Response via : Initial Calibration



5ug 6/19/15

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 07:09:23 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)

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.: F9M36

Instrument ID: 5975-D Calibration Date: 06/20/2015 Time: 10:32

Lab File ID: DEJ03SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DJ Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

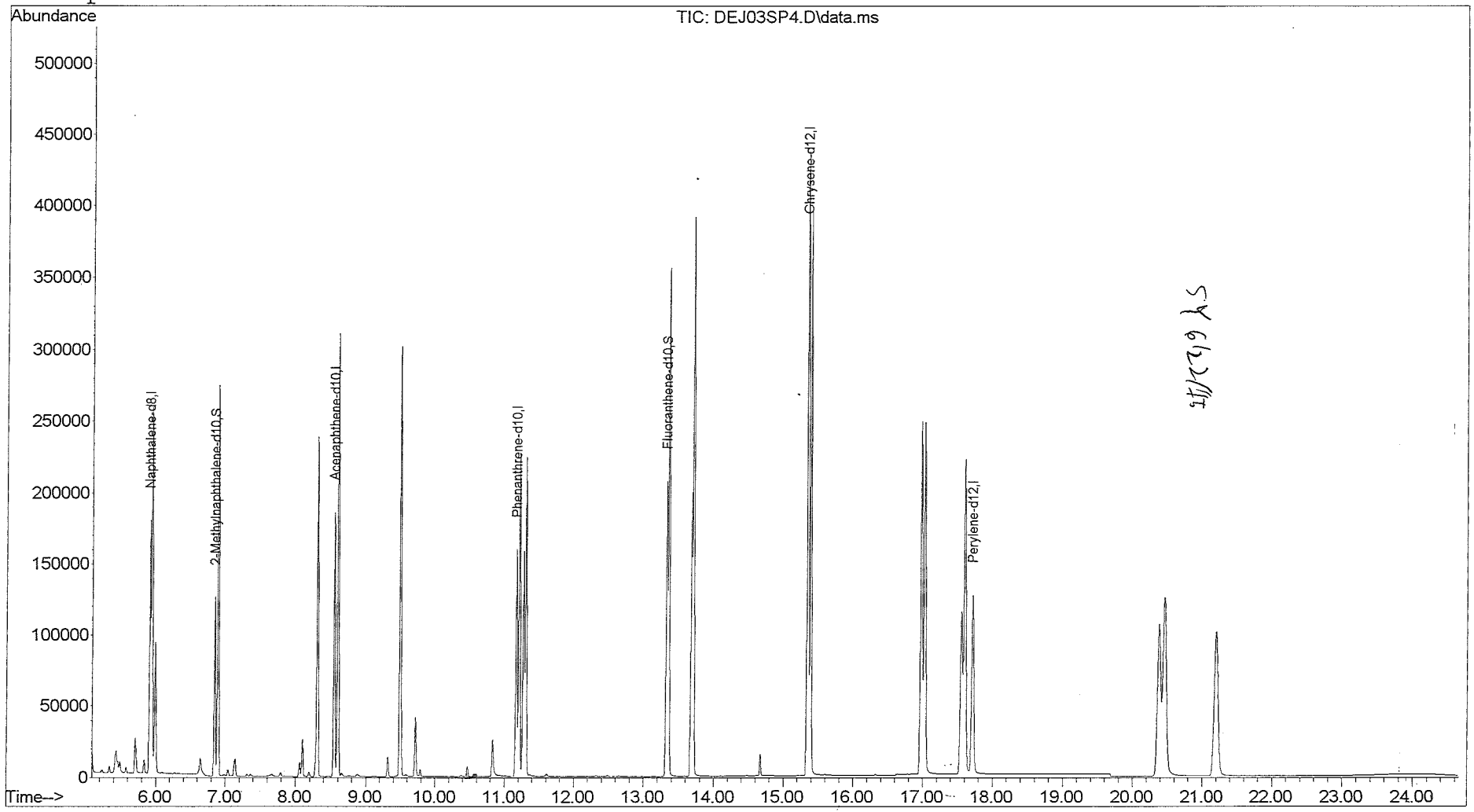
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.033	0.700	-1.0	25.0
2-Methylnaphthalene	0.672	0.688	0.400	2.5	25.0
Acenaphthylene	1.750	1.770	0.900	1.1	25.0
Acenaphthene	1.120	1.129	0.900	0.8	25.0
Fluorene	1.299	1.284	0.900	-1.2	25.0
Pentachlorophenol	0.060	0.083	0.050	38.6	25.0
Phenanthrene	1.152	1.128	0.700	-2.1	25.0
Anthracene	1.120	1.099	0.700	-1.9	25.0
Fluoranthene	1.311	1.290	0.600	-1.6	25.0
Pyrene	1.255	1.260	0.600	0.4	25.0
Benzo(a)anthracene	1.067	1.141	0.800	7.0	25.0
Chrysene	1.127	1.115	0.700	-1.1	25.0
Benzo(b)fluoranthene	1.247	1.235	0.700	-0.9	25.0
Benzo(k)fluoranthene	1.292	1.179	0.700	-8.7	25.0
Benzo(a)pyrene	1.191	1.156	0.700	-3.0	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.109	0.500	6.4	25.0
Dibenzo(a,h)anthracene	1.153	1.162	0.400	0.8	25.0
Benzo(g,h,i)perylene	1.172	1.179	0.500	0.5	25.0
Fluoranthene-d10	1.094	1.113	0.010	1.7	25.0
2-Methylnaphthalene-d10	0.645	0.673	0.010	4.3	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\20JUN15\DEJ03SP4.D Vial: 1
Acq On : 06/20/2015 10:32 Operator: DJC
Sample : SSTD0.4DJ 28434 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 10:59:08 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 : Sat Jun 20 09:58:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\20JUN15\DEJ03SP4.D Vial: 1
Acq On : 06/20/2015 10:32 Operator: DJC
Sample : SSTD0.4DJ 28434 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 10:59:08 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 : Sat Jun 20 09:58:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.91	136	199811	0.40 ug/ml	
5) Acenaphthene-d10	8.55	164	124840	0.40 ug/ml	
9) Phenanthrene-d10	11.17	188	214579	0.40 ug/ml	
15) Chrysene-d12	15.35	240	232946	0.40 ug/ml	
19) Perylene-d12	17.71	264	219273	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	134555	0.417ug/mL	
13) Fluoranthene-d10	13.33	212	238770	0.407ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.94	128	206416	0.396ug/ml	94
4) 2-Methylnaphthalene	6.89	142	137485	0.410ug/ml	98
6) Acenaphthylene	8.31	152	220991	0.405ug/ml	97
7) Acenaphthene	8.60	153	140921	0.403ug/ml	99
8) Fluorene	9.49	166	160282	0.395ug/ml	100
10) Pentachlorophenol	10.83	266	17858	0.554ug/ml	100
11) Phenanthrene	11.21	178	242046	0.392ug/ml	98
12) Anthracene	11.30	178	235875	0.393ug/ml	97
14) Fluoranthene	13.36	202	276841	0.394ug/ml	88
16) Pyrene	13.71	202	293532	0.402ug/ml	88
17) Benzo(a)anthracene	15.34	228	265836	0.428ug/ml	98
18) Chrysene	15.38	228	259671	0.396ug/ml	97
20) Benzo(b)fluoranthene	16.98	252	270910	0.396ug/ml	100
21) Benzo(k)fluoranthene	17.03	252	258609	0.365ug/ml	99
22) Benzo(a)pyrene	17.60	252	253370	0.388ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.38	276	243144	0.425ug/ml	100
24) Dibenzo(a,h)anthracene	20.46	278	254825	0.403ug/ml	98
25) Benzo(g,h,i)perylene	21.20	276	258436	0.402ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00193

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.: F9M36

Instrument ID: 5975-D Calibration Date: 06/20/2015 Time: 20:51

Lab File ID: DEJ23SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4J2 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

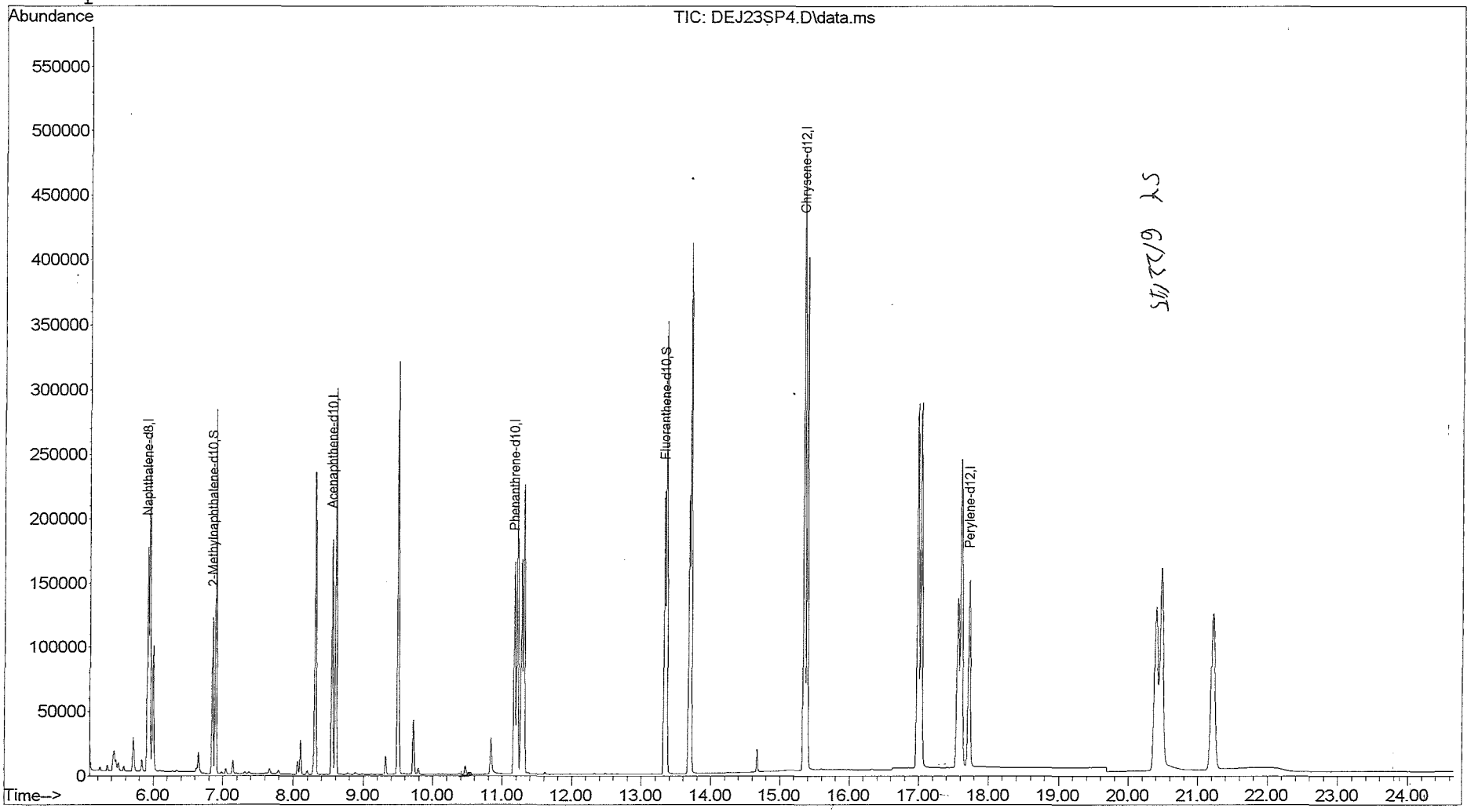
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.033	0.010	-1.0	50.0
2-Methylnaphthalene	0.672	0.689	0.010	2.6	50.0
Acenaphthylene	1.750	1.787	0.010	2.1	50.0
Acenaphthene	1.120	1.132	0.010	1.1	50.0
Fluorene	1.299	1.310	0.010	0.8	50.0
Pentachlorophenol	0.060	0.090	0.010	49.4	50.0
Phenanthrene	1.152	1.116	0.010	-3.1	50.0
Anthracene	1.120	1.095	0.010	-2.3	50.0
Fluoranthene	1.311	1.310	0.010	-0.1	50.0
Pyrene	1.255	1.243	0.010	-1.0	50.0
Benzo(a)anthracene	1.067	1.177	0.010	10.3	50.0
Chrysene	1.127	1.100	0.010	-2.4	50.0
Benzo(b)fluoranthene	1.247	1.204	0.010	-3.4	50.0
Benzo(k)fluoranthene	1.292	1.160	0.010	-10.1	50.0
Benzo(a)pyrene	1.191	1.154	0.010	-3.1	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.219	0.010	16.9	50.0
Dibenzo(a,h)anthracene	1.153	1.237	0.010	7.2	50.0
Benzo(g,h,i)perylene	1.172	1.272	0.010	8.5	50.0
Fluoranthene-d10	1.094	1.152	0.010	5.3	50.0
2-Methylnaphthalene-d10	0.645	0.680	0.010	5.3	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\20JUN15\DEJ23SP4.D Vial: 20
Acq On : 06/20/2015 20:51 Operator: DJC
Sample : SSTD0.4J2 28434 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 21:16:21 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 : Sat Jun 20 09:58:54 2015
Response via : Initial Calibration



SY 6/22/15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\20JUN15\DEJ23SP4.D Vial: 20
Acq On : 06/20/2015 20:51 Operator: DJC
Sample : SSTD0.4J2 28434 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 21:16:21 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 : Sat Jun 20 09:58:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.91	136	197664	0.40 ug/ml	
5) Acenaphthene-d10	8.55	164	124878	0.40 ug/ml	
9) Phenanthrene-d10	11.17	188	221562	0.40 ug/ml	
15) Chrysene-d12	15.35	240	247601	0.40 ug/ml	
19) Perylene-d12	17.72	264	246727	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	134398	0.421ug/mL	
13) Fluoranthene-d10	13.33	212	255142	0.421ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.94	128	204160	0.396ug/ml	94
4) 2-Methylnaphthalene	6.90	142	136190	0.410ug/ml	98
6) Acenaphthylene	8.31	152	223135	0.408ug/ml	97
7) Acenaphthene	8.60	153	141374	0.404ug/ml	99
8) Fluorene	9.50	166	163539	0.403ug/ml	100
10) Pentachlorophenol	10.84	266	19882	0.598ug/ml	100
11) Phenanthrene	11.22	178	247279	0.388ug/ml	98
12) Anthracene	11.31	178	242559	0.391ug/ml	97
14) Fluoranthene	13.36	202	290158	0.400ug/ml	88
16) Pyrene	13.71	202	307736	0.396ug/ml	88
17) Benzo(a)anthracene	15.34	228	291336	0.441ug/ml	98
18) Chrysene	15.39	228	272377	0.390ug/ml	97
20) Benzo(b)fluoranthene	16.98	252	297126	0.386ug/ml	100
21) Benzo(k)fluoranthene	17.03	252	286324	0.359ug/ml	99
22) Benzo(a)pyrene	17.61	252	284636	0.387ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.40	276	300772	0.468ug/ml	100
24) Dibenzo(a,h)anthracene	20.47	278	305089	0.429ug/ml	98
25) Benzo(g,h,i)perylene	21.22	276	313811	0.434ug/ml	70

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00198

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 452600

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEJ06MB

Extraction: (Type) SONC

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

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/19/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/20/2015

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

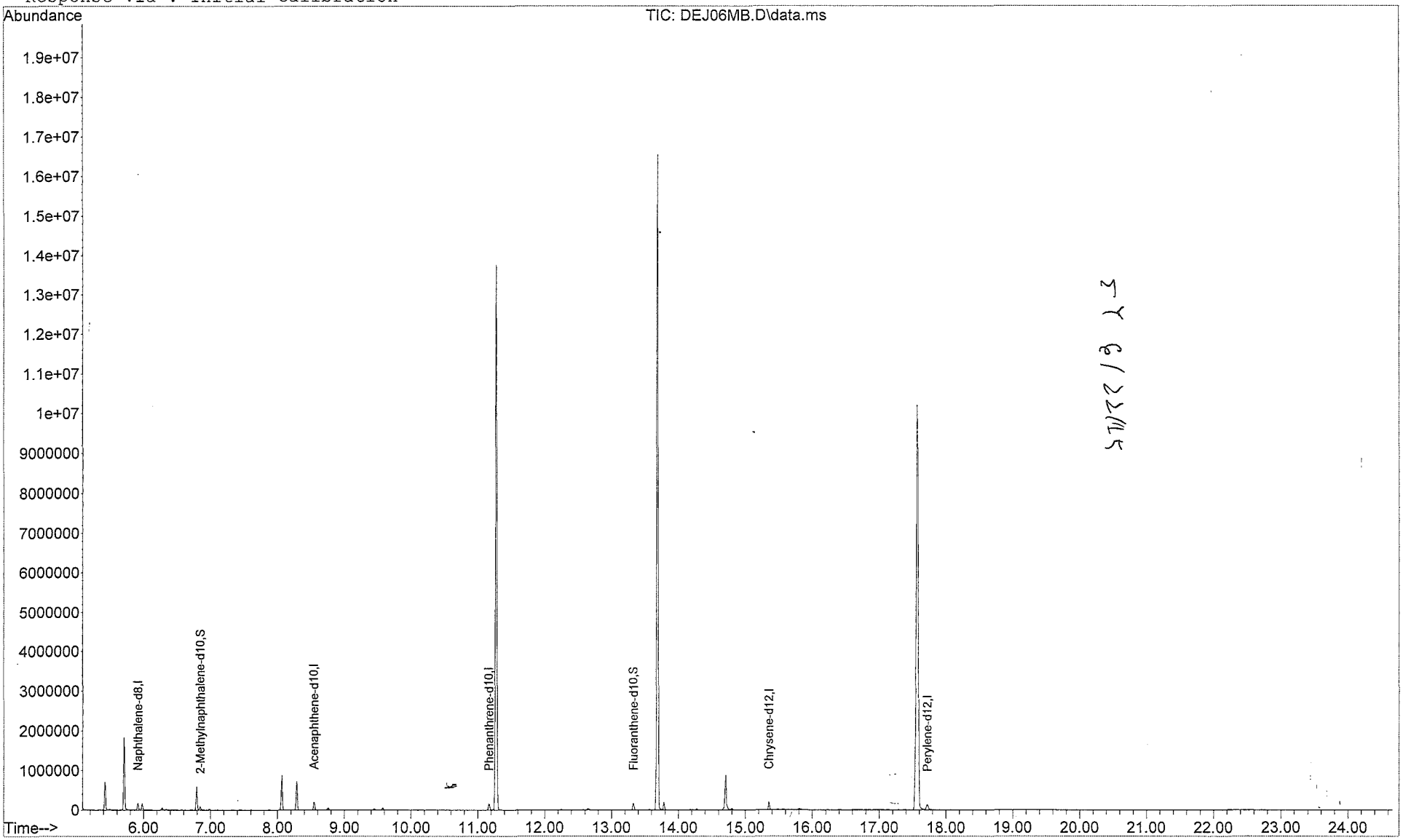
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.3	U
91-57-6	2-Methylnaphthalene	3.3	U
208-96-8	Acenaphthylene	3.3	U
83-32-9	Acenaphthene	3.3	U
86-73-7	Fluorene	3.3	U
87-86-5	Pentachlorophenol	6.7	U
85-01-8	Phenanthrene	3.3	U
120-12-7	Anthracene	3.3	U
206-44-0	Fluoranthene	3.3	U
129-00-0	Pyrene	3.3	U
56-55-3	Benzo(a)anthracene	3.3	U
218-01-9	Chrysene	3.3	U
205-99-2	Benzo(b)fluoranthene	3.3	U
207-08-9	Benzo(k)fluoranthene	3.3	U
50-32-8	Benzo(a)pyrene	3.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.3	U
53-70-3	Dibenzo(a,h)anthracene	3.3	U
191-24-2	Benzo(g,h,i)perylene	3.3	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...SIM\20JUN15\DEJ06MB.D Vial: 15
Acq On : 06/20/2015 12:17 Operator: DJC
Sample : 452600 SBLK00 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 22 09:59:29 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...SIM\20JUN15\DEJ06MB.D Vial: 15
Acq On : 06/20/2015 12:17 Operator: DJC
Sample : 452600 SBLK00 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 22 09:59:29 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	5.91	136	188476	0.40 ug/ml
5) Acenaphthene-d10	8.55	164	134978	0.40 ug/ml
9) Phenanthrene-d10	11.17	188	220185	0.40 ug/ml
15) Chrysene-d12	15.35	240	216033	0.40 ug/ml
19) Perylene-d12	17.72	264	248407	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.85	152	93786	0.308ug/mL
13) Fluoranthene-d10	13.33	212	197004	0.327ug/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)

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK11

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450511

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEG04BLK

Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/09/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/18/2015

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

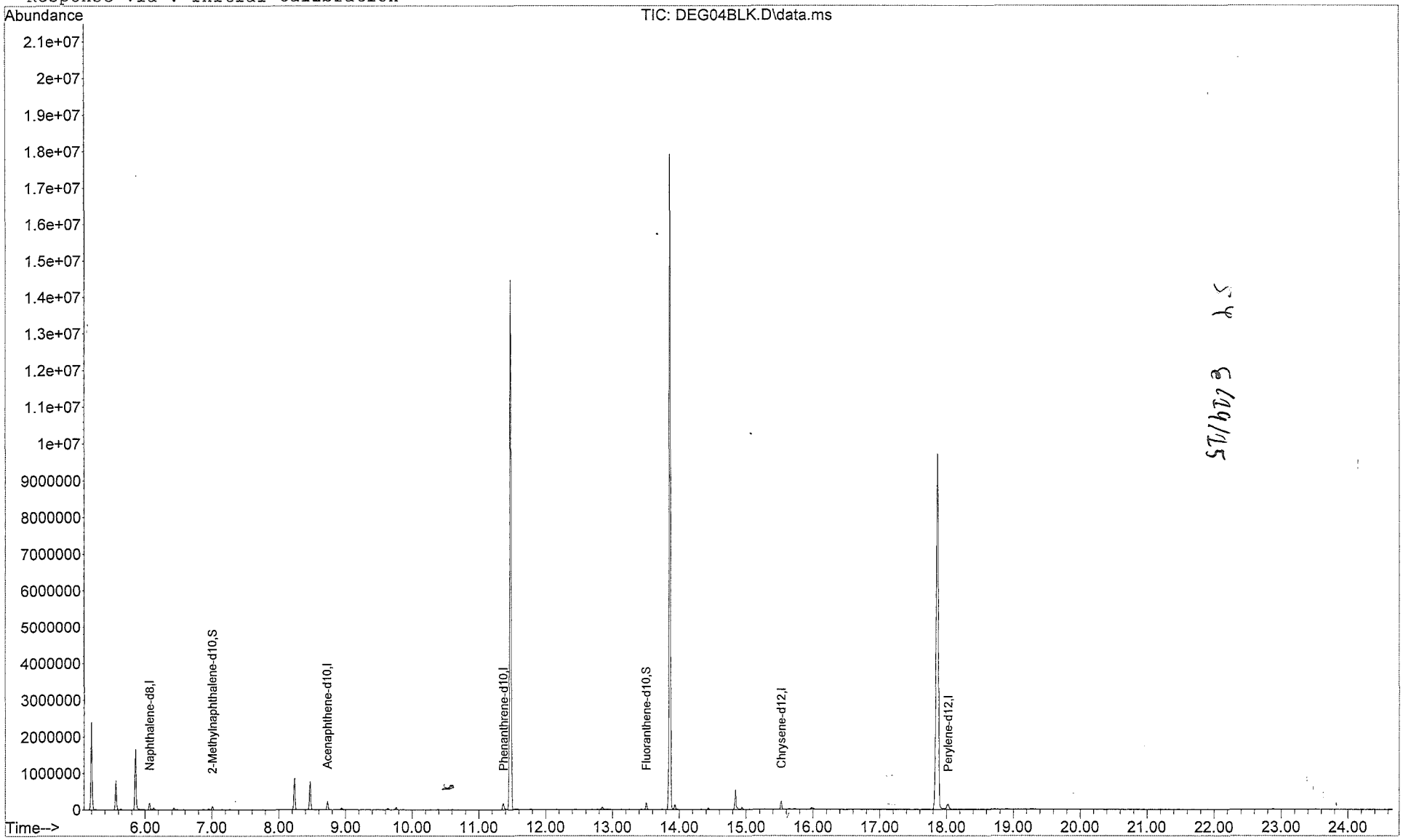
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.3	U
91-57-6	2-Methylnaphthalene	3.3	U
208-96-8	Acenaphthylene	3.3	U
83-32-9	Acenaphthene	3.3	U
86-73-7	Fluorene	3.3	U
87-86-5	Pentachlorophenol	6.7	U
85-01-8	Phenanthrene	3.3	U
120-12-7	Anthracene	3.3	U
206-44-0	Fluoranthene	3.3	U
129-00-0	Pyrene	3.3	U
56-55-3	Benzo(a)anthracene	3.3	U
218-01-9	Chrysene	3.3	U
205-99-2	Benzo(b)fluoranthene	3.3	U
207-08-9	Benzo(k)fluoranthene	3.3	U
50-32-8	Benzo(a)pyrene	3.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.3	U
53-70-3	Dibenzo(a,h)anthracene	3.3	U
191-24-2	Benzo(g,h,i)perylene	3.3	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG04BLK.D Vial: 3
Acq On : 06/18/2015 13:08 Operator: DJC
Sample : 450511 SBLK11 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 19 07:26:18 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\DEG04BLK.D Vial: 3
Acq On : 06/18/2015 13:08 Operator: DJC
Sample : 450511 SBLK11 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 19 07:26:18 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	214371	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	150379	0.40 ug/ml
9) Phenanthrene-d10	11.37	188	252427	0.40 ug/ml
15) Chrysene-d12	15.52	240	264416	0.40 ug/ml
19) Perylene-d12	18.02	264	272022	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	105223	0.304ug/mL
13) Fluoranthene-d10	13.50	212	207535	0.301ug/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

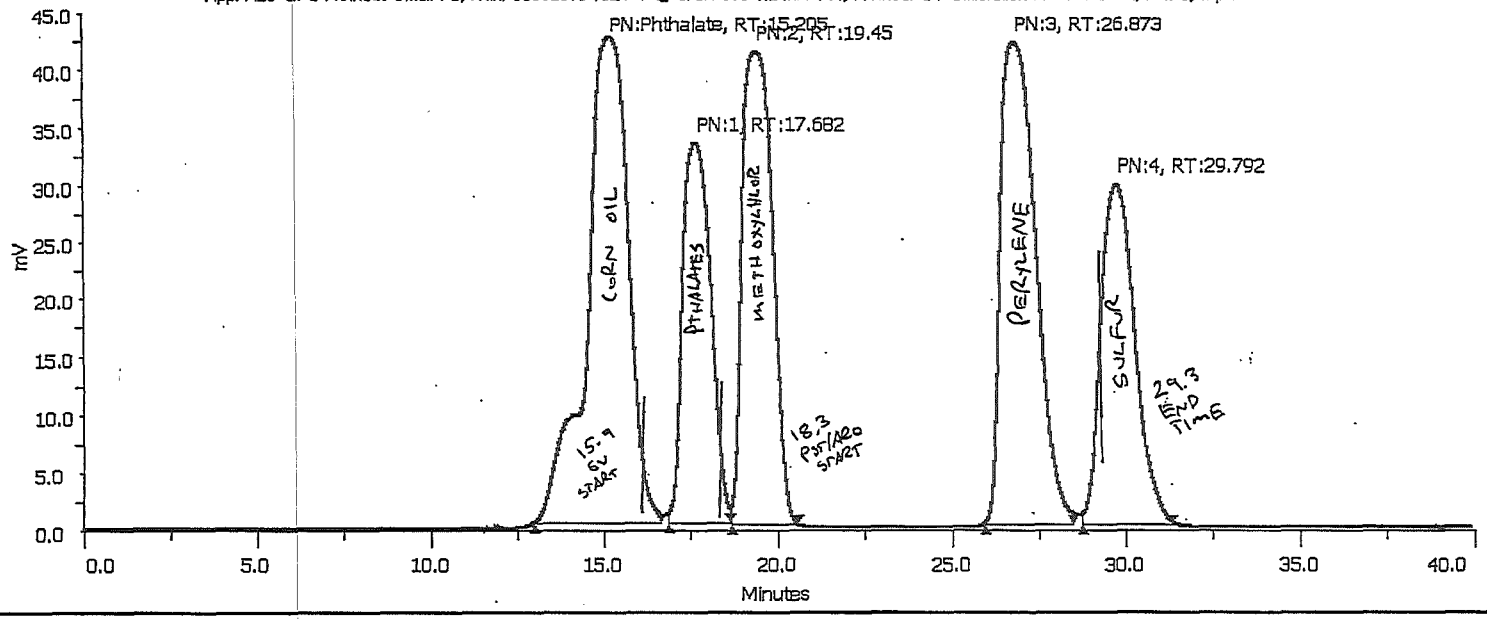
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
6/3/15
Lyle Edwards
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 06032015-132431 @ 6/3/2015 1:24:34 PM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.986	15.205	5870776.6667	42.15	0	91.224
3	GPC Weekly	Sample Zone->1	1	16.852	17.682	3105954.5833	32.99	91.224	95.006
3	GPC Weekly	Sample Zone->1	2	18.67	19.45	4146383.75	40.92	95.006	332.264
3	GPC Weekly	Sample Zone->1	3	25.958	26.873	4912102.5	41.75	332.264	113.425
3	GPC Weekly	Sample Zone->1	4	28.773	29.792	3353368.75	29.54	113.425	0

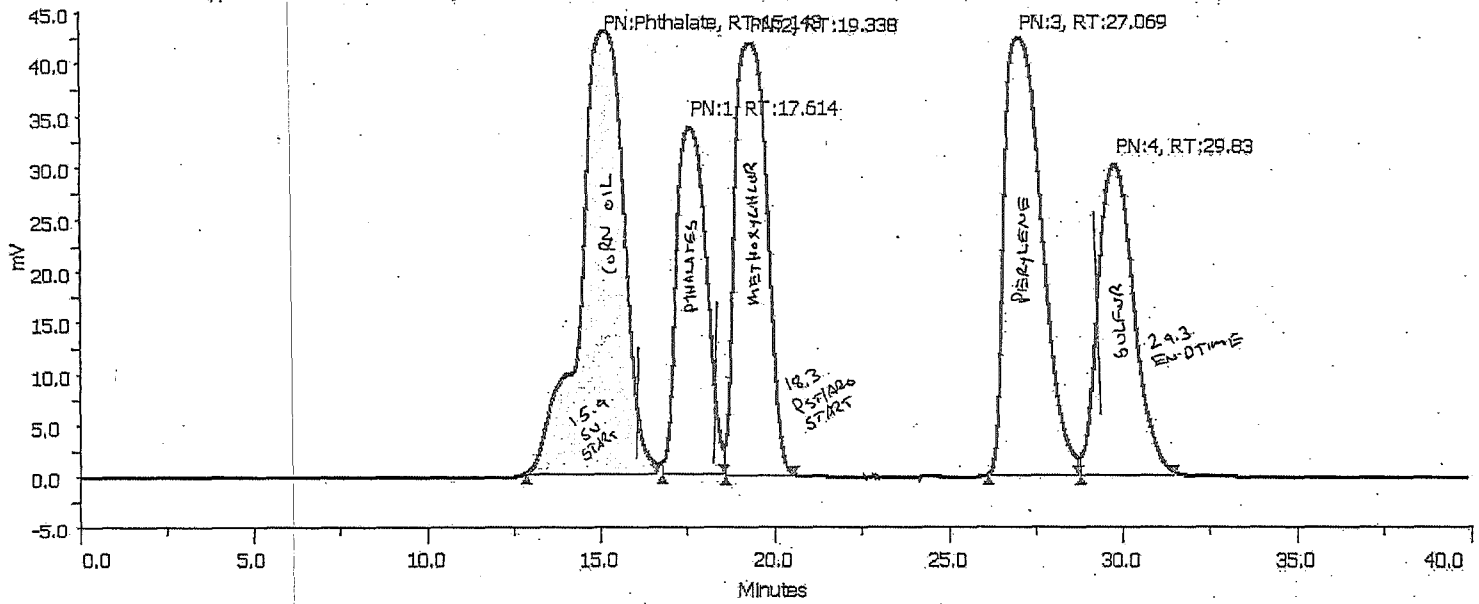
Run Variables

Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
5/25/15
Lee Edmond
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 05252015-065221 @ 5/25/2015 6:52:26 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.888	15.143	6185062.9167	42.65	0	90.122
3	GPC Weekly	Sample Zone->1	1	16.776	17.614	3298919.1667	33.43	90.122	91.565
3	GPC Weekly	Sample Zone->1	2	18.578	19.338	4422131.25	41.52	91.565	342.046
3	GPC Weekly	Sample Zone->1	3	26.172	27.069	5238672.5	42.14	342.046	106.152
3	GPC Weekly	Sample Zone->1	4	28.819	29.83	3595322.9167	29.99	106.152	0

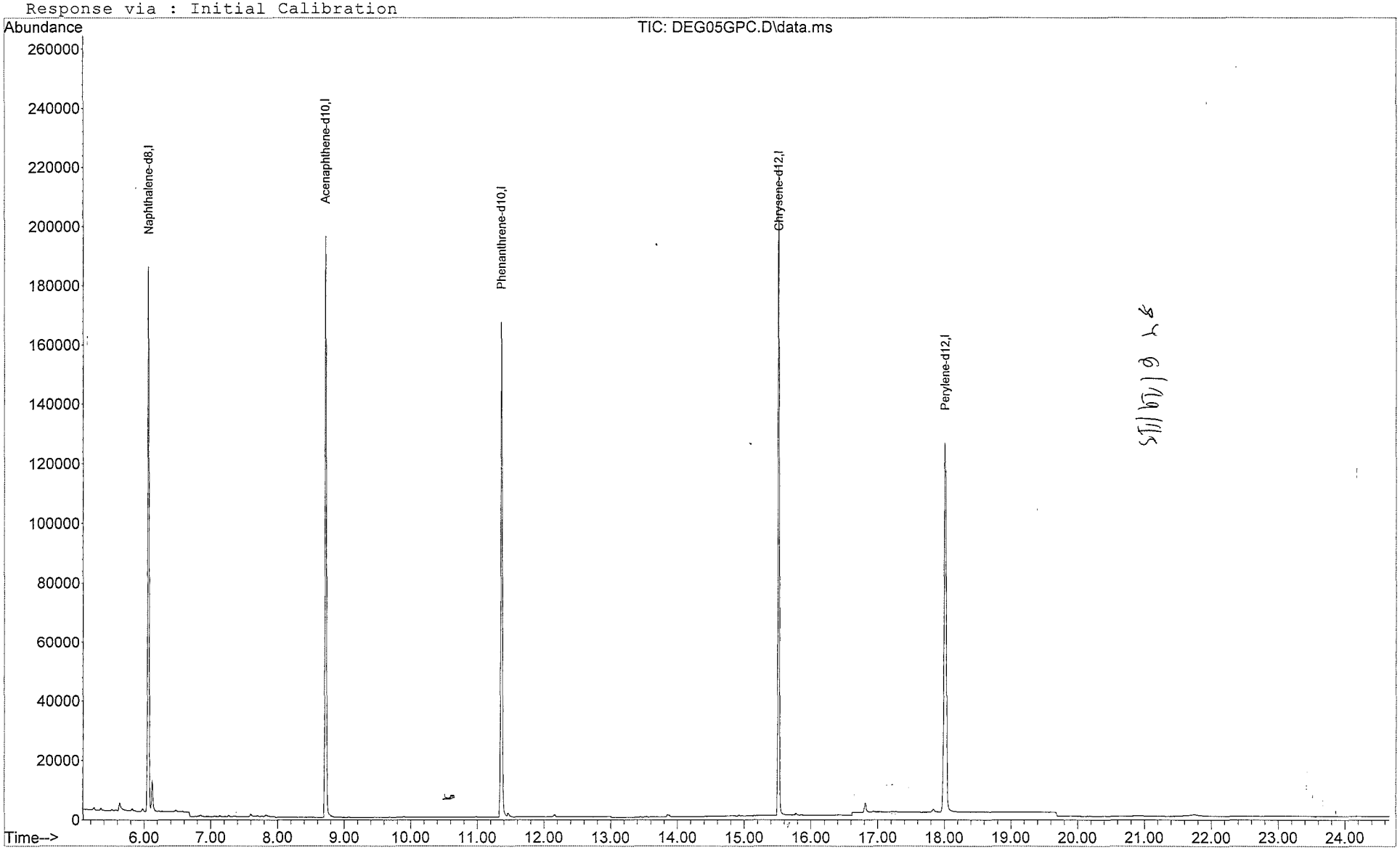
Run Variables

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\18JUN15\DEG05GPC.D Vial: 4
Acq On : 06/18/2015 13:38 Operator: DJC
Sample : 450982 GBLK82 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 18 14:03:44 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\DEG05GPC.D Vial: 4
Acq On : 06/18/2015 13:38 Operator: DJC
Sample : 450982 GBLK82 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 18 14:03:44 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	220780	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	138986	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	241465	0.40 ug/ml
15) Chrysene-d12	15.52	240	248719	0.40 ug/ml
19) Perylene-d12	18.01	264	231630	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.15	152	92	0.000ug/mL
13) Fluoranthene-d10	0.00	212	0	0.000ug/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

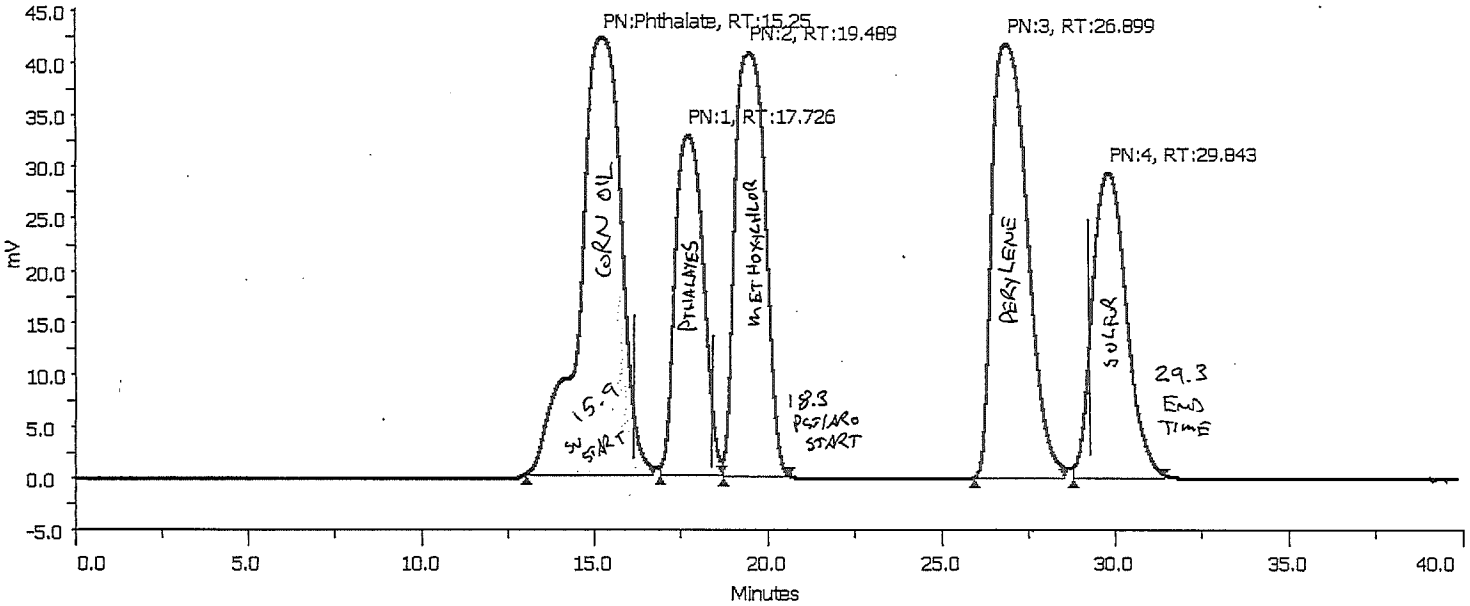
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
SOMO 1.2/2.2
6/17/15
STD # 195W 538823

App: ALS GPC Methods Small FC, Run: 06172015-115752 @ 6/17/2015 11:57:55 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	13.022	15.25	5853876.25	42.01	0	90.856
3	GPC Weekly	Sample Zone->1	1	16.891	17.726	3082585.4167	32.68	90.856	94.191
3	GPC Weekly	Sample Zone->1	2	18.714	19.489	4122967.0833	40.64	94.191	330.373
3	GPC Weekly	Sample Zone->1	3	25.997	26.899	4903645	41.53	330.373	114.133
3	GPC Weekly	Sample Zone->1	4	28.808	29.843	3341479.5833	29.29	114.133	0

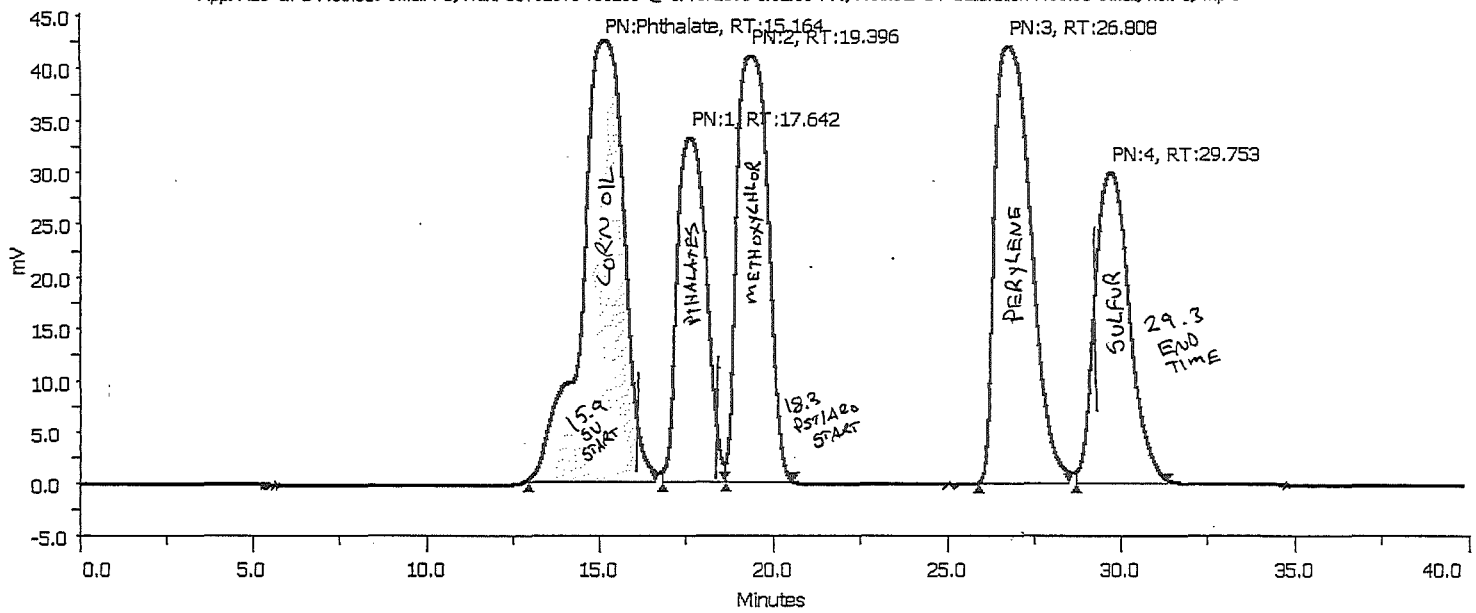
Run Variables

Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
6/10/15
Lyle Edwards
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 06102015-150230 @ 6/10/2015 3:02:33 PM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.939	15.164	6021517.5	42.2	0	90.823
3	GPC Weekly	Sample Zone->1	1	16.814	17.642	3196148.3333	33.05	90.823	93.428
3	GPC Weekly	Sample Zone->1	2	18.631	19.396	4258098.3333	40.89	93.428	335.749
3	GPC Weekly	Sample Zone->1	3	25.947	26.808	5054345	41.89	335.749	115.826
3	GPC Weekly	Sample Zone->1	4	28.727	29.753	3472572.0833	29.89	115.826	0

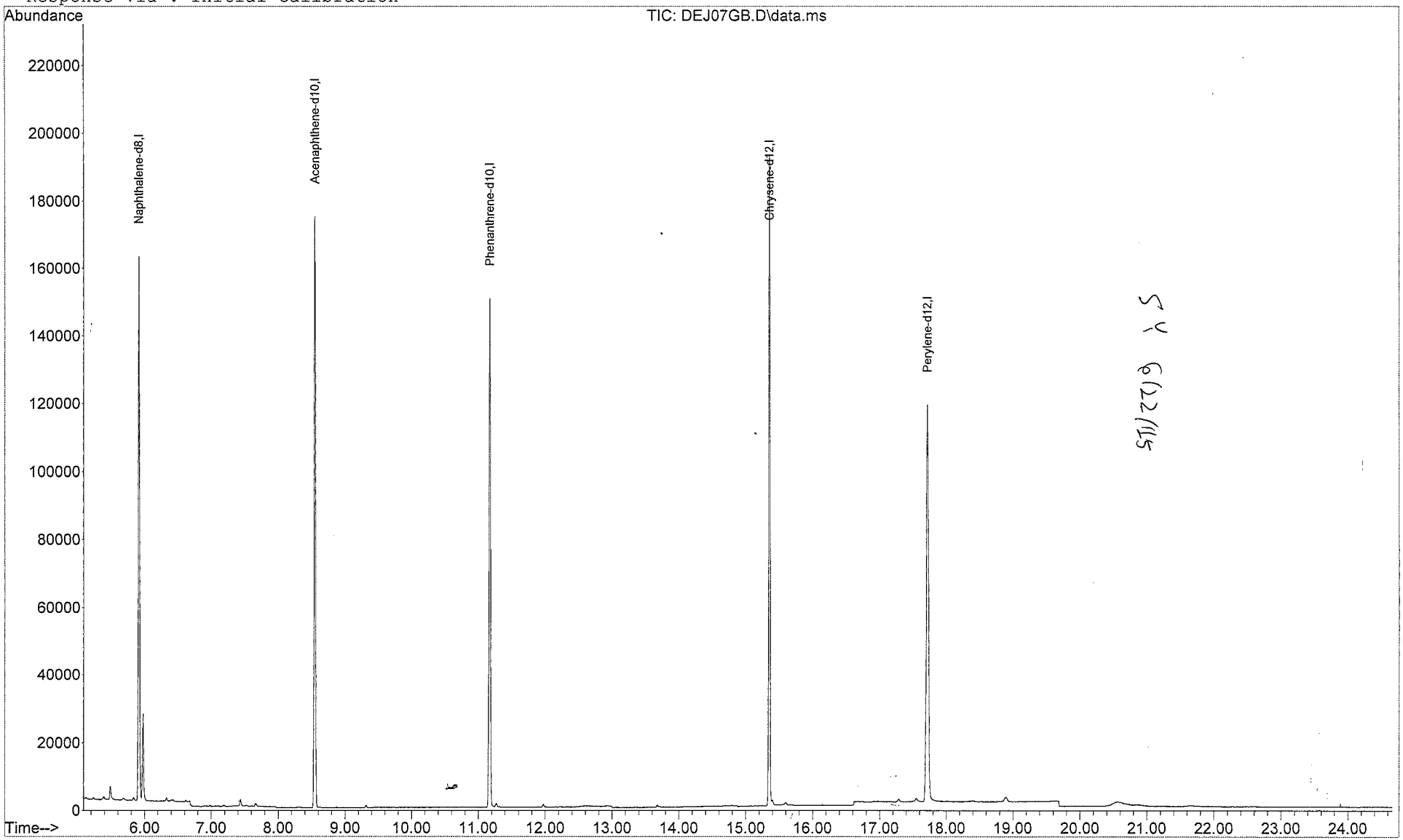
Run Variables

Quantitation Report

Data File : C:\msdchem\1\data\F9...SIM\20JUN15\DEJ07GB.D Vial: 16
Acq On : 06/20/2015 12:48 Operator: DJC
Sample : 452653 GBLK53 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:12:53 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



S1 GB122/ILS

Quantitation Report

Data File : C:\msdchem\1\data\F9...SIM\20JUN15\DEJ07GB.D Vial: 16
Acq On : 06/20/2015 12:48 Operator: DJC
Sample : 452653 GBLK53 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 20 13:12:53 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	5.91	136	181327	0.40 ug/ml
5) Acenaphthene-d10	8.55	164	117251	0.40 ug/ml
9) Phenanthrene-d10	11.17	188	204340	0.40 ug/ml
15) Chrysene-d12	15.35	240	215823	0.40 ug/ml
19) Perylene-d12	17.71	264	205653	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.69	152	124	0.000ug/mL
13) Fluoranthene-d10	13.49	212	85	0.000ug/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)

2P - FORM II PEST-2

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKS1	51	51	66	66			0
02	PLCSS1	65	66	70	70			0
03	F9M36	46	47	50	51			0
04	F9M42	66	63	65	63			0
05	F9M43	67	63	63	64			0
06	F9M44	72	68	73	73			0
07	F9M45	53	52	54	54			0
08	F9M36MS	67	65	72	68			0
09	F9M36MSD	74	71	77	76			0
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

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

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix Spike - EPA Sample No.: F9M36

Instrument ID: GCE21 GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	21.	0.22	17.	81	46-127
Heptachlor	21.	0.041	16.	77	35-130
Aldrin	21.	0.69	18.	83	34-132
Dieldrin	42.	0.27	29.	69	31-134
Endrin	42.	0	36.	87	42-139
4,4'-DDT	42.	0.75	35.	83	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	20.	19.	90	11	0-50	46-127
Heptachlor	20.	18.	87	12	0-31	35-130
Aldrin	20.	18.	86	4	0-43	34-132
Dieldrin	41.	33.	81	17	0-38	31-134
Endrin	41.	40.	98	12	0-45	42-139
4,4'-DDT	41.	37.	89	7	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix Spike - EPA Sample No.: F9M36

Instrument ID: GCE21 GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	21.	0.30	17.	79	46-127
Heptachlor	21.	0	16.	75	35-130
Aldrin	21.	0	15.	72	34-132
Dieldrin	42.	1.1	35.	81	31-134
Endrin	42.	1.8	38.	88	42-139
4,4'-DDT	42.	1.4	33.	77	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	20.	19.	91	14	0-50	46-127
Heptachlor	20.	17.	85	12	0-31	35-130
Aldrin	20.	18.	88	21	0-43	34-132
Dieldrin	41.	38.	91	11	0-38	31-134
Endrin	41.	37.	88	0	0-45	42-139
4,4'-DDT	41.	37.	89	15	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3M - FORM III PEST-4

SOIL PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 450509 LCS Lot No.: _____

Date Extracted: 06/08/2015 Date Analyzed (1): 06/20/2015

Instrument ID (1): GCE21 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.1	67	50-120
Heptachlor epoxide	1.7	1.3	76	50-150
Dieldrin	3.3	2.5	74	30-130
4,4'-DDE	3.3	2.4	72	50-150
Endrin	3.3	2.6	78	50-120
Endosulfan sulfate	3.3	2.2	66	50-120
gamma-Chlordane	1.7	1.2	69	30-130

Instrument ID (2): GCE21 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 06/20/2015

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.2	73	50-120
Heptachlor epoxide	1.7	1.2	74	50-150
Dieldrin	3.3	2.5	74	30-130
4,4'-DDE	3.3	2.4	73	50-150
Endrin	3.3	2.6	79	50-120
Endosulfan sulfate	3.3	2.2	65	50-120
gamma-Chlordane	1.7	1.2	73	30-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 14 outside limits.

COMMENTS: _____

4E - FORM IV PEST

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: 21150619A020,21150619B020 Lab Sample ID: 450508

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 06/08/2015

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Date Analyzed (1): 06/20/2015 Date Analyzed (2): 06/20/2015

Time Analyzed (1): 00:52 Time Analyzed (2): 01:12

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	PLCSS1	450509	06/20/2015	06/20/2015
02	F9M36	1515552001	06/20/2015	06/20/2015
03	F9M42	1515552004	06/20/2015	06/20/2015
04	F9M43	1515552005	06/20/2015	06/20/2015
05	F9M44	1515552006	06/20/2015	06/20/2015
06	F9M45	1515552007	06/20/2015	06/20/2015
07	F9M36MS	1515552002	06/20/2015	06/20/2015
08	F9M36MSD	1515552003	06/20/2015	06/20/2015
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 21150619A022,21150619B022

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

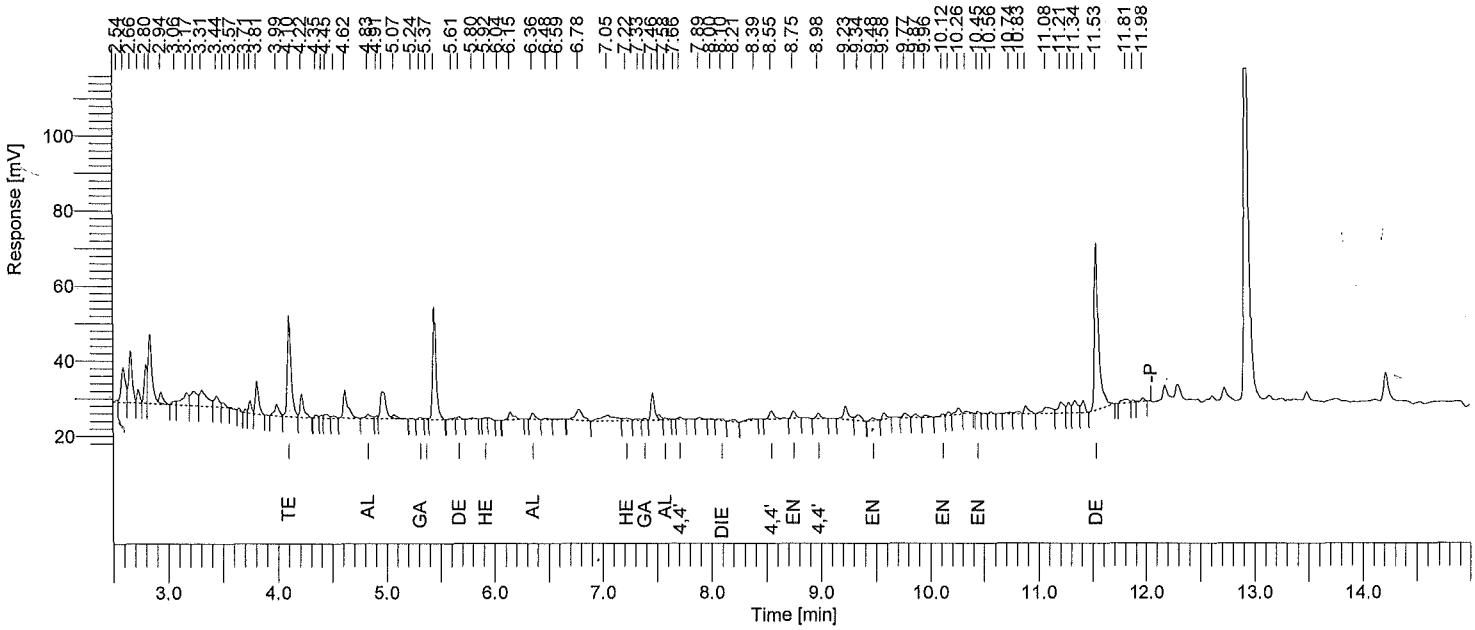
Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.23	JBP
319-85-7	beta-BHC	0.23	JB
319-86-8	delta-BHC	0.26	JBP
58-89-9	gamma-BHC (Lindane)	0.22	JP
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.27	JP
72-55-9	4,4'-DDE	0.24	JP
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	0.34	JBP
72-54-8	4,4'-DDD	0.067	JP
1031-07-8	Endosulfan sulfate	0.31	JP
50-29-3	4,4'-DDT	0.75	JP
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	0.18	JBP
7421-93-4	Endrin aldehyde	0.55	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.20	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:04
Operator	: sagers	Sample Name	: 1515552001
Sample Number	: 022	Study	: F9M36
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 01:33:34	Dilution Factor	: 1.00
		Cycle	: 1

Raw Data File : \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619A_022.raw <Modified>
Result File : \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619A_022.rst
Inst Method : \\AIsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619A_022.raw
Proc Method : \\AIsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619A_022.rst
Calib Method : \\AIsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619A_022.rst
Report Format File: \\AIsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
Sequence File : \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.10	Tetrachloro-m-xylene	64445	0.02777595	1	10	0.03010	0.997	1.6611	9.22789	19.93	46.3
4.83	alpha-BHC	3717	1.2308e-03	1	10	0.03010	0.997	1.6611	0.40891	0.00	------
5.31	gamma-BHC	1473	5.2705e-04	1	10	0.03010	0.997	1.6611	0.17510	0.00	------
5.37	beta-BHC	800	5.4210e-04	1	10	0.03010	0.997	1.6611	0.18010	0.00	------
5.67	delta-BHC	1692	6.2304e-04	1	10	0.03010	0.997	1.6611	0.20699	0.00	------
5.92	Heptachlor	291	9.8465e-05	1	10	0.03010	0.997	1.6611	0.03271	0.00	------
6.36	Aldrin	4308	1.6541e-03	1	10	0.03010	0.997	1.6611	0.54953	0.00	------
7.22	Heptachlor epoxide	3046	1.2275e-03	1	10	0.03010	0.997	1.6611	0.40780	0.00	------
7.39	gamma-Chlordane	1220	4.7922e-04	1	10	0.03010	0.997	1.6611	0.15921	0.00	------
7.58	alpha-Chlordane	1535	5.9052e-04	1	10	0.03010	0.997	1.6611	0.19619	0.00	------
7.71	4,4'-DDE	1257	5.8360e-04	1	10	0.03010	0.997	3.3223	0.19389	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.10	Dieldrin	1494	6.4460e-04	1	10	0.03010	0.997	3.3223	0.21415	0.00	------
8.49	Endrin	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.55	4,4'-DDD	7237	3.9003e-03	1	10	0.03010	0.997	3.3223	1.29579	0.00	------
8.75	Endosulfan II	4665	2.3127e-03	1	10	0.03010	0.997	3.3223	0.76833	0.00	------
8.98	4,4'-DDT	3662	1.7915e-03	1	10	0.03010	0.997	3.3223	0.59518	0.00	------
9.48	Endrin aldehyde	2225	1.3011e-03	1	10	0.03010	0.997	3.3223	0.43227	0.00	------
9.68	Methoxychlor	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
10.12	Endosulfan sulfate	1366	7.4003e-04	1	10	0.03010	0.997	3.3223	0.24586	0.00	------
10.45	Endrin ketone	1001	4.2572e-04	1	10	0.03010	0.997	3.3223	0.14144	0.00	------
11.53	Decachlorobiphenyl	120293	0.06057493	1	10	0.03010	0.997	3.3223	20.12456	39.87	50.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:10:09
Operator	: sagers	Sample Name	: 1515552001
Sample Number	: 022	Study	: F9M36
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 01:54:20	Dilution Factor	: 1.00
		Cycle	: 1

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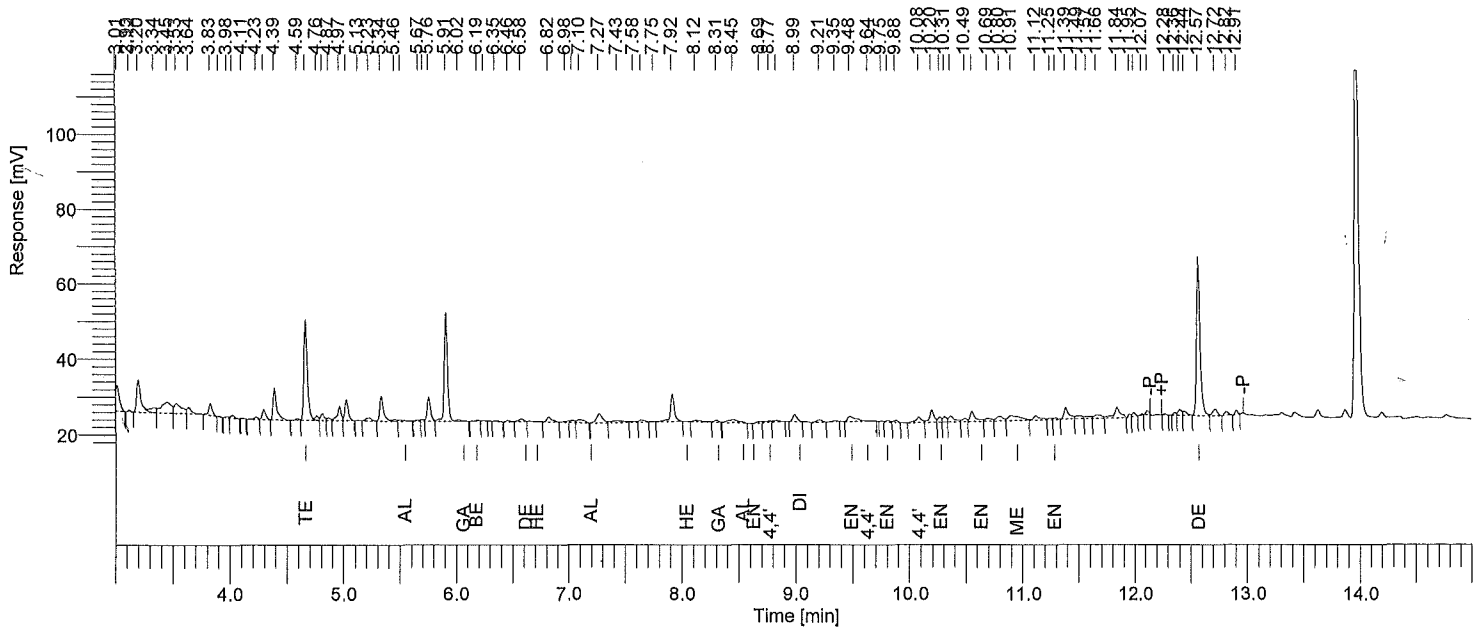

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.66	Tetrachloro-m-xylene	56022	0.02814091	1	10	0.03010	0.997	1.6611	9.34914	19.93	46.9
5.51	alpha-BHC	1349	5.4003e-04	1	10	0.03010	0.997	1.6611	0.17941	0.00	------
6.02	gamma-BHC	1621	7.0944e-04	1	10	0.03010	0.997	1.6611	0.23569	0.00	------
6.19	beta-BHC	703	5.7758e-04	1	10	0.03010	0.997	1.6611	0.19189	0.00	------
6.58	delta-BHC	1902	8.7156e-04	1	10	0.03010	0.997	1.6611	0.28955	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
7.20	Aldrin	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.31	gamma-Chlordane	1319	6.4870e-04	1	10	0.03010	0.997	1.6611	0.21551	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.77	4,4'-DDE	1726	9.5109e-04	1	10	0.03010	0.997	3.3223	0.31598	0.00	------
8.99	Dieldrin	4883	2.5857e-03	1	10	0.03010	0.997	3.3223	0.85905	0.00	------
9.48	Endrin	6912	4.2145e-03	1	10	0.03010	0.997	3.3223	1.40015	0.00	------
9.64	4,4'-DDD	236	1.5946e-04	1	10	0.03010	0.997	3.3223	0.05298	0.00	------
9.81	Endosulfan II	1290	8.0302e-04	1	10	0.03010	0.997	3.3223	0.26678	0.00	------
10.08	4,4'-DDT	5292	3.3230e-03	1	10	0.03010	0.997	3.3223	1.10398	0.00	------
10.27	Endrin aldehyde	3094	2.4181e-03	1	10	0.03010	0.997	3.3223	0.80337	0.00	------
10.69	Endosulfan sulfate	3274	2.2634e-03	1	10	0.03010	0.997	3.3223	0.75195	0.00	------
10.91	Methoxychlor	10675	0.01385388	1	10	0.03010	0.997	16.6113	4.60262	0.00	------
11.30	Endrin ketone	1308	7.2605e-04	1	10	0.03010	0.997	3.3223	0.24121	0.00	------
12.57	Decachlorobiphenyl	94569	0.06072415	1	10	0.03010	0.997	3.3223	20.17413	39.87	50.6

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552004

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 21150619A025,21150619B025

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.12	JBP
319-85-7	beta-BHC	0.82	JBP
319-86-8	delta-BHC	1.4	JBP
58-89-9	gamma-BHC (Lindane)	0.096	JP
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	0.60	J
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.39	JP
72-55-9	4,4'-DDE	0.62	JP
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	2.1	JBP
72-54-8	4,4'-DDD	0.73	JP
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	0.46	J
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	0.39	JBP
7421-93-4	Endrin aldehyde	0.19	JP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.41	JP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:10
Operator	: sagers	Sample Name	: 1515552004
Sample Number	: 025	Study	: F9M42
AutoSampler	: HP7673A	Rack/Vial	: 0/25
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/20/2015 02:35:54	Cycle	: 4

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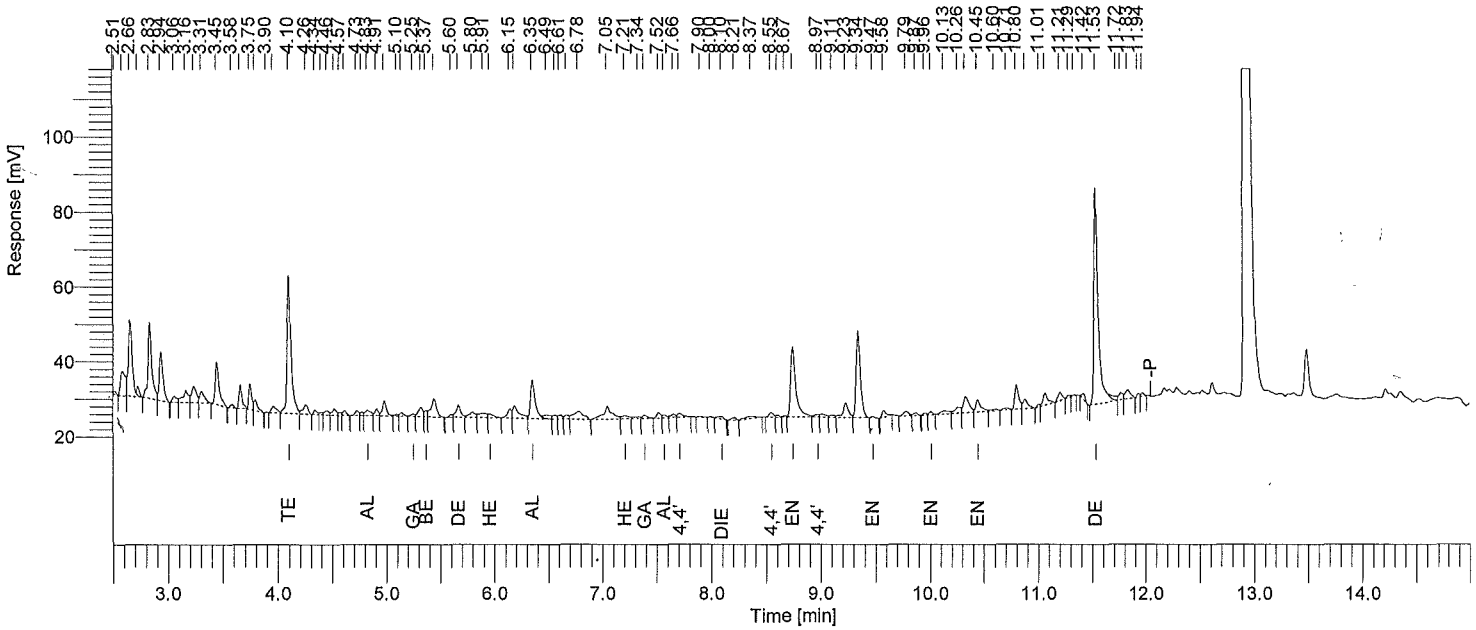

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.10	Tetrachloro-m-xylene	91503	0.03943839	1	10	0.03009	0.997	1.6617	13.10681	19.94	65.7
4.83	alpha-BHC	5605	1.8559e-03	1	10	0.03009	0.997	1.6617	0.61677	0.00	------
5.25	gamma-BHC	1716	6.1409e-04	1	10	0.03009	0.997	1.6617	0.20408	0.00	------
5.37	beta-BHC	3058	2.0733e-03	1	10	0.03009	0.997	1.6617	0.68904	0.00	------
5.67	delta-BHC	9483	3.4920e-03	1	10	0.03009	0.997	1.6617	1.16052	0.00	------
5.96	Heptachlor	3504	1.1846e-03	1	10	0.03009	0.997	1.6617	0.39368	0.00	------
6.35	Aldrin	31269	0.01200592	1	10	0.03009	0.997	1.6617	3.99000	0.00	------
7.21	Heptachlor epoxide	3748	1.5105e-03	1	10	0.03009	0.997	1.6617	0.50199	0.00	------
7.39	gamma-Chlordane	2640	1.0370e-03	1	10	0.03009	0.997	1.6617	0.34463	0.00	------
7.57	alpha-Chlordane	2288	8.8028e-04	1	10	0.03009	0.997	1.6617	0.29255	0.00	------
7.71	4,4'-DDE	3379	1.5692e-03	1	10	0.03009	0.997	3.3234	0.52150	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03009	0.997	---------	0.00000	--------	------
8.10	Dieldrin	2303	9.9352e-04	1	10	0.03009	0.997	3.3234	0.33018	0.00	------
8.49	Endrin	0	0.00000000	1	10	0.03009	0.997	---------	0.00000	--------	------
8.55	4,4'-DDD	3411	1.8383e-03	1	10	0.03009	0.997	3.3234	0.61092	0.00	------
8.74	Endosulfan II	61752	0.03061497	1	10	0.03009	0.997	3.3234	10.17447	0.00	------
8.97	4,4'-DDT	2347	1.1479e-03	1	10	0.03009	0.997	3.3234	0.38150	0.00	------
9.47	Endrin aldehyde	828	4.8440e-04	1	10	0.03009	0.997	3.3234	0.16098	0.00	------
9.68	Methoxychlor	0	0.00000000	1	10	0.03009	0.997	---------	0.00000	--------	------
10.01	Endosulfan sulfate	2004	1.0859e-03	1	10	0.03009	0.997	3.3234	0.36088	0.00	------
10.45	Endrin ketone	10894	4.6321e-03	1	10	0.03009	0.997	3.3234	1.53940	0.00	------
11.53	Decachlorobiphenyl	155845	0.07847761	1	10	0.03009	0.997	3.3234	26.08096	39.88	65.4

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:10:15
Operator	: sagers	Sample Name	: 1515552004
Sample Number	: 025	Study	: F9M42
AutoSampler	: HP7673A	Rack/Vial	: 0/25
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 02:56:44	Dilution Factor	: 1.00
		Cycle	: 4

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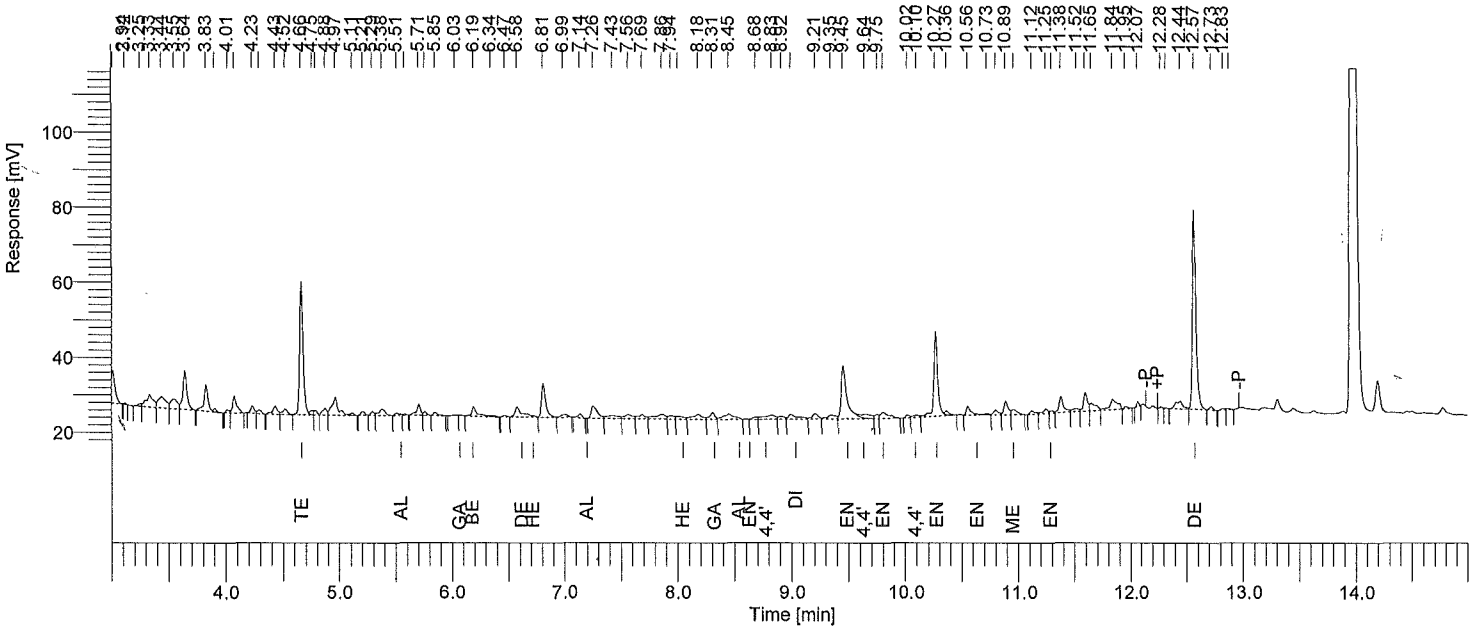

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.66	Tetrachloro-m-xylene	75277	0.03781348	1	10	0.03009	0.997	1.6617	12.56679	19.94	63.0
5.58	alpha-BHC	733	2.9328e-04	1	10	0.03009	0.997	1.6617	0.09747	0.00	------
6.03	gamma-BHC	551	2.4121e-04	1	10	0.03009	0.997	1.6617	0.08016	0.00	------
6.19	beta-BHC	8820	7.2432e-03	1	10	0.03009	0.997	1.6617	2.40718	0.00	------
6.58	delta-BHC	12775	5.8553e-03	1	10	0.03009	0.997	1.6617	1.94593	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03009	0.997	--------	0.00000	--------	------
7.20	Aldrin	0	0.00000000	1	10	0.03009	0.997	--------	0.00000	--------	------
8.01	Heptachlor epoxide	3643	1.8598e-03	1	10	0.03009	0.997	1.6617	0.61809	0.00	------
8.31	gamma-Chlordane	5743	2.8250e-03	1	10	0.03009	0.997	1.6617	0.93884	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03009	0.997	--------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03009	0.997	--------	0.00000	--------	------
8.83	4,4'-DDE	7606	4.1917e-03	1	10	0.03009	0.997	3.3234	1.39305	0.00	------
8.99	Dieldrin	6924	3.6665e-03	1	10	0.03009	0.997	3.3234	1.21852	0.00	------
9.45	Endrin	50683	0.03090231	1	10	0.03009	0.997	3.3234	10.26996	0.00	------
9.64	4,4'-DDD	7497	5.0688e-03	1	10	0.03009	0.997	3.3234	1.68454	0.00	------
9.80	Endosulfan II	8622	5.3651e-03	1	10	0.03009	0.997	3.3234	1.78303	0.00	------
10.10	4,4'-DDT	2272	1.4265e-03	1	10	0.03009	0.997	3.3234	0.47409	0.00	------
10.27	Endrin aldehyde	55111	0.04306870	1	10	0.03009	0.997	3.3234	14.31329	0.00	------
10.64	Endosulfan sulfate	0	0.00000000	1	10	0.03009	0.997	--------	0.00000	--------	------
10.96	Methoxychlor	5205	6.7553e-03	1	10	0.03009	0.997	16.6168	2.24504	0.00	------
11.30	Endrin ketone	1777	9.8699e-04	1	10	0.03009	0.997	3.3234	0.32801	0.00	------
12.57	Decachlorobiphenyl	118500	0.07609042	1	10	0.03009	0.997	3.3234	25.28761	39.88	63.4

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552005

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150619A026,21150619B026

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.043	JBP
319-85-7	beta-BHC	0.41	JBP
319-86-8	delta-BHC	0.52	JBP
58-89-9	gamma-BHC (Lindane)	0.19	JP
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.27	JP
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	0.81	JP
33213-65-9	Endosulfan II	2.0	JBP
72-54-8	4,4'-DDD	0.25	JP
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	1.4	JP
53494-70-5	Endrin ketone	0.28	JBP
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.22	JP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:12
Operator	: sagers	Sample Name	: 1515552005
Sample Number	: 026	Study	: F9M43
AutoSampler	: HP7673A	Rack/Vial	: 0/26
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/20/2015 02:56:44	Cycle	: 5

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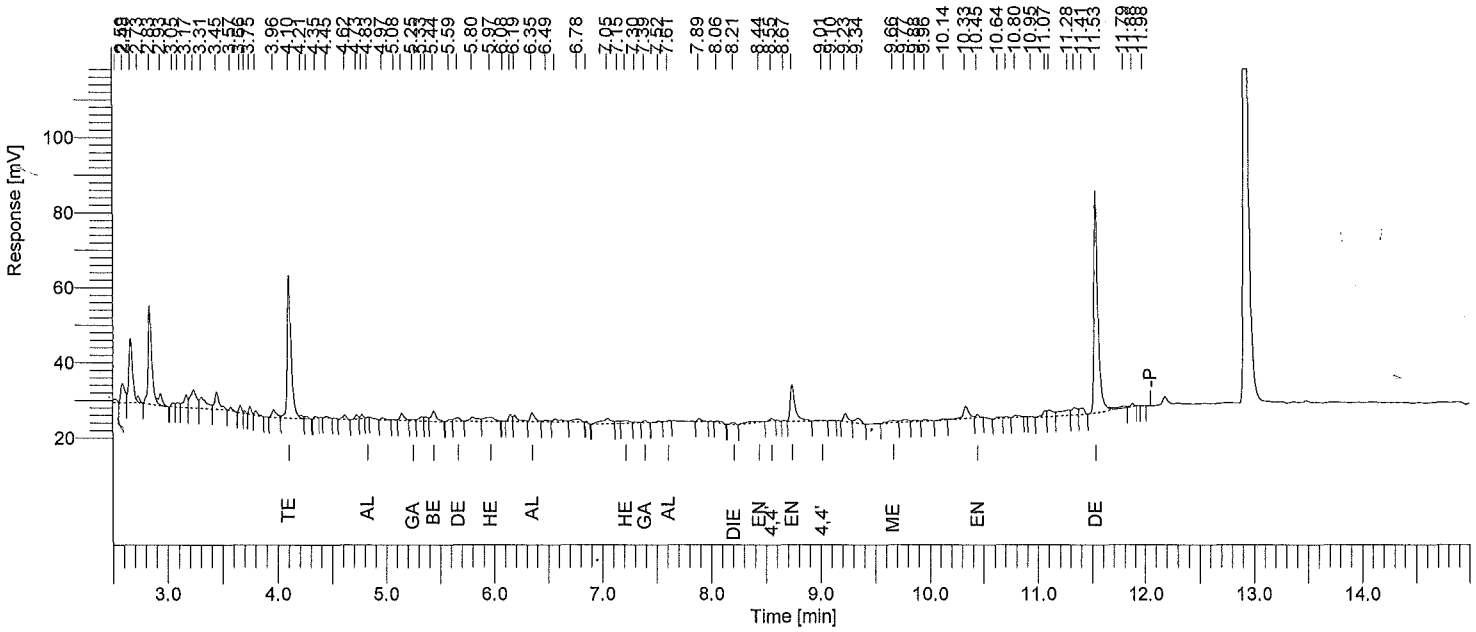

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.10	Tetrachloro-m-xylene	92840	0.04001443	1	10	0.03015	0.995	1.6584	13.27179	19.90	66.7
4.83	alpha-BHC	336	1.1120e-04	1	10	0.03015	0.995	1.6584	0.03688	0.00	------
5.25	gamma-BHC	1338	4.7887e-04	1	10	0.03015	0.995	1.6584	0.15883	0.00	------
5.44	beta-BHC	9486	6.4317e-03	1	10	0.03015	0.995	1.6584	2.13322	0.00	------
5.67	delta-BHC	3634	1.3382e-03	1	10	0.03015	0.995	1.6584	0.44385	0.00	------
5.97	Heptachlor	7396	2.5005e-03	1	10	0.03015	0.995	1.6584	0.82936	0.00	------
6.35	Aldrin	7234	2.7777e-03	1	10	0.03015	0.995	1.6584	0.92129	0.00	------
7.22	Heptachlor epoxide	3725	1.5012e-03	1	10	0.03015	0.995	1.6584	0.49790	0.00	------
7.39	gamma-Chlordane	1434	5.6341e-04	1	10	0.03015	0.995	1.6584	0.18687	0.00	------
7.61	alpha-Chlordane	475	1.8260e-04	1	10	0.03015	0.995	1.6584	0.06056	0.00	------
7.72	4,4'-DDE	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.21	Dieldrin	1607	6.9310e-04	1	10	0.03015	0.995	3.3167	0.22989	0.00	------
8.44	Endrin	4240	2.0759e-03	1	10	0.03015	0.995	3.3167	0.68853	0.00	------
8.55	4,4'-DDD	1198	6.4583e-04	1	10	0.03015	0.995	3.3167	0.21421	0.00	------
8.74	Endosulfan II	29997	0.01487186	1	10	0.03015	0.995	3.3167	4.93262	0.00	------
9.01	4,4'-DDT	1243	6.0825e-04	1	10	0.03015	0.995	3.3167	0.20174	0.00	------
9.42	Endrin aldehyde	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
9.66	Methoxychlor	3795	3.7142e-03	1	10	0.03015	0.995	16.5837	1.23192	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
10.45	Endrin ketone	1692	7.1932e-04	1	10	0.03015	0.995	3.3167	0.23858	0.00	------
11.53	Decachlorobiphenyl	150165	0.07561757	1	10	0.03015	0.995	3.3167	25.08045	39.80	63.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:10:17
Operator	: sagers	Sample Name	: 1515552005
Sample Number	: 026	Study	: F9M43
AutoSampler	: HP7673A	Rack/Vial	: 0/26
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 03:17:34	Dilution Factor	: 1.00
		Cycle	: 5

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
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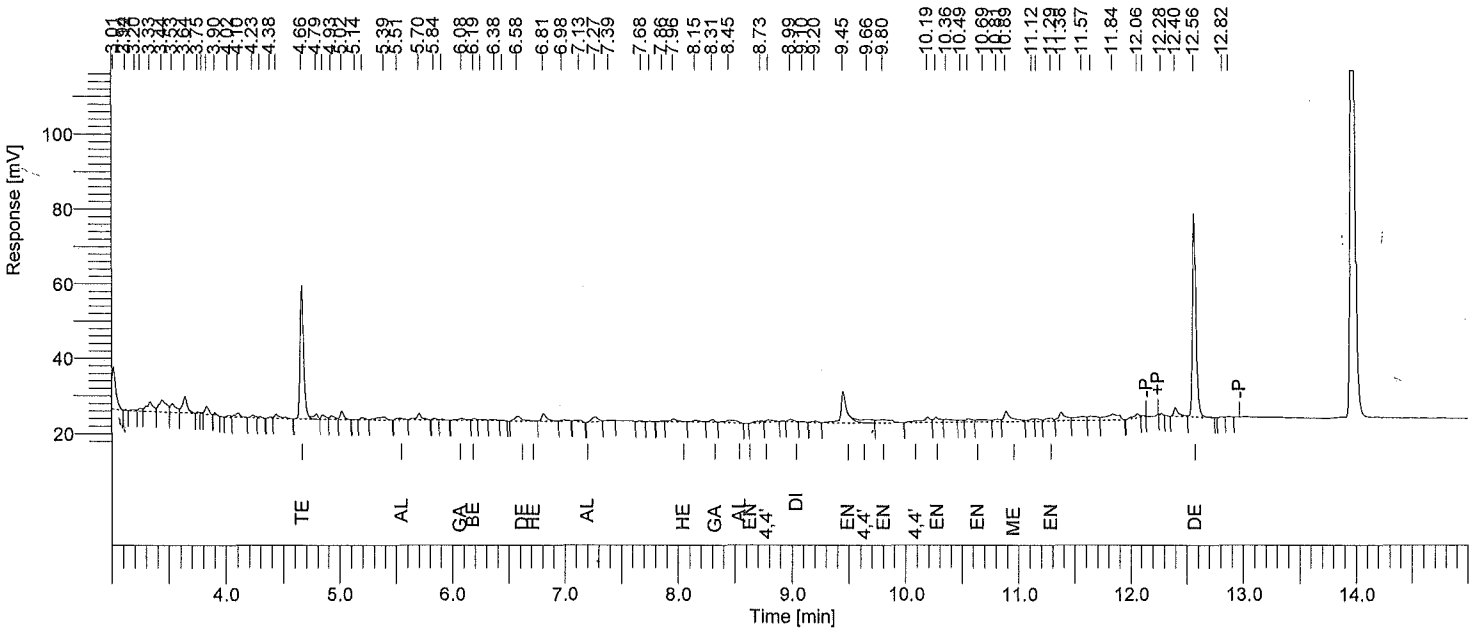

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.66	Tetrachloro-m-xylene	75507	0.03792873	1	10	0.03015	0.995	1.6584	12.58001	19.90	63.2
5.51	alpha-BHC	1812	7.2527e-04	1	10	0.03015	0.995	1.6584	0.24056	0.00	------
6.08	gamma-BHC	2476	1.0837e-03	1	10	0.03015	0.995	1.6584	0.35944	0.00	------
6.19	beta-BHC	1302	1.0689e-03	1	10	0.03015	0.995	1.6584	0.35452	0.00	------
6.58	delta-BHC	6219	2.8502e-03	1	10	0.03015	0.995	1.6584	0.94535	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
7.20	Aldrin	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.31	gamma-Chlordane	1935	9.5183e-04	1	10	0.03015	0.995	1.6584	0.31570	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.80	4,4'-DDE	2445	1.3476e-03	1	10	0.03015	0.995	3.3167	0.44696	0.00	------
8.99	Dieldrin	1951	1.0334e-03	1	10	0.03015	0.995	3.3167	0.34275	0.00	------
9.45	Endrin	31389	0.01913843	1	10	0.03015	0.995	3.3167	6.34774	0.00	------
9.66	4,4'-DDD	8533	5.7696e-03	1	10	0.03015	0.995	3.3167	1.91362	0.00	------
9.80	Endosulfan II	8258	5.1389e-03	1	10	0.03015	0.995	3.3167	1.70446	0.00	------
10.08	4,4'-DDT	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
10.27	Endrin aldehyde	5180	4.0484e-03	1	10	0.03015	0.995	3.3167	1.34277	0.00	------
10.69	Endosulfan sulfate	4512	3.1195e-03	1	10	0.03015	0.995	3.3167	1.03466	0.00	------
10.89	Methoxychlor	12100	0.01570344	1	10	0.03015	0.995	16.5837	5.20844	0.00	------
11.29	Endrin ketone	3759	2.0873e-03	1	10	0.03015	0.995	3.3167	0.69232	0.00	------
12.56	Decachlorobiphenyl	119511	0.07673941	1	10	0.03015	0.995	3.3167	25.45254	39.80	63.9

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552006

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 21150619A027,21150619B027

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.37	JB
319-85-7	beta-BHC	0.26	JBP
319-86-8	delta-BHC	0.57	JBP
58-89-9	gamma-BHC (Lindane)	0.34	JP
76-44-8	Heptachlor	0.25	JP
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.39	JP
72-55-9	4,4'-DDE	0.14	JP
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	0.78	JBP
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	0.44	JP
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	0.17	JBP
7421-93-4	Endrin aldehyde	1.5	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.19	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:14
Operator	: sagers	Sample Name	: 1515552006
Sample Number	: 027	Study	: F9M44
AutoSampler	: HP7673A	Rack/Vial	: 0/27
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 03:17:34	Dilution Factor	: 1.00
		Cycle	: 6

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_027.rst
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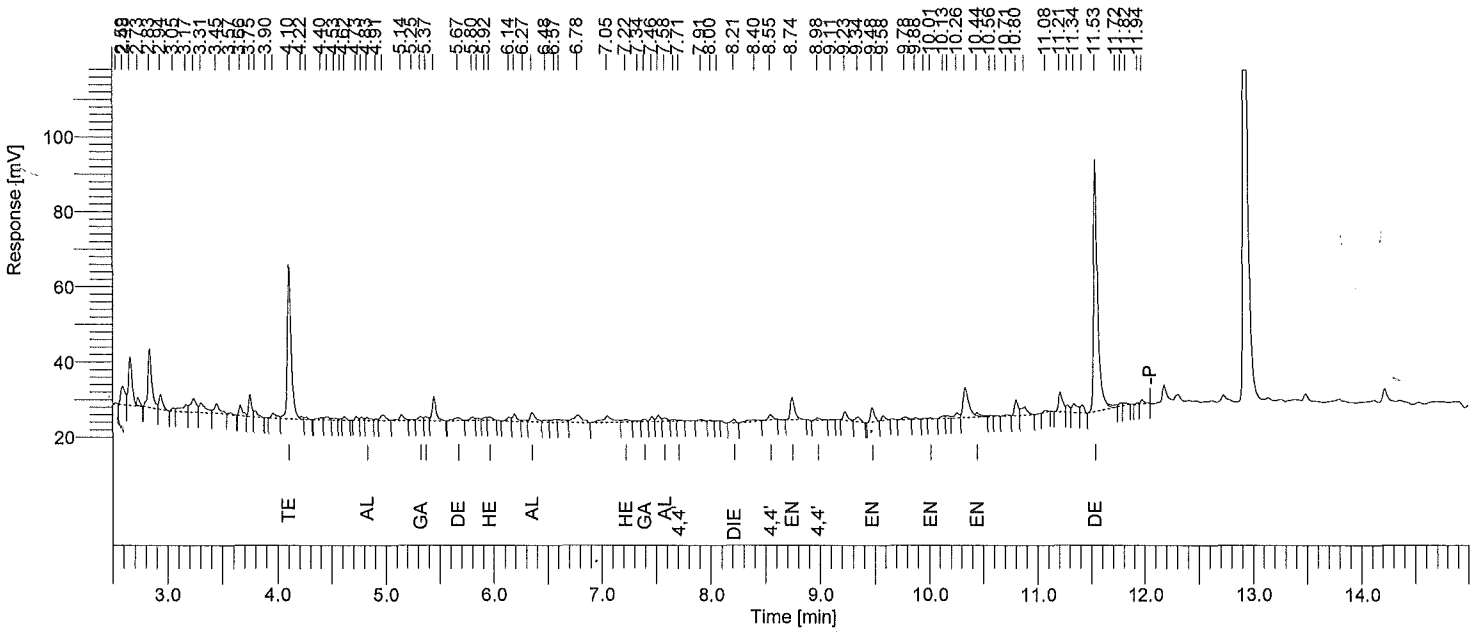

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.10	Tetrachloro-m-xylene	99614	0.04293426	1	10	0.03010	0.997	1.6611	14.26387	19.93	71.6
4.83	alpha-BHC	2772	9.1796e-04	1	10	0.03010	0.997	1.6611	0.30497	0.00	------
5.32	gamma-BHC	3057	1.0936e-03	1	10	0.03010	0.997	1.6611	0.36333	0.00	------
5.37	beta-BHC	2883	1.9544e-03	1	10	0.03010	0.997	1.6611	0.64931	0.00	------
5.67	delta-BHC	3824	1.4082e-03	1	10	0.03010	0.997	1.6611	0.46783	0.00	------
5.96	Heptachlor	2689	9.0893e-04	1	10	0.03010	0.997	1.6611	0.30197	0.00	------
6.35	Aldrin	8655	3.3231e-03	1	10	0.03010	0.997	1.6611	1.10401	0.00	------
7.22	Heptachlor epoxide	3076	1.2395e-03	1	10	0.03010	0.997	1.6611	0.41179	0.00	------
7.39	gamma-Chlordane	1703	6.6912e-04	1	10	0.03010	0.997	1.6611	0.22230	0.00	------
7.58	alpha-Chlordane	2753	1.0592e-03	1	10	0.03010	0.997	1.6611	0.35189	0.00	------
7.71	4,4'-DDE	727	3.3774e-04	1	10	0.03010	0.997	3.3223	0.11221	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.21	Dieldrin	2222	9.5846e-04	1	10	0.03010	0.997	3.3223	0.31842	0.00	------
8.49	Endrin	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.55	4,4'-DDD	3679	1.9831e-03	1	10	0.03010	0.997	3.3223	0.65884	0.00	------
8.74	Endosulfan II	15904	7.8850e-03	1	10	0.03010	0.997	3.3223	2.61962	0.00	------
8.98	4,4'-DDT	2233	1.0925e-03	1	10	0.03010	0.997	3.3223	0.36297	0.00	------
9.48	Endrin aldehyde	9917	5.7990e-03	1	10	0.03010	0.997	3.3223	1.92656	0.00	------
9.68	Methoxychlor	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
10.01	Endosulfan sulfate	709	3.8439e-04	1	10	0.03010	0.997	3.3223	0.12770	0.00	------
10.44	Endrin ketone	2852	1.2125e-03	1	10	0.03010	0.997	3.3223	0.40282	0.00	------
11.53	Decachlorobiphenyl	173663	0.08744994	1	10	0.03010	0.997	3.3223	29.05314	39.87	72.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:10:19
Operator	: sagers	Sample Name	: 1515552006
Sample Number	: 027	Study	: F9M44
AutoSampler	: HP7673A	Rack/Vial	: 0/27
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 03:38:20	Dilution Factor	: 1.00
		Cycle	: 6

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_027.raw <Modified>
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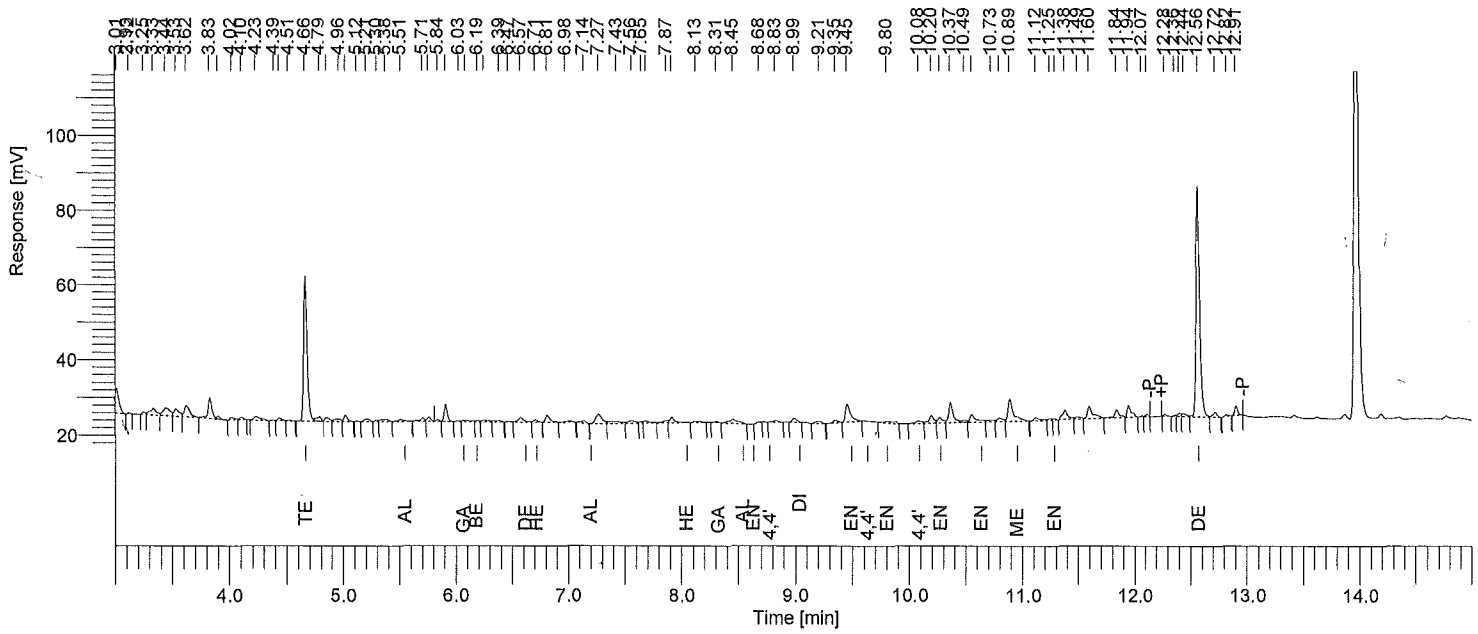

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.66	Tetrachloro-m-xylene	81246	0.04081178	1	10	0.03010	0.997	1.6611	13.55873	19.93	68.0
5.51	alpha-BHC	2636	1.0550e-03	1	10	0.03010	0.997	1.6611	0.35050	0.00	------
6.08	gamma-BHC	1934	8.4667e-04	1	10	0.03010	0.997	1.6611	0.28129	0.00	------
6.19	beta-BHC	783	6.4271e-04	1	10	0.03010	0.997	1.6611	0.21352	0.00	------
6.57	delta-BHC	4367	2.0016e-03	1	10	0.03010	0.997	1.6611	0.66497	0.00	------
6.71	Heptachlor	1419	6.1137e-04	1	10	0.03010	0.997	1.6611	0.20311	0.00	------
7.20	Aldrin	0	0.00000000	1	10	0.03010	0.997	--------	0.00000	--------	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03010	0.997	--------	0.00000	--------	------
8.31	gamma-Chlordane	943	4.6378e-04	1	10	0.03010	0.997	1.6611	0.15408	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03010	0.997	--------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03010	0.997	--------	0.00000	--------	------
8.83	4,4'-DDE	1313	7.2361e-04	1	10	0.03010	0.997	3.3223	0.24040	0.00	------
8.99	Dieldrin	2952	1.5634e-03	1	10	0.03010	0.997	3.3223	0.51941	0.00	------
9.45	Endrin	15149	9.2368e-03	1	10	0.03010	0.997	3.3223	3.06870	0.00	------
9.63	4,4'-DDD	0	0.00000000	1	10	0.03010	0.997	--------	0.00000	--------	------
9.80	Endosulfan II	3072	1.9117e-03	1	10	0.03010	0.997	3.3223	0.63513	0.00	------
10.08	4,4'-DDT	2998	1.8821e-03	1	10	0.03010	0.997	3.3223	0.62528	0.00	------
10.27	Endrin aldehyde	4680	3.6570e-03	1	10	0.03010	0.997	3.3223	1.21495	0.00	------
10.64	Endosulfan sulfate	0	0.00000000	1	10	0.03010	0.997	--------	0.00000	--------	------
10.89	Methoxychlor	20542	0.02665949	1	10	0.03010	0.997	16.6113	8.85697	0.00	------
11.29	Endrin ketone	740	4.1115e-04	1	10	0.03010	0.997	3.3223	0.13659	0.00	------
12.56	Decachlorobiphenyl	136354	0.08755464	1	10	0.03010	0.997	3.3223	29.08792	39.87	73.0

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 21150619A028,21150619B028

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.027	JBP
319-85-7	beta-BHC	0.31	JBP
319-86-8	delta-BHC	0.56	JB
58-89-9	gamma-BHC (Lindane)	0.15	JP
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.19	JP
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	0.74	JBP
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	1.3	JP
53494-70-5	Endrin ketone	0.48	JBP
7421-93-4	Endrin aldehyde	1.2	JP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.19	JP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:16
Operator	: sagers	Sample Name	: 1515552007
Sample Number	: 028	Study	: F9M45
AutoSampler	: HP7673A	Rack/Vial	: 0/28
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 03:38:20	Dilution Factor	: 1.00
		Cycle	: 7

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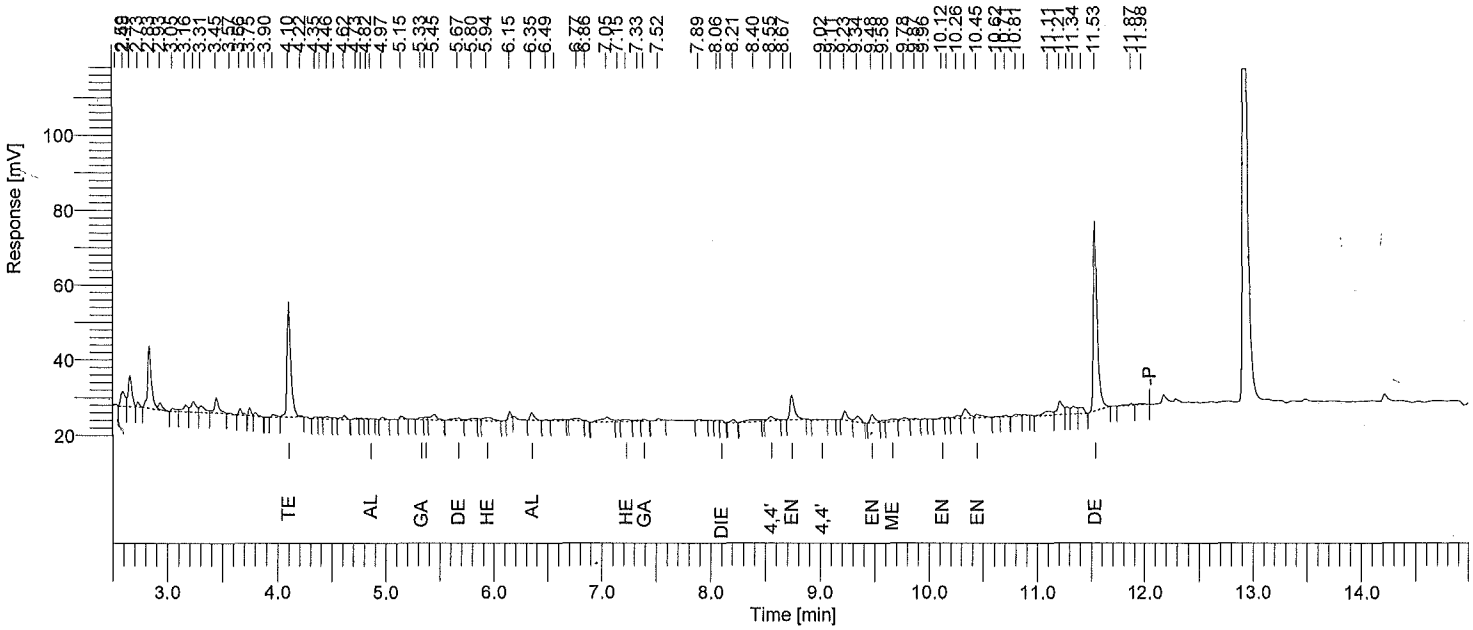

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.10	Tetrachloro-m-xylene	73691	0.03176118	1	10	0.03032	0.989	1.6491	10.47532	19.79	52.9
4.86	alpha-BHC	203	6.7158e-05	1	10	0.03032	0.989	1.6491	0.02215	0.00	------
5.33	gamma-BHC	1485	5.3121e-04	1	10	0.03032	0.989	1.6491	0.17520	0.00	------
5.37	beta-BHC	1567	1.0623e-03	1	10	0.03032	0.989	1.6491	0.35036	0.00	------
5.67	delta-BHC	3842	1.4148e-03	1	10	0.03032	0.989	1.6491	0.46661	0.00	------
5.94	Heptachlor	6190	2.0928e-03	1	10	0.03032	0.989	1.6491	0.69024	0.00	------
6.35	Aldrin	5093	1.9555e-03	1	10	0.03032	0.989	1.6491	0.64497	0.00	------
7.23	Heptachlor epoxide	3074	1.2387e-03	1	10	0.03032	0.989	1.6491	0.40855	0.00	------
7.39	gamma-Chlordane	1237	4.8588e-04	1	10	0.03032	0.989	1.6491	0.16025	0.00	------
7.60	alpha-Chlordane	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
7.72	4,4'-DDE	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
8.10	Dieldrin	1128	4.8672e-04	1	10	0.03032	0.989	3.2982	0.16053	0.00	------
8.49	Endrin	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
8.55	4,4'-DDD	5213	2.8094e-03	1	10	0.03032	0.989	3.2982	0.92659	0.00	------
8.74	Endosulfan II	18453	9.1484e-03	1	10	0.03032	0.989	3.2982	3.01728	0.00	------
9.02	4,4'-DDT	1032	5.0474e-04	1	10	0.03032	0.989	3.2982	0.16647	0.00	------
9.48	Endrin aldehyde	6548	3.8286e-03	1	10	0.03032	0.989	3.2982	1.26274	0.00	------
9.66	Methoxychlor	3424	3.3511e-03	1	10	0.03032	0.989	16.4908	1.10525	0.00	------
10.12	Endosulfan sulfate	1161	6.2885e-04	1	10	0.03032	0.989	3.2982	0.20741	0.00	------
10.45	Endrin ketone	4224	1.7958e-03	1	10	0.03032	0.989	3.2982	0.59230	0.00	------
11.53	Decachlorobiphenyl	127664	0.06428652	1	10	0.03032	0.989	3.2982	21.20268	39.58	53.6

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:10:21
Operator	: sagers	Sample Name	: 1515552007
Sample Number	: 028	Study	: F9M45
AutoSampler	: HP7673A	Rack/Vial	: 0/28
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/20/2015 03:59:19	Cycle	: 7

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_028.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
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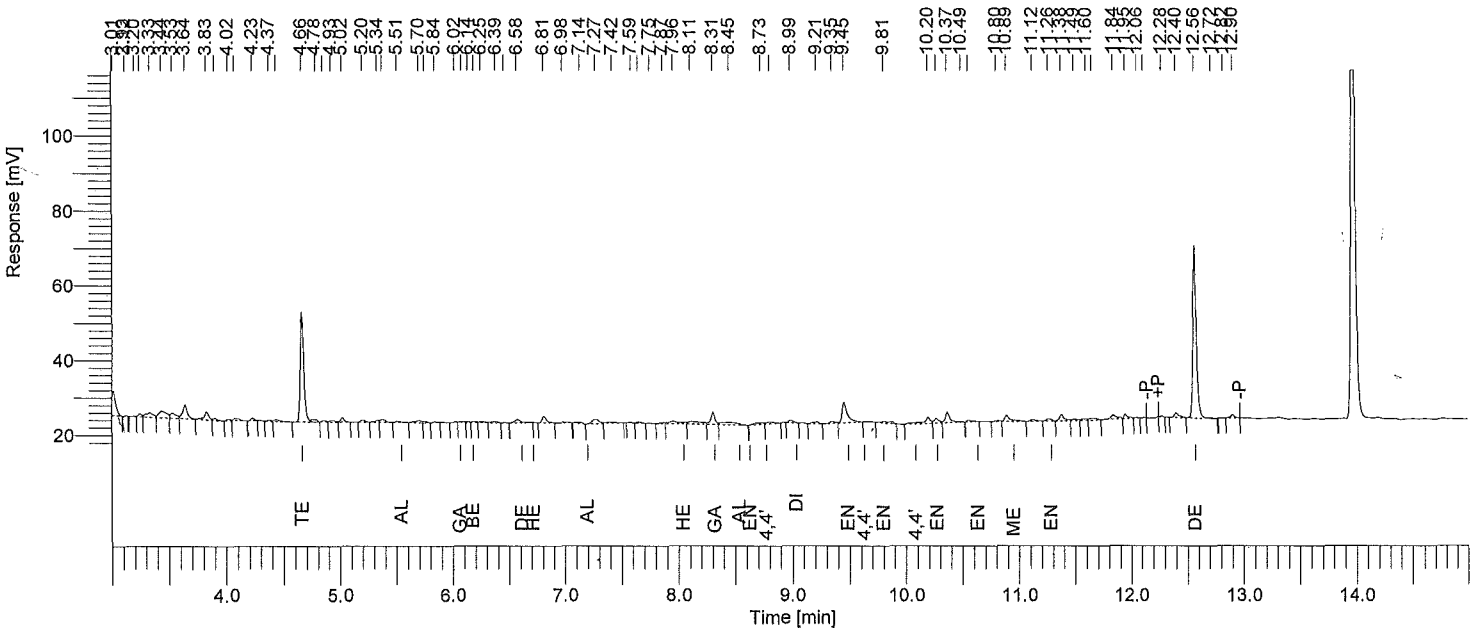

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.66	Tetrachloro-m-xylene	62236	0.03126235	1	10	0.03032	0.989	1.6491	10.31080	19.79	52.1
5.51	alpha-BHC	1126	4.5080e-04	1	10	0.03032	0.989	1.6491	0.14868	0.00	------
6.08	gamma-BHC	864	3.7801e-04	1	10	0.03032	0.989	1.6491	0.12467	0.00	------
6.19	beta-BHC	969	7.9544e-04	1	10	0.03032	0.989	1.6491	0.26235	0.00	------
6.58	delta-BHC	3505	1.6064e-03	1	10	0.03032	0.989	1.6491	0.52980	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
7.20	Aldrin	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
8.31	gamma-Chlordane	8213	4.0401e-03	1	10	0.03032	0.989	1.6491	1.33249	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
8.80	4,4'-DDE	2038	1.1234e-03	1	10	0.03032	0.989	3.2982	0.37052	0.00	------
8.99	Dieldrin	2014	1.0666e-03	1	10	0.03032	0.989	3.2982	0.35178	0.00	------
9.45	Endrin	17837	0.01087566	1	10	0.03032	0.989	3.2982	3.58696	0.00	------
9.63	4,4'-DDD	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
9.81	Endosulfan II	3007	1.8713e-03	1	10	0.03032	0.989	3.2982	0.61718	0.00	------
10.08	4,4'-DDT	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
10.27	Endrin aldehyde	3803	2.9717e-03	1	10	0.03032	0.989	3.2982	0.98010	0.00	------
10.64	Endosulfan sulfate	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
10.89	Methoxychlor	6000	7.7874e-03	1	10	0.03032	0.989	16.4908	2.56840	0.00	------
11.26	Endrin ketone	2173	1.2066e-03	1	10	0.03032	0.989	3.2982	0.39796	0.00	------
12.56	Decachlorobiphenyl	101434	0.06513189	1	10	0.03032	0.989	3.2982	21.48149	39.58	54.3

One surrogate 30-150% for field samples, both for method blank.

6J - FORM VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/19/2015 06/19/2015

COMPOUND	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	4.85	4.85	4.85	4.85	4.85	4.85	4.80	4.90
beta-BHC	5.41	5.41	5.41	5.40	5.40	5.40	5.35	5.45
delta-BHC	5.65	5.65	5.65	5.65	5.65	5.65	5.60	5.70
gamma-BHC (Lindane)	5.29	5.29	5.29	5.29	5.29	5.29	5.24	5.34
Heptachlor	5.95	5.95	5.95	5.95	5.95	5.95	5.90	6.00
Aldrin	6.37	6.37	6.37	6.37	6.37	6.37	6.32	6.42
Heptachlor epoxide	7.24	7.24	7.24	7.24	7.24	7.24	7.17	7.31
Endosulfan I	7.80	7.80	7.80	7.80	7.80	7.80	7.73	7.87
Dieldrin	8.15	8.15	8.15	8.15	8.15	8.15	8.08	8.22
4,4'-DDE	7.71	7.72	7.72	7.71	7.71	7.71	7.64	7.78
Endrin	8.48	8.49	8.49	8.48	8.48	8.48	8.41	8.55
Endosulfan II	8.81	8.81	8.81	8.81	8.81	8.81	8.74	8.88
4,4'-DDD	8.58	8.58	8.58	8.58	8.58	8.58	8.51	8.65
Endosulfan sulfate	10.05	10.05	10.05	10.05	10.05	10.05	9.98	10.12
4,4'-DDT	8.98	8.98	8.98	8.98	8.98	8.98	8.91	9.05
Methoxychlor	9.68	9.68	9.68	9.68	9.68	9.68	9.61	9.75
Endrin ketone	10.42	10.42	10.42	10.42	10.42	10.42	10.35	10.49
Endrin aldehyde	9.42	9.42	9.42	9.42	9.42	9.42	9.35	9.49
alpha-Chlordane	7.60	7.61	7.61	7.60	7.60	7.60	7.53	7.67
gamma-Chlordane	7.41	7.41	7.41	7.41	7.41	7.41	7.34	7.48
Tetrachloro-m-xylene	4.10	4.10	4.10	4.10	4.10	4.10	4.05	4.15
Decachlorobiphenyl	11.54	11.54	11.54	11.54	11.54	11.54	11.44	11.64

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for other compounds (except ± 0.10 minutes for DCB).

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6J - FORM VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/19/2015 06/19/2015

COMPOUND	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	5.55	5.55	5.54	5.54	5.54	5.54	5.49	5.59
beta-BHC	6.18	6.18	6.18	6.18	6.18	6.18	6.13	6.23
delta-BHC	6.62	6.62	6.62	6.61	6.61	6.61	6.56	6.66
gamma-BHC (Lindane)	6.07	6.07	6.06	6.06	6.06	6.06	6.01	6.11
Heptachlor	6.72	6.72	6.72	6.72	6.72	6.72	6.67	6.77
Aldrin	7.20	7.20	7.20	7.20	7.20	7.20	7.15	7.25
Heptachlor epoxide	8.05	8.05	8.04	8.04	8.04	8.04	7.97	8.11
Endosulfan I	8.63	8.63	8.63	8.63	8.63	8.63	8.56	8.70
Dieldrin	9.04	9.04	9.03	9.04	9.03	9.04	8.97	9.11
4,4'-DDE	8.77	8.77	8.77	8.77	8.77	8.77	8.70	8.84
Endrin	9.49	9.49	9.49	9.49	9.49	9.49	9.42	9.56
Endosulfan II	9.80	9.80	9.80	9.80	9.80	9.80	9.73	9.87
4,4'-DDD	9.63	9.63	9.63	9.63	9.63	9.63	9.56	9.70
Endosulfan sulfate	10.64	10.64	10.64	10.64	10.64	10.64	10.57	10.71
4,4'-DDT	10.09	10.09	10.09	10.09	10.08	10.09	10.02	10.16
Methoxychlor	10.95	10.95	10.95	10.95	10.95	10.95	10.88	11.02
Endrin ketone	11.29	11.29	11.29	11.29	11.28	11.29	11.22	11.36
Endrin aldehyde	10.28	10.28	10.27	10.28	10.27	10.28	10.21	10.35
alpha-Chlordane	8.54	8.54	8.54	8.54	8.54	8.54	8.47	8.61
gamma-Chlordane	8.32	8.32	8.32	8.32	8.32	8.32	8.25	8.39
Tetrachloro-m-xylene	4.66	4.66	4.66	4.66	4.66	4.66	4.61	4.71
Decachlorobiphenyl	12.57	12.57	12.57	12.57	12.57	12.57	12.47	12.67

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for other compounds (except ± 0.10 minutes for DCB).

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6K - FORM VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/19/2015 06/19/2015

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	1490000	1380000	1530000	1660000	1480000	6.7
beta-BHC	817000	707000	716000	775000	671000	7.9
delta-BHC	1350000	1260000	1360000	1480000	1330000	5.9
gamma-BHC (Lindane)	1450000	1320000	1400000	1490000	1330000	5.5
Heptachlor	1630000	1450000	1490000	1520000	1310000	7.6
Aldrin	1370000	1220000	1310000	1380000	1230000	5.8
Heptachlor epoxide	1360000	1210000	1250000	1280000	1110000	7.3
Endosulfan I	1380000	1230000	1280000	1320000	1170000	6.2
Dieldrin	1240000	1120000	1170000	1200000	1050000	6.3
4,4'-DDE	1130000	1020000	1080000	1140000	1010000	5.5
Endrin	1120000	983000	1010000	1070000	924000	7.3
Endosulfan II	1120000	982000	1010000	1030000	903000	7.9
4,4'-DDD	969000	877000	928000	982000	883000	5.2
Endosulfan sulfate	1030000	899000	917000	944000	830000	7.7
4,4'-DDT	1100000	995000	1010000	1060000	941000	6.1
Methoxychlor	588000	507000	506000	507000	446000	9.9
Endrin ketone	1330000	1160000	1170000	1180000	1040000	8.7
Endrin aldehyde	977000	844000	856000	855000	743000	9.7
alpha-Chlordane	1440000	1270000	1300000	1330000	1160000	7.8
gamma-Chlordane	1390000	1230000	1270000	1320000	1160000	6.8
Tetrachloro-m-xylene	1310000	1110000	1140000	1200000	1040000	8.8
Decachlorobiphenyl	1230000	1020000	973000	948000	800000	15.6

(A) Surrogate CFs and %RSD are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate CFs and %RSD are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6K - FORM VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/19/2015 06/19/2015

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	1290000	1190000	1260000	1330000	1180000	5.2
beta-BHC	721000	612000	601000	605000	505000	12.6
delta-BHC	1120000	1030000	1100000	1160000	1030000	5.2
gamma-BHC (Lindane)	1220000	1100000	1150000	1200000	1050000	6.1
Heptachlor	1270000	1120000	1160000	1200000	1050000	7.1
Aldrin	1060000	970000	1030000	1090000	970000	5.2
Heptachlor epoxide	1060000	945000	980000	1010000	898000	6.4
Endosulfan I	993000	880000	913000	955000	847000	6.3
Dieldrin	1020000	907000	943000	983000	872000	6.1
4,4'-DDE	975000	872000	907000	943000	839000	6.0
Endrin	894000	784000	803000	861000	759000	6.8
Endosulfan II	881000	772000	796000	832000	738000	6.9
4,4'-DDD	796000	712000	737000	768000	684000	6.0
Endosulfan sulfate	794000	702000	714000	746000	660000	6.9
4,4'-DDT	864000	766000	791000	822000	739000	6.1
Methoxychlor	443000	374000	373000	387000	349000	9.1
Endrin ketone	1020000	879000	886000	910000	803000	8.9
Endrin aldehyde	730000	632000	637000	638000	562000	9.3
alpha-Chlordane	1140000	999000	1020000	1040000	913000	8.1
gamma-Chlordane	1100000	978000	1010000	1060000	934000	6.5
Tetrachloro-m-xylene	1180000	1000000	982000	983000	832000	12.3
Decachlorobiphenyl	961000	784000	757000	748000	644000	14.8

(A) Surrogate CFs and %RSD are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate CFs and %RSD are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6L - FORM VI PEST-3
TOXAPHENE INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Instrument ID (1): GCE21 Date(s) Analyzed (1): 06/19/2015 06/19/2015

GC Column (1): RTXCLP ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
Toxaphene	1	8.80	8.79	8.80	8.80	8.80	8.80	8.73	8.87
	2	9.47	9.47	9.47	9.47	9.47	9.47	9.40	9.54
	3	9.78	9.78	9.78	9.78	9.78	9.78	9.71	9.85
	4	9.91	9.91	9.91	9.91	9.91	9.91	9.84	9.98
	5	10.39	10.39	10.39	10.39	10.39	10.39	10.32	10.46

Instrument ID (2): GCE21 Date(s) Analyzed (2): 06/19/2015 06/19/2015

GC Column (2): RTXCLP2 ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
Toxaphene	1	9.01	9.01	9.01	9.01	9.01	9.01	8.94	9.08
	2	9.78	9.78	9.78	9.78	9.78	9.78	9.71	9.85
	3	9.92	9.92	9.92	9.92	9.92	9.92	9.85	9.99
	4	10.28	10.28	10.28	10.28	10.28	10.28	10.21	10.35
	5	10.94	10.94	10.94	10.94	10.94	10.94	10.87	11.01

[1]At least three peaks for each column are required for identification of Toxaphene.

6M - FORM VI PEST-4
TOXAPHENE INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Instrument ID (1): GCE21 Date(s) Analyzed (1): 06/19/2015 06/19/2015

GC Column (1): RTXCLP ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
Toxaphene	1	50700	51500	50600	47600	43700	6.6
	2	27000	29300	29600	28700	26700	4.7
	3	37400	39800	40300	38900	36600	4.1
	4	45300	46300	45400	43300	40200	5.6
	5	23700	26600	28000	27800	27100	6.6

Instrument ID (2): GCE21 Date(s) Analyzed (2): 06/19/2015 06/19/2015

GC Column (2): RTXCLP2 ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
Toxaphene	1	19800	19900	19600	18100	16400	8.0
	2	23600	23800	23200	21500	19700	7.7
	3	52400	52300	51300	47700	43900	7.4
	4	33900	34200	33700	31500	29100	6.6
	5	35000	34700	34100	31800	29600	6.9

[1]At least three peaks for each column are required for identification of Toxaphene.

6R - FORM VI PEST-5
PESTICIDE RESOLUTION CHECK SUMMARY
COLUMN 1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (RESC##): RESC11 Lab Sample ID (1): RESC11

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 19:17

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.10	100.0
02	alpha-BHC	4.85	100.0
03	gamma-BHC (Lindane)	5.29	100.0
04	beta-BHC	5.40	100.0
05	delta-BHC	5.65	100.0
06	Heptachlor	5.94	100.0
07	Aldrin	6.37	100.0
08	Heptachlor epoxide	7.24	100.0
09	gamma-Chlordane	7.41	100.0
10	alpha-Chlordane	7.60	100.0
11	4,4'-DDE	7.71	100.0
12	Endosulfan I	7.80	100.0
13	Dieldrin	8.15	100.0
14	Endrin	8.48	100.0
15	4,4'-DDD	8.57	100.0
16	Endosulfan II	8.81	100.0
17	4,4'-DDT	8.98	100.0
18	Endrin aldehyde	9.42	100.0
19	Methoxychlor	9.68	100.0
20	Endosulfan sulfate	10.05	100.0
21	Endrin ketone	10.42	100.0
22	Decachlorobiphenyl	11.53	

6T - FORM VI PEST-5
PESTICIDE RESOLUTION CHECK SUMMARY
COLUMN 2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (RESC##): RESC12 Lab Sample ID (2): RESC12

Date Analyzed (2): 06/19/2015 Time Analyzed (2): 19:38

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.66	100.0
02	alpha-BHC	5.55	100.0
03	gamma-BHC (Lindane)	6.07	100.0
04	beta-BHC	6.18	100.0
05	delta-BHC	6.62	100.0
06	Heptachlor	6.72	100.0
07	Aldrin	7.20	100.0
08	Heptachlor epoxide	8.04	100.0
09	gamma-Chlordane	8.32	100.0
10	alpha-Chlordane	8.54	100.0
11	Endosulfan I	8.63	100.0
12	4,4'-DDE	8.77	100.0
13	Dieldrin	9.04	100.0
14	Endrin	9.49	100.0
15	4,4'-DDD	9.63	100.0
16	Endosulfan II	9.80	100.0
17	4,4'-DDT	10.09	100.0
18	Endrin aldehyde	10.28	100.0
19	Endosulfan sulfate	10.64	100.0
20	Methoxychlor	10.95	100.0
21	Endrin ketone	11.29	100.0
22	Decachlorobiphenyl	12.57	

6U - FORM VI PEST-6
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (PEM##): PEM11 Lab Sample ID (1): PEM11

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 19:38

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.10	100.0
02	alpha-BHC	4.85	100.0
03	gamma-BHC (Lindane)	5.29	100.0
04	beta-BHC	5.41	100.0
05	Endrin	8.48	100.0
06	4,4'-DDT	8.98	100.0
07	Methoxychlor	9.68	100.0
08	Decachlorobiphenyl	11.54	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (PEM##): PEM12 Lab Sample ID (2): PEM12

Date Analyzed (2): 06/19/2015 Time Analyzed (2): 19:59

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.66	100.0
02	alpha-BHC	5.55	100.0
03	gamma-BHC (Lindane)	6.07	100.0
04	beta-BHC	6.18	100.0
05	Endrin	9.49	100.0
06	4,4'-DDT	10.09	100.0
07	Methoxychlor	10.95	100.0
08	Decachlorobiphenyl	12.57	

6U - FORM VI PEST-6
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (PEM##): PEM21 Lab Sample ID (1): PEM21

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 23:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.10	100.0
02	alpha-BHC	4.85	100.0
03	gamma-BHC (Lindane)	5.29	100.0
04	beta-BHC	5.40	100.0
05	Endrin	8.48	100.0
06	4,4'-DDT	8.98	100.0
07	Methoxychlor	9.68	100.0
08	Decachlorobiphenyl	11.54	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (PEM##): PEM22 Lab Sample ID (2): PEM22

Date Analyzed (2): 06/20/2015 Time Analyzed (2): 00:10

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.66	100.0
02	alpha-BHC	5.54	100.0
03	gamma-BHC (Lindane)	6.07	100.0
04	beta-BHC	6.18	100.0
05	Endrin	9.49	100.0
06	4,4'-DDT	10.08	100.0
07	Methoxychlor	10.95	100.0
08	Decachlorobiphenyl	12.57	

6X - FORM VI PEST-9
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (INDC3##): INDC311 Lab Sample ID (1): INDC311

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 22:26

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.10	100.0
02	alpha-BHC	4.85	100.0
03	gamma-BHC (Lindane)	5.29	100.0
04	beta-BHC	5.41	100.0
05	delta-BHC	5.65	100.0
06	Heptachlor	5.95	100.0
07	Aldrin	6.37	100.0
08	Heptachlor epoxide	7.24	100.0
09	gamma-Chlordane	7.41	100.0
10	alpha-Chlordane	7.61	100.0
11	4,4'-DDE	7.72	100.0
12	Endosulfan I	7.80	100.0
13	Dieldrin	8.15	100.0
14	Endrin	8.49	100.0
15	4,4'-DDD	8.58	100.0
16	Endosulfan II	8.81	100.0
17	4,4'-DDT	8.98	100.0
18	Endrin aldehyde	9.42	100.0
19	Methoxychlor	9.68	100.0
20	Endosulfan sulfate	10.05	100.0
21	Endrin ketone	10.42	100.0
22	Decachlorobiphenyl	11.54	

6X - FORM VI PEST-9
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (INDC3##): INDC331 Lab Sample ID (1): INDC331

Date Analyzed (1): 06/20/2015 Time Analyzed (1): 04:40

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.10	100.0
02	alpha-BHC	4.85	100.0
03	gamma-BHC (Lindane)	5.28	100.0
04	beta-BHC	5.40	100.0
05	delta-BHC	5.65	100.0
06	Heptachlor	5.94	100.0
07	Aldrin	6.37	100.0
08	Heptachlor epoxide	7.23	100.0
09	gamma-Chlordane	7.41	100.0
10	alpha-Chlordane	7.60	100.0
11	4,4'-DDE	7.71	100.0
12	Endosulfan I	7.80	100.0
13	Dieldrin	8.14	100.0
14	Endrin	8.48	100.0
15	4,4'-DDD	8.57	100.0
16	Endosulfan II	8.81	100.0
17	4,4'-DDT	8.98	100.0
18	Endrin aldehyde	9.42	100.0
19	Methoxychlor	9.68	100.0
20	Endosulfan sulfate	10.05	100.0
21	Endrin ketone	10.42	100.0
22	Decachlorobiphenyl	11.53	

6Y - FORM VI PEST-10
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (INDC3##): INDC332 Lab Sample ID (2): INDC332

Date Analyzed (2): 06/20/2015 Time Analyzed (2): 05:01

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.66	100.0
02	alpha-BHC	5.54	100.0
03	gamma-BHC (Lindane)	6.06	100.0
04	beta-BHC	6.18	100.0
05	delta-BHC	6.61	100.0
06	Heptachlor	6.71	100.0
07	Aldrin	7.19	100.0
08	Heptachlor epoxide	8.04	100.0
09	gamma-Chlordane	8.32	100.0
10	alpha-Chlordane	8.53	100.0
11	Endosulfan I	8.62	100.0
12	4,4'-DDE	8.77	100.0
13	Dieldrin	9.03	100.0
14	Endrin	9.49	100.0
15	4,4'-DDD	9.63	100.0
16	Endosulfan II	9.80	100.0
17	4,4'-DDT	10.08	100.0
18	Endrin aldehyde	10.27	100.0
19	Endosulfan sulfate	10.63	100.0
20	Methoxychlor	10.95	100.0
21	Endrin ketone	11.28	100.0
22	Decachlorobiphenyl	12.56	

6Y - FORM VI PEST-10
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (INDC3##): INDC312 Lab Sample ID (2): INDC312

Date Analyzed (2): 06/19/2015 Time Analyzed (2): 22:47

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.66	100.0
02	alpha-BHC	5.54	100.0
03	gamma-BHC (Lindane)	6.06	100.0
04	beta-BHC	6.18	100.0
05	delta-BHC	6.62	100.0
06	Heptachlor	6.72	100.0
07	Aldrin	7.20	100.0
08	Heptachlor epoxide	8.04	100.0
09	gamma-Chlordane	8.32	100.0
10	alpha-Chlordane	8.54	100.0
11	Endosulfan I	8.63	100.0
12	4,4'-DDE	8.77	100.0
13	Dieldrin	9.03	100.0
14	Endrin	9.49	100.0
15	4,4'-DDD	9.63	100.0
16	Endosulfan II	9.80	100.0
17	4,4'-DDT	10.09	100.0
18	Endrin aldehyde	10.27	100.0
19	Endosulfan sulfate	10.64	100.0
20	Methoxychlor	10.95	100.0
21	Endrin ketone	11.29	100.0
22	Decachlorobiphenyl	12.57	

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): _____ Date Analyzed: _____

Lab Sample ID (PIBLK): _____ Time Analyzed: _____

EPA Sample No. (PEM##): PEM11 Date Analyzed: 06/19/2015

Lab Sample ID (PEM): PEM11 Time Analyzed: 19:38

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.85	4.80	4.90	0.019	0.020	-3.4
beta-BHC	5.41	5.35	5.45	0.020	0.020	1.2
gamma-BHC (Lindane)	5.29	5.24	5.34	0.020	0.020	0.3
Endrin	8.48	8.41	8.55	0.096	0.100	-3.8
4,4'-DDT	8.98	8.91	9.05	0.191	0.200	-4.5
Methoxychlor	9.68	9.61	9.75	0.472	0.500	-5.6
TCX	4.10	4.05	4.15	0.039	0.040	-2.0
DCB	11.54	11.44	11.64	0.041	0.040	3.6

4,4'-DDT %Breakdown (1): 0.2 Endrin %Breakdown (1): 8.9

Combined %Breakdown (1): 9.1

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLK21 Date Analyzed: 06/19/2015

Lab Sample ID (PIBLK): PIBLK21 Time Analyzed: 23:28

EPA Sample No. (PEM##): PEM21 Date Analyzed: 06/19/2015

Lab Sample ID (PEM): PEM21 Time Analyzed: 23:49

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.85	4.80	4.90	0.019	0.020	-5.4
beta-BHC	5.40	5.35	5.45	0.020	0.020	-0.2
gamma-BHC (Lindane)	5.29	5.24	5.34	0.020	0.020	-1.6
Endrin	8.48	8.41	8.55	0.095	0.100	-5.4
4,4'-DDT	8.98	8.91	9.05	0.190	0.200	-5.1
Methoxychlor	9.68	9.61	9.75	0.481	0.500	-3.9
TCX	4.10	4.05	4.15	0.038	0.040	-4.3
DCB	11.54	11.44	11.64	0.041	0.040	3.7

4,4'-DDT %Breakdown (1): 0.2 Endrin %Breakdown (1): 10.4

Combined %Breakdown (1): 10.6

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): _____ Date Analyzed: _____

Lab Sample ID (PIBLK): _____ Time Analyzed: _____

EPA Sample No. (PEM##): PEM12 Date Analyzed: 06/19/2015

Lab Sample ID (PEM): PEM12 Time Analyzed: 19:59

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.55	5.49	5.59	0.020	0.020	2.1
beta-BHC	6.18	6.13	6.23	0.022	0.020	9.0
gamma-BHC (Lindane)	6.07	6.01	6.11	0.021	0.020	4.6
Endrin	9.49	9.42	9.56	0.096	0.100	-4.3
4,4'-DDT	10.09	10.02	10.16	0.188	0.200	-5.9
Methoxychlor	10.95	10.88	11.02	0.462	0.500	-7.7
TCX	4.66	4.61	4.71	0.040	0.040	0.7
DCB	12.57	12.47	12.67	0.041	0.040	3.6

4,4'-DDT %Breakdown (1): 1.1 Endrin %Breakdown (1): 7.3

Combined %Breakdown (1): 8.4

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLK22 Date Analyzed: 06/19/2015

Lab Sample ID (PIBLK): PIBLK22 Time Analyzed: 23:49

EPA Sample No. (PEM##): PEM22 Date Analyzed: 06/20/2015

Lab Sample ID (PEM): PEM22 Time Analyzed: 00:10

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.54	5.49	5.59	0.020	0.020	-0.4
beta-BHC	6.18	6.13	6.23	0.021	0.020	6.2
gamma-BHC (Lindane)	6.07	6.01	6.11	0.021	0.020	2.7
Endrin	9.49	9.42	9.56	0.094	0.100	-5.5
4,4'-DDT	10.08	10.02	10.16	0.189	0.200	-5.3
Methoxychlor	10.95	10.88	11.02	0.484	0.500	-3.3
TCX	4.66	4.61	4.71	0.039	0.040	-1.6
DCB	12.57	12.47	12.67	0.041	0.040	3.1

4,4'-DDT %Breakdown (1): 1.2 Endrin %Breakdown (1): 9.5

Combined %Breakdown (1): 10.7

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLK31 Date Analyzed: 06/20/2015

Lab Sample ID (PIBLK): PIBLK31 Time Analyzed: 04:20

EPA Sample No. (INDC3##): INDC331 Date Analyzed: 06/20/2015

Lab Sample ID (INDC3): INDC331 Time Analyzed: 04:40

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	4.85	4.80	4.90	1510000	1520000	0.5
gamma-BHC (Lindane)	5.28	5.24	5.34	1400000	1430000	2.3
Heptachlor	5.94	5.90	6.00	1480000	1490000	0.4
Endosulfan I	7.80	7.73	7.87	1280000	1260000	-1.1
Dieldrin	8.14	8.08	8.22	1160000	1160000	0.4
Endrin	8.48	8.41	8.55	1020000	1010000	-1.0
4,4'-DDD	8.57	8.51	8.65	928000	951000	2.6
4,4'-DDT	8.98	8.91	9.05	1020000	1010000	-0.9
Methoxychlor	9.68	9.61	9.75	511000	510000	-0.2
beta-BHC	5.40	5.35	5.45	737000	769000	4.3
delta-BHC	5.65	5.60	5.70	1360000	1380000	1.8
Aldrin	6.37	6.32	6.42	1300000	1310000	0.3
Heptachlor epoxide	7.23	7.17	7.31	1240000	1240000	0.2
4,4'-DDE	7.71	7.64	7.78	1080000	1100000	2.2
Endosulfan II	8.81	8.74	8.88	1010000	1010000	-0.2
Endosulfan sulfate	10.05	9.98	10.12	923000	907000	-1.7
Endrin ketone	10.42	10.35	10.49	1180000	1170000	-0.3
Endrin aldehyde	9.42	9.35	9.49	855000	832000	-2.7
alpha-Chlordane	7.60	7.53	7.67	1300000	1300000	0.2
gamma-Chlordane	7.41	7.34	7.48	1270000	1270000	-0.4
TCX	4.10	4.05	4.15	1160000	1160000	0.3
DCB	11.53	11.44	11.64	993000	979000	-1.4

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLK32 Date Analyzed: 06/20/2015

Lab Sample ID (PIBLK): PIBLK32 Time Analyzed: 04:40

EPA Sample No. (INDC3##): INDC332 Date Analyzed: 06/20/2015

Lab Sample ID (INDC3): INDC332 Time Analyzed: 05:01

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	5.54	5.49	5.59	1250000	1260000	0.5
gamma-BHC (Lindane)	6.06	6.01	6.11	1140000	1140000	-0.3
Heptachlor	6.71	6.67	6.77	1160000	1160000	0.2
Endosulfan I	8.62	8.56	8.70	917000	914000	-0.4
Dieldrin	9.03	8.97	9.11	944000	943000	-0.1
Endrin	9.49	9.42	9.56	820000	844000	2.9
4,4'-DDD	9.63	9.56	9.70	739000	747000	1.0
4,4'-DDT	10.08	10.02	10.16	796000	796000	0.0
Methoxychlor	10.95	10.88	11.02	385000	388000	0.8
beta-BHC	6.18	6.13	6.23	609000	595000	-2.3
delta-BHC	6.61	6.56	6.66	1090000	1100000	0.8
Aldrin	7.19	7.15	7.25	1020000	1020000	-0.4
Heptachlor epoxide	8.04	7.97	8.11	979000	976000	-0.3
4,4'-DDE	8.77	8.70	8.84	907000	907000	-0.1
Endosulfan II	9.80	9.73	9.87	803000	813000	1.2
Endosulfan sulfate	10.63	10.57	10.71	723000	711000	-1.6
Endrin ketone	11.28	11.22	11.36	900000	889000	-1.3
Endrin aldehyde	10.27	10.21	10.35	640000	626000	-2.2
alpha-Chlordane	8.53	8.47	8.61	1020000	1010000	-1.0
gamma-Chlordane	8.32	8.25	8.39	1020000	1000000	-1.6
TCX	4.66	4.61	4.71	995000	969000	-2.7
DCB	12.56	12.47	12.67	779000	747000	-4.0

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.10 DCB: 11.54

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	21150619A004	06/19/2015	19:17	4.10	11.53
02	PEM11	21150619A005	06/19/2015	19:38	4.10	11.54
03	TOXAPH111	21150619A006	06/19/2015	19:59	4.10	11.54
04	TOXAPH211	21150619A007	06/19/2015	20:20	4.10	11.54
05	TOXAPH311	21150619A008	06/19/2015	20:41	4.10	11.54
06	TOXAPH411	21150619A009	06/19/2015	21:02	4.10	11.54
07	TOXAPH511	21150619A010	06/19/2015	21:23	4.10	11.54
08	INDC111	21150619A011	06/19/2015	21:44	4.10	11.54
09	INDC211	21150619A012	06/19/2015	22:05	4.10	11.54
10	INDC311	21150619A013	06/19/2015	22:26	4.10	11.54
11	INDC411	21150619A014	06/19/2015	22:47	4.10	11.54
12	INDC511	21150619A015	06/19/2015	23:07	4.10	11.54
13	PIBLK21	21150619A016	06/19/2015	23:28	4.10	11.54
14	PEM21	21150619A017	06/19/2015	23:49	4.10	11.54
15	ZZZZZ		06/20/2015	00:10		
16	ZZZZZ		06/20/2015	00:31		
17	PBLKS1	21150619A020	06/20/2015	00:52	4.10	11.54
18	PLCSS1	21150619A021	06/20/2015	01:12	4.10	11.53
19	F9M36	21150619A022	06/20/2015	01:33	4.10	11.54
20	F9M36MS	21150619A023	06/20/2015	01:54	4.10	11.53
21	F9M36MSD	21150619A024	06/20/2015	02:15	4.10	11.53
22	F9M42	21150619A025	06/20/2015	02:35	4.10	11.53
23	F9M43	21150619A026	06/20/2015	02:56	4.10	11.53
24	F9M44	21150619A027	06/20/2015	03:17	4.10	11.53
25	F9M45	21150619A028	06/20/2015	03:38	4.10	11.53
26	ZZZZZ		06/20/2015	03:59		
27	PIBLK31	21150619A030	06/20/2015	04:20	4.10	11.53
28	INDC331	21150619A031	06/20/2015	04:40	4.10	11.53
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.66 DCB: 12.57

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC12	21150619B004	06/19/2015	19:38	4.66	12.57
02	PEM12	21150619B005	06/19/2015	19:59	4.66	12.57
03	TOXAPH112	21150619B006	06/19/2015	20:20	4.66	12.57
04	TOXAPH212	21150619B007	06/19/2015	20:41	4.66	12.57
05	TOXAPH312	21150619B008	06/19/2015	21:02	4.66	12.57
06	TOXAPH412	21150619B009	06/19/2015	21:23	4.66	12.57
07	TOXAPH512	21150619B010	06/19/2015	21:44	4.66	12.57
08	INDC112	21150619B011	06/19/2015	22:05	4.66	12.57
09	INDC212	21150619B012	06/19/2015	22:26	4.66	12.57
10	INDC312	21150619B013	06/19/2015	22:47	4.66	12.57
11	INDC412	21150619B014	06/19/2015	23:07	4.66	12.57
12	INDC512	21150619B015	06/19/2015	23:28	4.66	12.57
13	PIBLK22	21150619B016	06/19/2015	23:49	4.66	12.57
14	PEM22	21150619B017	06/20/2015	00:10	4.66	12.57
15	ZZZZZ		06/20/2015	00:31		
16	ZZZZZ		06/20/2015	00:52		
17	PBLKS1	21150619B020	06/20/2015	01:12	4.66	12.57
18	PLCSS1	21150619B021	06/20/2015	01:33	4.66	12.57
19	F9M36	21150619B022	06/20/2015	01:54	4.66	12.57
20	F9M36MS	21150619B023	06/20/2015	02:15	4.66	12.57
21	F9M36MSD	21150619B024	06/20/2015	02:35	4.66	12.57
22	F9M42	21150619B025	06/20/2015	02:56	4.66	12.57
23	F9M43	21150619B026	06/20/2015	03:17	4.66	12.57
24	F9M44	21150619B027	06/20/2015	03:38	4.66	12.56
25	F9M45	21150619B028	06/20/2015	03:59	4.66	12.56
26	ZZZZZ		06/20/2015	04:20		
27	PIBLK32	21150619B030	06/20/2015	04:40	4.66	12.56
28	INDC332	21150619B031	06/20/2015	05:01	4.66	12.56
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

9A - FORM IX PEST-1
PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Florisil Cartridge Lot Number: FLO24680 Date of Analysis: 03/10/2015

GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	%REC #	QC LIMITS
alpha-BHC	0.020	0.020	99	80-120
gamma-BHC (Lindane)	0.020	0.020	102	80-120
Heptachlor	0.020	0.021	106	80-120
Endosulfan I	0.020	0.021	105	80-120
Dieldrin	0.040	0.043	106	80-120
Endrin	0.040	0.045	113	80-120
4,4'-DDD	0.040	0.042	106	80-120
4,4'-DDT	0.040	0.043	107	80-120
Methoxychlor	0.20	0.23	113	80-120
TCX	0.020	0.021	104	80-120
DCB	0.040	0.047	117	80-120
2,4,5-Trichlorophenol	0.10	0.00066	1	<5

Column to be used to flag recovery with an asterisk.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, LCSs AND MS/MSDs:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLKS1	450508	06/20/2015	06/20/2015
02	PLCSS1	450509	06/20/2015	06/20/2015
03	F9M36	1515552001	06/20/2015	06/20/2015
04	F9M36MS	1515552002	06/20/2015	06/20/2015
05	F9M36MSD	1515552003	06/20/2015	06/20/2015
06	F9M42	1515552004	06/20/2015	06/20/2015
07	F9M43	1515552005	06/20/2015	06/20/2015
08	F9M44	1515552006	06/20/2015	06/20/2015
09	F9M45	1515552007	06/20/2015	06/20/2015
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

9B - FORM IX PEST-2

PESTICIDE GPC CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

GPC Column: GPC6 Calibration Verification Date: 06/03/2015

GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.020	0.020	99	80-110
Heptachlor	0.020	0.018	88	80-110
Aldrin	0.020	0.021	106	80-110
Dieldrin	0.040	0.041	103	80-110
Endrin	0.040	0.038	95	80-110
4,4'-DDT	0.040	0.041	104	80-110

Column to be used to flag recovery with an asterisk.

THIS GPC CALIBRATION VERIFICATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, LCSs, AND MS/MSDs:

	EPA SAMPLE NO.	LAB SAMPLE ID	GPC CLEANUP DATE
01	PBLKS1	450508	06/08/2015
02	PLCSS1	450509	06/08/2015
03	F9M36	1515552001	06/08/2015
04	F9M36MS	1515552002	06/08/2015
05	F9M36MSD	1515552003	06/08/2015
06	F9M42	1515552004	06/08/2015
07	F9M43	1515552005	06/08/2015
08	F9M44	1515552006	06/08/2015
09	F9M45	1515552007	06/08/2015
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			

10A - FORM X PEST-1

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab Sample ID: 1515552001 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.83	4.80	4.90	0.52	
	2	5.51	5.49	5.59	0.23	127.9
beta-BHC	1	5.37	5.35	5.45	0.23	
	2	6.19	6.13	6.23	0.24	6.4
delta-BHC	1	5.67	5.60	5.70	0.26	
	2	6.58	6.56	6.66	0.37	39.9
gamma-BHC (Lindane)	1	5.31	5.24	5.34	0.22	
	2	6.02	6.01	6.11	0.30	34.6
Dieldrin	1	8.10	8.08	8.22	0.27	
	2	8.99	8.97	9.11	1.1	301.3
4,4'-DDE	1	7.71	7.64	7.78	0.24	
	2	8.77	8.70	8.84	0.40	63.0
Endosulfan II	1	8.75	8.74	8.88	0.97	
	2	9.81	9.73	9.87	0.34	188.1
4,4'-DDD	1	8.55	8.51	8.65	1.6	
	2	9.64	9.56	9.70	0.067	999.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab Sample ID: 1515552001 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan sulfate	1	10.12	9.98	10.12	0.31	
	2	10.69	10.57	10.71	0.95	205.9
4,4'-DDT	1	8.98	8.91	9.05	0.75	
	2	10.08	10.02	10.16	1.4	85.5
Endrin ketone	1	10.45	10.35	10.49	0.18	
	2	11.30	11.22	11.36	0.30	70.6
Endrin aldehyde	1	9.48	9.35	9.49	0.55	
	2	10.27	10.21	10.35	1.0	85.8
gamma-Chlordane	1	7.39	7.34	7.48	0.20	
	2	8.31	8.25	8.39	0.27	35.4
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M36MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab Sample ID: 1515552002 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.83	4.80	4.90	0.72	
	2	5.51	5.49	5.59	0.31	135.0
beta-BHC	1	5.45	5.35	5.45	3.5	
	2	6.19	6.13	6.23	1.0	245.3
delta-BHC	1	5.67	5.60	5.70	0.98	
	2	6.64	6.56	6.66	0.14	598.7
gamma-BHC (Lindane)	1	5.29	5.24	5.34	17.	
	2	6.06	6.01	6.11	17.	1.6
Heptachlor	1	5.95	5.90	6.00	16.	
	2	6.71	6.67	6.77	16.	2.3
Aldrin	1	6.37	6.32	6.42	18.	
	2	7.20	7.15	7.25	15.	20.6
Dieldrin	1	8.15	8.08	8.22	29.	
	2	9.03	8.97	9.11	35.	20.3
4,4'-DDE	1	7.71	7.64	7.78	0.28	
	2	8.77	8.70	8.84	1.4	418.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M36MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab Sample ID: 1515552002 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin	1	8.48	8.41	8.55	36.	
	2	9.49	9.42	9.56	38.	5.6
Endosulfan II	1	8.75	8.74	8.88	6.6	
	2	9.81	9.73	9.87	1.6	303.4
Endosulfan sulfate	1	10.12	9.98	10.12	0.55	
	2	10.70	10.57	10.71	0.43	28.9
4,4'-DDT	1	8.98	8.91	9.05	35.	
	2	10.08	10.02	10.16	33.	6.4
Endrin ketone	1	10.42	10.35	10.49	3.7	
	2	11.28	11.22	11.36	2.8	31.0
Endrin aldehyde	1	9.47	9.35	9.49	0.62	
	2	10.27	10.21	10.35	25.	999.9
gamma-Chlordane	1	7.39	7.34	7.48	0.24	
	2	8.31	8.25	8.39	0.30	25.4
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M36MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 1515552003 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.83	4.80	4.90	0.82	
	2	5.51	5.49	5.59	0.46	78.7
delta-BHC	1	5.68	5.60	5.70	0.42	
	2	6.57	6.56	6.66	0.51	20.6
gamma-BHC (Lindane)	1	5.28	5.24	5.34	19.	
	2	6.06	6.01	6.11	19.	1.2
Heptachlor	1	5.94	5.90	6.00	18.	
	2	6.71	6.67	6.77	17.	2.4
Aldrin	1	6.37	6.32	6.42	18.	
	2	7.20	7.15	7.25	18.	1.9
Dieldrin	1	8.15	8.08	8.22	33.	
	2	9.03	8.97	9.11	38.	13.8
4,4'-DDE	1	7.71	7.64	7.78	0.64	
	2	8.77	8.70	8.84	0.67	4.5
Endrin	1	8.48	8.41	8.55	40.	
	2	9.49	9.42	9.56	37.	6.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M36MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 1515552003 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan II	1	8.74	8.74	8.88	0.93	
	2	9.75	9.73	9.87	0.080	999.9
Endosulfan sulfate	1	10.06	9.98	10.12	0.038	
	2	10.70	10.57	10.71	1.1	999.9
4,4'-DDT	1	8.98	8.91	9.05	37.	
	2	10.08	10.02	10.16	37.	1.4
Endrin ketone	1	10.42	10.35	10.49	2.7	
	2	11.28	11.22	11.36	2.6	3.0
Endrin aldehyde	1	9.48	9.35	9.49	0.70	
	2	10.27	10.21	10.35	3.1	346.3
gamma-Chlordane	1	7.39	7.34	7.48	0.19	
	2	8.31	8.25	8.39	0.31	66.6
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 1515552004 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
alpha-BHC	1	4.83	4.80	4.90	0.74	
	2	5.58	5.49	5.59	0.12	532.5
beta-BHC	1	5.37	5.35	5.45	0.82	
	2	6.19	6.13	6.23	2.9	249.4
delta-BHC	1	5.67	5.60	5.70	1.4	
	2	6.58	6.56	6.66	2.3	67.7
gamma-BHC (Lindane)	1	5.25	5.24	5.34	0.24	
	2	6.03	6.01	6.11	0.096	154.6
Heptachlor epoxide	1	7.21	7.17	7.31	0.60	
	2	8.01	7.97	8.11	0.74	23.1
Dieldrin	1	8.10	8.08	8.22	0.39	
	2	8.99	8.97	9.11	1.5	269.1
4,4'-DDE	1	7.71	7.64	7.78	0.62	
	2	8.83	8.70	8.84	1.7	167.2
Endosulfan II	1	8.74	8.74	8.88	12.	
	2	9.81	9.73	9.87	2.1	470.6

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab Sample ID: 1515552004 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	8.55	8.51	8.65	0.73	
	2	9.64	9.56	9.70	2.0	175.7
4,4'-DDT	1	8.97	8.91	9.05	0.46	
	2	10.10	10.02	10.16	0.57	24.3
Endrin ketone	1	10.45	10.35	10.49	1.8	
	2	11.30	11.22	11.36	0.39	369.4
Endrin aldehyde	1	9.48	9.35	9.49	0.19	
	2	10.27	10.21	10.35	17.	999.9
gamma-Chlordane	1	7.39	7.34	7.48	0.41	
	2	8.31	8.25	8.39	1.1	172.4
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab Sample ID: 1515552005 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.83	4.80	4.90	0.043	
	2	5.51	5.49	5.59	0.28	551.9
beta-BHC	1	5.44	5.35	5.45	2.5	
	2	6.19	6.13	6.23	0.41	501.5
delta-BHC	1	5.67	5.60	5.70	0.52	
	2	6.58	6.56	6.66	1.1	113.0
gamma-BHC (Lindane)	1	5.25	5.24	5.34	0.19	
	2	6.08	6.01	6.11	0.42	126.4
Dieldrin	1	8.21	8.08	8.22	0.27	
	2	8.99	8.97	9.11	0.40	49.0
Endrin	1	8.44	8.41	8.55	0.81	
	2	9.45	9.42	9.56	7.4	822.0
Endosulfan II	1	8.74	8.74	8.88	5.8	
	2	9.80	9.73	9.87	2.0	189.4
4,4'-DDD	1	8.55	8.51	8.65	0.25	
	2	9.66	9.56	9.70	2.2	793.5

10A - FORM X PEST-1
IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 1515552005 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Methoxychlor	1	9.66	9.61	9.75	1.4	
	2	10.89	10.88	11.02	6.1	322.7
Endrin ketone	1	10.45	10.35	10.49	0.28	
	2	11.29	11.22	11.36	0.81	190.1
gamma-Chlordane	1	7.39	7.34	7.48	0.22	
	2	8.31	8.25	8.39	0.37	69.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 1515552006 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.83	4.80	4.90	0.37	
	2	5.51	5.49	5.59	0.43	15.0
beta-BHC	1	5.37	5.35	5.45	0.80	
	2	6.19	6.13	6.23	0.26	204.0
delta-BHC	1	5.67	5.60	5.70	0.57	
	2	6.57	6.56	6.66	0.81	42.1
gamma-BHC (Lindane)	1	5.32	5.24	5.34	0.45	
	2	6.09	6.01	6.11	0.34	29.2
Heptachlor	1	5.96	5.90	6.00	0.37	
	2	6.71	6.67	6.77	0.25	48.7
Dieldrin	1	8.21	8.08	8.22	0.39	
	2	8.99	8.97	9.11	0.64	63.1
4,4'-DDE	1	7.71	7.64	7.78	0.14	
	2	8.83	8.70	8.84	0.29	114.4
Endosulfan II	1	8.74	8.74	8.88	3.2	
	2	9.80	9.73	9.87	0.78	312.5

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab Sample ID: 1515552006 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	8.98	8.91	9.05	0.44	
	2	10.09	10.02	10.16	0.77	72.3
Endrin ketone	1	10.45	10.35	10.49	0.49	
	2	11.29	11.22	11.36	0.17	195.1
Endrin aldehyde	1	9.48	9.35	9.49	2.4	
	2	10.27	10.21	10.35	1.5	58.5
gamma-Chlordane	1	7.39	7.34	7.48	0.27	
	2	8.31	8.25	8.39	0.19	44.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 1515552007 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.86	4.80	4.90	0.027	
	2	5.51	5.49	5.59	0.18	570.5
beta-BHC	1	5.37	5.35	5.45	0.42	
	2	6.19	6.13	6.23	0.31	33.5
delta-BHC	1	5.67	5.60	5.70	0.56	
	2	6.58	6.56	6.66	0.63	13.5
gamma-BHC (Lindane)	1	5.33	5.24	5.34	0.21	
	2	6.08	6.01	6.11	0.15	40.5
Dieldrin	1	8.10	8.08	8.22	0.19	
	2	8.99	8.97	9.11	0.42	119.2
Endosulfan II	1	8.74	8.74	8.88	3.6	
	2	9.81	9.73	9.87	0.74	388.9
Methoxychlor	1	9.66	9.61	9.75	1.3	
	2	10.89	10.88	11.02	3.1	132.3
Endrin ketone	1	10.45	10.35	10.49	0.71	
	2	11.27	11.22	11.36	0.48	48.8

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 1515552007 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin aldehyde	1	9.48	9.35	9.49	1.5	
	2	10.27	10.21	10.35	1.2	28.8
gamma-Chlordane	1	7.39	7.34	7.48	0.19	
	2	8.31	8.25	8.39	1.6	731.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 450508 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.87	4.80	4.90	0.076	
	2	5.51	5.49	5.59	0.089	17.7
beta-BHC	1	5.45	5.35	5.45	0.57	
	2	6.19	6.13	6.23	0.22	163.0
delta-BHC	1	5.68	5.60	5.70	0.11	
	2	6.58	6.56	6.66	0.25	129.9
Endosulfan II	1	8.75	8.74	8.88	2.6	
	2	9.81	9.73	9.87	0.018	999.9
Endrin ketone	1	10.45	10.35	10.49	0.25	
	2	11.25	11.22	11.36	0.10	148.0
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PLCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 450509 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.87	4.80	4.90	0.067	
	2	5.53	5.49	5.59	0.10	49.5
beta-BHC	1	5.44	5.35	5.45	6.6	
	2	6.19	6.13	6.23	0.29	999.9
delta-BHC	1	5.68	5.60	5.70	0.018	
	2	6.58	6.56	6.66	0.21	999.9
gamma-BHC (Lindane)	1	5.29	5.24	5.34	1.1	
	2	6.06	6.01	6.11	1.2	9.9
Heptachlor epoxide	1	7.24	7.17	7.31	1.3	
	2	8.04	7.97	8.11	1.2	3.7
Dieldrin	1	8.15	8.08	8.22	2.5	
	2	9.03	8.97	9.11	2.5	0.9
4,4'-DDE	1	7.71	7.64	7.78	2.4	
	2	8.77	8.70	8.84	2.4	1.0
Endrin	1	8.48	8.41	8.55	2.6	
	2	9.49	9.42	9.56	2.6	0.6

10A - FORM X PEST-1

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PLCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab Sample ID: 450509 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endosulfan sulfate	1	10.05	9.98	10.12	2.2	
	2	10.64	10.57	10.71	2.2	1.3
4,4'-DDT	1	8.97	8.91	9.05	0.076	
	2	10.02	10.02	10.16	0.13	69.4
Endrin ketone	1	10.45	10.35	10.49	0.23	
	2	11.25	11.22	11.36	0.12	95.6
alpha-Chlordane	1	7.63	7.53	7.67	0.016	
	2	8.57	8.47	8.61	0.083	412.0
gamma-Chlordane	1	7.41	7.34	7.48	1.2	
	2	8.32	8.25	8.39	1.2	5.4
	1					
	2					
	1					
	2					
	1					
	2					

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:23
Operator	: sagers	Sample Name	: RESC11
Sample Number	: 004	Study	: 228313
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 19:17:32	Dilution Factor	: 1.00
		Cycle	: 2

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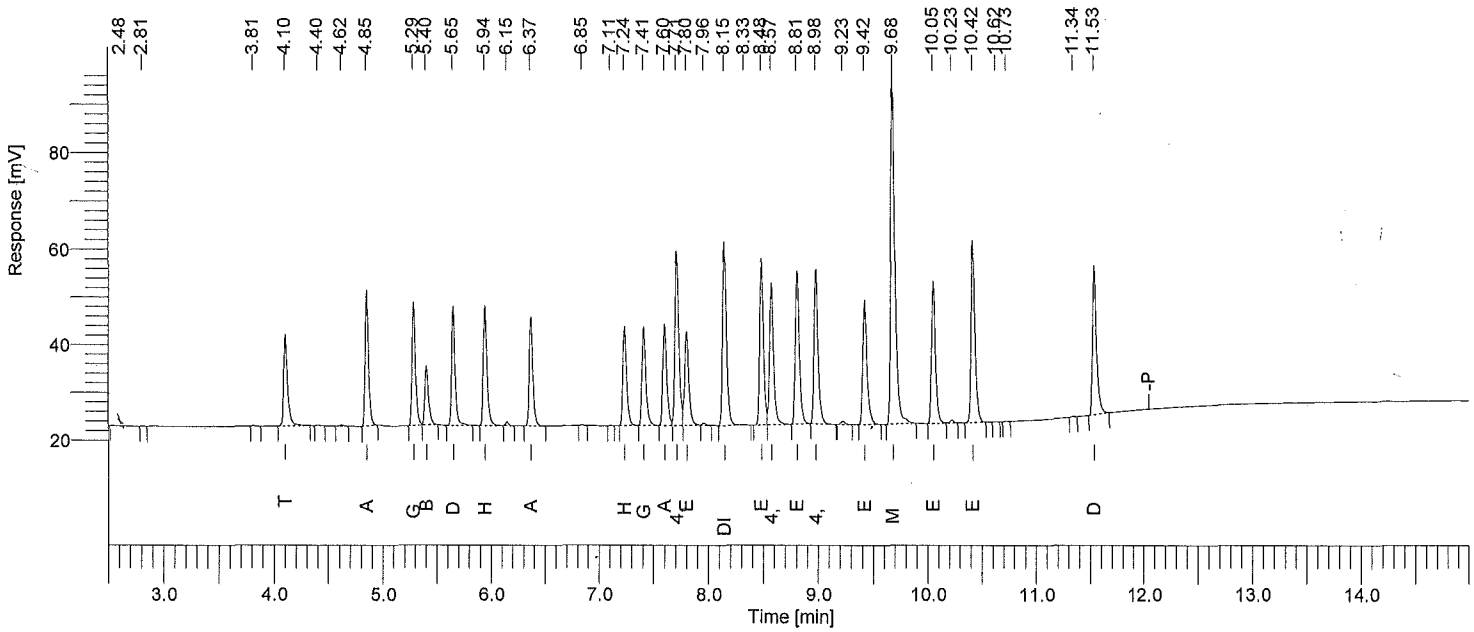

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	46833	0.0201851
4.85	alpha-BHC	61142	0.0202445
5.29	gamma-BHC	57213	0.0204710
5.40	beta-BHC	29028	0.0196816
5.65	delta-BHC	55602	0.0204747
5.94	Heptachlor	59468	0.0201045
6.37	Aldrin	53182	0.0204197
7.24	Heptachlor epoxide	50283	0.0202634
7.41	gamma-Chlordane	51431	0.0202033
7.60	alpha-Chlordane	52658	0.0202583
7.71	4,4'-DDE	88938	0.0412978
7.80	Endosulfan I	51602	0.0202125
8.15	Dieldrin	94763	0.0408749
8.48	Endrin	83775	0.0410118
8.57	4,4'-DDD	76270	0.0411068
8.81	Endosulfan II	81647	0.0404787
8.98	4,4'-DDT	82399	0.0403072
9.42	Endrin aldehyde	69903	0.0408741
9.68	Methoxychlor	197772	0.1935825
10.05	Endosulfan sulfate	73841	0.0400056
10.42	Endrin ketone	94036	0.0399838
11.53	Decachlorobiphenyl	78574	0.0395671

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:26
Operator	: sagers	Sample Name	: PEM11
Sample Number	: 005	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 19:38:40	Cycle	: 3

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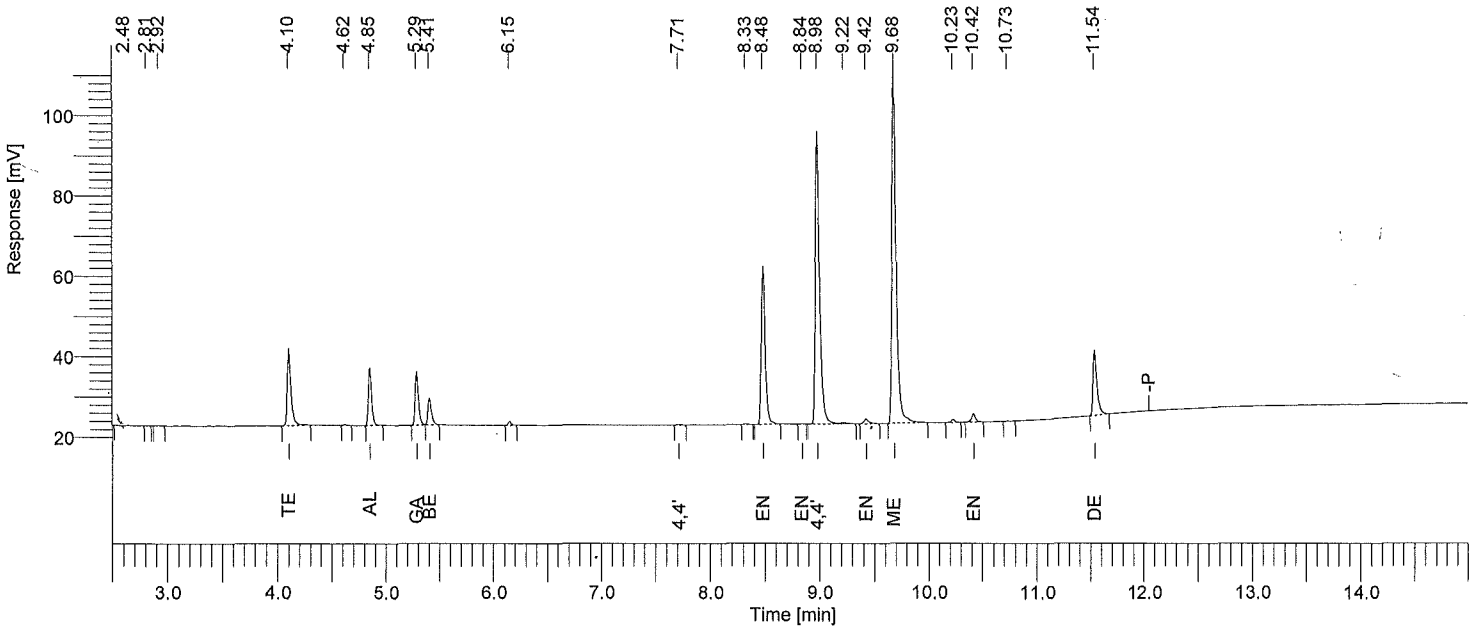

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.10	Tetrachloro-m-xylene	45493	0.0196079	0.0196079	0.02000	98.0
4.85	alpha-BHC	29182	0.0096626	0.0096626	0.01000	96.6
5.29	gamma-BHC	28032	0.0100299	0.0100299	0.01000	100.3
5.41	beta-BHC	14926	0.0101198	0.0101198	0.01000	101.2
5.65	delta-BHC	0	0.0000000	0.0000000	---------	------
5.95	Heptachlor	0	0.0000000	0.0000000	---------	------
6.37	Aldrin	0	0.0000000	0.0000000	---------	------
7.24	Heptachlor epoxide	0	0.0000000	0.0000000	---------	------
7.41	gamma-Chlordane	0	0.0000000	0.0000000	---------	------
7.60	alpha-Chlordane	0	0.0000000	0.0000000	---------	------
7.71	4,4'-DDE	454	0.0002108	0.0002108	0.10000	0.2
7.80	Endosulfan I	0	0.0000000	0.0000000	---------	------
8.15	Dieldrin	0	0.0000000	0.0000000	---------	------
8.48	Endrin	98248	0.0480970	0.0480970	0.05000	96.2
8.58	4,4'-DDD	0	0.0000000	0.0000000	---------	------
8.84	Endosulfan II	155	0.0000769	0.0000769	0.00000	------
8.98	4,4'-DDT	195294	0.0955325	0.0955325	0.10000	95.5
9.42	Endrin aldehyde	3704	0.0021658	0.0021658	0.05000	4.3
9.68	Methoxychlor	241151	0.2360424	0.2360424	0.25000	94.4
10.05	Endosulfan sulfate	0	0.0000000	0.0000000	---------	------
10.42	Endrin ketone	5367	0.0022819	0.0022819	0.05000	4.6
11.54	Decachlorobiphenyl	41135	0.0207141	0.0207141	0.02000	103.6
			0.4545416			795.0

06/20/2015 13:08:26 Result: \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.71	4,4'-DDE	454	0.0002108	0.0002108	0.10000	0.2
8.58	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0002108			0.2

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.42	Endrin aldehyde	3704	0.0021658	0.0021658	0.05000	4.3
10.42	Endrin ketone	5367	0.0022819	0.0022819	0.05000	4.6
			0.0044477			8.9

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:28
Operator	: sagers	Sample Name	: TOXAPH111
Sample Number	: 006	Study	: 28306
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 19:59:48	Dilution Factor	: 1.00
		Cycle	: 4

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_std_a.rpt
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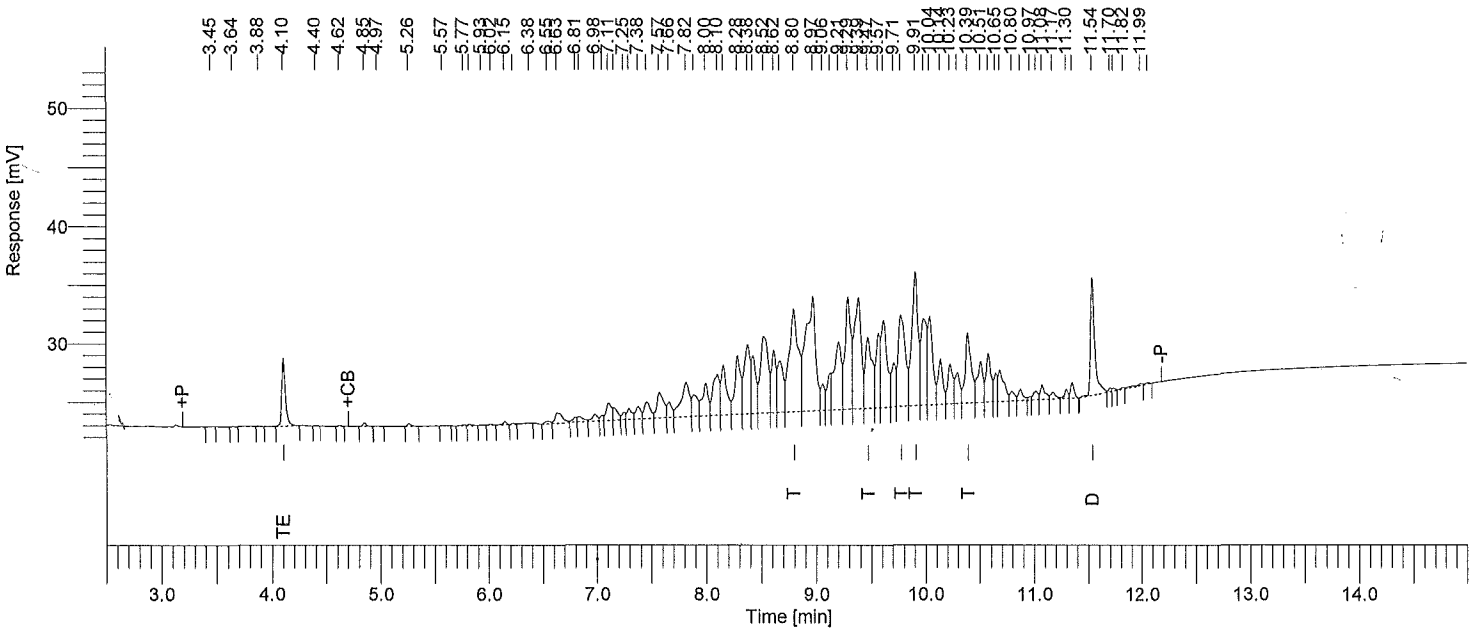

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	13302	0.0056412
8.80	Toxaphene-1	50692	0.5193067
9.47	Toxaphene-2	26950	0.4769347
9.77	Toxaphene-3	37358	0.4839228
9.91	Toxaphene-4	45272	0.5134624
10.39	Toxaphene-5	23688	0.4442797
11.54	Decachlorobiphenyl	27440	0.0115895

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:30
Operator	: sagers	Sample Name	: TOXAPH211
Sample Number	: 007	Study	: 28307
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 20:20:40	Dilution Factor	: 1.00
		Cycle	: 5

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_std_a.rpt
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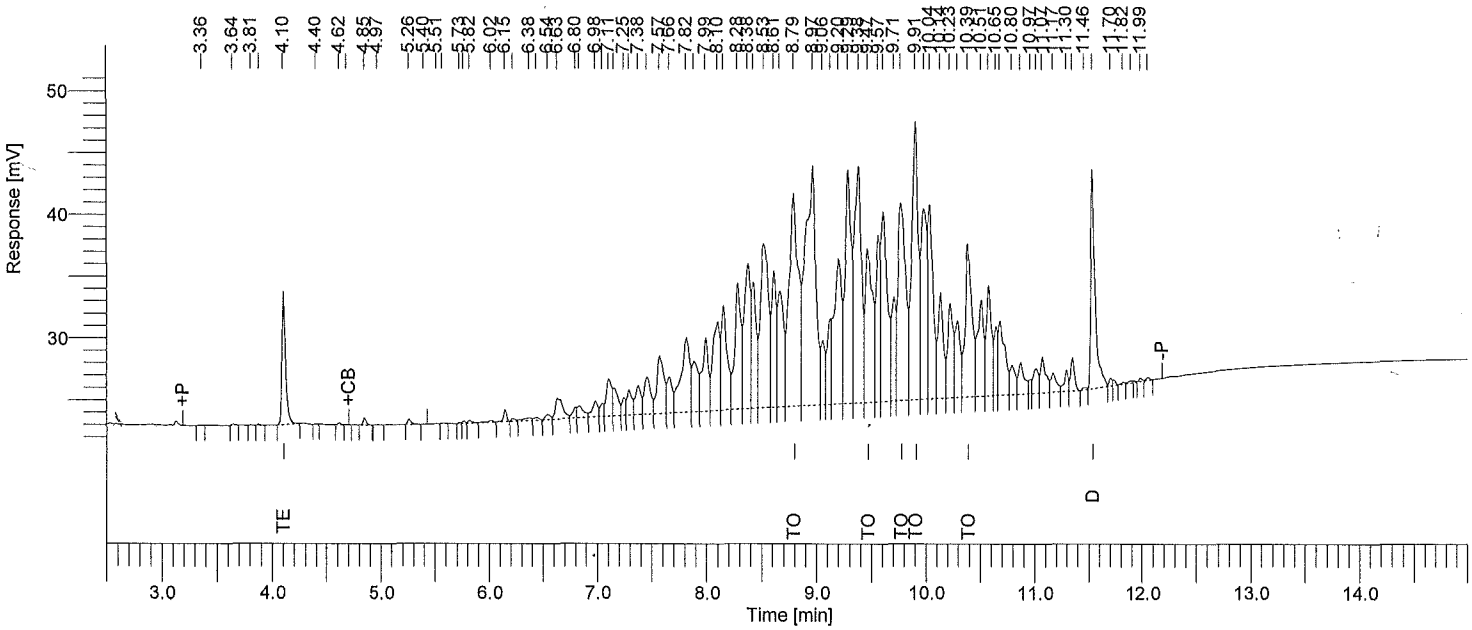

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	24772	0.0105054
8.79	Toxaphene-1	102903	1.0541777
9.47	Toxaphene-2	58606	1.0371341
9.78	Toxaphene-3	79628	1.0314678
9.91	Toxaphene-4	92576	1.0499720
10.39	Toxaphene-5	53213	0.9980387
11.54	Decachlorobiphenyl	49573	0.0209380

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:32
Operator	: sagers	Sample Name	: TOXAPH311
Sample Number	: 008	Study	: 28308
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 20:41:48	Cycle	: 6

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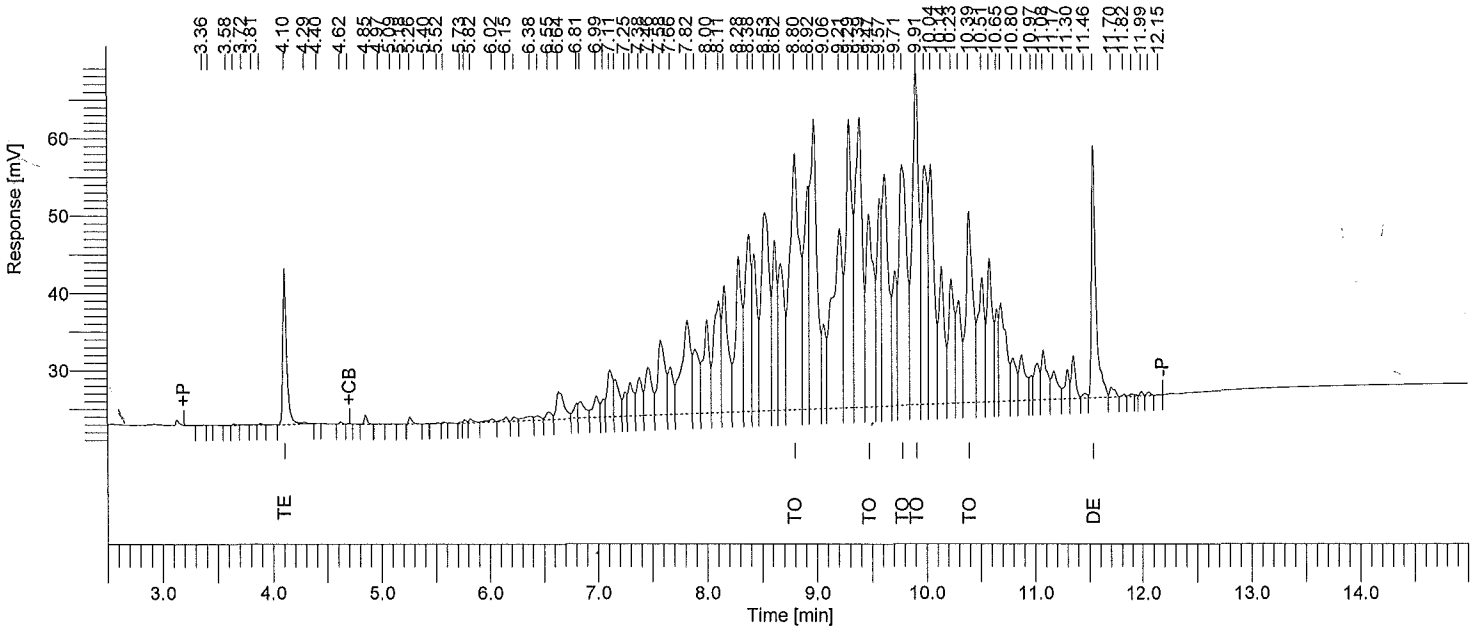

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.10	Tetrachloro-m-xylene	48313	0.0204888	0.0204888	0.0200000	102.4
8.80	Toxaphene-1	202349	2.0729356	2.0729356	2.0000000	103.6
9.47	Toxaphene-2	118378	2.0949110	2.0949110	2.0000000	104.7
9.78	Toxaphene-3	161266	2.0889716	2.0889716	2.0000000	104.4
9.91	Toxaphene-4	181683	2.0606043	2.0606043	2.0000000	103.0
10.39	Toxaphene-5	112094	2.1023782	2.1023782	2.0000000	105.1
11.54	Decachlorobiphenyl	92194	0.0389395	0.0389395	0.0400000	97.3

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:34
Operator	: sagers	Sample Name	: TOXAPH411
Sample Number	: 009	Study	: 28309
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 21:02:40	Cycle	: 7

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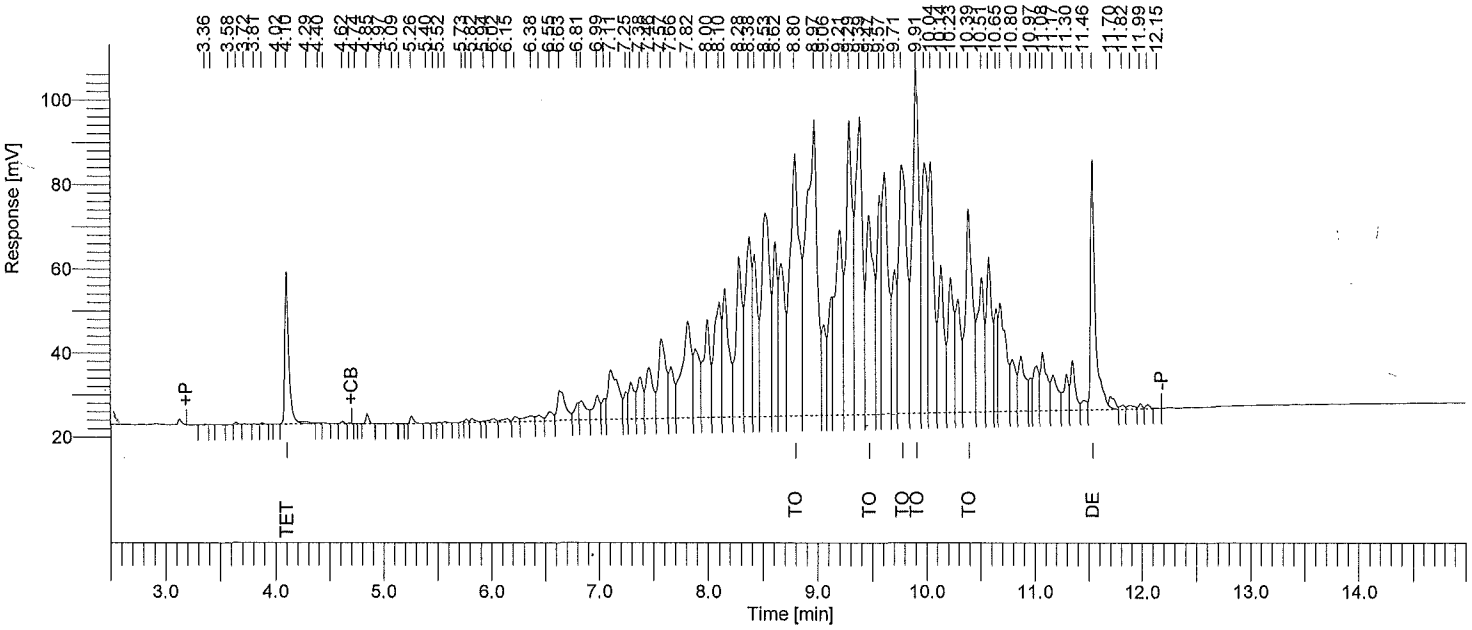

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	88903	0.0377027
8.80	Toxaphene-1	380919	3.9022781
9.47	Toxaphene-2	229611	4.0633846
9.78	Toxaphene-3	311506	4.0351058
9.91	Toxaphene-4	346103	3.9254236
10.39	Toxaphene-5	222671	4.1762930
11.54	Decachlorobiphenyl	179120	0.0756537

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:36
Operator	: sagers	Sample Name	: TOXAPH511
Sample Number	: 010	Study	: 28310
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 21:23:33	Cycle	: 8

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Report Format File: \\AIsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_std_a.rpt
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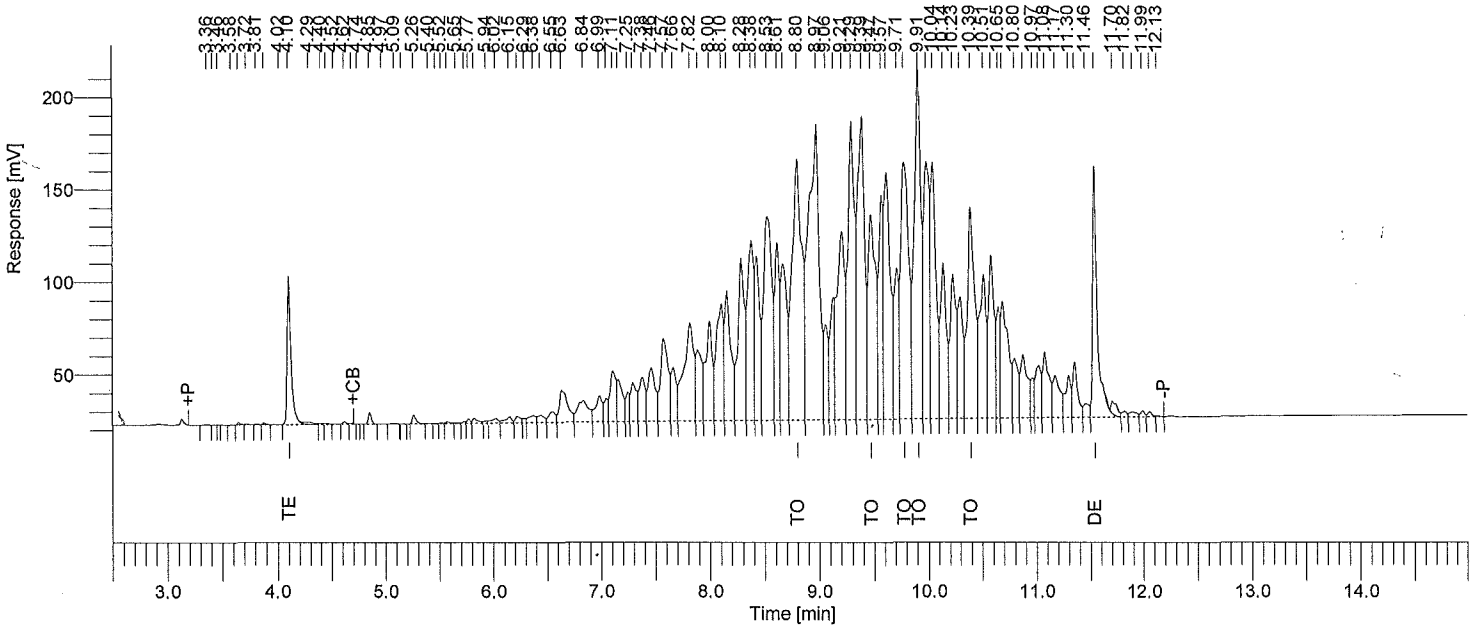

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	201425	0.0854217
8.80	Toxaphene-1	873818	8.9517168
9.47	Toxaphene-2	534387	9.4569476
9.78	Toxaphene-3	731402	9.4742436
9.91	Toxaphene-4	803617	9.1144503
10.39	Toxaphene-5	542849	10.1813946
11.54	Decachlorobiphenyl	414331	0.1749984

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:39
Operator	: sagers	Sample Name	: INDC111
Sample Number	: 011	Study	: 28311
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 21:44:25	Dilution Factor	: 1.00
		Cycle	: 9

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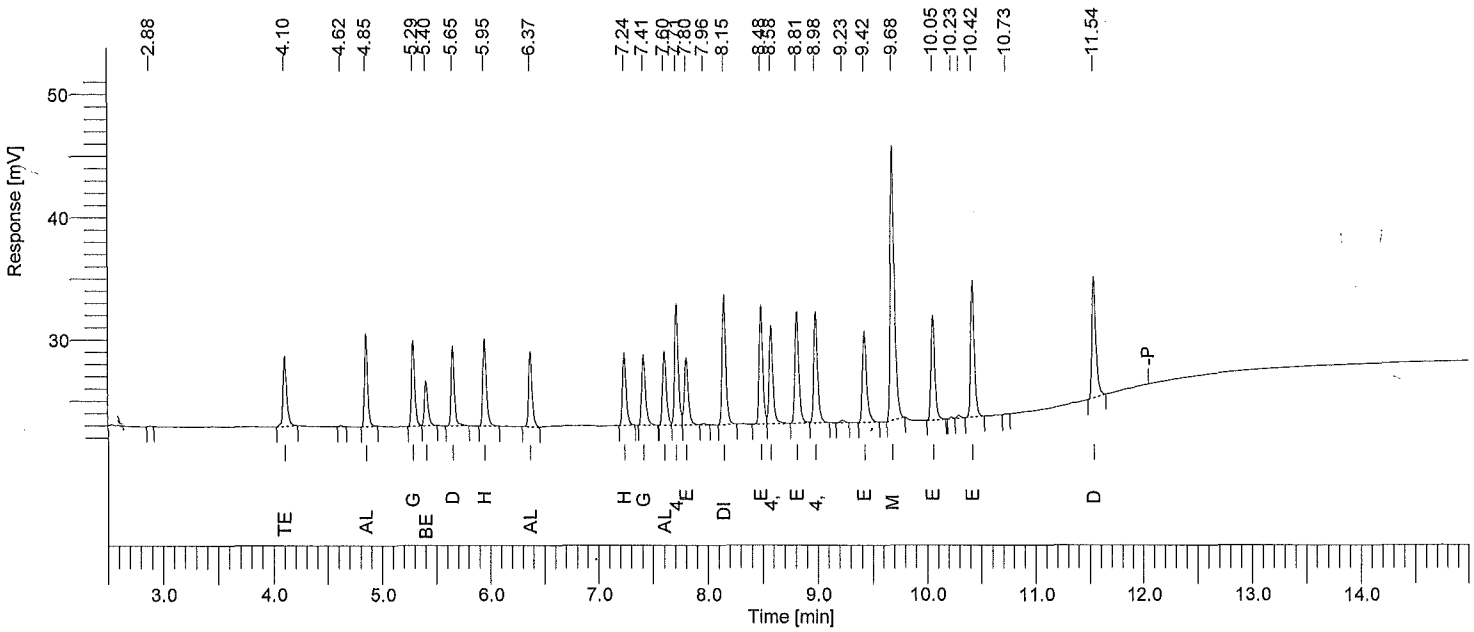

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	13082	0.0056386
4.85	alpha-BHC	14913	0.0049377
5.29	gamma-BHC	14464	0.0051753
5.40	beta-BHC	8174	0.0055419
5.65	delta-BHC	13536	0.0049845
5.95	Heptachlor	16252	0.0054945
6.37	Aldrin	13690	0.0052565
7.24	Heptachlor epoxide	13591	0.0054771
7.41	gamma-Chlordane	13908	0.0054634
7.60	alpha-Chlordane	14415	0.0055455
7.71	4,4'-DDE	22605	0.0104963
7.80	Endosulfan I	13800	0.0054056
8.15	Dieldrin	24860	0.0107230
8.48	Endrin	22345	0.0109387
8.58	4,4'-DDD	19380	0.0104450
8.81	Endosulfan II	22485	0.0111476
8.98	4,4'-DDT	22088	0.0108049
9.42	Endrin aldehyde	19541	0.0114262
9.68	Methoxychlor	58789	0.0575441
10.05	Endosulfan sulfate	20500	0.0111064
10.42	Endrin ketone	26561	0.0112936
11.54	Decachlorobiphenyl	24567	0.0123709

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:41
Operator	: sagers	Sample Name	: INDC211
Sample Number	: 012	Study	: 28312
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 22:05:13	Cycle	: 10

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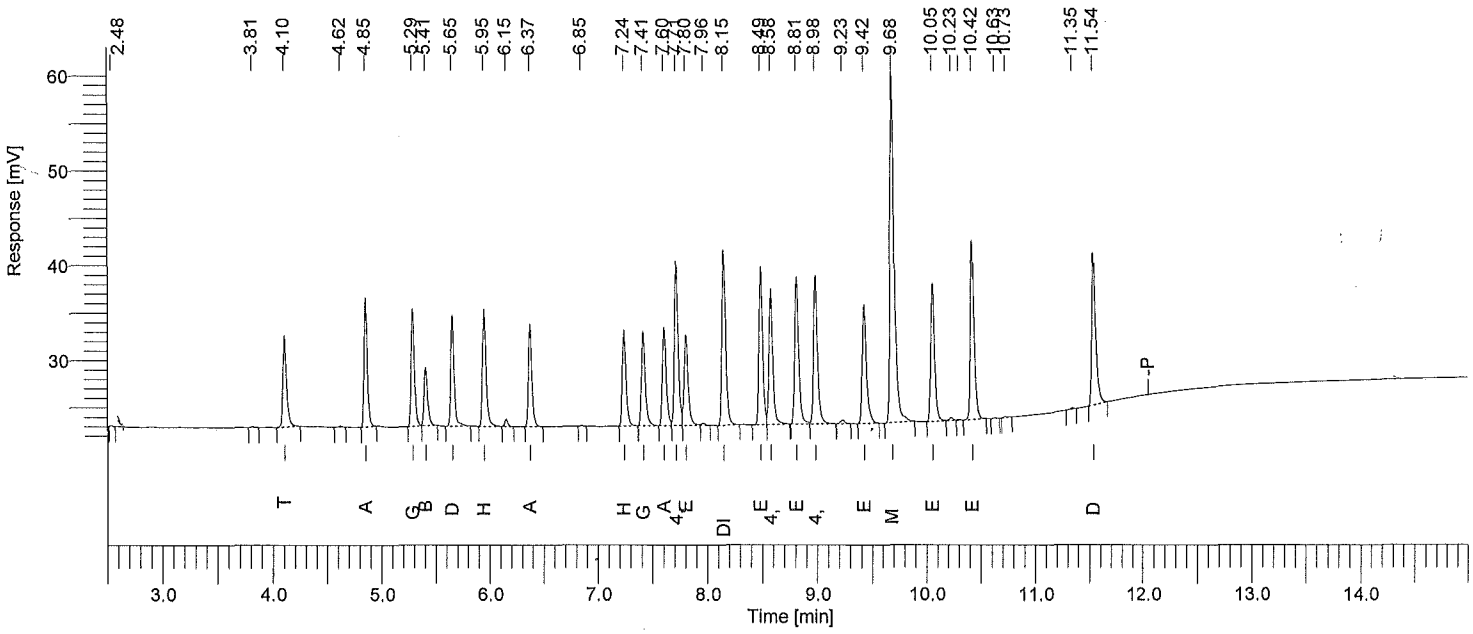

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	22174	0.0095572
4.85	alpha-BHC	27626	0.0091472
5.29	gamma-BHC	26352	0.0094288
5.41	beta-BHC	14140	0.0095868
5.65	delta-BHC	25268	0.0093044
5.95	Heptachlor	29020	0.0098108
6.37	Aldrin	24421	0.0093768
7.24	Heptachlor epoxide	24231	0.0097646
7.41	gamma-Chlordane	24534	0.0096376
7.60	alpha-Chlordane	25364	0.0097578
7.71	4,4'-DDE	40988	0.0190327
7.80	Endosulfan I	24575	0.0096259
8.15	Dieldrin	44901	0.0193672
8.49	Endrin	39318	0.0192480
8.58	4,4'-DDD	35063	0.0188980
8.81	Endosulfan II	39271	0.0194696
8.98	4,4'-DDT	39794	0.0194661
9.42	Endrin aldehyde	33769	0.0197458
9.68	Methoxychlor	101492	0.0993417
10.05	Endosulfan sulfate	35957	0.0194806
10.42	Endrin ketone	46419	0.0197371
11.54	Decachlorobiphenyl	40608	0.0204486

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:43
Operator	: sagers	Sample Name	: INDC311
Sample Number	: 013	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 22:26:17	Dilution Factor	: 1.00
		Cycle	: 11

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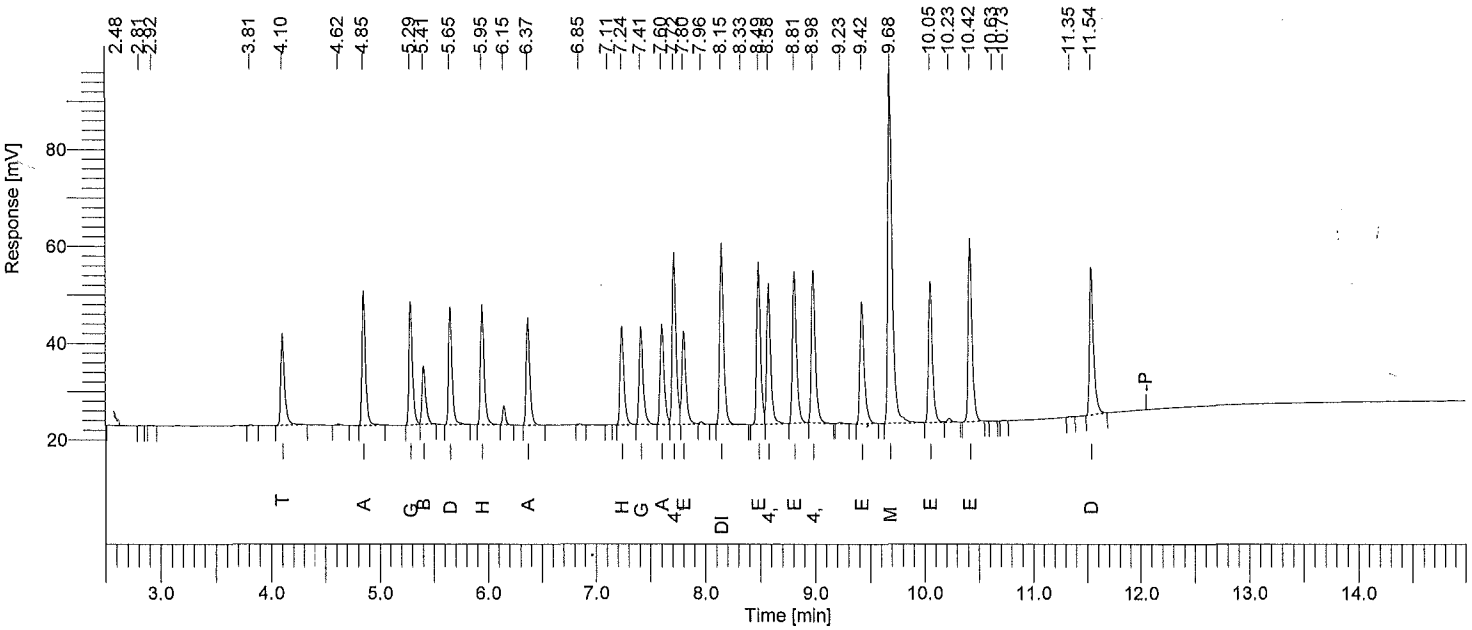

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.10	Tetrachloro-m-xylene	45645	0.0196730	0.0196730	0.0200000	98.4
4.85	alpha-BHC	61347	0.0203126	0.0203126	0.0200000	101.6
5.29	gamma-BHC	56105	0.0200745	0.0200745	0.0200000	100.4
5.41	beta-BHC	28658	0.0194304	0.0194304	0.0200000	97.2
5.65	delta-BHC	54417	0.0200384	0.0200384	0.0200000	100.2
5.95	Heptachlor	59410	0.0200852	0.0200852	0.0200000	100.4
6.37	Aldrin	52592	0.0201930	0.0201930	0.0200000	101.0
7.24	Heptachlor epoxide	49892	0.0201060	0.0201060	0.0200000	100.5
7.41	gamma-Chlordane	50812	0.0199598	0.0199598	0.0200000	99.8
7.60	alpha-Chlordane	52042	0.0200211	0.0200211	0.0200000	100.1
7.72	4,4'-DDE	86320	0.0400820	0.0400820	0.0400000	100.2
7.80	Endosulfan I	51265	0.0200807	0.0200807	0.0200000	100.4
8.15	Dieldrin	93818	0.0404670	0.0404670	0.0400000	101.2
8.49	Endrin	81069	0.0396871	0.0396871	0.0400000	99.2
8.58	4,4'-DDD	74232	0.0400088	0.0400088	0.0400000	100.0
8.81	Endosulfan II	80505	0.0399125	0.0399125	0.0400000	99.8
8.98	4,4'-DDT	80979	0.0396130	0.0396130	0.0400000	99.0
9.42	Endrin aldehyde	68441	0.0400191	0.0400191	0.0400000	100.0
9.68	Methoxychlor	202454	0.1981657	0.1981657	0.2000000	99.1
10.05	Endosulfan sulfate	73338	0.0397332	0.0397332	0.0400000	99.3
10.42	Endrin ketone	93669	0.0398276	0.0398276	0.0400000	99.6
11.54	Decachlorobiphenyl	77819	0.0391864	0.0391864	0.0400000	98.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:46
Operator	: sagers	Sample Name	: INDC411
Sample Number	: 014	Study	: 28314
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 22:47:05	Dilution Factor	: 1.00
		Cycle	: 12

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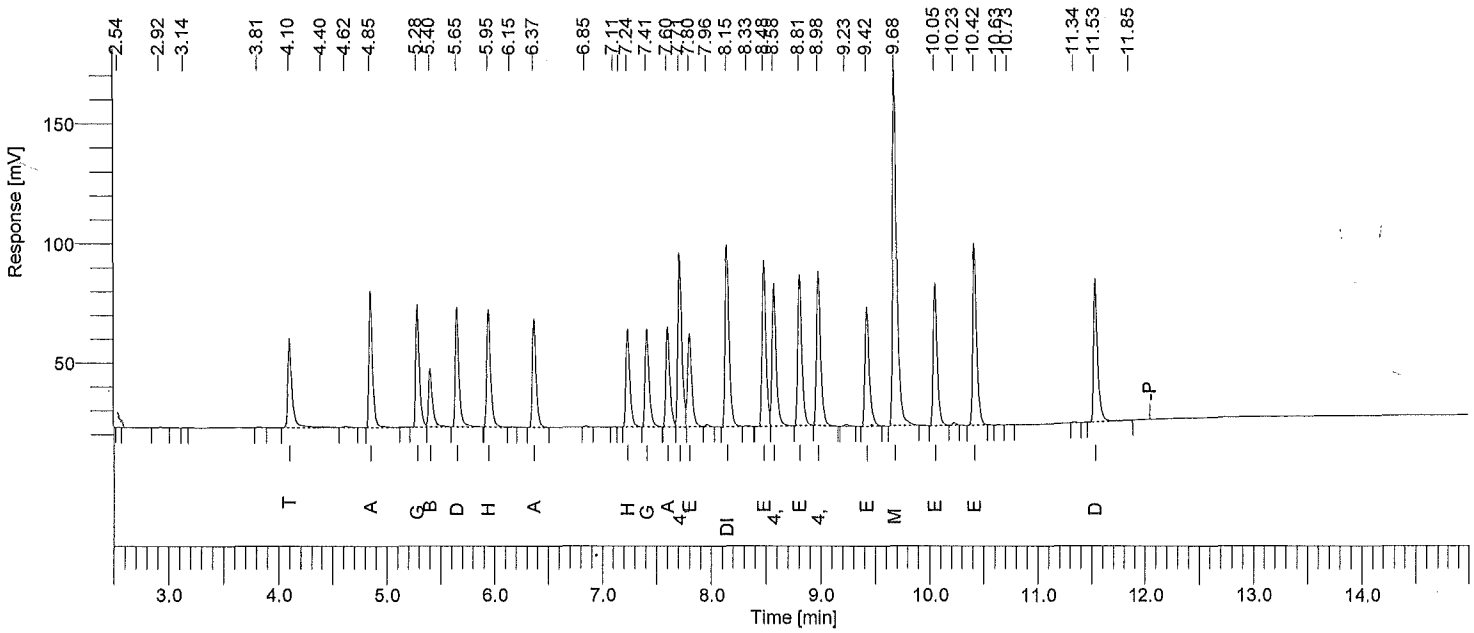

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	96217	0.0414700
4.85	alpha-BHC	132736	0.0439502
5.28	gamma-BHC	119569	0.0427819
5.40	beta-BHC	62001	0.0420374
5.65	delta-BHC	118609	0.0436763
5.95	Heptachlor	121480	0.0410695
6.37	Aldrin	110339	0.0423653
7.24	Heptachlor epoxide	102044	0.0411223
7.41	gamma-Chlordane	105227	0.0413352
7.60	alpha-Chlordane	106220	0.0408641
7.71	4,4'-DDE	182389	0.0846914
7.80	Endosulfan I	105386	0.0412797
8.15	Dieldrin	192558	0.0830572
8.48	Endrin	171005	0.0837149
8.58	4,4'-DDD	157159	0.0847033
8.81	Endosulfan II	164373	0.0814921
8.98	4,4'-DDT	169324	0.0828286
9.42	Endrin aldehyde	136845	0.0800166
9.68	Methoxychlor	405334	0.3967475
10.05	Endosulfan sulfate	150988	0.0818021
10.42	Endrin ketone	188857	0.0803012
11.53	Decachlorobiphenyl	151722	0.0764015

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:48
Operator	: sagers	Sample Name	: INDC511
Sample Number	: 015	Study	: 28315
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 23:07:51	Dilution Factor	: 1.00
		Cycle	: 13

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_std_a.rpt
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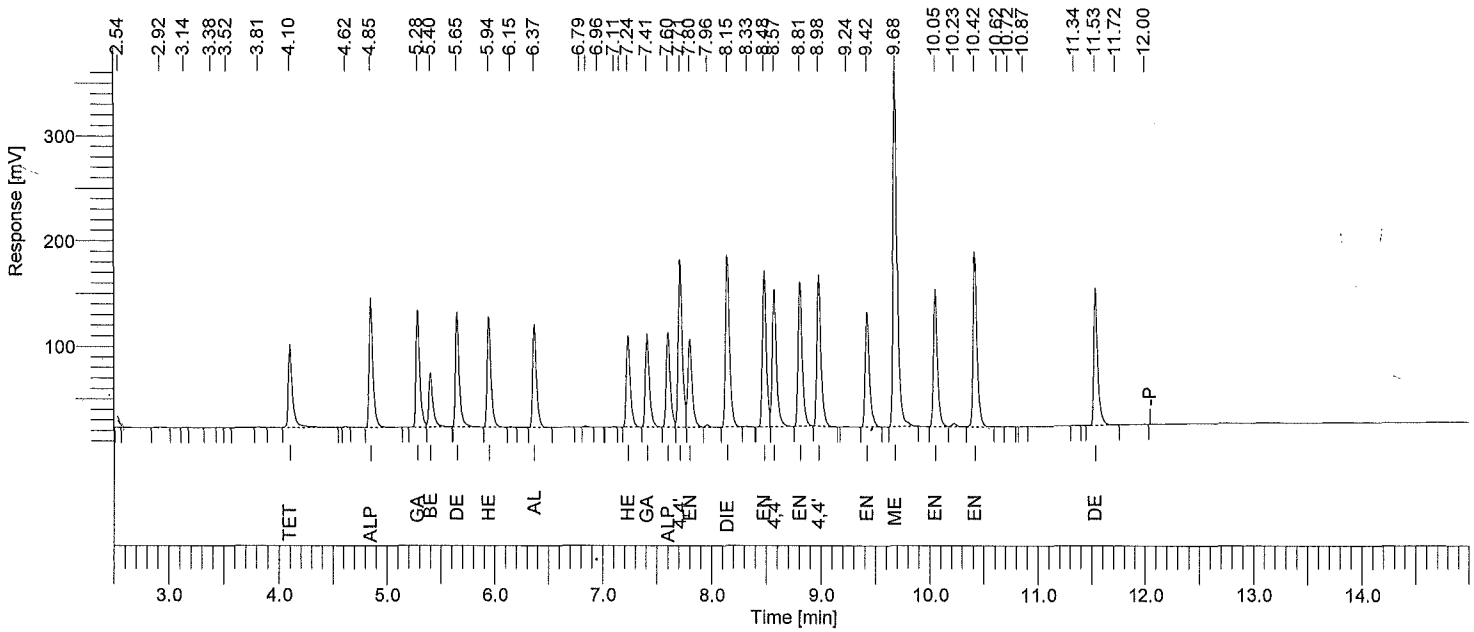

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	207923	0.0896157
4.85	alpha-BHC	296988	0.0983355
5.28	gamma-BHC	265170	0.0948782
5.40	beta-BHC	134287	0.0910476
5.65	delta-BHC	265813	0.0978822
5.94	Heptachlor	262968	0.0889030
6.37	Aldrin	245405	0.0942248
7.24	Heptachlor epoxide	222034	0.0894771
7.41	gamma-Chlordane	232213	0.0912182
7.60	alpha-Chlordane	231980	0.0892456
7.71	4,4'-DDE	404032	0.1876096
7.80	Endosulfan I	234940	0.0920261
8.15	Dieldrin	421689	0.1818895
8.48	Endrin	369778	0.1810233
8.57	4,4'-DDD	353114	0.1903164
8.81	Endosulfan II	361170	0.1790589
8.98	4,4'-DDT	376361	0.1841056
9.42	Endrin aldehyde	297373	0.1738807
9.68	Methoxychlor	891897	0.8730038
10.05	Endosulfan sulfate	332045	0.1798953
10.42	Endrin ketone	415965	0.1768668
11.53	Decachlorobiphenyl	320040	0.1611597

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:52
Operator	: sagers	Sample Name	: PEM21
Sample Number	: 017	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 23:49:29	Cycle	: 15

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_017.rst
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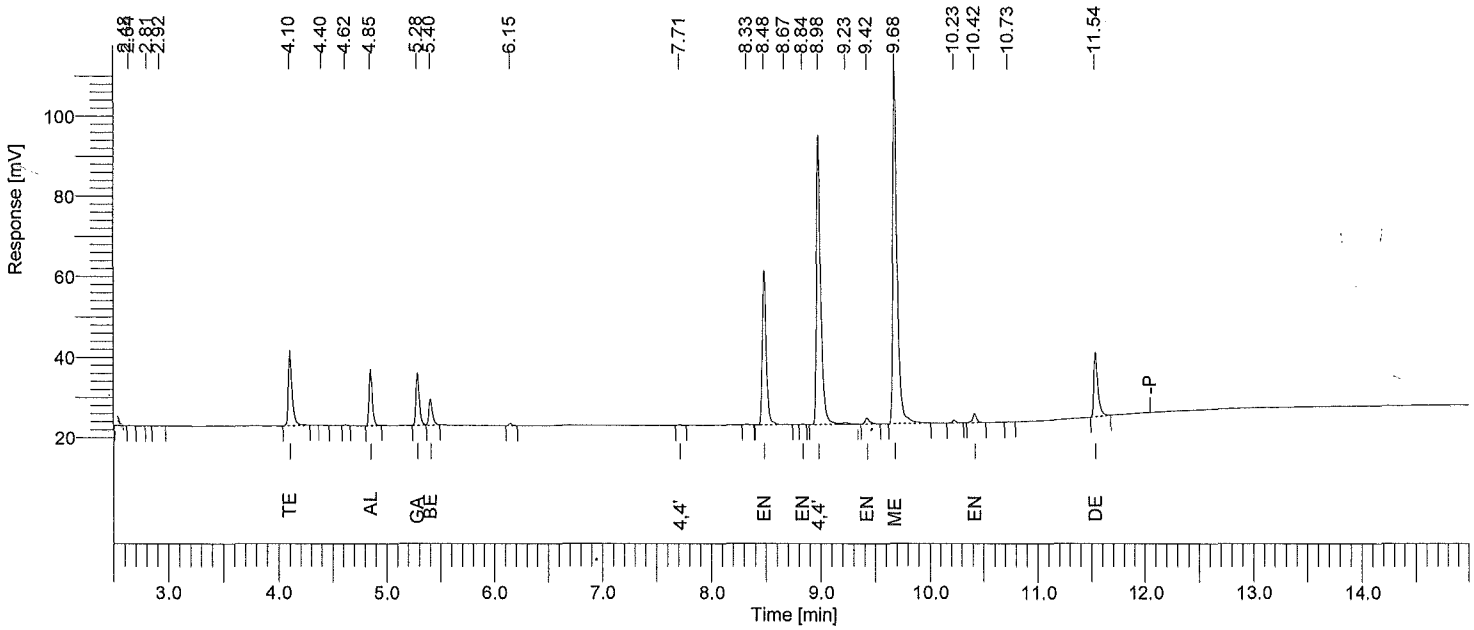

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.10	Tetrachloro-m-xylene	44387	0.0191309	0.0191309	0.02000	95.7
4.85	alpha-BHC	28579	0.0094628	0.0094628	0.01000	94.6
5.28	gamma-BHC	27505	0.0098415	0.0098415	0.01000	98.4
5.40	beta-BHC	14718	0.0099792	0.0099792	0.01000	99.8
5.65	delta-BHC	0	0.0000000	0.0000000	---------	------
5.95	Heptachlor	0	0.0000000	0.0000000	---------	------
6.37	Aldrin	0	0.0000000	0.0000000	---------	------
7.24	Heptachlor epoxide	0	0.0000000	0.0000000	---------	------
7.41	gamma-Chlordane	0	0.0000000	0.0000000	---------	------
7.60	alpha-Chlordane	0	0.0000000	0.0000000	---------	------
7.71	4,4'-DDE	393	0.0001824	0.0001824	0.10000	0.2
7.80	Endosulfan I	0	0.0000000	0.0000000	---------	------
8.15	Dieldrin	0	0.0000000	0.0000000	---------	------
8.48	Endrin	96587	0.0472837	0.0472837	0.05000	94.6
8.58	4,4'-DDD	0	0.0000000	0.0000000	---------	------
8.84	Endosulfan II	224	0.0001109	0.0001109	0.00000	------
8.98	4,4'-DDT	194052	0.0949250	0.0949250	0.10000	94.9
9.42	Endrin aldehyde	4619	0.0027008	0.0027008	0.05000	5.4
9.68	Methoxychlor	245463	0.2402636	0.2402636	0.25000	96.1
10.05	Endosulfan sulfate	0	0.0000000	0.0000000	---------	------
10.42	Endrin ketone	5909	0.0025124	0.0025124	0.05000	5.0
11.54	Decachlorobiphenyl	41205	0.0207493	0.0207493	0.02000	103.7
			0.4571423			788.4

06/20/2015 13:08:52 Result: \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.71	4,4'-DDE	393	0.0001824	0.0001824	0.10000	0.2
8.58	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0001824			0.2

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.42	Endrin aldehyde	4619	0.0027008	0.0027008	0.05000	5.4
10.42	Endrin ketone	5909	0.0025124	0.0025124	0.05000	5.0
			0.0052132			10.4

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/21/2015 10:30:04
Reprocess Number	: nasltw7057: 2218559		
Operator	: sagers		
Sample Number	: 031	Sample Name	: INDC331
AutoSampler	: HP7673A	Study	: 28313
Instrument Name	: GCE21	Rack/Vial	: 0/31
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.90 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 04:40:47	Dilution Factor	: 1.00
		Cycle	: 1

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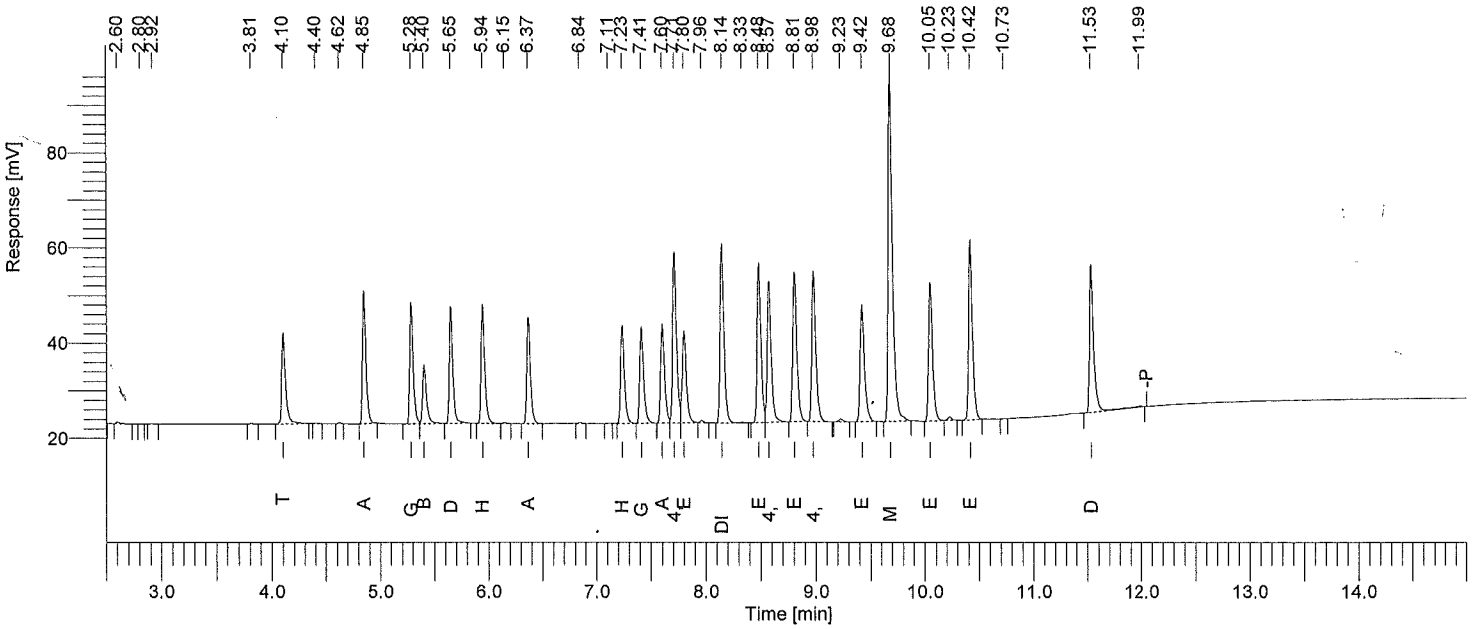

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.10	Tetrachloro-m-xylene	46532	0.0200555	0.0200555	0.0200000	100.3
4.85	alpha-BHC	60678	0.0200910	0.0200910	0.0200000	100.5
5.28	gamma-BHC	57158	0.0204513	0.0204513	0.0200000	102.3
5.40	beta-BHC	30764	0.0208585	0.0208585	0.0200000	104.3
5.65	delta-BHC	55283	0.0203571	0.0203571	0.0200000	101.8
5.94	Heptachlor	59416	0.0200870	0.0200870	0.0200000	100.4
6.37	Aldrin	52259	0.0200653	0.0200653	0.0200000	100.3
7.23	Heptachlor epoxide	49727	0.0200392	0.0200392	0.0200000	100.2
7.41	gamma-Chlordane	50693	0.0199134	0.0199134	0.0200000	99.6
7.60	alpha-Chlordane	52108	0.0200465	0.0200465	0.0200000	100.2
7.71	4,4'-DDE	88001	0.0408626	0.0408626	0.0400000	102.2
7.80	Endosulfan I	50488	0.0197760	0.0197760	0.0200000	98.9
8.14	Dieldrin	93138	0.0401736	0.0401736	0.0400000	100.4
8.48	Endrin	80905	0.0396068	0.0396068	0.0400000	99.0
8.57	4,4'-DDD	76113	0.0410225	0.0410225	0.0400000	102.6
8.81	Endosulfan II	80511	0.0399152	0.0399152	0.0400000	99.8
8.98	4,4'-DDT	81052	0.0396487	0.0396487	0.0400000	99.1
9.42	Endrin aldehyde	66547	0.0389113	0.0389113	0.0400000	97.3
9.68	Methoxychlor	203929	0.1996092	0.1996092	0.2000000	99.8
10.05	Endosulfan sulfate	72598	0.0393319	0.0393319	0.0400000	98.3
10.42	Endrin ketone	93769	0.0398701	0.0398701	0.0400000	99.7
11.53	Decachlorobiphenyl	78284	0.0394210	0.0394210	0.0400000	98.6

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:31
Operator	: sagers	Sample Name	: RESC12
Sample Number	: 004	Study	: 228313
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 19:38:40	Dilution Factor	: 1.00
		Cycle	: 3

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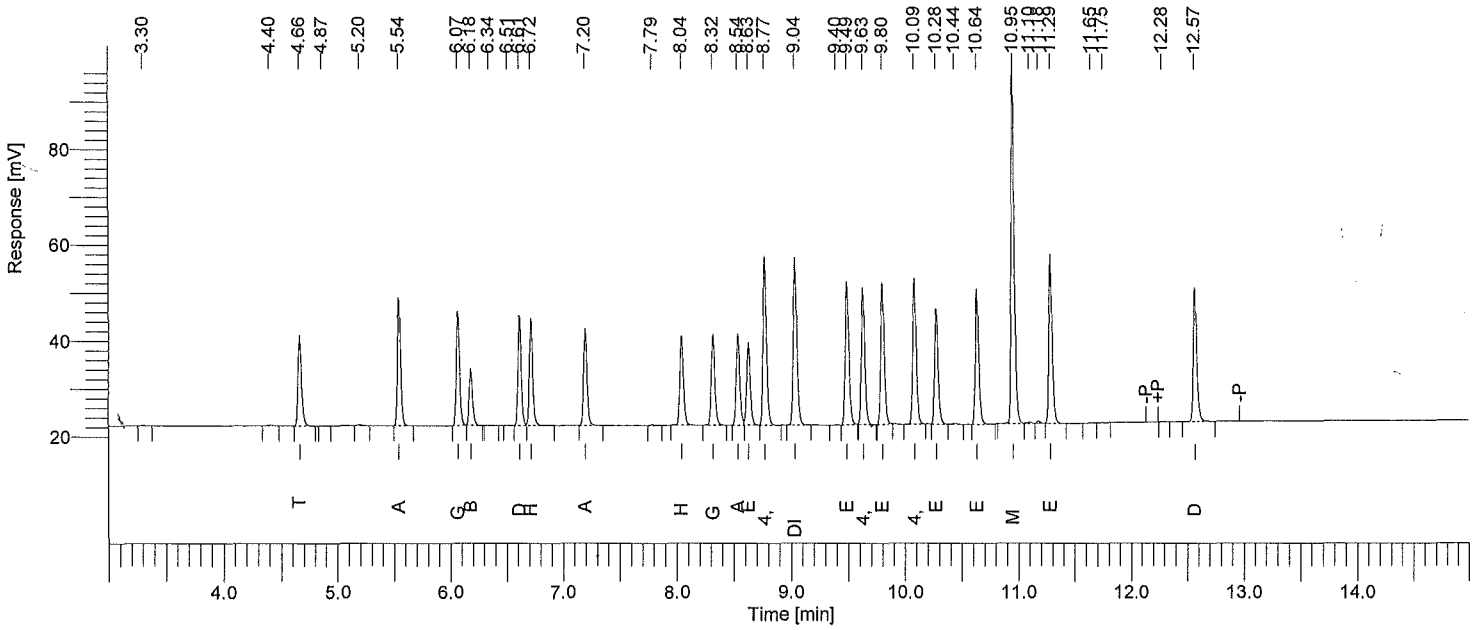

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	40395	0.0202915
5.54	alpha-BHC	51977	0.0208046
6.07	gamma-BHC	47147	0.0206360
6.18	beta-BHC	24821	0.0203843
6.61	delta-BHC	45270	0.0207483
6.72	Heptachlor	46492	0.0200334
7.20	Aldrin	42411	0.0207235
8.04	Heptachlor epoxide	40115	0.0204785
8.32	gamma-Chlordane	41206	0.0202709
8.54	alpha-Chlordane	41792	0.0204192
8.63	Endosulfan I	37501	0.0204385
8.77	4,4'-DDE	74637	0.0411329
9.04	Dieldrin	77518	0.0410496
9.49	Endrin	66183	0.0403526
9.63	4,4'-DDD	60282	0.0407588
9.80	Endosulfan II	65296	0.0406329
10.09	4,4'-DDT	63052	0.0395889
10.28	Endrin aldehyde	52435	0.0409778
10.64	Endosulfan sulfate	58453	0.0404152
10.95	Methoxychlor	143566	0.1863195
11.29	Endrin ketone	71995	0.0399766
12.57	Decachlorobiphenyl	61605	0.0395571

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:33
Operator	: sagers	Sample Name	: PEM12
Sample Number	: 005	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 19:59:48	Cycle	: 4

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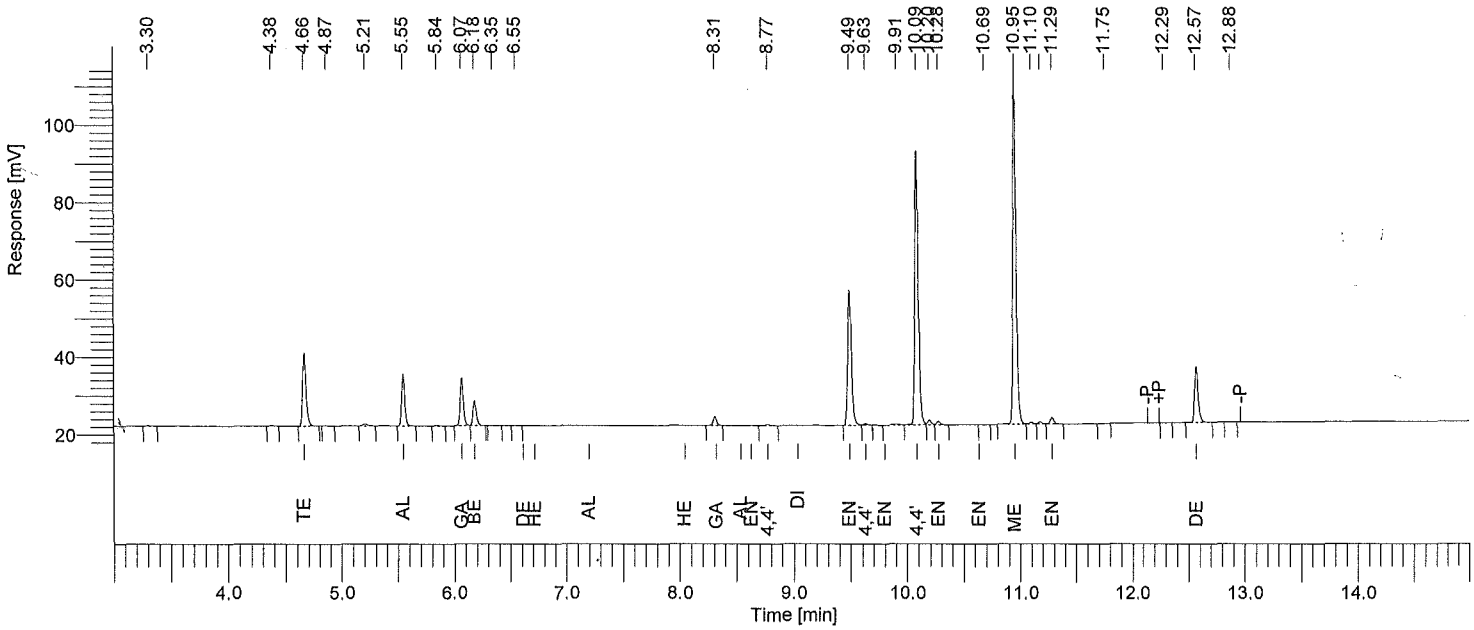

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.66	Tetrachloro-m-xylene	40083	0.0201345	0.0201345	0.02000	100.7
5.55	alpha-BHC	25500	0.0102068	0.0102068	0.01000	102.1
6.07	gamma-BHC	23896	0.0104593	0.0104593	0.01000	104.6
6.18	beta-BHC	13274	0.0109014	0.0109014	0.01000	109.0
6.61	delta-BHC	0	0.0000000	0.0000000	---------	------
6.72	Heptachlor	0	0.0000000	0.0000000	---------	------
7.20	Aldrin	0	0.0000000	0.0000000	---------	------
8.04	Heptachlor epoxide	0	0.0000000	0.0000000	---------	------
8.31	gamma-Chlordane	4599	0.0022624	0.0022624	0.00000	------
8.54	alpha-Chlordane	0	0.0000000	0.0000000	---------	------
8.63	Endosulfan I	0	0.0000000	0.0000000	---------	------
8.77	4,4'-DDE	787	0.0004336	0.0004336	0.10000	0.4
9.03	Dieldrin	0	0.0000000	0.0000000	---------	------
9.49	Endrin	78508	0.0478670	0.0478670	0.05000	95.7
9.63	4,4'-DDD	987	0.0006673	0.0006673	0.10000	0.7
9.80	Endosulfan II	0	0.0000000	0.0000000	---------	------
10.09	4,4'-DDT	149906	0.0941221	0.0941221	0.10000	94.1
10.28	Endrin aldehyde	2037	0.0015916	0.0015916	0.05000	3.2
10.69	Endosulfan sulfate	134	0.0000928	0.0000928	0.00000	------
10.95	Methoxychlor	177816	0.2307695	0.2307695	0.25000	92.3
11.29	Endrin ketone	3748	0.0020813	0.0020813	0.05000	4.2
12.57	Decachlorobiphenyl	32283	0.0207291	0.0207291	0.02000	103.6
			0.4523190			810.6

06/20/2015 13:09:33 Result: \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.77	4,4'-DDE	787	0.0004336	0.0004336	0.10000	0.4
9.63	4,4'-DDD	987	0.0006673	0.0006673	0.10000	0.7
			0.0011009			1.1

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.28	Endrin aldehyde	2037	0.0015916	0.0015916	0.05000	3.2
11.29	Endrin ketone	3748	0.0020813	0.0020813	0.05000	4.2
			0.0036729			7.3

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:35
Operator	: sagers	Sample Name	: TOXAPH112
Sample Number	: 006	Study	: 28306
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 20:20:40	Dilution Factor	: 1.00
		Cycle	: 5

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_std_b.rpt
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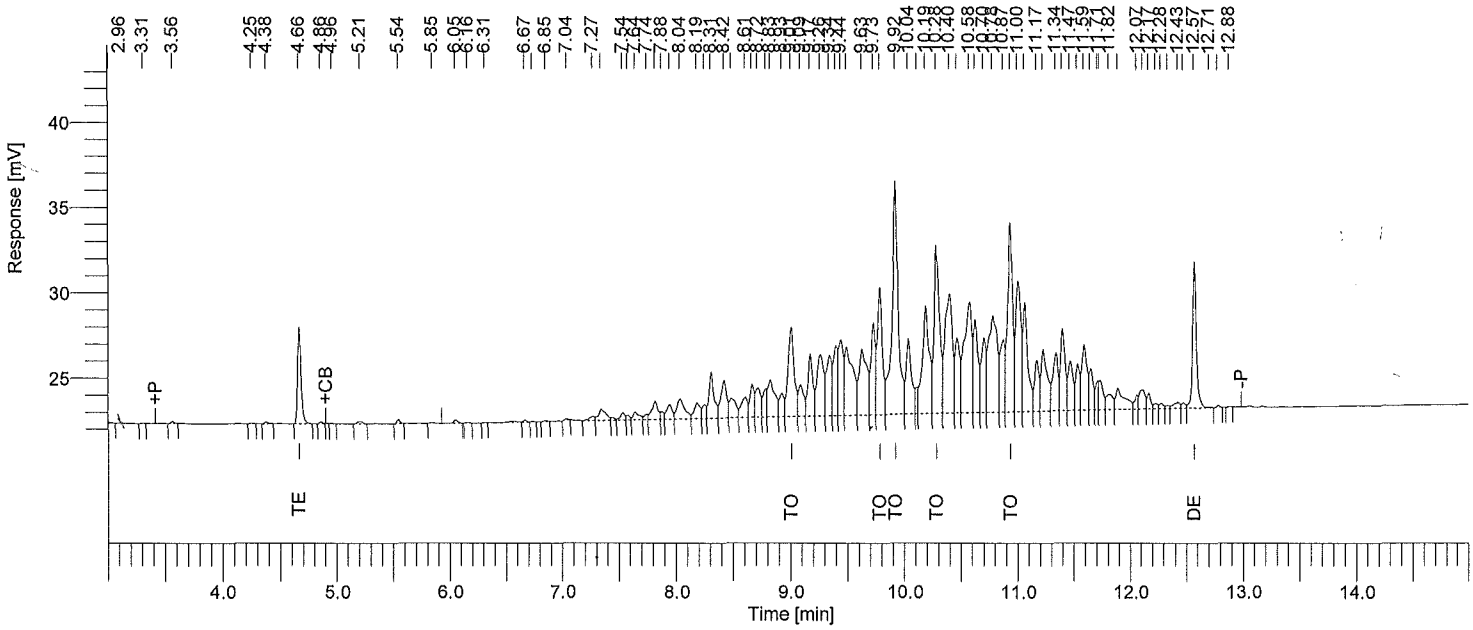

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	11897	0.0057301
9.01	Toxaphene-1	19777	0.5269407
9.78	Toxaphene-2	23618	0.5279030
9.92	Toxaphene-3	52381	0.5291506
10.28	Toxaphene-4	33859	0.5210913
10.94	Toxaphene-5	34959	0.5289034
12.57	Decachlorobiphenyl	20807	0.0114968

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:37
Operator	: sagers	Sample Name	: TOXAPH212
Sample Number	: 007	Study	: 28307
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 20:41:48	Dilution Factor	: 1.00
		Cycle	: 6

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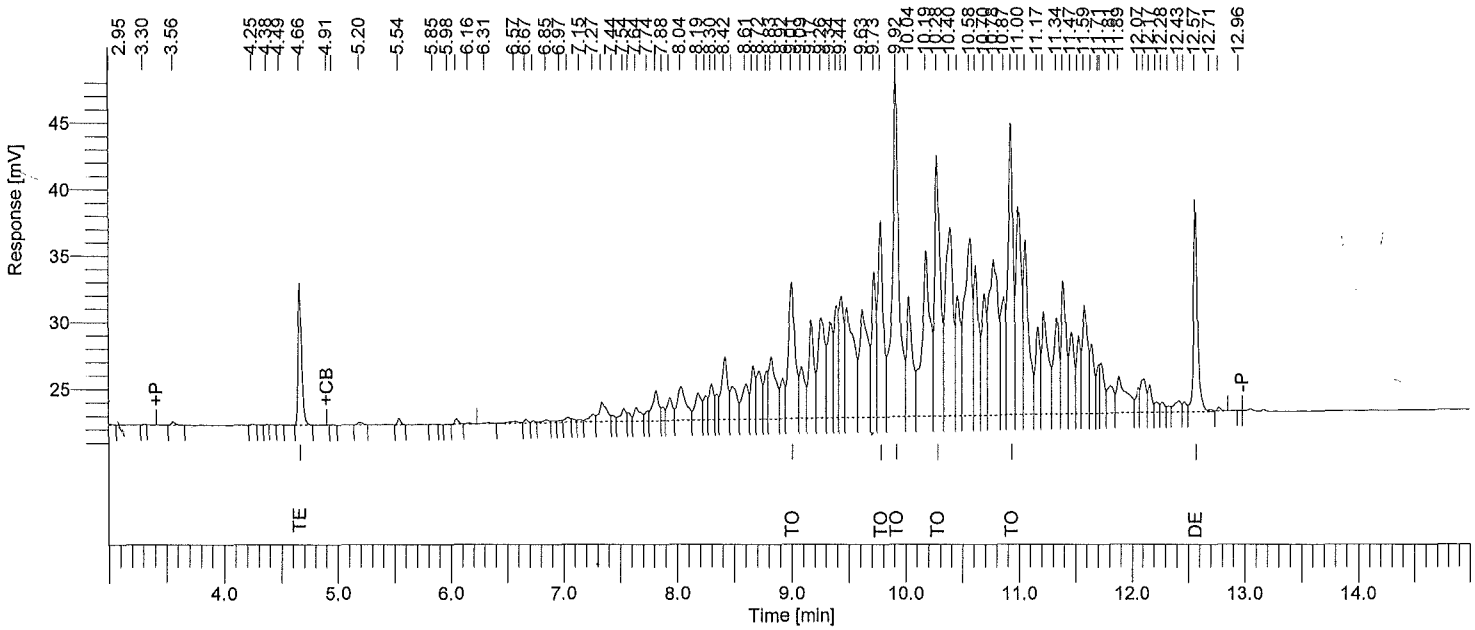

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	22607	0.0108888
9.01	Toxaphene-1	39848	1.0617121
9.78	Toxaphene-2	47516	1.0620929
9.92	Toxaphene-3	104516	1.0558136
10.28	Toxaphene-4	68418	1.0529347
10.94	Toxaphene-5	69468	1.0510071
12.57	Decachlorobiphenyl	38841	0.0214618

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:39
Operator	: sagers	Sample Name	: TOXAPH312
Sample Number	: 008	Study	: 28308
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 21:02:40	Dilution Factor	: 1.00
		Cycle	: 7

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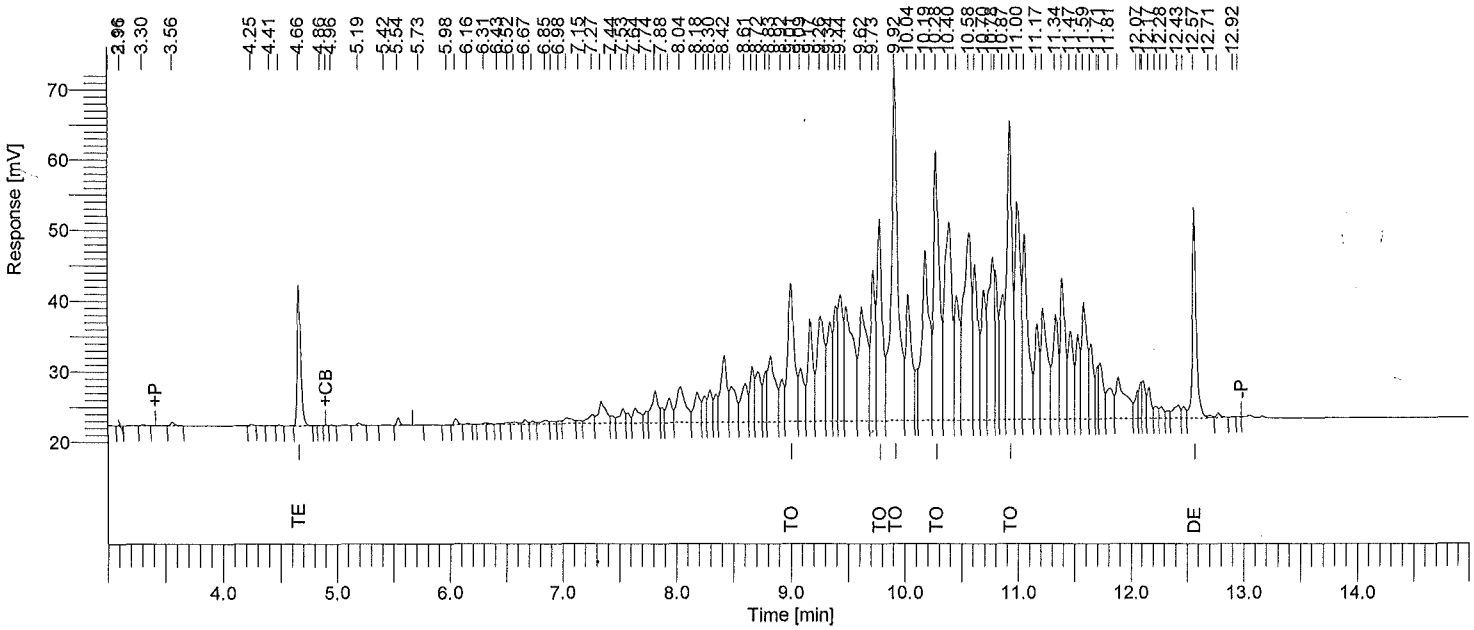

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.66	Tetrachloro-m-xylene	42480	0.0204606	0.0204606	0.0200000	102.3
9.01	Toxaphene-1	78475	2.0908774	2.0908774	2.0000000	104.5
9.78	Toxaphene-2	92936	2.0773279	2.0773279	2.0000000	103.9
9.92	Toxaphene-3	205101	2.0719265	2.0719265	2.0000000	103.6
10.28	Toxaphene-4	134973	2.0772188	2.0772188	2.0000000	103.9
10.94	Toxaphene-5	136397	2.0636059	2.0636059	2.0000000	103.2
12.57	Decachlorobiphenyl	73481	0.0406025	0.0406025	0.0400000	101.5

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:41
Operator	: sagers	Sample Name	: TOXAPH412
Sample Number	: 009	Study	: 28309
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 21:23:33	Dilution Factor	: 1.00
		Cycle	: 8

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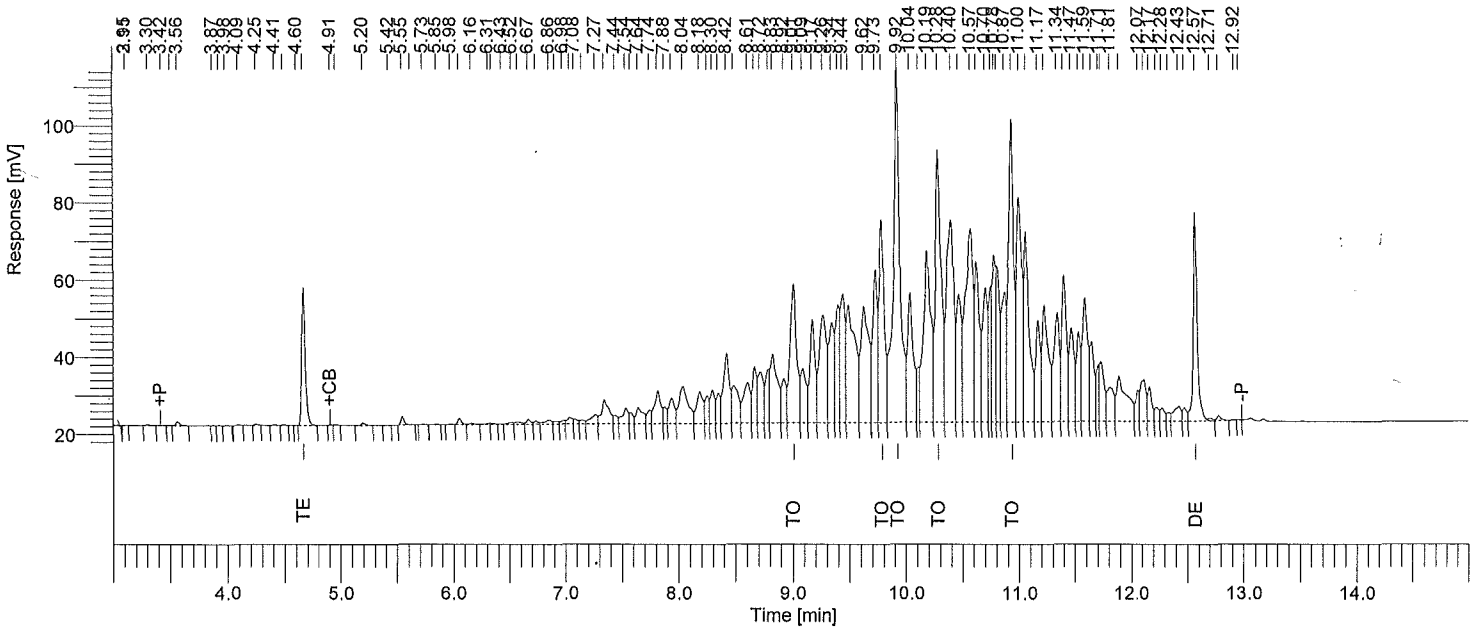

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	76863	0.0370218
9.01	Toxaphene-1	144709	3.8555860
9.78	Toxaphene-2	171987	3.8442779
9.92	Toxaphene-3	381478	3.8536749
10.28	Toxaphene-4	251885	3.8764757
10.94	Toxaphene-5	254656	3.8528064
12.57	Decachlorobiphenyl	133554	0.0737962

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:43
Operator	: sagers	Sample Name	: TOXAPH512
Sample Number	: 010	Study	: 28310
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 21:44:25	Dilution Factor	: 1.00
		Cycle	: 9

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_010.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_std_b.rpt
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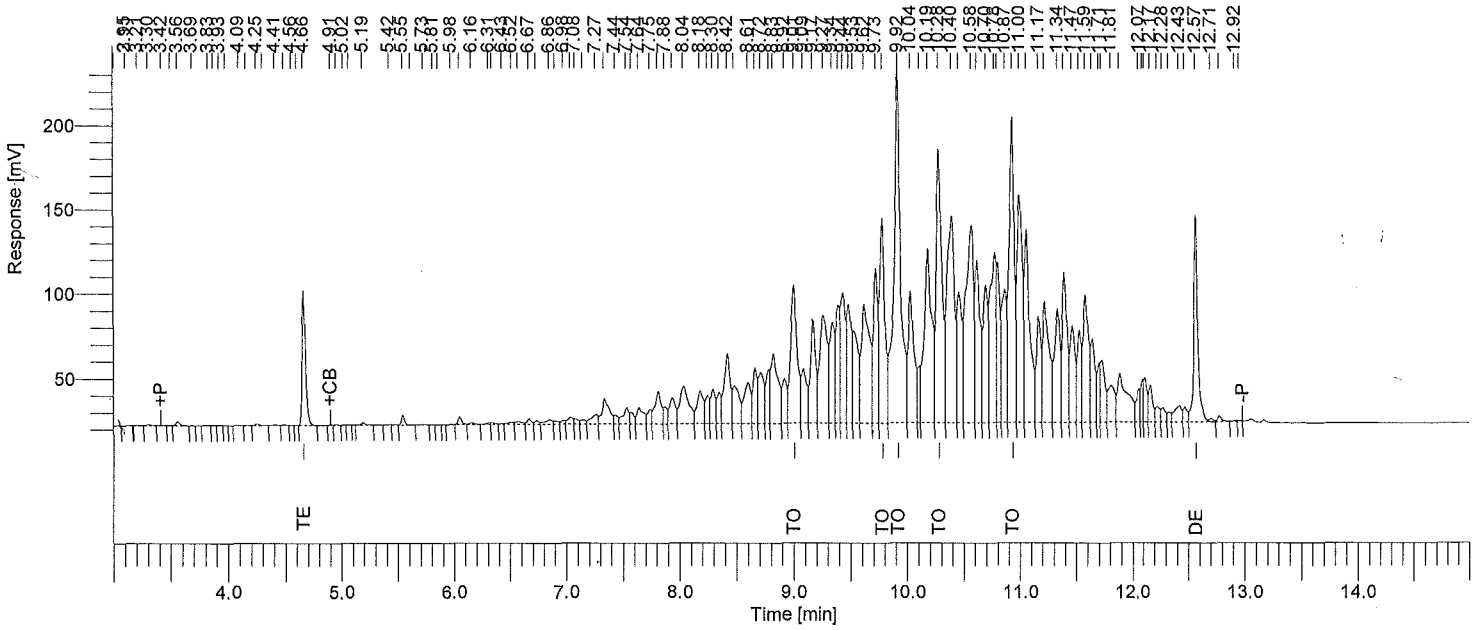

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	169525	0.0816527
9.01	Toxaphene-1	328433	8.7507116
9.78	Toxaphene-2	394758	8.8236770
9.92	Toxaphene-3	877556	8.8650330
10.28	Toxaphene-4	582952	8.9715425
10.94	Toxaphene-5	592342	8.9618166
12.57	Decachlorobiphenyl	303939	0.1679434

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:47
Operator	: sagers	Sample Name	: INDC112
Sample Number	: 011	Study	: 28311
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 22:05:13	Dilution Factor	: 1.00
		Cycle	: 10

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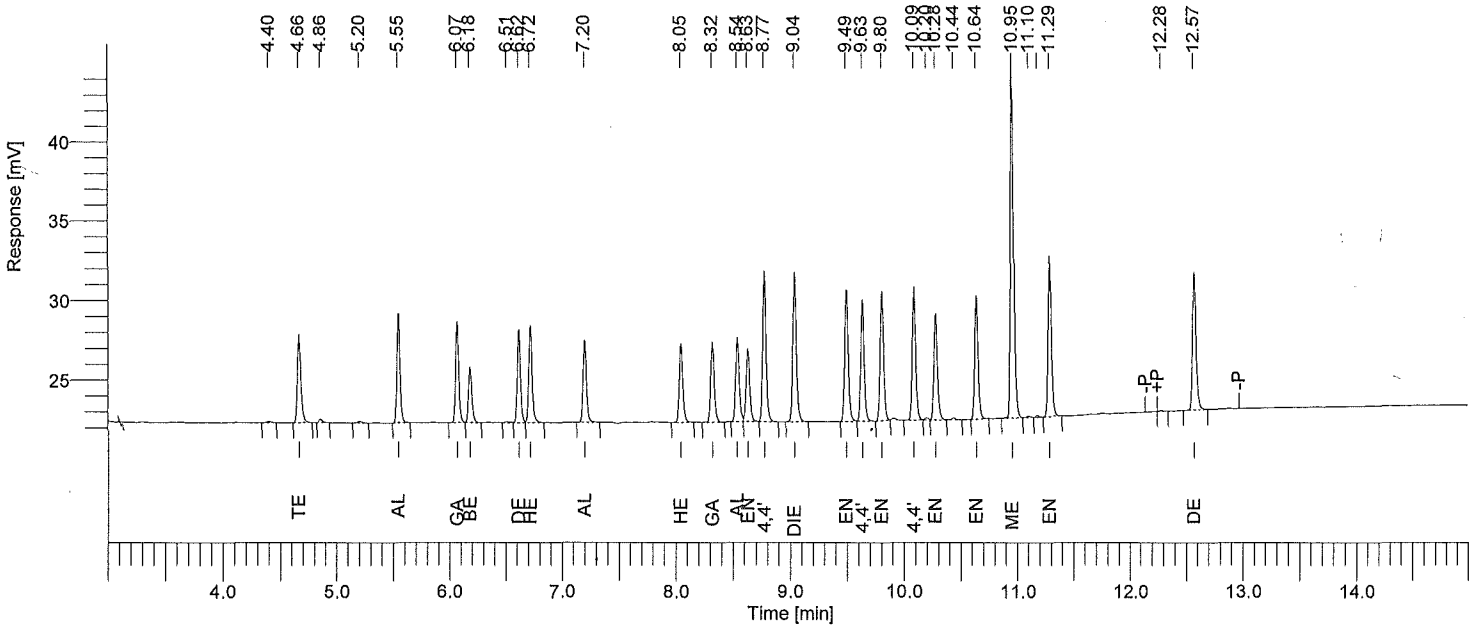

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	11771	0.0059129
5.55	alpha-BHC	12917	0.0051704
6.07	gamma-BHC	12195	0.0053376
6.18	beta-BHC	7211	0.0059223
6.62	delta-BHC	11244	0.0051535
6.72	Heptachlor	12740	0.0054896
7.20	Aldrin	10649	0.0052036
8.05	Heptachlor epoxide	10609	0.0054160
8.32	gamma-Chlordane	11007	0.0054149
8.54	alpha-Chlordane	11447	0.0055929
8.63	Endosulfan I	9928	0.0054110
8.77	4,4'-DDE	19508	0.0107512
9.04	Dieldrin	20317	0.0107589
9.49	Endrin	17885	0.0109044
9.63	4,4'-DDD	15929	0.0107702
9.80	Endosulfan II	17610	0.0109588
10.09	4,4'-DDT	17274	0.0108461
10.28	Endrin aldehyde	14590	0.0114019
10.64	Endosulfan sulfate	15881	0.0109805
10.95	Methoxychlor	44306	0.0575003
11.29	Endrin ketone	20487	0.0113757
12.57	Decachlorobiphenyl	19217	0.0123394

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:49
Operator	: sagers	Sample Name	: INDC212
Sample Number	: 012	Study	: 28312
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 22:26:17	Dilution Factor	: 1.00
		Cycle	: 11

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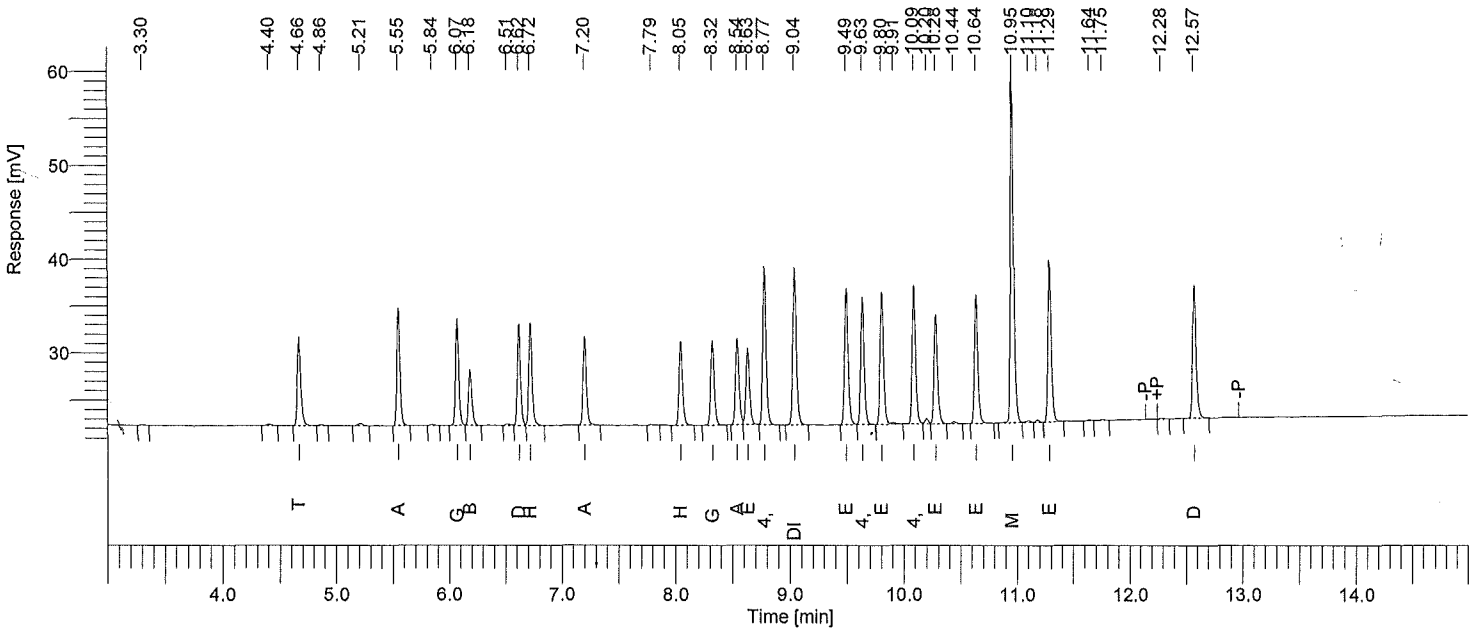

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	20054	0.0100735
5.55	alpha-BHC	23714	0.0094919
6.07	gamma-BHC	21953	0.0096085
6.18	beta-BHC	12241	0.0100527
6.62	delta-BHC	20635	0.0094578
6.72	Heptachlor	22406	0.0096550
7.20	Aldrin	19401	0.0094799
8.05	Heptachlor epoxide	18890	0.0096433
8.32	gamma-Chlordane	19566	0.0096254
8.54	alpha-Chlordane	19979	0.0097615
8.63	Endosulfan I	17594	0.0095888
8.77	4,4'-DDE	34863	0.0192133
9.04	Dieldrin	36275	0.0192093
9.49	Endrin	31354	0.0191167
9.63	4,4'-DDD	28486	0.0192603
9.80	Endosulfan II	30870	0.0192098
10.09	4,4'-DDT	30629	0.0192314
10.28	Endrin aldehyde	25299	0.0197710
10.64	Endosulfan sulfate	28063	0.0194029
10.95	Methoxychlor	74783	0.0970527
11.29	Endrin ketone	35141	0.0195130
12.57	Decachlorobiphenyl	31347	0.0201286

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:51
Operator	: sagers	Sample Name	: INDC312
Sample Number	: 013	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 22:47:05	Dilution Factor	: 1.00
		Cycle	: 12

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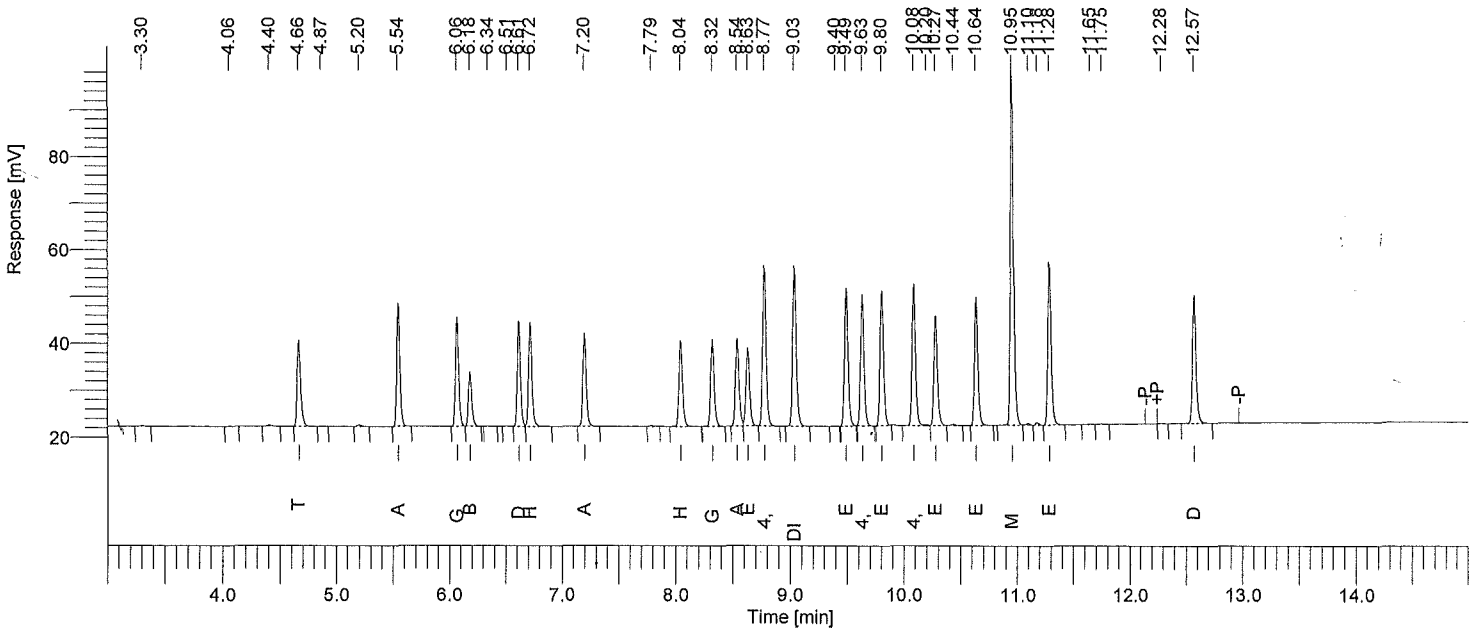

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.66	Tetrachloro-m-xylene	39273	0.0197279	0.0197279	0.0200000	98.6
5.54	alpha-BHC	50478	0.0202045	0.0202045	0.0200000	101.0
6.06	gamma-BHC	45854	0.0200699	0.0200699	0.0200000	100.3
6.18	beta-BHC	24037	0.0197401	0.0197401	0.0200000	98.7
6.61	delta-BHC	44100	0.0202122	0.0202122	0.0200000	101.1
6.72	Heptachlor	46348	0.0199715	0.0199715	0.0200000	99.9
7.20	Aldrin	41033	0.0200503	0.0200503	0.0200000	100.3
8.04	Heptachlor epoxide	39210	0.0200161	0.0200161	0.0200000	100.1
8.32	gamma-Chlordane	40303	0.0198266	0.0198266	0.0200000	99.1
8.54	alpha-Chlordane	40739	0.0199047	0.0199047	0.0200000	99.5
8.63	Endosulfan I	36502	0.0198941	0.0198941	0.0200000	99.5
8.77	4,4'-DDE	72580	0.0399997	0.0399997	0.0400000	100.0
9.03	Dieldrin	75459	0.0399590	0.0399590	0.0400000	99.9
9.49	Endrin	64232	0.0391629	0.0391629	0.0400000	97.9
9.63	4,4'-DDD	58981	0.0398790	0.0398790	0.0400000	99.7
9.80	Endosulfan II	63685	0.0396303	0.0396303	0.0400000	99.1
10.08	4,4'-DDT	63272	0.0397265	0.0397265	0.0400000	99.3
10.27	Endrin aldehyde	50939	0.0398086	0.0398086	0.0400000	99.5
10.64	Endosulfan sulfate	57120	0.0394941	0.0394941	0.0400000	98.7
10.95	Methoxychlor	149330	0.1938005	0.1938005	0.2000000	96.9
11.28	Endrin ketone	70846	0.0393387	0.0393387	0.0400000	98.3
12.57	Decachlorobiphenyl	60539	0.0388731	0.0388731	0.0400000	97.2

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:53
Operator	: sagers	Sample Name	: INDC412
Sample Number	: 014	Study	: 28314
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 23:07:51	Dilution Factor	: 1.00
		Cycle	: 13

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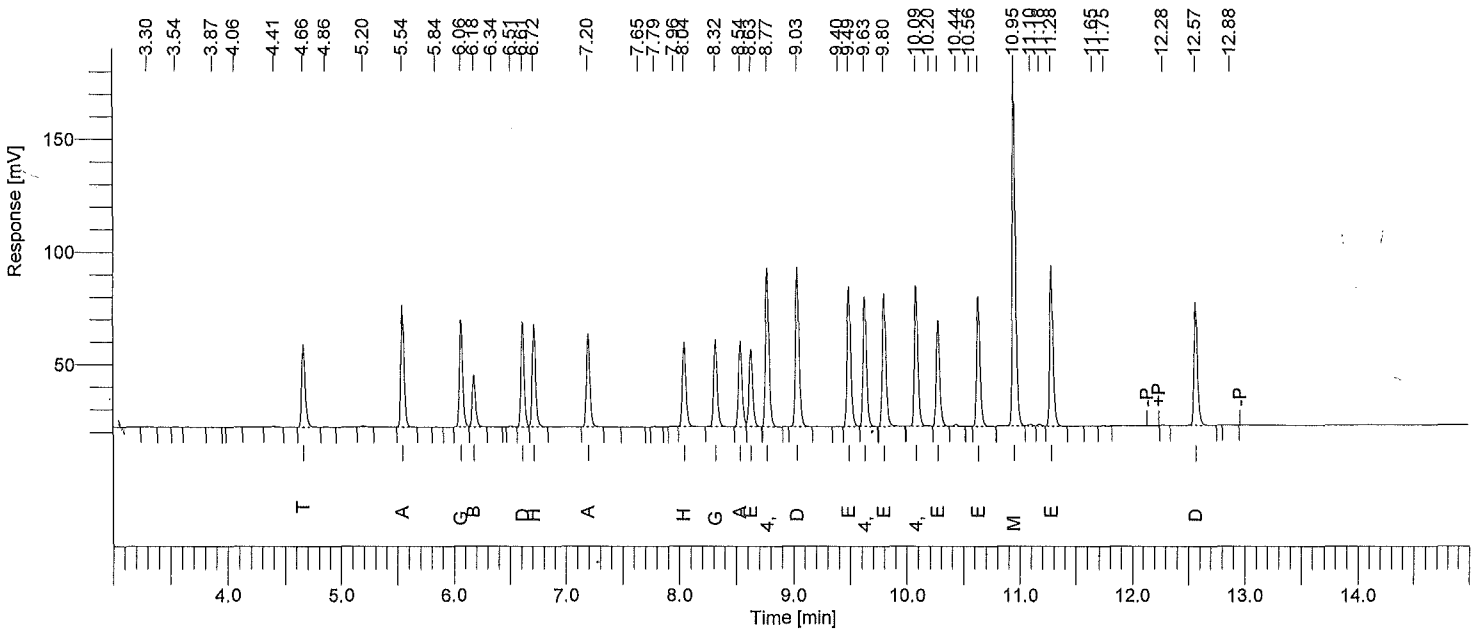

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	78623	0.0394942
5.54	alpha-BHC	106191	0.0425047
6.06	gamma-BHC	95794	0.0419285
6.18	beta-BHC	48407	0.0397532
6.61	delta-BHC	92914	0.0425850
6.72	Heptachlor	95654	0.0412178
7.20	Aldrin	86830	0.0424281
8.04	Heptachlor epoxide	81115	0.0414082
8.32	gamma-Chlordane	84914	0.0417724
8.54	alpha-Chlordane	83299	0.0406991
8.63	Endosulfan I	76369	0.0416222
8.77	4,4'-DDE	150923	0.0831749
9.03	Dieldrin	157340	0.0833187
9.49	Endrin	137714	0.0839660
9.63	4,4'-DDD	122881	0.0830847
9.80	Endosulfan II	133048	0.0827942
10.09	4,4'-DDT	131549	0.0825963
10.27	Endrin aldehyde	102119	0.0798051
10.64	Endosulfan sulfate	119376	0.0825384
10.95	Methoxychlor	309243	0.4013349
11.28	Endrin ketone	145668	0.0808854
12.57	Decachlorobiphenyl	119709	0.0768667

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:55
Operator	: sagers	Sample Name	: INDC512
Sample Number	: 015	Study	: 28315
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 23:28:41	Dilution Factor	: 1.00
		Cycle	: 14

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_015.rst
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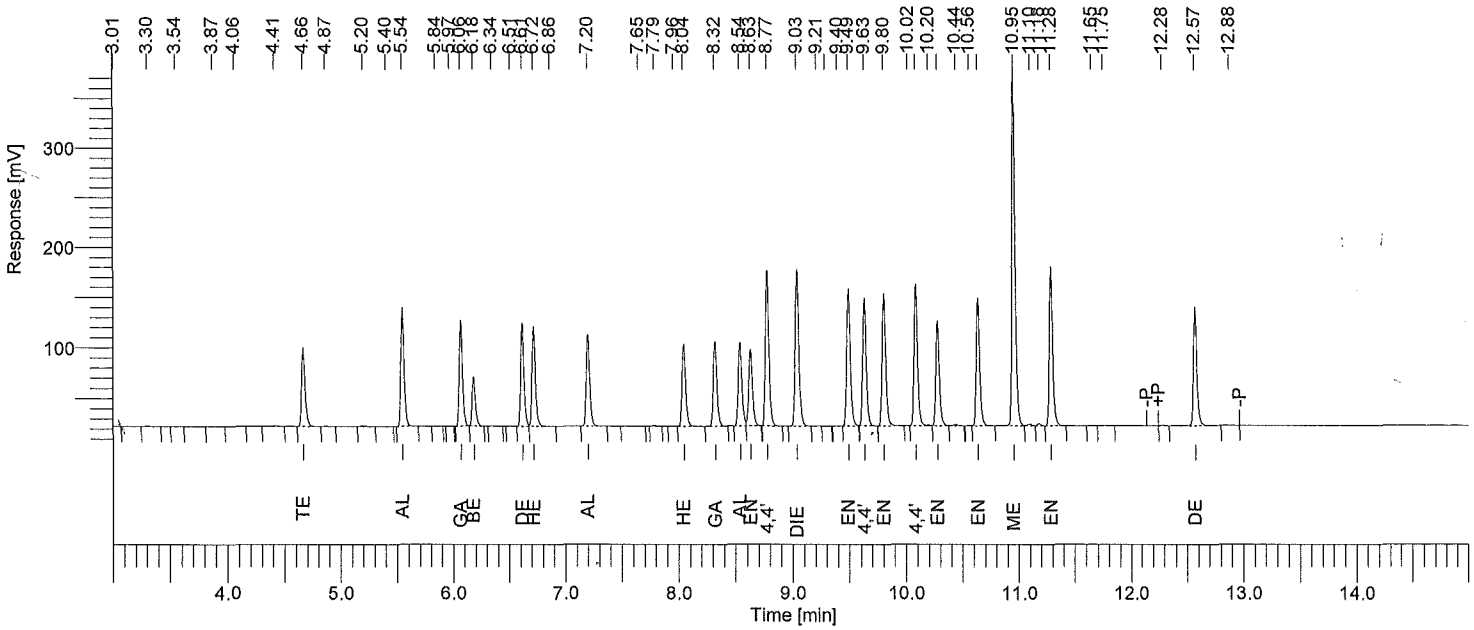
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_std_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	166492	0.0836328
5.54	alpha-BHC	235815	0.0943887
6.06	gamma-BHC	210174	0.0919922
6.18	beta-BHC	100997	0.0829427
6.61	delta-BHC	206901	0.0948282
6.72	Heptachlor	210619	0.0907562
7.20	Aldrin	194022	0.0948061
8.04	Heptachlor epoxide	179525	0.0916454
8.32	gamma-Chlordane	186776	0.0918825
8.54	alpha-Chlordane	182682	0.0892566
8.63	Endosulfan I	169474	0.0923663
8.77	4,4'-DDE	335518	0.1849064
9.03	Dieldrin	348673	0.1846383
9.49	Endrin	303447	0.1850151
9.63	4,4'-DDD	273445	0.1848868
9.80	Endosulfan II	295024	0.1835893
10.08	4,4'-DDT	295666	0.1856404
10.27	Endrin aldehyde	224821	0.1756955
10.63	Endosulfan sulfate	264016	0.1825450
10.95	Methoxychlor	698975	0.9071275
11.28	Endrin ketone	321373	0.1784493
12.57	Decachlorobiphenyl	257578	0.1653941

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:59
Operator	: sagers	Sample Name	: PEM22
Sample Number	: 017	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 00:10:17	Dilution Factor	: 1.00
		Cycle	: 16

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_017.raw <Modified>
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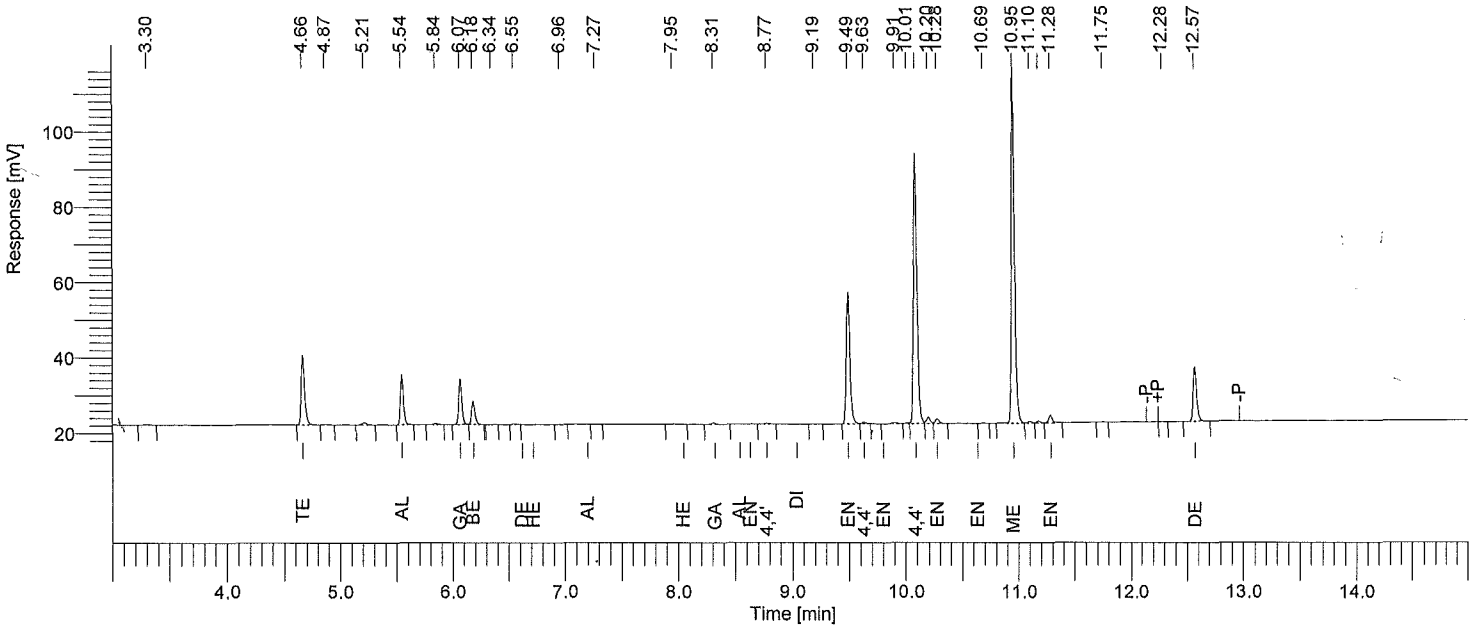
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_017.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_pem_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.66	Tetrachloro-m-xylene	39195	0.0196885	0.0196885	0.02000	98.4
5.54	alpha-BHC	24888	0.0099617	0.0099617	0.01000	99.6
6.07	gamma-BHC	23465	0.0102705	0.0102705	0.01000	102.7
6.18	beta-BHC	12928	0.0106172	0.0106172	0.01000	106.2
6.61	delta-BHC	0	0.0000000	0.0000000	----------	------
6.72	Heptachlor	0	0.0000000	0.0000000	----------	------
7.20	Aldrin	0	0.0000000	0.0000000	----------	------
8.04	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.31	gamma-Chlordane	1062	0.0005225	0.0005225	0.00000	------
8.54	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.63	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.77	4,4'-DDE	744	0.0004101	0.0004101	0.10000	0.4
9.03	Dieldrin	0	0.0000000	0.0000000	----------	------
9.49	Endrin	77483	0.0472424	0.0472424	0.05000	94.5
9.63	4,4'-DDD	1147	0.0007759	0.0007759	0.10000	0.8
9.80	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.08	4,4'-DDT	150813	0.0946915	0.0946915	0.10000	94.7
10.28	Endrin aldehyde	2854	0.0022306	0.0022306	0.05000	4.5
10.69	Endosulfan sulfate	212	0.0001469	0.0001469	0.00000	------
10.95	Methoxychlor	186346	0.2418394	0.2418394	0.25000	96.7
11.28	Endrin ketone	4569	0.0025369	0.0025369	0.05000	5.1
12.57	Decachlorobiphenyl	32105	0.0206151	0.0206151	0.02000	103.1
			0.4615491			806.6

06/20/2015 13:09:59 Result: \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.77	4,4'-DDE	744	0.0004101	0.0004101	0.10000	0.4
9.63	4,4'-DDD	1147	0.0007759	0.0007759	0.10000	0.8
			0.0011860			1.2

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.28	Endrin aldehyde	2854	0.0022306	0.0022306	0.05000	4.5
11.28	Endrin ketone	4569	0.0025369	0.0025369	0.05000	5.1
			0.0047675			9.5

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/21/2015 10:30:11
Reprocess Number	: nasltw7057: 2218560		
Operator	: sagers		
Sample Number	: 031	Sample Name	: INDC332
AutoSampler	: HP7673A	Study	: 28313
Instrument Name	: GCE21	Rack/Vial	: 0/31
Instrument Serial #	: None	Channel	: B
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.90 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 05:01:35	Dilution Factor	: 1.00
		Cycle	: 1

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_031.raw <Modified>
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_031.rst
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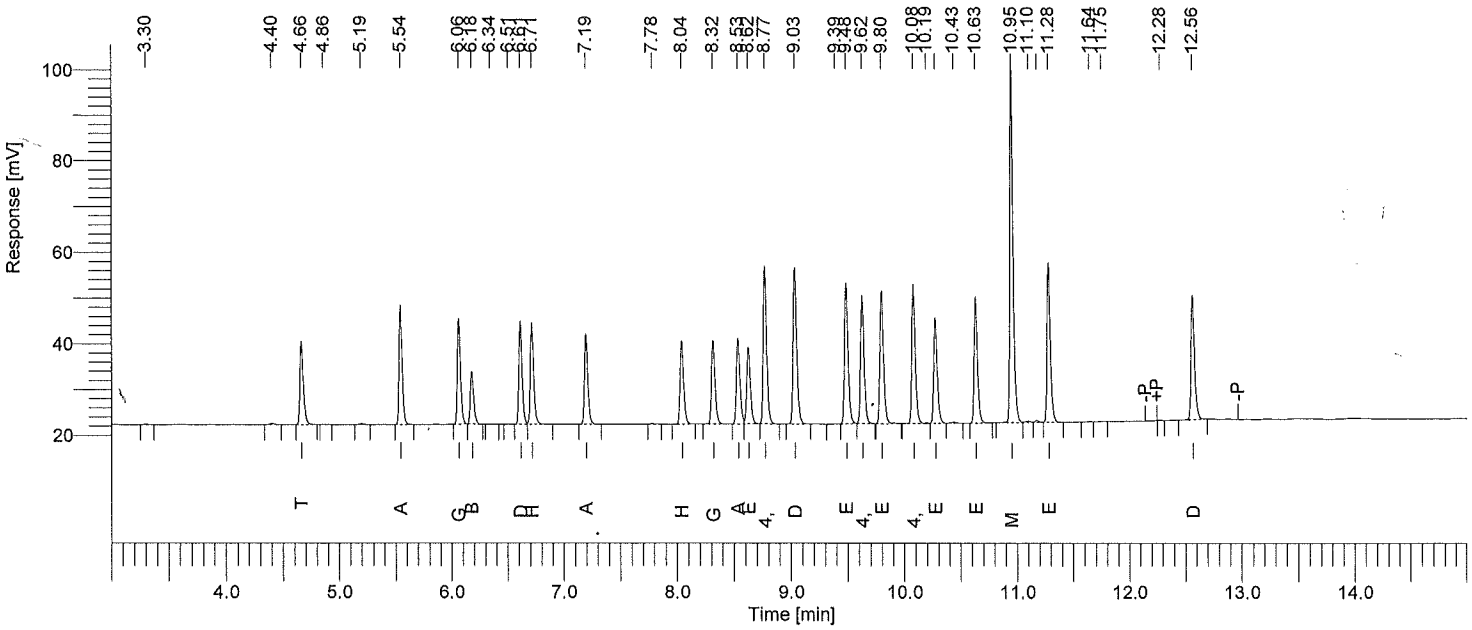

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.66	Tetrachloro-m-xylene	38749	0.0194646	0.0194646	0.0200000	97.3
5.54	alpha-BHC	50213	0.0200984	0.0200984	0.0200000	100.5
6.06	gamma-BHC	45538	0.0199320	0.0199320	0.0200000	99.7
6.18	beta-BHC	23795	0.0195412	0.0195412	0.0200000	97.7
6.61	delta-BHC	44002	0.0201672	0.0201672	0.0200000	100.8
6.71	Heptachlor	46490	0.0200325	0.0200325	0.0200000	100.2
7.19	Aldrin	40770	0.0199215	0.0199215	0.0200000	99.6
8.04	Heptachlor epoxide	39052	0.0199358	0.0199358	0.0200000	99.7
8.32	gamma-Chlordane	40007	0.0196808	0.0196808	0.0200000	98.4
8.53	alpha-Chlordane	40536	0.0198057	0.0198057	0.0200000	99.0
8.62	Endosulfan I	36566	0.0199290	0.0199290	0.0200000	99.6
8.77	4,4'-DDE	72543	0.0399791	0.0399791	0.0400000	99.9
9.03	Dieldrin	75479	0.0399698	0.0399698	0.0400000	99.9
9.48	Endrin	67510	0.0411617	0.0411617	0.0400000	102.9
9.62	4,4'-DDD	59738	0.0403910	0.0403910	0.0400000	101.0
9.80	Endosulfan II	65061	0.0404866	0.0404866	0.0400000	101.2
10.08	4,4'-DDT	63706	0.0399996	0.0399996	0.0400000	100.0
10.27	Endrin aldehyde	50043	0.0391082	0.0391082	0.0400000	97.8
10.63	Endosulfan sulfate	56918	0.0393540	0.0393540	0.0400000	98.4
10.95	Methoxychlor	155330	0.2015873	0.2015873	0.2000000	100.8
11.28	Endrin ketone	71114	0.0394874	0.0394874	0.0400000	98.7
12.56	Decachlorobiphenyl	59785	0.0383889	0.0383889	0.0400000	96.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450508

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150619A020,21150619B020

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.076	J
319-85-7	beta-BHC	0.22	JP
319-86-8	delta-BHC	0.11	JP
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	0.018	JP
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	0.10	JP
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:00
Operator	: sagers	Sample Name	: 450508
Sample Number	: 020	Study	: PBLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 00:52:04	Dilution Factor	: 1.00
		Cycle	: 19

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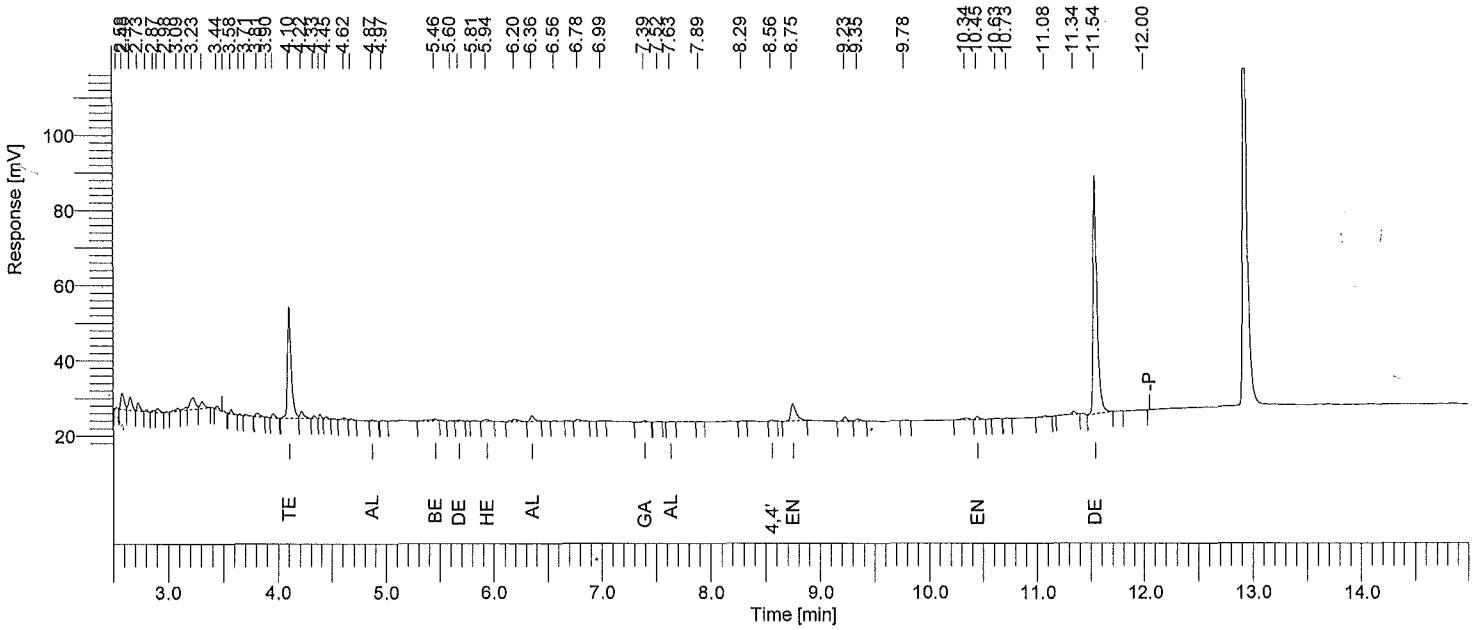

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.10	Tetrachloro-m-xylene	70345	0.03031899	1	10	0.03000	1.000	1.6667	10.10633	20.00	50.5
4.87	alpha-BHC	686	2.2710e-04	1	10	0.03000	1.000	1.6667	0.07570	0.00	------
5.29	gamma-BHC	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
5.46	beta-BHC	2523	1.7109e-03	1	10	0.03000	1.000	1.6667	0.57029	0.00	------
5.67	delta-BHC	882	3.2464e-04	1	10	0.03000	1.000	1.6667	0.10821	0.00	------
5.94	Heptachlor	1505	5.0888e-04	1	10	0.03000	1.000	1.6667	0.16963	0.00	------
6.36	Aldrin	3755	1.4417e-03	1	10	0.03000	1.000	1.6667	0.48057	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
7.39	gamma-Chlordane	1298	5.0969e-04	1	10	0.03000	1.000	1.6667	0.16990	0.00	------
7.63	alpha-Chlordane	222	8.5297e-05	1	10	0.03000	1.000	1.6667	0.02843	0.00	------
7.72	4,4'-DDE	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
8.15	Dieldrin	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
8.49	Endrin	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
8.56	4,4'-DDD	664	3.5773e-04	1	10	0.03000	1.000	3.3333	0.11924	0.00	------
8.75	Endosulfan II	15481	7.6753e-03	1	10	0.03000	1.000	3.3333	2.55843	0.00	------
8.98	4,4'-DDT	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
9.42	Endrin aldehyde	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
9.68	Methoxychlor	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
10.45	Endrin ketone	1768	7.5161e-04	1	10	0.03000	1.000	3.3333	0.25054	0.00	------
11.54	Decachlorobiphenyl	158339	0.07973372	1	10	0.03000	1.000	3.3333	26.57791	40.00	66.4

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:10:05
Operator	: sagers	Sample Name	: 450508
Sample Number	: 020	Study	: PBLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 01:12:48	Dilution Factor	: 1.00
		Cycle	: 20

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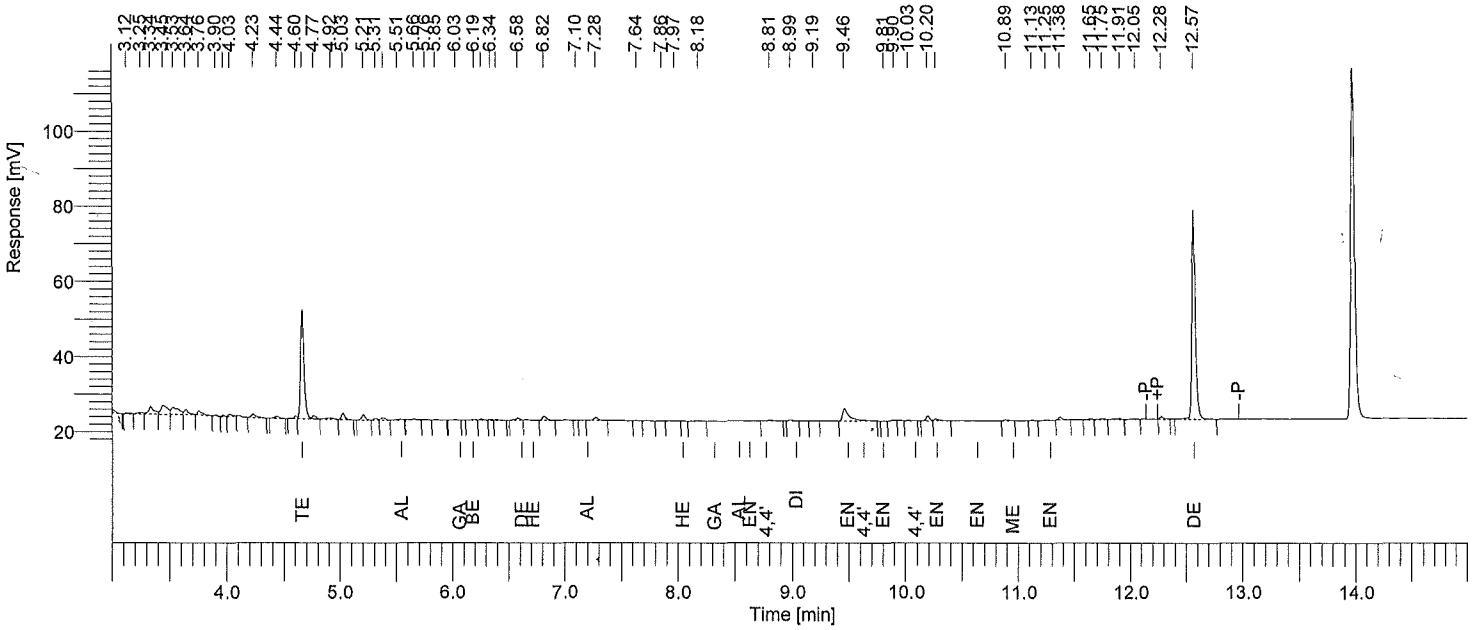

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.66	Tetrachloro-m-xylene	60922	0.03060246	1	10	0.03000	1.000	1.6667	10.20082	20.00	51.0
5.51	alpha-BHC	668	2.6746e-04	1	10	0.03000	1.000	1.6667	0.08915	0.00	------
6.03	gamma-BHC	279	1.2222e-04	1	10	0.03000	1.000	1.6667	0.04074	0.00	------
6.19	beta-BHC	792	6.5050e-04	1	10	0.03000	1.000	1.6667	0.21683	0.00	------
6.58	delta-BHC	1629	7.4647e-04	1	10	0.03000	1.000	1.6667	0.24882	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
7.20	Aldrin	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.32	gamma-Chlordane	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.81	4,4'-DDE	895	4.9299e-04	1	10	0.03000	1.000	3.3333	0.16433	0.00	------
8.99	Dieldrin	716	3.7919e-04	1	10	0.03000	1.000	3.3333	0.12640	0.00	------
9.46	Endrin	14036	8.5578e-03	1	10	0.03000	1.000	3.3333	2.85261	0.00	------
9.63	4,4'-DDD	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
9.81	Endosulfan II	86	5.3554e-05	1	10	0.03000	1.000	3.3333	0.01785	0.00	------
10.03	4,4'-DDT	301	1.8910e-04	1	10	0.03000	1.000	3.3333	0.06303	0.00	------
10.27	Endrin aldehyde	1567	1.2250e-03	1	10	0.03000	1.000	3.3333	0.40833	0.00	------
10.64	Endosulfan sulfate	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
10.89	Methoxychlor	777	1.0084e-03	1	10	0.03000	1.000	16.6667	0.33613	0.00	------
11.25	Endrin ketone	546	3.0295e-04	1	10	0.03000	1.000	3.3333	0.10098	0.00	------
12.57	Decachlorobiphenyl	122740	0.07881329	1	10	0.03000	1.000	3.3333	26.27110	40.00	65.7

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK21(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK21

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150619A016

% Moisture: 0.0 Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) _____ pH: _____ Sulfur Cleanup: (Y/N) _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:08:50
Operator	: sagers	Sample Name	: PIBLK21
Sample Number	: 016	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 23:28:41	Dilution Factor	: 1.00
		Cycle	: 14

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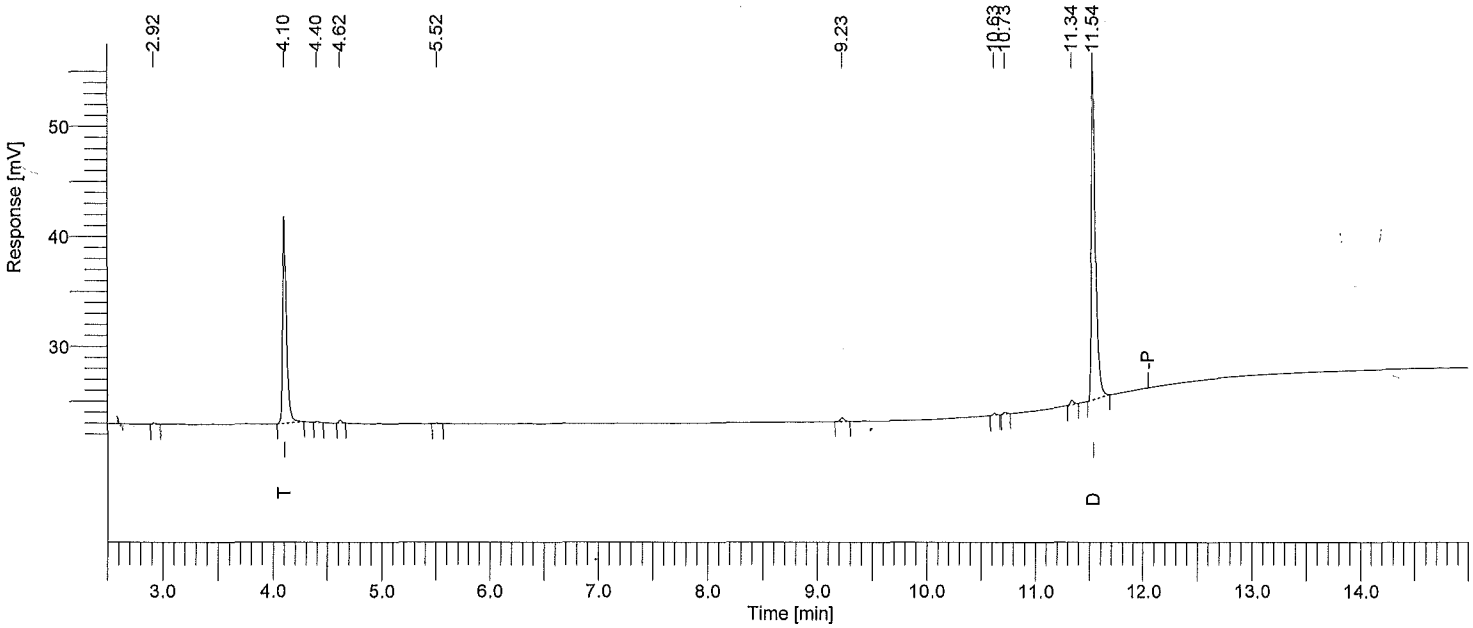

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.10	Tetrachloro-m-xylene	45338	0.019541	1	10	1.000	1.000	0.050000	0.195410	0.2000	97.7
4.85	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.29	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.41	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.65	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.95	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.37	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.24	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.41	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.60	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.72	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.80	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.15	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.49	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.58	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.81	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.98	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.42	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.68	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.05	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.42	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.54	Decachlorobiphenyl	77091	0.038820	1	10	1.000	1.000	0.100000	0.388202	0.4000	97.1

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK22(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK22

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150619B016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.0019	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:57
Operator	: sagers	Sample Name	: PIBLK22
Sample Number	: 016	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 23:49:29	Cycle	: 15

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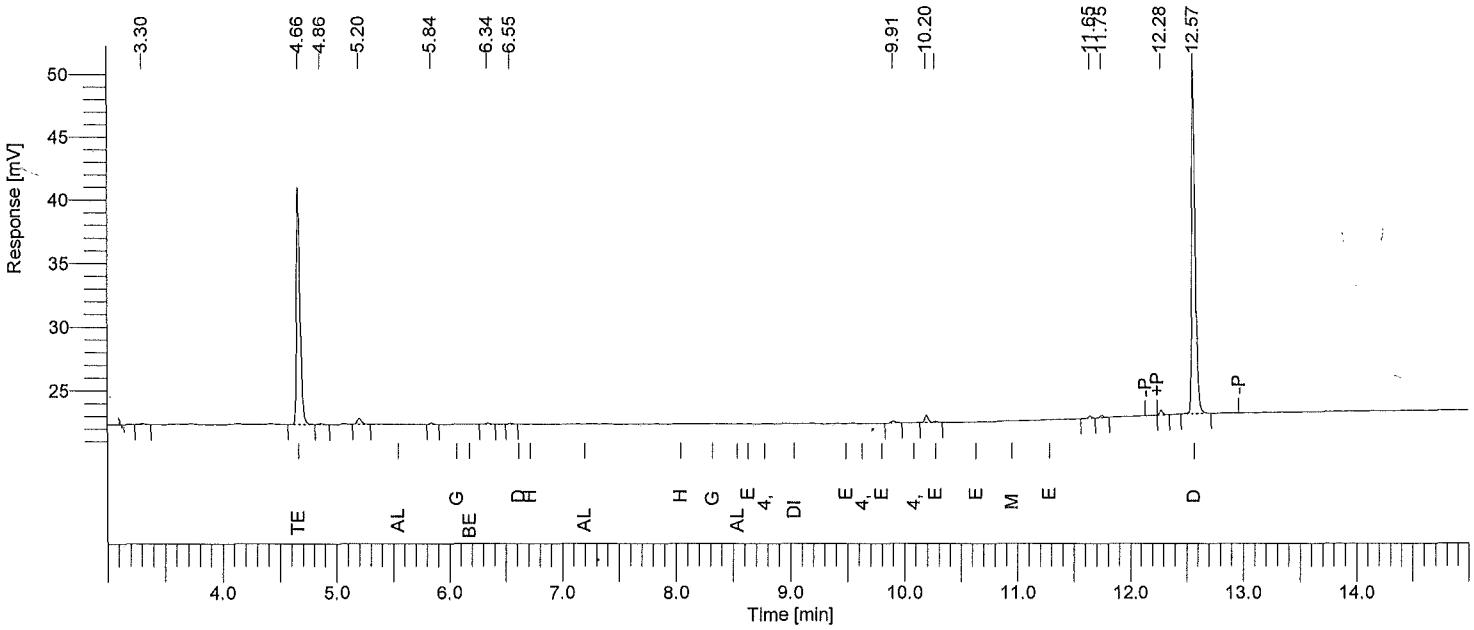

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.66	Tetrachloro-m-xylene	39929	0.020057	1	10	1.000	1.000	0.050000	0.200575	0.2000	100.3
5.54	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.06	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.18	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.61	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.72	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.20	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.04	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.32	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.54	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.63	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.77	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.03	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.49	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.63	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.80	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.08	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.27	Endrin aldehyde	240	1.87e-04	1	10	1.000	1.000	0.100000	0.001874	0.0000	-----
10.64	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.95	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.28	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.57	Decachlorobiphenyl	60251	0.038688	1	10	1.000	1.000	0.100000	0.386882	0.4000	96.7

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK31(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK31

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150619A030

% Moisture: 0.0 Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) _____ pH: _____ Sulfur Cleanup: (Y/N) _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:20
Operator	: sagers	Sample Name	: PIBLK31
Sample Number	: 030	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/30
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 04:20:03	Dilution Factor	: 1.00
		Cycle	: 2

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Proc Method : \\AIsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619A_030.rst
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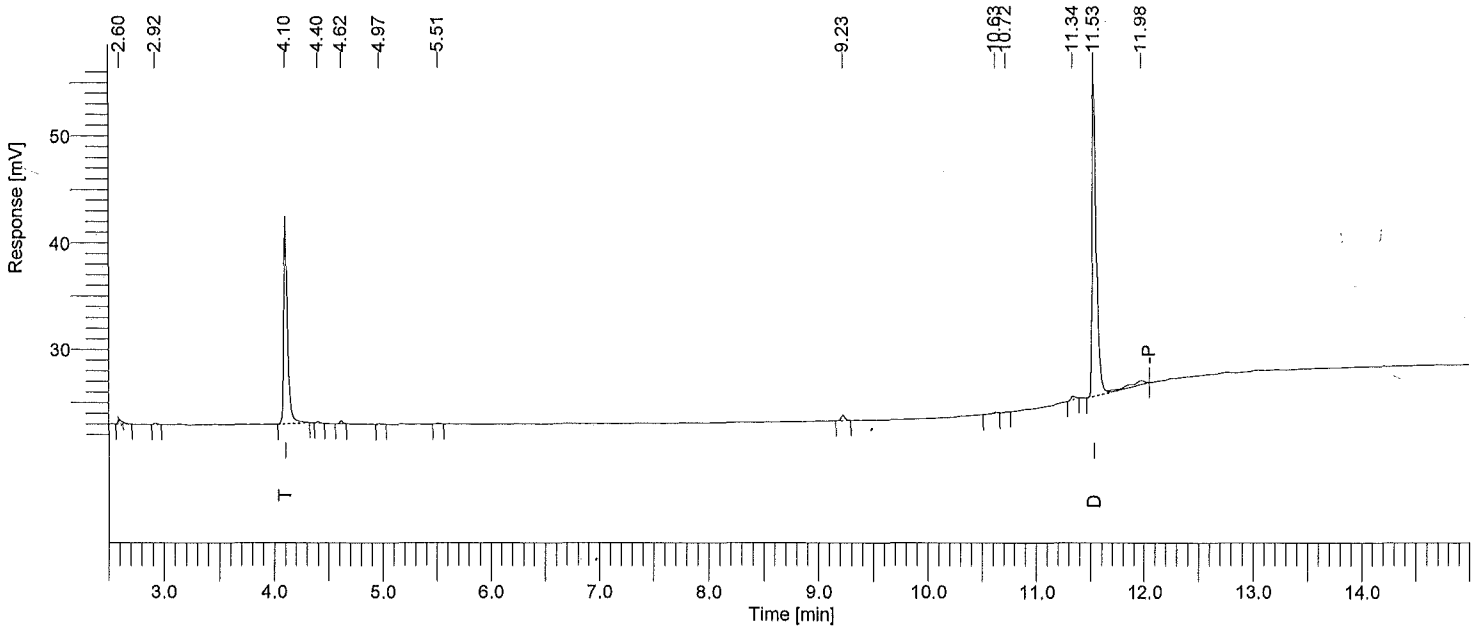

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.10	Tetrachloro-m-xylene	46413	0.020004	1	10	1.000	1.000	0.050000	0.200042	0.2000	100.0
4.85	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.29	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.41	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.65	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.95	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.37	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.24	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.41	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.60	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.72	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.80	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.15	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.49	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.58	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.81	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.98	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.42	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.68	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.05	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.42	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.53	Decachlorobiphenyl	77764	0.039159	1	10	1.000	1.000	0.100000	0.391589	0.4000	97.9

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK32(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK32

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150619B030

% Moisture: 0.0 Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) _____ pH: _____ Sulfur Cleanup: (Y/N) _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:10:26
Operator	: sagers	Sample Name	: PIBLK32
Sample Number	: 030	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/30
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/20/2015 04:40:47	Cycle	: 3

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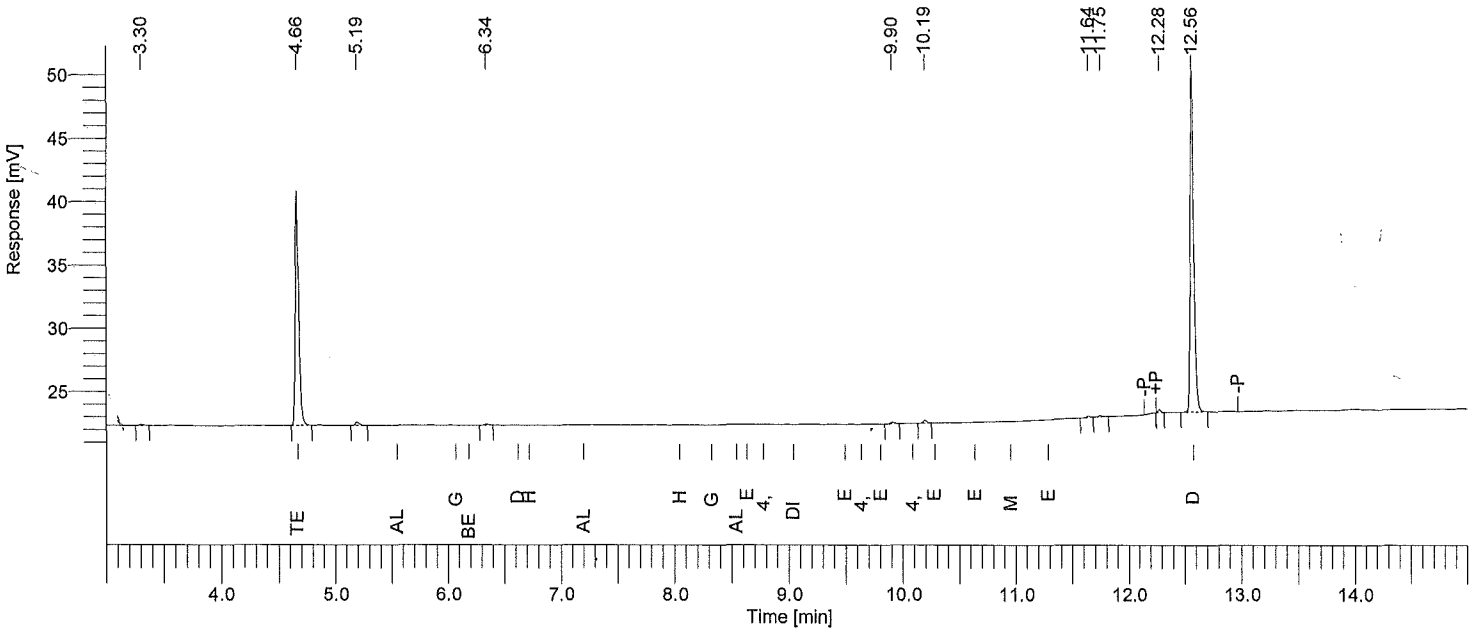

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.66	Tetrachloro-m-xylene	39097	0.019639	1	10	1.000	1.000	0.050000	0.196391	0.2000	98.2
5.54	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.06	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.18	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.61	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.72	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.20	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.04	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.32	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.54	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.63	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.77	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.03	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.49	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.63	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.80	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.08	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.27	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.64	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.95	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.28	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.56	Decachlorobiphenyl	59260	0.038051	1	10	1.000	1.000	0.100000	0.380514	0.4000	95.1

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M36MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552002

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 21150619A023

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.72	JBP
319-85-7	beta-BHC	3.5	BP
319-86-8	delta-BHC	0.98	JBP
58-89-9	gamma-BHC (Lindane)	17.	
76-44-8	Heptachlor	16.	
309-00-2	Aldrin	18.	
1024-57-3	Heptachlor epoxide	0.53	J
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	29.	
72-55-9	4,4'-DDE	0.28	JP
72-20-8	Endrin	36.	
33213-65-9	Endosulfan II	6.6	BP
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	0.55	JP
50-29-3	4,4'-DDT	35.	
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	3.7	JBP
7421-93-4	Endrin aldehyde	0.62	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.24	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:06
Operator	: sagers	Sample Name	: 1515552002
Sample Number	: 023	Study	: F9M36MS
AutoSampler	: HP7673A	Rack/Vial	: 0/23
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 01:54:20	Dilution Factor	: 1.00
		Cycle	: 2

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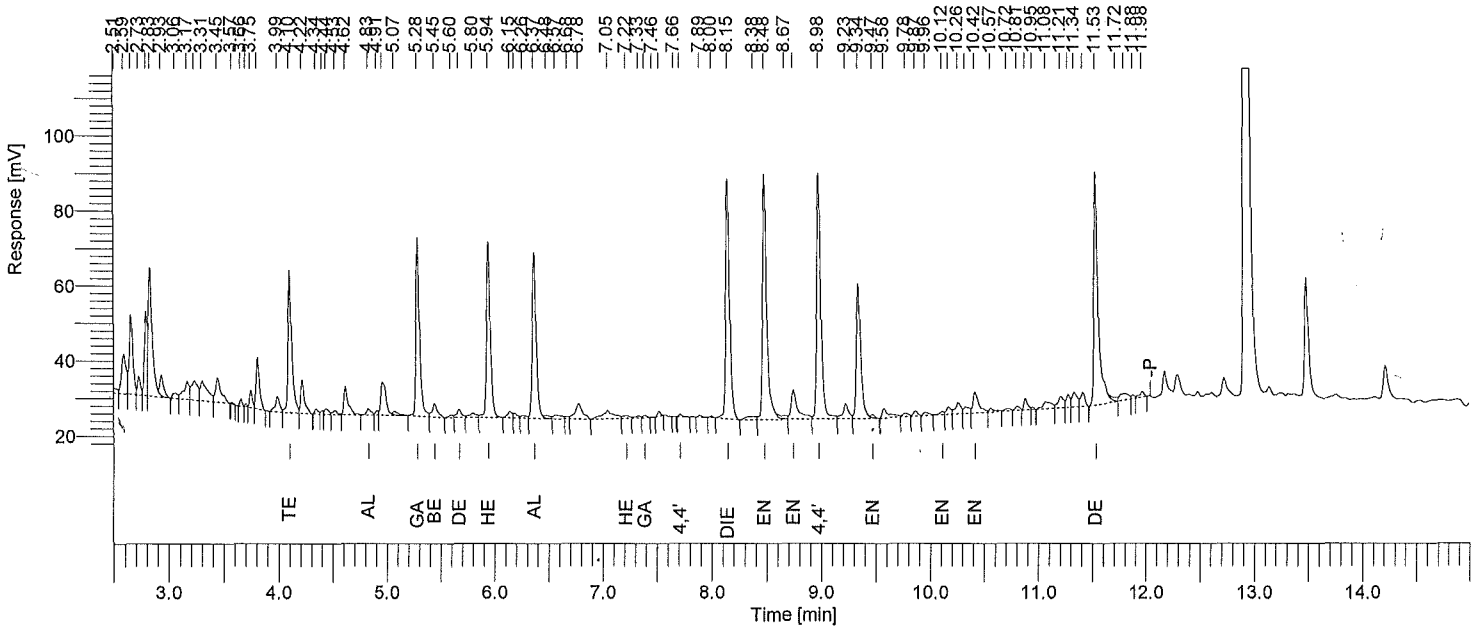

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.10	Tetrachloro-m-xylene	92581	0.03990283	1	10	0.03013	0.996	1.6595	13.24356	19.91	66.5
4.83	alpha-BHC	5210	1.7252e-03	1	10	0.03013	0.996	1.6595	0.57259	0.00	------
5.28	gamma-BHC	113649	0.04066385	1	10	0.03013	0.996	1.6595	13.49613	0.00	------
5.45	beta-BHC	12308	8.3446e-03	1	10	0.03013	0.996	1.6595	2.76954	0.00	------
5.67	delta-BHC	6366	2.3442e-03	1	10	0.03013	0.996	1.6595	0.77803	0.00	------
5.94	Heptachlor	113669	0.03842876	1	10	0.03013	0.996	1.6595	12.75432	0.00	------
6.37	Aldrin	111925	0.04297434	1	10	0.03013	0.996	1.6595	14.26297	0.00	------
7.22	Heptachlor epoxide	3167	1.2764e-03	1	10	0.03013	0.996	1.6595	0.42362	0.00	------
7.39	gamma-Chlordane	1451	5.7018e-04	1	10	0.03013	0.996	1.6595	0.18924	0.00	------
7.60	alpha-Chlordane	0	0.00000000	1	10	0.03013	0.996	---------	0.00000	--------	------
7.71	4,4'-DDE	1432	6.6482e-04	1	10	0.03013	0.996	3.3190	0.22065	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03013	0.996	---------	0.00000	--------	------
8.15	Dieldrin	160505	0.06923172	1	10	0.03013	0.996	3.3190	22.97767	0.00	------
8.48	Endrin	177491	0.08688976	1	10	0.03013	0.996	3.3190	28.83829	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03013	0.996	---------	0.00000	--------	------
8.75	Endosulfan II	31823	0.01577728	1	10	0.03013	0.996	3.3190	5.23640	0.00	------
8.98	4,4'-DDT	173112	0.08468185	1	10	0.03013	0.996	3.3190	28.10549	0.00	------
9.47	Endrin aldehyde	2524	1.4758e-03	1	10	0.03013	0.996	3.3190	0.48981	0.00	------
9.68	Methoxychlor	0	0.00000000	1	10	0.03013	0.996	---------	0.00000	--------	------
10.12	Endosulfan sulfate	2437	1.3205e-03	1	10	0.03013	0.996	3.3190	0.43827	0.00	------
10.42	Endrin ketone	20635	8.7740e-03	1	10	0.03013	0.996	3.3190	2.91205	0.00	------
11.53	Decachlorobiphenyl	171960	0.08659258	1	10	0.03013	0.996	3.3190	28.73965	39.83	72.2

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M36MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552002

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 21150619B023

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.31	JBP
319-85-7	beta-BHC	1.0	JBP
319-86-8	delta-BHC	0.14	JBP
58-89-9	gamma-BHC (Lindane)	17.	
76-44-8	Heptachlor	16.	
309-00-2	Aldrin	15.	
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	35.	
72-55-9	4,4'-DDE	1.4	JP
72-20-8	Endrin	38.	
33213-65-9	Endosulfan II	1.6	JBP
72-54-8	4,4'-DDD	2.8	J
1031-07-8	Endosulfan sulfate	0.43	JP
50-29-3	4,4'-DDT	33.	
72-43-5	Methoxychlor	0.86	J
53494-70-5	Endrin ketone	2.8	JBP
7421-93-4	Endrin aldehyde	25.	P
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.30	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:10:11
Operator	: sagers	Sample Name	: 1515552002
Sample Number	: 023	Study	: F9M36MS
AutoSampler	: HP7673A	Rack/Vial	: 0/23
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/20/2015 02:15:08	Cycle	: 2

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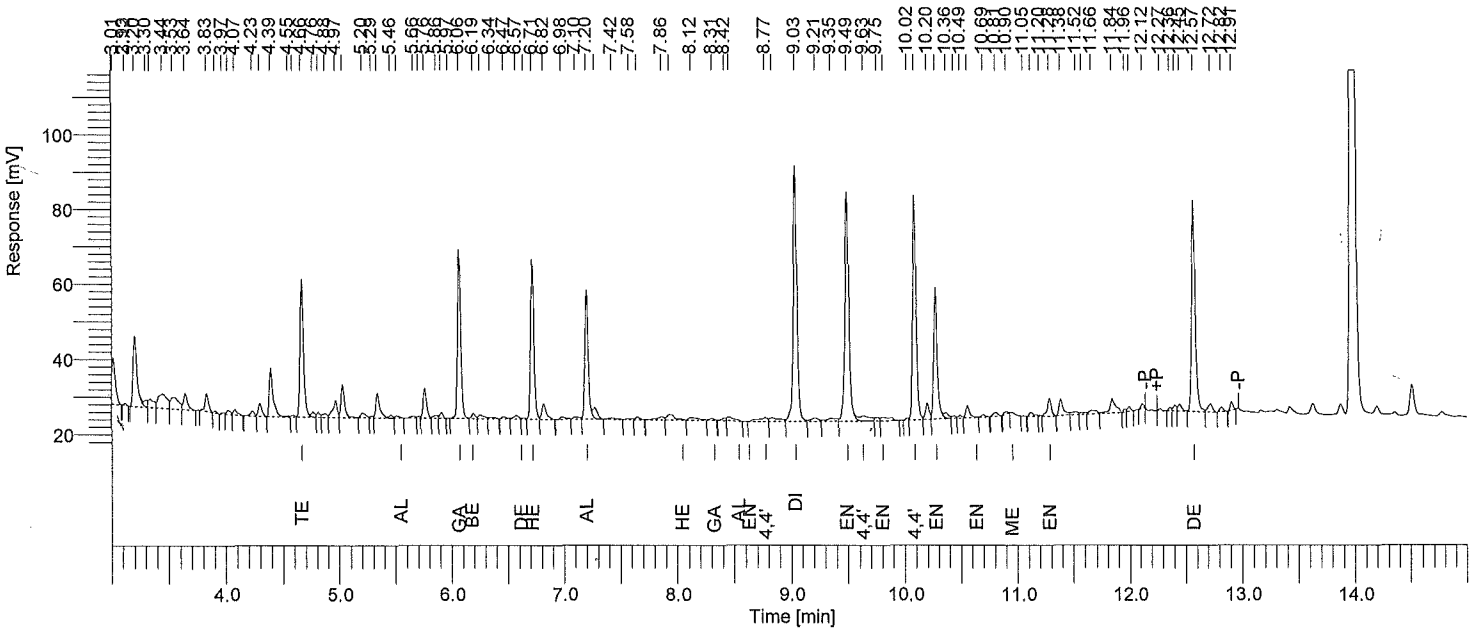

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.66	Tetrachloro-m-xylene	77636	0.03899833	1	10	0.03013	0.996	1.6595	12.94336	19.91	65.0
5.51	alpha-BHC	1834	7.3423e-04	1	10	0.03013	0.996	1.6595	0.24369	0.00	------
6.06	gamma-BHC	91441	0.04002310	1	10	0.03013	0.996	1.6595	13.28347	0.00	------
6.19	beta-BHC	2943	2.4165e-03	1	10	0.03013	0.996	1.6595	0.80202	0.00	------
6.64	delta-BHC	732	3.3569e-04	1	10	0.03013	0.996	1.6595	0.11141	0.00	------
6.71	Heptachlor	87162	0.03755843	1	10	0.03013	0.996	1.6595	12.46546	0.00	------
7.20	Aldrin	72900	0.03562161	1	10	0.03013	0.996	1.6595	11.82264	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03013	0.996	--------	0.00000	--------	------
8.31	gamma-Chlordane	1453	7.1490e-04	1	10	0.03013	0.996	1.6595	0.23727	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03013	0.996	--------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03013	0.996	--------	0.00000	--------	------
8.77	4,4'-DDE	6261	3.4506e-03	1	10	0.03013	0.996	3.3190	1.14524	0.00	------
9.03	Dieldrin	157267	0.08327988	1	10	0.03013	0.996	3.3190	27.64019	0.00	------
9.49	Endrin	150465	0.09174003	1	10	0.03013	0.996	3.3190	30.44807	0.00	------
9.63	4,4'-DDD	10055	6.7985e-03	1	10	0.03013	0.996	3.3190	2.25638	0.00	------
9.81	Endosulfan II	6285	3.9112e-03	1	10	0.03013	0.996	3.3190	1.29810	0.00	------
10.08	4,4'-DDT	126721	0.07956462	1	10	0.03013	0.996	3.3190	26.40711	0.00	------
10.27	Endrin aldehyde	77697	0.06071959	1	10	0.03013	0.996	3.3190	20.15254	0.00	------
10.69	Endosulfan sulfate	1482	1.0243e-03	1	10	0.03013	0.996	3.3190	0.33997	0.00	------
10.90	Methoxychlor	1580	2.0507e-03	1	10	0.03013	0.996	16.5948	0.68061	0.00	------
11.28	Endrin ketone	12062	6.6976e-03	1	10	0.03013	0.996	3.3190	2.22291	0.00	------
12.57	Decachlorobiphenyl	126298	0.08109768	1	10	0.03013	0.996	3.3190	26.91592	39.83	67.6

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M36MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552003

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 21150619A024

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.82	JBP
319-85-7	beta-BHC	2.5	B
319-86-8	delta-BHC	0.42	JB
58-89-9	gamma-BHC (Lindane)	19.	
76-44-8	Heptachlor	18.	
309-00-2	Aldrin	18.	
1024-57-3	Heptachlor epoxide	0.11	J
959-98-8	Endosulfan I	0.35	J
60-57-1	Dieldrin	33.	
72-55-9	4,4'-DDE	0.64	J
72-20-8	Endrin	40.	
33213-65-9	Endosulfan II	0.93	JBP
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	0.038	JP
50-29-3	4,4'-DDT	37.	
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	2.7	JB
7421-93-4	Endrin aldehyde	0.70	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.19	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:08
Operator	: sagers	Sample Name	: 1515552003
Sample Number	: 024	Study	: F9M36MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/24
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 02:15:08	Dilution Factor	: 1.00
		Cycle	: 3

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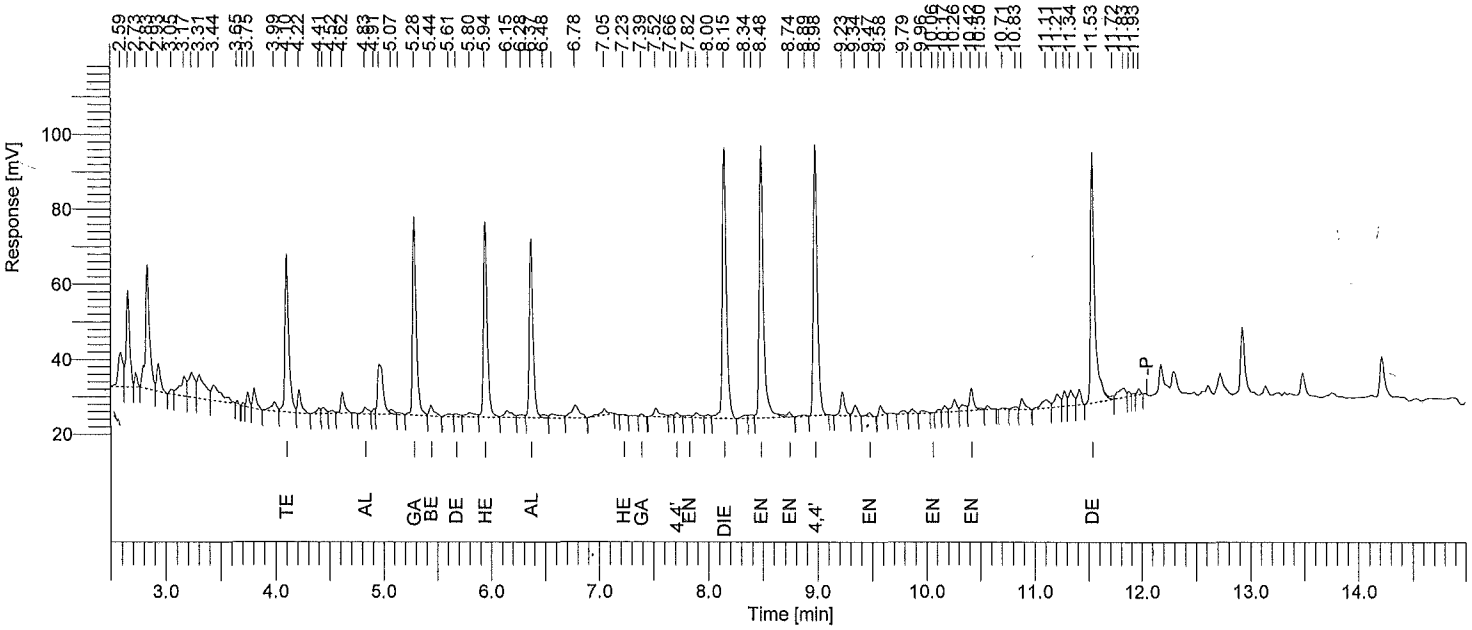

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.10	Tetrachloro-m-xylene	102790	0.04430294	1	10	0.03050	0.984	1.6393	14.52555	19.67	73.8
4.83	alpha-BHC	5987	1.9823e-03	1	10	0.03050	0.984	1.6393	0.64992	0.00	------
5.28	gamma-BHC	125520	0.04491106	1	10	0.03050	0.984	1.6393	14.72494	0.00	------
5.44	beta-BHC	8940	6.0611e-03	1	10	0.03050	0.984	1.6393	1.98726	0.00	------
5.67	delta-BHC	2768	1.0192e-03	1	10	0.03050	0.984	1.6393	0.33417	0.00	------
5.94	Heptachlor	127060	0.04295572	1	10	0.03050	0.984	1.6393	14.08384	0.00	------
6.37	Aldrin	115081	0.04418614	1	10	0.03050	0.984	1.6393	14.48726	0.00	------
7.23	Heptachlor epoxide	644	2.5933e-04	1	10	0.03050	0.984	1.6393	0.08503	0.00	------
7.39	gamma-Chlordane	1148	4.5083e-04	1	10	0.03050	0.984	1.6393	0.14781	0.00	------
7.60	alpha-Chlordane	0	0.00000000	1	10	0.03050	0.984	---------	0.00000	--------	------
7.71	4,4'-DDE	3350	1.5556e-03	1	10	0.03050	0.984	3.2787	0.51003	0.00	------
7.82	Endosulfan I	2157	8.4495e-04	1	10	0.03050	0.984	1.6393	0.27703	0.00	------
8.15	Dieldrin	186883	0.08060929	1	10	0.03050	0.984	3.2787	26.42927	0.00	------
8.48	Endrin	197740	0.09680274	1	10	0.03050	0.984	3.2787	31.73860	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03050	0.984	---------	0.00000	--------	------
8.74	Endosulfan II	4555	2.2585e-03	1	10	0.03050	0.984	3.2787	0.74048	0.00	------
8.98	4,4'-DDT	182563	0.08930489	1	10	0.03050	0.984	3.2787	29.28029	0.00	------
9.47	Endrin aldehyde	2876	1.6818e-03	1	10	0.03050	0.984	3.2787	0.55142	0.00	------
9.68	Methoxychlor	0	0.00000000	1	10	0.03050	0.984	---------	0.00000	--------	------
10.06	Endosulfan sulfate	168	9.0910e-05	1	10	0.03050	0.984	3.2787	0.02981	0.00	------
10.42	Endrin ketone	15368	6.5343e-03	1	10	0.03050	0.984	3.2787	2.14238	0.00	------
11.53	Decachlorobiphenyl	182819	0.09206053	1	10	0.03050	0.984	3.2787	30.18378	39.34	76.7

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M36MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552003

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 21150619B024

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.46	JBP
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	0.51	JB
58-89-9	gamma-BHC (Lindane)	19.	
76-44-8	Heptachlor	17.	
309-00-2	Aldrin	18.	
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	38.	
72-55-9	4,4'-DDE	0.67	J
72-20-8	Endrin	37.	
33213-65-9	Endosulfan II	0.080	JBP
72-54-8	4,4'-DDD	0.71	J
1031-07-8	Endosulfan sulfate	1.1	JP
50-29-3	4,4'-DDT	37.	
72-43-5	Methoxychlor	3.4	J
53494-70-5	Endrin ketone	2.6	JB
7421-93-4	Endrin aldehyde	3.1	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.31	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:10:13
Operator	: sagers	Sample Name	: 1515552003
Sample Number	: 024	Study	: F9M36MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/24
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 02:35:54	Dilution Factor	: 1.00
		Cycle	: 3

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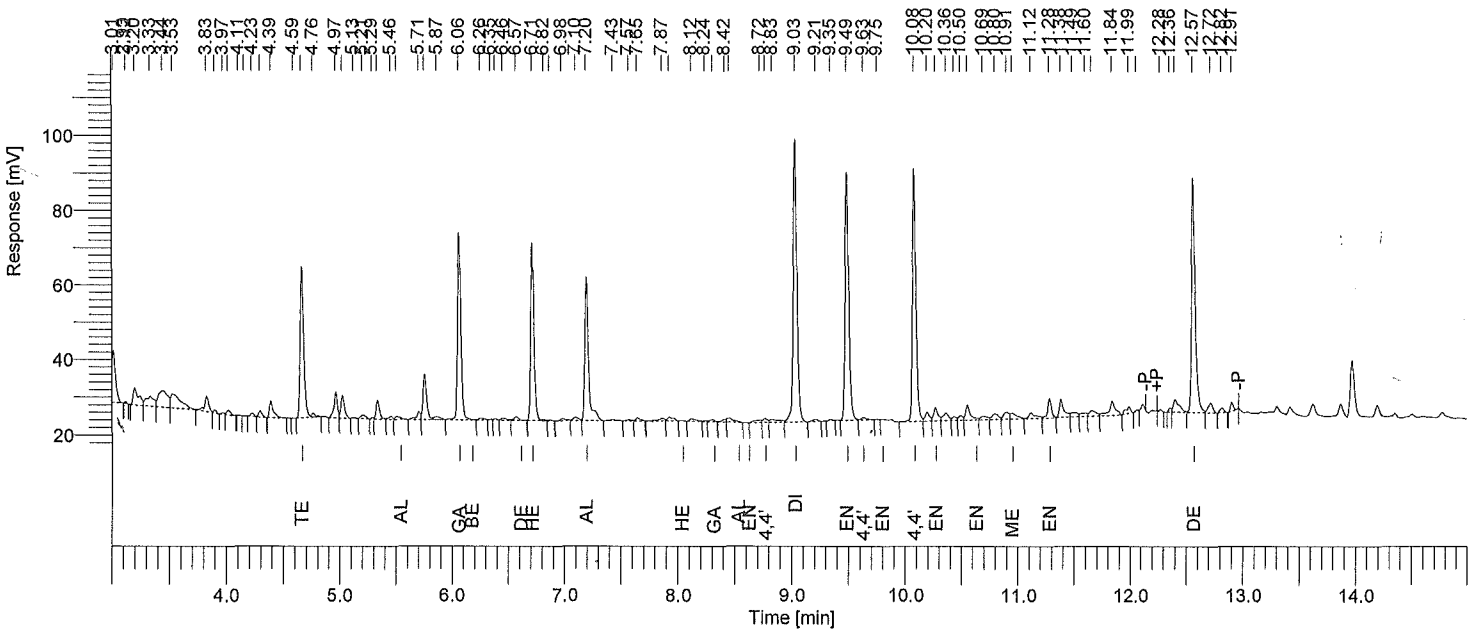

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.66	Tetrachloro-m-xylene	84941	0.04266773	1	10	0.03050	0.984	1.6393	13.98942	19.67	71.1
5.51	alpha-BHC	2771	1.1092e-03	1	10	0.03050	0.984	1.6393	0.36366	0.00	------
6.06	gamma-BHC	103835	0.04544819	1	10	0.03050	0.984	1.6393	14.90105	0.00	------
6.18	beta-BHC	0	0.00000000	1	10	0.03050	0.984	---------	0.00000	--------	------
6.57	delta-BHC	2682	1.2294e-03	1	10	0.03050	0.984	1.6393	0.40309	0.00	------
6.71	Heptachlor	97333	0.04194116	1	10	0.03050	0.984	1.6393	13.75120	0.00	------
7.20	Aldrin	88739	0.04336131	1	10	0.03050	0.984	1.6393	14.21682	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03050	0.984	---------	0.00000	--------	------
8.31	gamma-Chlordane	1527	7.5101e-04	1	10	0.03050	0.984	1.6393	0.24623	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03050	0.984	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03050	0.984	---------	0.00000	--------	------
8.77	4,4'-DDE	2950	1.6259e-03	1	10	0.03050	0.984	3.2787	0.53308	0.00	------
9.03	Dieldrin	173223	0.09172959	1	10	0.03050	0.984	3.2787	30.07528	0.00	------
9.49	Endrin	148588	0.09059589	1	10	0.03050	0.984	3.2787	29.70357	0.00	------
9.63	4,4'-DDD	2534	1.7130e-03	1	10	0.03050	0.984	3.2787	0.56164	0.00	------
9.75	Endosulfan II	311	1.9332e-04	1	10	0.03050	0.984	3.2787	0.06338	0.00	------
10.08	4,4'-DDT	144159	0.09051334	1	10	0.03050	0.984	3.2787	29.67650	0.00	------
10.27	Endrin aldehyde	9603	7.5048e-03	1	10	0.03050	0.984	3.2787	2.46060	0.00	------
10.69	Endosulfan sulfate	3781	2.6143e-03	1	10	0.03050	0.984	3.2787	0.85716	0.00	------
10.95	Methoxychlor	6337	8.2248e-03	1	10	0.03050	0.984	16.3934	2.69664	0.00	------
11.28	Endrin ketone	11426	6.3446e-03	1	10	0.03050	0.984	3.2787	2.08019	0.00	------
12.57	Decachlorobiphenyl	142701	0.09163044	1	10	0.03050	0.984	3.2787	30.04277	39.34	76.4

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450509

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150619A021

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.067	JBP
319-85-7	beta-BHC	6.6	BP
319-86-8	delta-BHC	0.018	JBP
58-89-9	gamma-BHC (Lindane)	1.1	J
76-44-8	Heptachlor	0.25	J
309-00-2	Aldrin	0.52	J
1024-57-3	Heptachlor epoxide	1.3	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	2.5	J
72-55-9	4,4'-DDE	2.4	J
72-20-8	Endrin	2.6	J
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	2.2	J
50-29-3	4,4'-DDT	0.076	JP
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	0.23	JBP
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	0.016	JP
5103-74-2	gamma-Chlordane	1.2	J
8001-35-2	Toxaphene	170	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:09:02
Operator	: sagers	Sample Name	: 450509
Sample Number	: 021	Study	: PLCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 01:12:48	Dilution Factor	: 1.00
		Cycle	: 20

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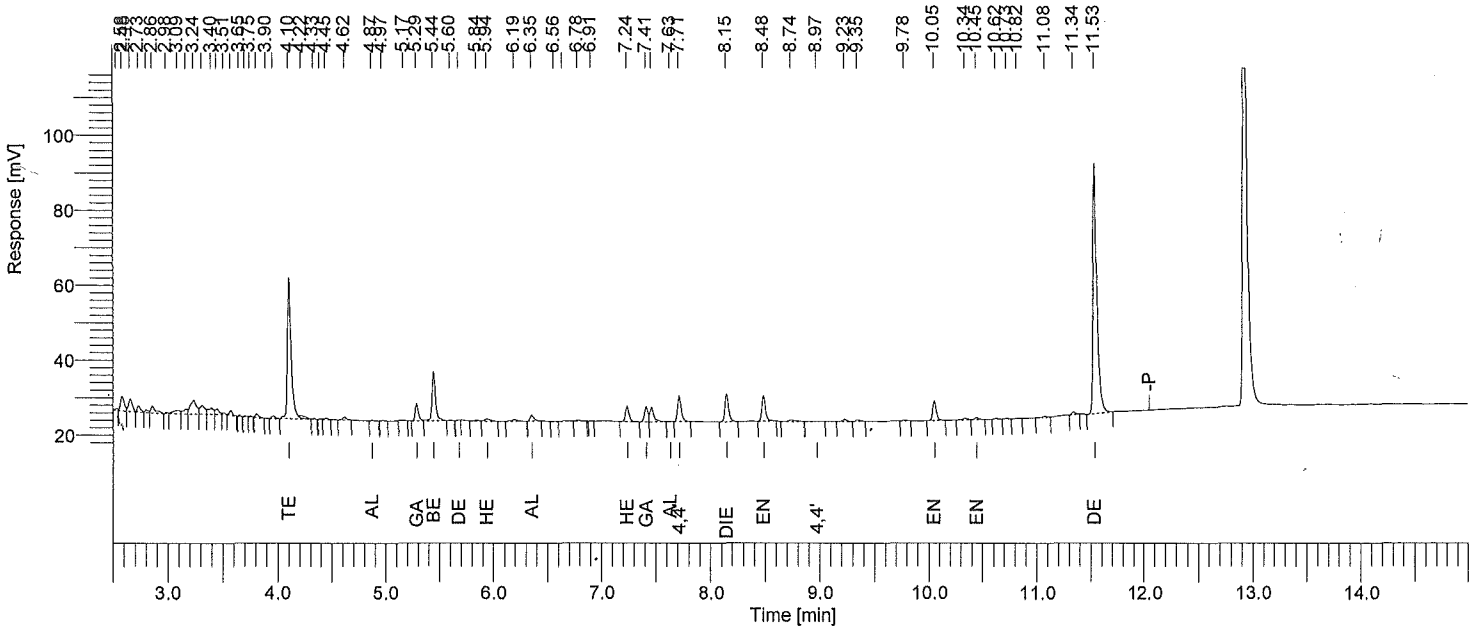

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
4.10	Tetrachloro-m-xylene	90803	0.03913652	1	10	0.03000	1.000	1.6667	13.04551	20.00	65.2
4.87	alpha-BHC	605	2.0039e-04	1	10	0.03000	1.000	1.6667	0.06680	0.00	-----
5.29	gamma-BHC	9296	3.3262e-03	1	10	0.03000	1.000	1.6667	1.10874	1.67	66.5
5.44	beta-BHC	29197	0.01979572	1	10	0.03000	1.000	1.6667	6.59857	0.00	-----
5.68	delta-BHC	145	5.3220e-05	1	10	0.03000	1.000	1.6667	0.01774	0.00	-----
5.94	Heptachlor	2255	7.6235e-04	1	10	0.03000	1.000	1.6667	0.25412	0.00	-----
6.35	Aldrin	4026	1.5459e-03	1	10	0.03000	1.000	1.6667	0.51530	0.00	-----
7.24	Heptachlor epoxide	9465	3.8143e-03	1	10	0.03000	1.000	1.6667	1.27142	1.67	76.3
7.41	gamma-Chlordane	8788	3.4521e-03	1	10	0.03000	1.000	1.6667	1.15071	1.67	69.0
7.63	alpha-Chlordane	126	4.8542e-05	1	10	0.03000	1.000	1.6667	0.01618	0.00	-----
7.71	4,4'-DDE	15506	7.2003e-03	1	10	0.03000	1.000	3.3333	2.40011	3.33	72.0
7.80	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.15	Dieldrin	17055	7.3562e-03	1	10	0.03000	1.000	3.3333	2.45208	3.33	73.6
8.48	Endrin	16009	7.8369e-03	1	10	0.03000	1.000	3.3333	2.61231	3.33	78.4
8.58	4,4'-DDD	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.81	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.97	4,4'-DDT	469	2.2939e-04	1	10	0.03000	1.000	3.3333	0.07646	0.00	-----
9.42	Endrin aldehyde	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.68	Methoxychlor	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
10.05	Endosulfan sulfate	12171	6.5940e-03	1	10	0.03000	1.000	3.3333	2.19800	3.33	65.9
10.45	Endrin ketone	1637	6.9589e-04	1	10	0.03000	1.000	3.3333	0.23196	0.00	-----
11.53	Decachlorobiphenyl	166100	0.08364162	1	10	0.03000	1.000	3.3333	27.88054	40.00	69.7

Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450509

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150619B021

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.10	JBP
319-85-7	beta-BHC	0.29	JBP
319-86-8	delta-BHC	0.21	JBP
58-89-9	gamma-BHC (Lindane)	1.2	J
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.2	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	2.5	J
72-55-9	4,4'-DDE	2.4	J
72-20-8	Endrin	2.6	J
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	2.2	J
50-29-3	4,4'-DDT	0.13	JP
72-43-5	Methoxychlor	0.34	J
53494-70-5	Endrin ketone	0.12	JBP
7421-93-4	Endrin aldehyde	0.34	J
5103-71-9	alpha-Chlordane	0.083	JP
5103-74-2	gamma-Chlordane	1.2	J
8001-35-2	Toxaphene	170	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 13:10:07
Operator	: sagers	Sample Name	: 450509
Sample Number	: 021	Study	: PLCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 01:33:34	Dilution Factor	: 1.00
		Cycle	: 21

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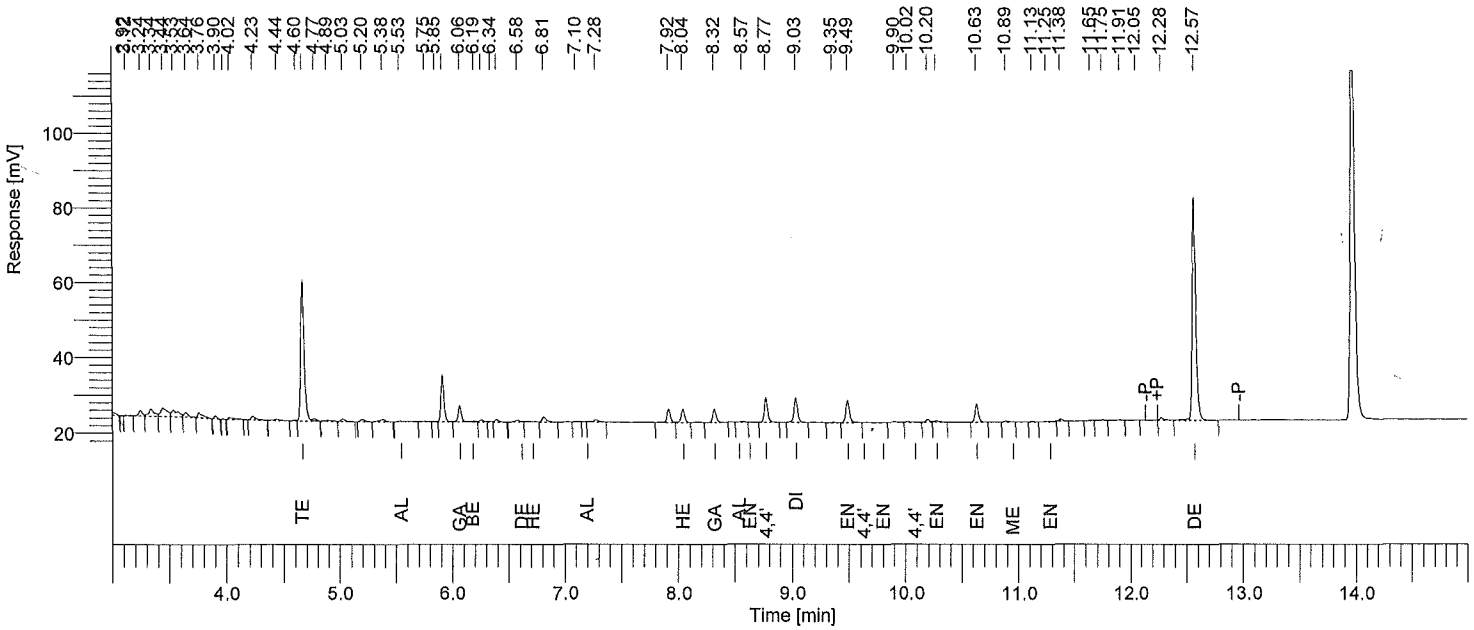

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
4.66	Tetrachloro-m-xylene	78447	0.03940551	1	10	0.03000	1.000	1.6667	13.13517	20.00	65.7
5.53	alpha-BHC	748	2.9926e-04	1	10	0.03000	1.000	1.6667	0.09975	0.00	-----
6.06	gamma-BHC	8352	3.6555e-03	1	10	0.03000	1.000	1.6667	1.21849	1.67	73.1
6.19	beta-BHC	1065	8.7448e-04	1	10	0.03000	1.000	1.6667	0.29149	0.00	-----
6.58	delta-BHC	1365	6.2584e-04	1	10	0.03000	1.000	1.6667	0.20861	0.00	-----
6.72	Heptachlor	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
7.20	Aldrin	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.04	Heptachlor epoxide	7204	3.6773e-03	1	10	0.03000	1.000	1.6667	1.22577	1.67	73.5
8.32	gamma-Chlordane	7394	3.6374e-03	1	10	0.03000	1.000	1.6667	1.21248	1.67	72.7
8.57	alpha-Chlordane	508	2.4810e-04	1	10	0.03000	1.000	1.6667	0.08270	0.00	-----
8.63	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.77	4,4'-DDE	13200	7.2745e-03	1	10	0.03000	1.000	3.3333	2.42483	3.33	72.7
9.03	Dieldrin	14018	7.4230e-03	1	10	0.03000	1.000	3.3333	2.47433	3.33	74.2
9.49	Endrin	12933	7.8856e-03	1	10	0.03000	1.000	3.3333	2.62853	3.33	78.9
9.63	4,4'-DDD	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.80	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
10.02	4,4'-DDT	619	3.8864e-04	1	10	0.03000	1.000	3.3333	0.12955	0.00	-----
10.27	Endrin aldehyde	1298	1.0144e-03	1	10	0.03000	1.000	3.3333	0.33813	0.00	-----
10.63	Endosulfan sulfate	9410	6.5064e-03	1	10	0.03000	1.000	3.3333	2.16880	3.33	65.1
10.89	Methoxychlor	795	1.0314e-03	1	10	0.03000	1.000	16.6667	0.34382	0.00	-----
11.25	Endrin ketone	641	3.5605e-04	1	10	0.03000	1.000	3.3333	0.11868	0.00	-----
12.57	Decachlorobiphenyl	131064	0.08415781	1	10	0.03000	1.000	3.3333	28.05260	40.00	70.1

Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
Somo 1.2/2.2
6/2/15
Lyle Edwards
STD # 195WS 38823

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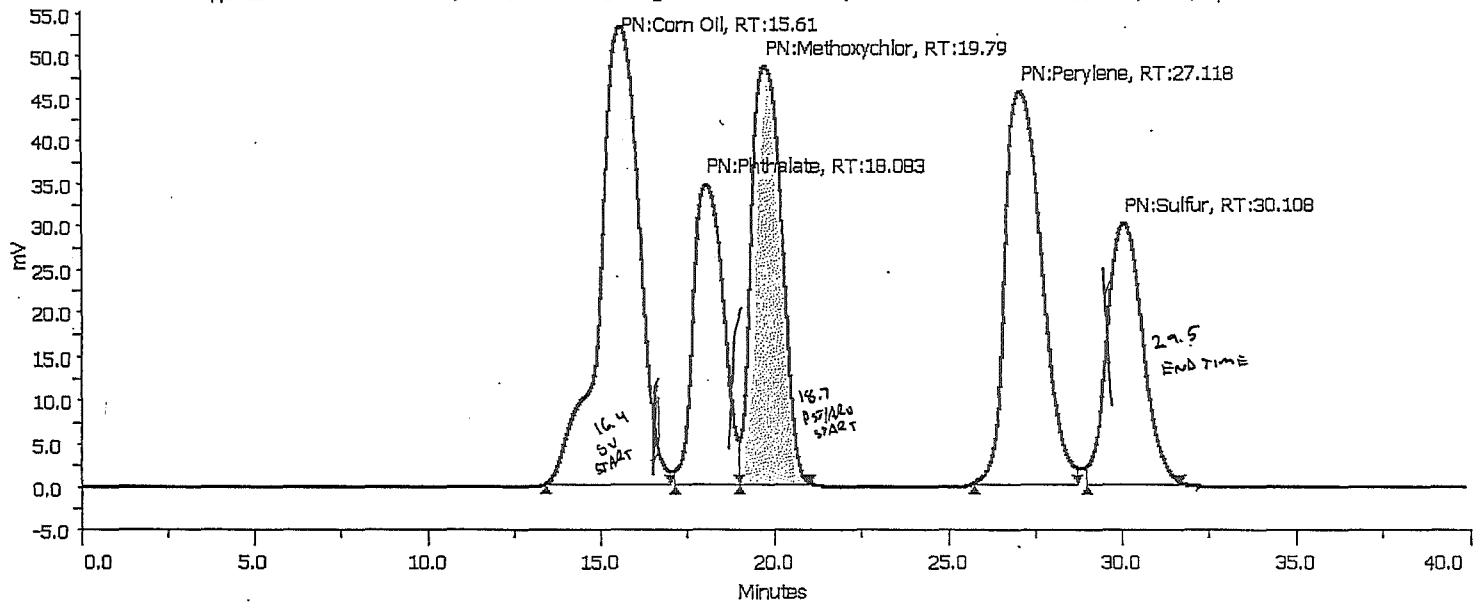


Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.388	15.61	6972078.75	53.12	0	90.862
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.154	18.083	3442194.1667	34.4	90.862	88.181
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	19.022	19.79	4877990.8333	48.33	88.181	293.687
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.768	27.118	5509891.25	45.3	293.687	104.82
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.982	30.108	3573543.3333	29.85	104.82	0

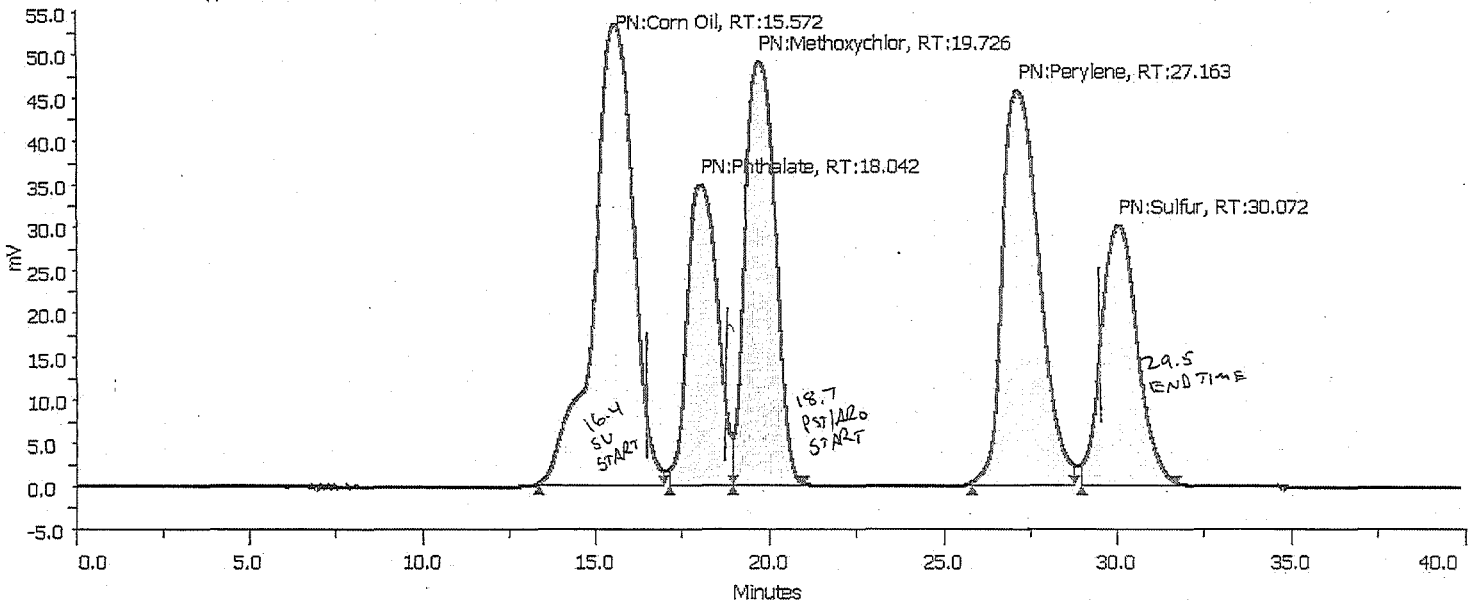
Run Variables

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
Somo 1.2/2.2
5/25/15
Lyle Edwards
STD# 195WS38823

App: ALS GPC Methods Small FC, Run: 05252015-065257 @ 5/25/2015 6:53:02 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.345	15.572	6981755.4167	53.19	0	90.823
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.114	18.042	3453661.6667	34.59	90.823	87.338
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.968	19.726	4909087.5	48.69	87.338	298.745
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.829	27.163	5531085.8333	45.32	298.745	102.496
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.983	30.072	3584026.25	29.85	102.496	0

Run Variables

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:07
Operator	: sagers	Sample Name	: GPC6PST0603
Sample Number	: 018	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/10/2015 21:51:48	Dilution Factor	: 1.00
		Cycle	: 2

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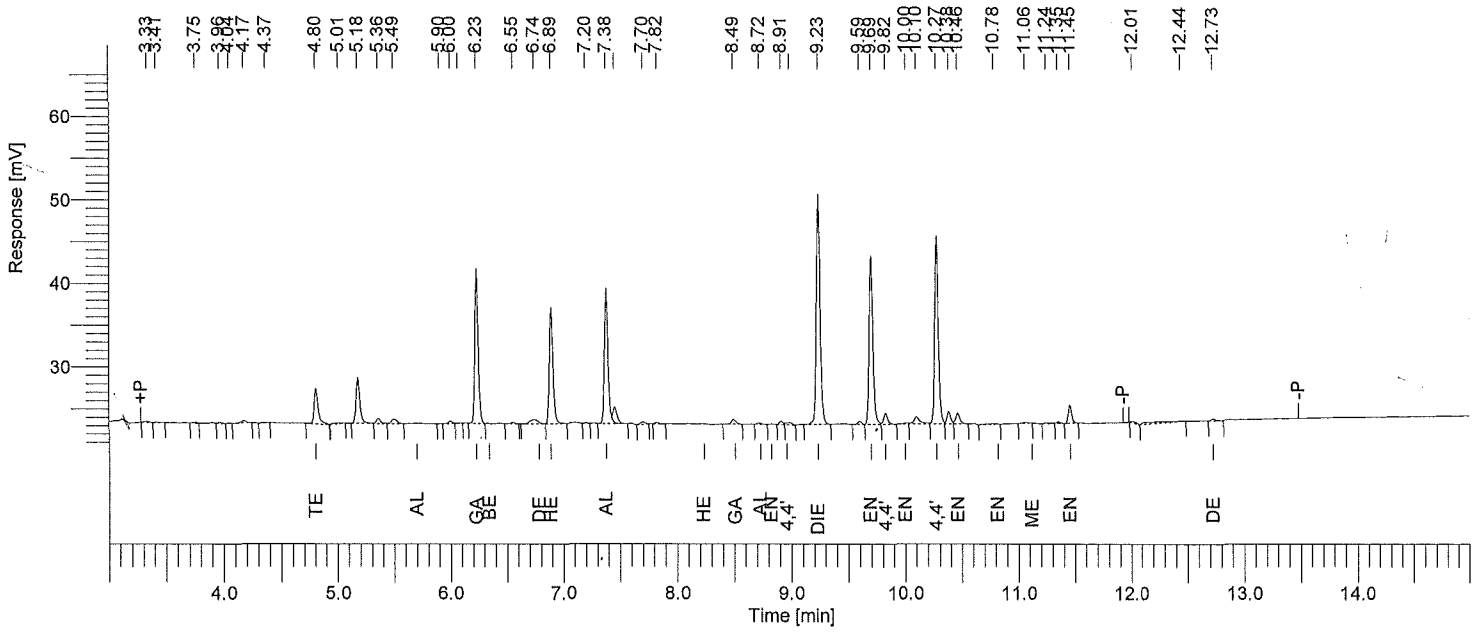

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO GPC CV REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/L	Target Amt ug/L	Recovery %
4.80	Tetrachloro-m-xylene	10497	0.0030780	0.0307804	0.1000000	30.8
5.70	alpha-BHC	0	0.0000000	0.0000000	----------	------
6.23	gamma-BHC	38207	0.0098589	0.0985887	0.1000000	98.6
6.34	beta-BHC	0	0.0000000	0.0000000	----------	------
6.74	delta-BHC	2718	0.0007457	0.0074566	0.1000000	7.5
6.89	Heptachlor	31223	0.0088187	0.0881867	0.1000000	88.2
7.38	Aldrin	35657	0.0106394	0.1063936	0.1000000	106.4
8.23	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.49	gamma-Chlordane	1507	0.0004542	0.0045420	0.1000000	4.5
8.72	alpha-Chlordane	487	0.0001513	0.0015130	0.1000000	1.5
8.82	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.98	4,4'-DDE	926	0.0002967	0.0029667	0.2000000	1.5
9.23	Dieldrin	63201	0.0206231	0.2062309	0.2000000	103.1
9.69	Endrin	46421	0.0190435	0.1904350	0.2000000	95.2
9.82	4,4'-DDD	3365	0.0013435	0.0134352	0.2000000	6.7
10.00	Endosulfan II	475	0.0001889	0.0018888	0.2000000	0.9
10.27	4,4'-DDT	49120	0.0207405	0.2074053	0.2000000	103.7
10.46	Endrin aldehyde	3445	0.0016449	0.0164489	0.2000000	8.2
10.78	Endosulfan sulfate	773	0.0003583	0.0035833	0.2000000	1.8
11.06	Methoxychlor	513	0.0004622	0.0046219	1.0000000	0.5
11.45	Endrin ketone	4576	0.0017001	0.0170012	0.2000000	8.5
12.73	Decachlorobiphenyl	514	0.0002500	0.0025001	0.2000000	1.3

Recoveries 80-110%.

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:09
Operator	: sagers	Sample Name	: GPC6BLK0603
Sample Number	: 019	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/19
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 22:12:00	Cycle	: 3

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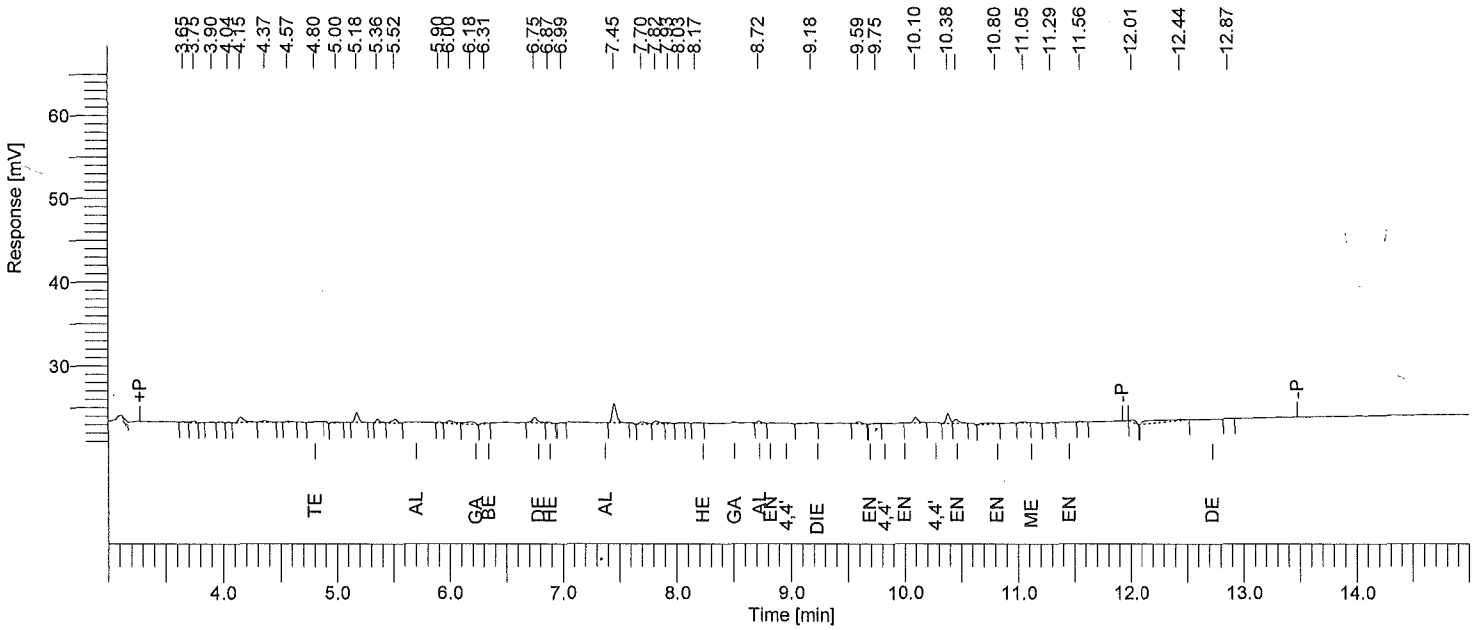

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO GPC BLK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L
4.80	Tetrachloro-m-xylene	406	1.18972e-04	1	10	1.000	1.000	0.050000	0.001190
5.70	alpha-BHC	0	0.000000000	1	10	1.000	1.000	--------	0.000000
6.18	gamma-BHC	1904	4.91282e-04	1	10	1.000	1.000	0.050000	0.004913
6.31	beta-BHC	422	2.04651e-04	1	10	1.000	1.000	0.050000	0.002047
6.75	delta-BHC	2462	6.75417e-04	1	10	1.000	1.000	0.050000	0.006754
6.87	Heptachlor	495	1.39788e-04	1	10	1.000	1.000	0.050000	0.001398
7.37	Aldrin	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.23	Heptachlor epoxide	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.51	gamma-Chlordane	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.72	alpha-Chlordane	658	2.04385e-04	1	10	1.000	1.000	0.050000	0.002044
8.82	Endosulfan I	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.96	4,4'-DDE	0	0.000000000	1	10	1.000	1.000	--------	0.000000
9.18	Dieldrin	608	1.98474e-04	1	10	1.000	1.000	0.100000	0.001985
9.75	Endrin	280	1.14839e-04	1	10	1.000	1.000	0.100000	0.001148
9.82	4,4'-DDD	0	0.000000000	1	10	1.000	1.000	--------	0.000000
10.00	Endosulfan II	0	0.000000000	1	10	1.000	1.000	--------	0.000000
10.27	4,4'-DDT	0	0.000000000	1	10	1.000	1.000	--------	0.000000
10.45	Endrin aldehyde	1537	7.33994e-04	1	10	1.000	1.000	0.100000	0.007340
10.80	Endosulfan sulfate	1248	5.78385e-04	1	10	1.000	1.000	0.100000	0.005784
11.05	Methoxychlor	465	4.19127e-04	1	10	1.000	1.000	0.500000	0.004191
11.45	Endrin ketone	0	0.000000000	1	10	1.000	1.000	--------	0.000000
12.73	Decachlorobiphenyl	0	0.000000000	1	10	1.000	1.000	--------	0.000000

All analytes <CRQL.

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:14
Operator	: sagers	Sample Name	: RESCA2
Sample Number	: 004	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 17:06:50	Cycle	: 4

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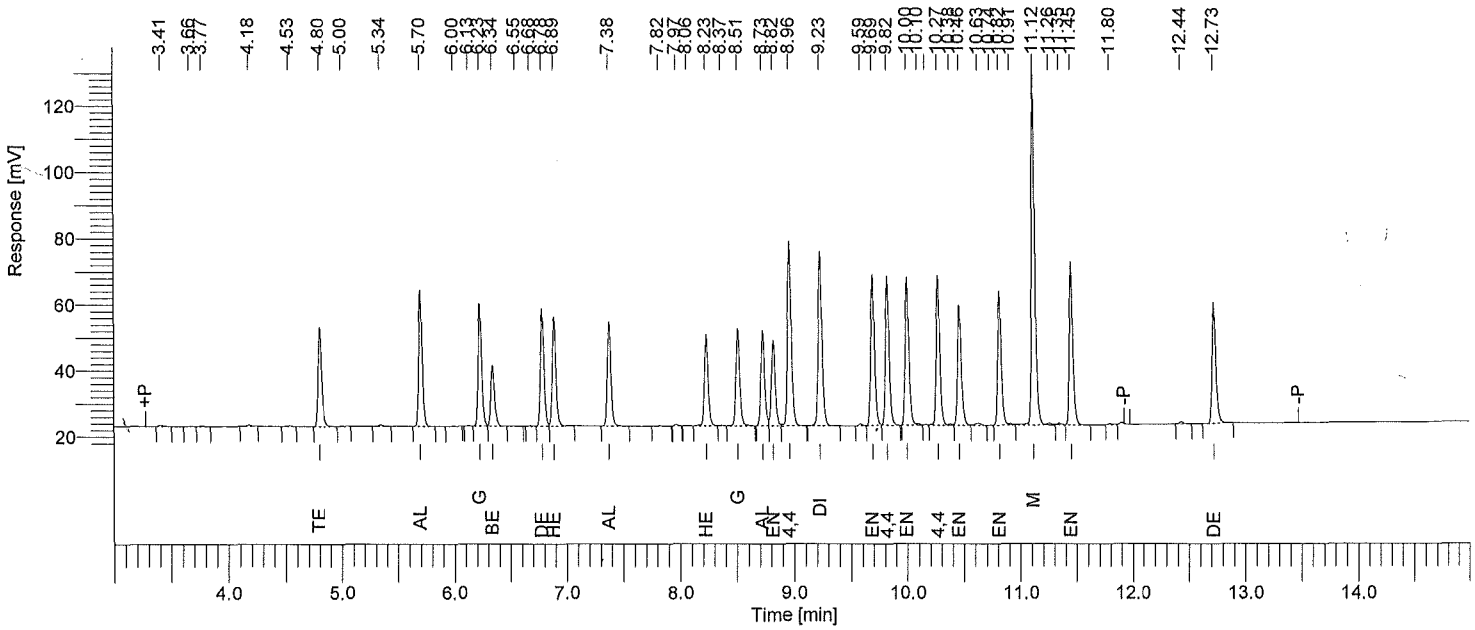

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	68815	0.0201794
5.70	alpha-BHC	88098	0.0208734
6.23	gamma-BHC	81272	0.0209710
6.34	beta-BHC	42690	0.0206871
6.78	delta-BHC	76748	0.0210575
6.89	Heptachlor	73961	0.0208893
7.38	Aldrin	70699	0.0210955
8.23	Heptachlor epoxide	63882	0.0211105
8.51	gamma-Chlordane	68721	0.0207133
8.73	alpha-Chlordane	67245	0.0208750
8.82	Endosulfan I	60554	0.0210067
8.96	4,4'-DDE	127484	0.0408300
9.23	Dieldrin	126266	0.0412020
9.69	Endrin	106336	0.0436230
9.82	4,4'-DDD	102024	0.0407338
10.00	Endosulfan II	103859	0.0413324
10.27	4,4'-DDT	100066	0.0422519
10.46	Endrin aldehyde	86549	0.0413247
10.82	Endosulfan sulfate	89185	0.0413170
11.12	Methoxychlor	227378	0.2048555
11.45	Endrin ketone	108620	0.0403565
12.73	Decachlorobiphenyl	84387	0.0410316

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:16
Operator	: sagers	Sample Name	: PEMA2
Sample Number	: 005	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/10/2015 17:27:12	Dilution Factor	: 1.00
		Cycle	: 5

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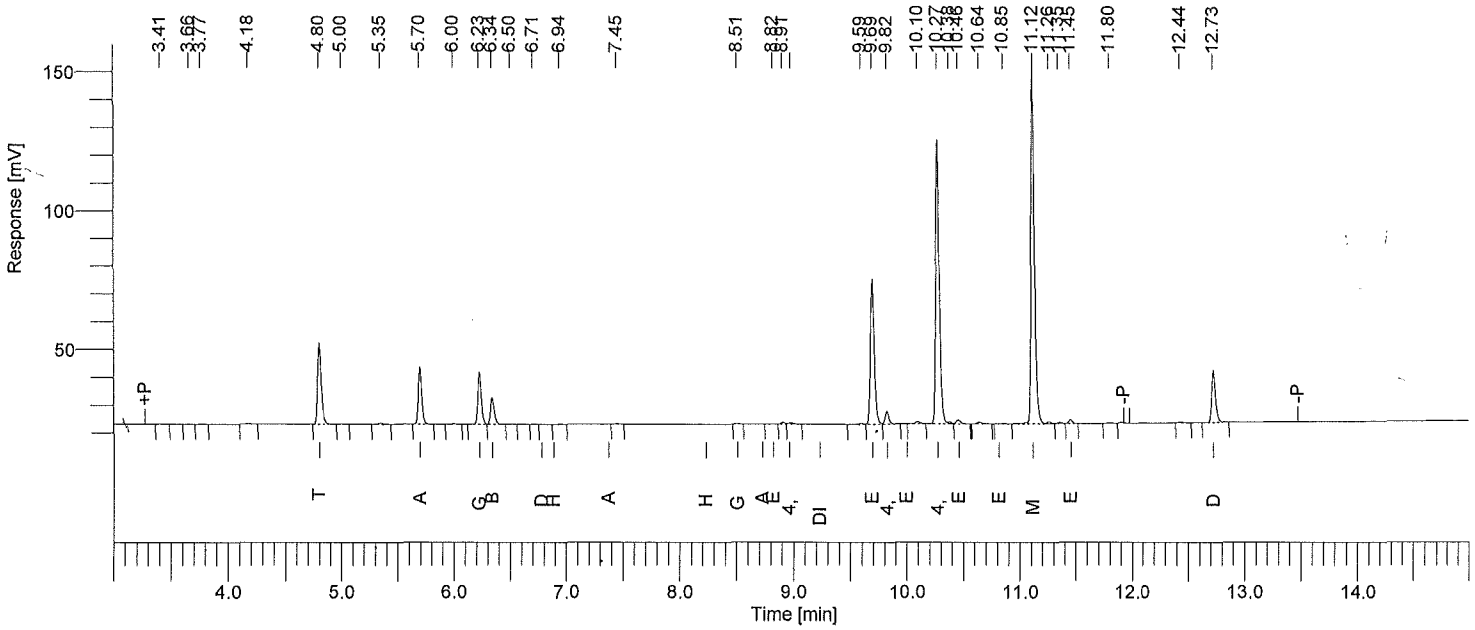

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.80	Tetrachloro-m-xylene	67314	0.0197394	0.0197394	0.02000	98.7
5.70	alpha-BHC	42062	0.0099659	0.0099659	0.01000	99.7
6.23	gamma-BHC	39904	0.0102967	0.0102967	0.01000	103.0
6.34	beta-BHC	22020	0.0106704	0.0106704	0.01000	106.7
6.78	delta-BHC	0	0.0000000	0.0000000	----------	------
6.89	Heptachlor	0	0.0000000	0.0000000	----------	------
7.37	Aldrin	0	0.0000000	0.0000000	----------	------
8.23	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.51	gamma-Chlordane	532	0.0001605	0.0001605	0.00000	------
8.73	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.82	Endosulfan I	292	0.0001015	0.0001015	0.00000	------
8.98	4,4'-DDE	1804	0.0005777	0.0005777	0.10000	0.6
9.23	Dieldrin	0	0.0000000	0.0000000	----------	------
9.69	Endrin	123818	0.0507947	0.0507947	0.05000	101.6
9.82	4,4'-DDD	10884	0.0043455	0.0043455	0.10000	4.3
10.00	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.27	4,4'-DDT	227865	0.0962142	0.0962142	0.10000	96.2
10.46	Endrin aldehyde	3837	0.0018321	0.0018321	0.05000	3.7
10.85	Endosulfan sulfate	740	0.0003428	0.0003428	0.00000	------
11.12	Methoxychlor	271040	0.2441932	0.2441932	0.25000	97.7
11.45	Endrin ketone	2886	0.0010724	0.0010724	0.05000	2.1
12.73	Decachlorobiphenyl	43756	0.0212758	0.0212758	0.02000	106.4
			0.4715828			820.6

06/11/2015 10:30:16 Result: \\Alsltws012\TCCS\sagers\GCE31\31150610\31150610B_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.98	4,4'-DDE	1804	0.0005777	0.0005777	0.10000	0.6
9.82	4,4'-DDD	10884	0.0043455	0.0043455	0.10000	4.3
			0.0049232			4.9

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.46	Endrin aldehyde	3837	0.0018321	0.0018321	0.05000	3.7
11.45	Endrin ketone	2886	0.0010724	0.0010724	0.05000	2.1
			0.0029044			5.8

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:18
Operator	: sagers	Sample Name	: TOXAPH1A2
Sample Number	: 006	Study	: 26377
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/10/2015 17:47:30	Dilution Factor	: 1.00
		Cycle	: 6

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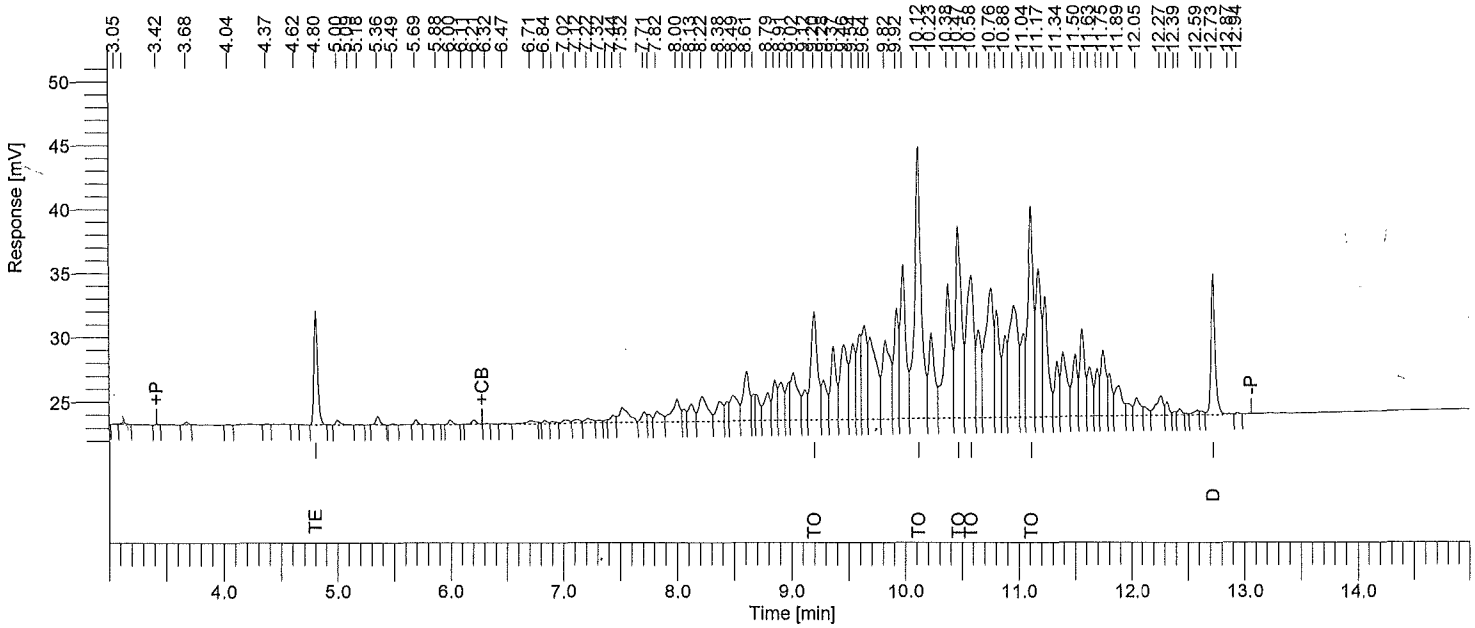

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	19838	0.0056345
9.20	Toxaphene-1	34053	0.5117227
10.12	Toxaphene-2	83887	0.5167137
10.47	Toxaphene-3	55621	0.5020547
10.58	Toxaphene-4	51152	0.4936080
11.11	Toxaphene-5	54407	0.5050374
12.73	Decachlorobiphenyl	27247	0.0113490

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:20
Operator	: sagers	Sample Name	: TOXAPH2A2
Sample Number	: 007	Study	: 26378
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 18:07:50	Cycle	: 7

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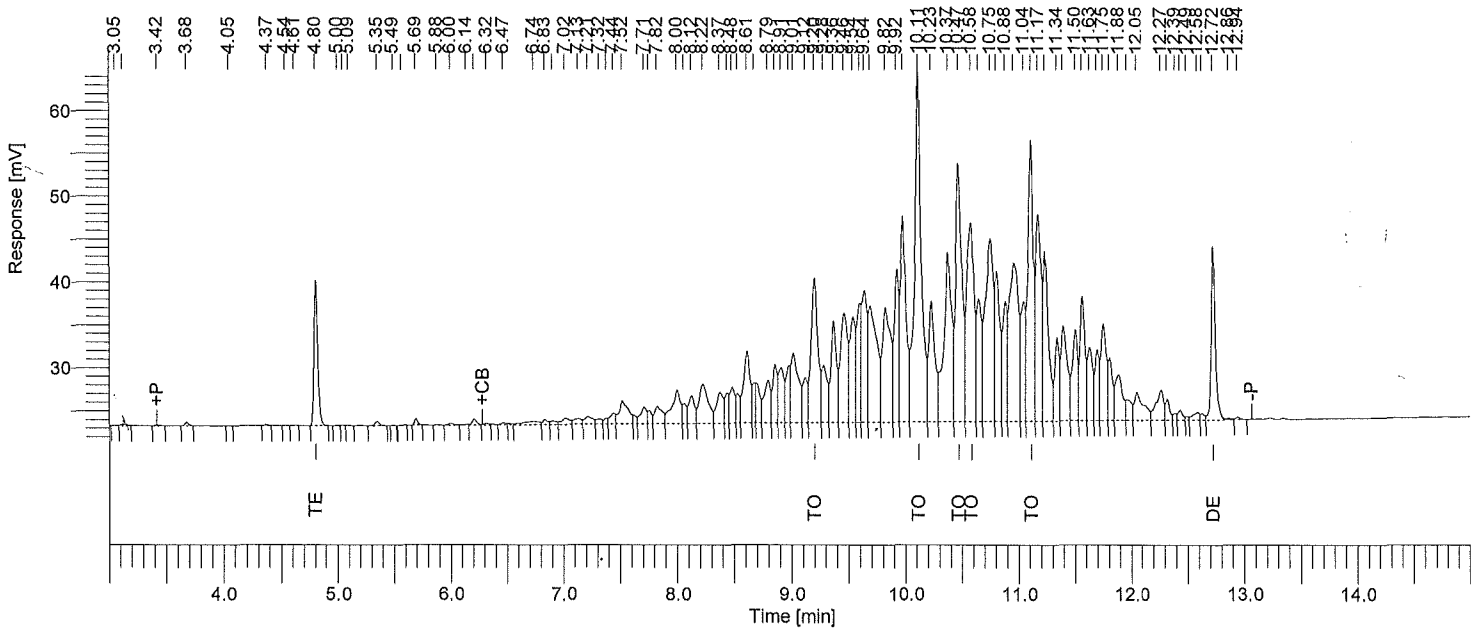

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	38484	0.0109304
9.20	Toxaphene-1	71390	1.0727815
10.11	Toxaphene-2	170802	1.0520701
10.47	Toxaphene-3	115954	1.0466422
10.58	Toxaphene-4	108096	1.0431105
11.11	Toxaphene-5	111489	1.0349036
12.72	Decachlorobiphenyl	51429	0.0214217

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:22
Operator	: sagers	Sample Name	: TOXAPH3A2
Sample Number	: 008	Study	: 26379
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/10/2015 18:28:22	Dilution Factor	: 1.00
		Cycle	: 8

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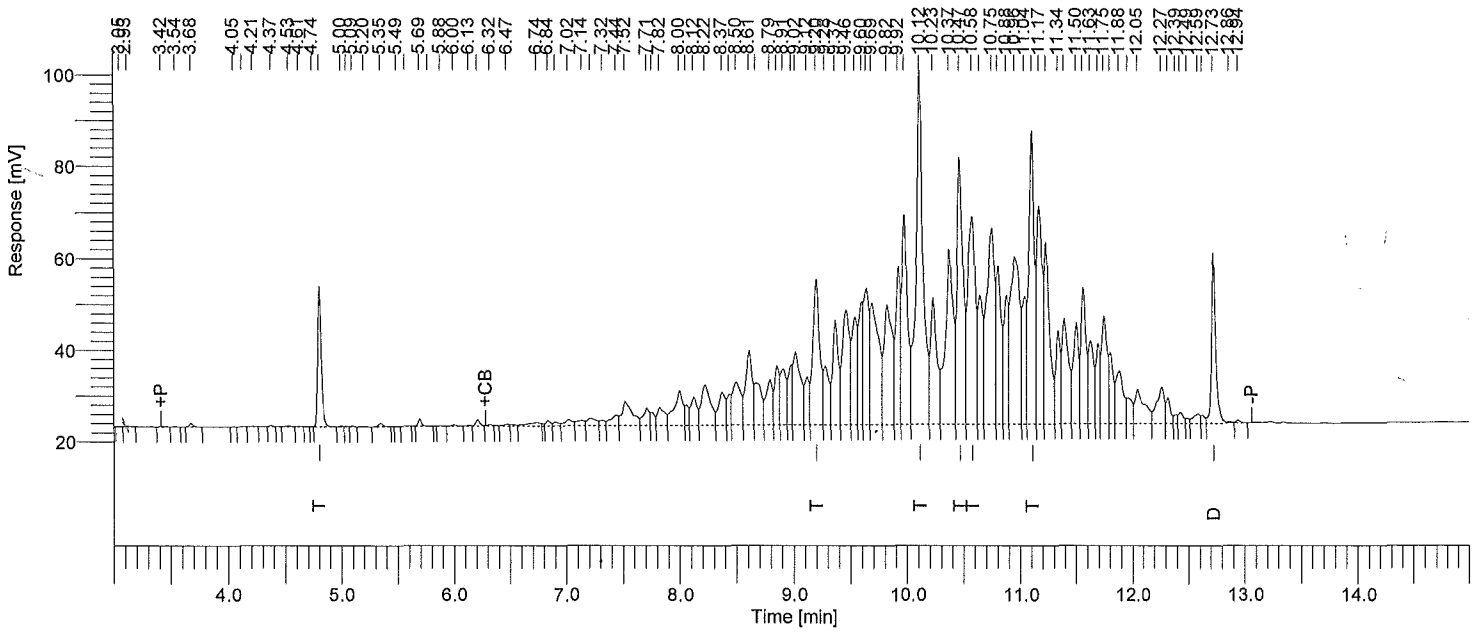

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.80	Tetrachloro-m-xylene	70848	0.0201227	0.0201227	0.0200000	100.6
9.20	Toxaphene-1	136681	2.0539225	2.0539225	2.0000000	102.7
10.12	Toxaphene-2	329104	2.0271527	2.0271527	2.0000000	101.4
10.47	Toxaphene-3	226777	2.0469780	2.0469780	2.0000000	102.3
10.58	Toxaphene-4	213593	2.0611357	2.0611357	2.0000000	103.1
11.11	Toxaphene-5	219707	2.0394443	2.0394443	2.0000000	102.0
12.73	Decachlorobiphenyl	95417	0.0397439	0.0397439	0.0400000	99.4

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:24
Operator	: sagers	Sample Name	: TOXAPH4A2
Sample Number	: 009	Study	: 26380
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/10/2015 18:48:38	Dilution Factor	: 1.00
		Cycle	: 9

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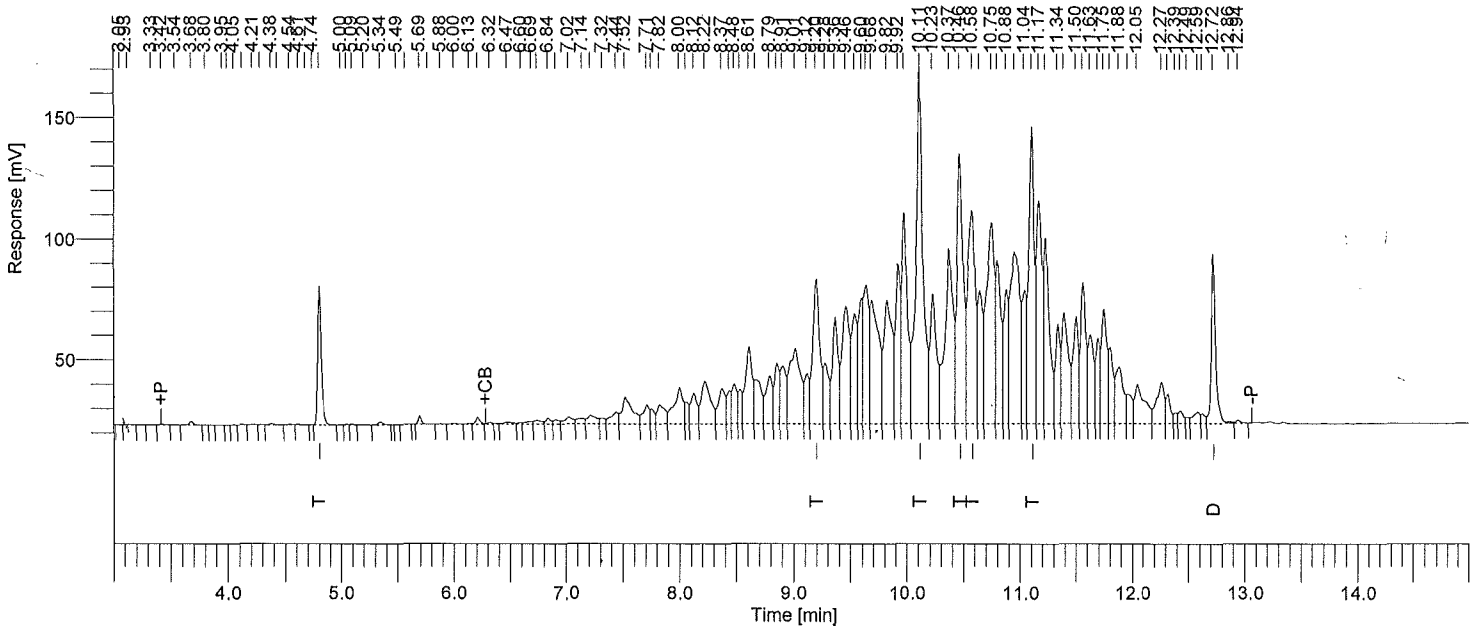

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	132026	0.0374990
9.20	Toxaphene-1	260964	3.9215289
10.11	Toxaphene-2	631435	3.8893875
10.46	Toxaphene-3	436781	3.9425523
10.58	Toxaphene-4	410855	3.9646812
11.11	Toxaphene-5	422205	3.9191438
12.72	Decachlorobiphenyl	180572	0.0752135

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:26
Operator	: sagers	Sample Name	: TOXAPH5A2
Sample Number	: 010	Study	: 26381
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/10/2015 19:09:10	Dilution Factor	: 1.00
		Cycle	: 10

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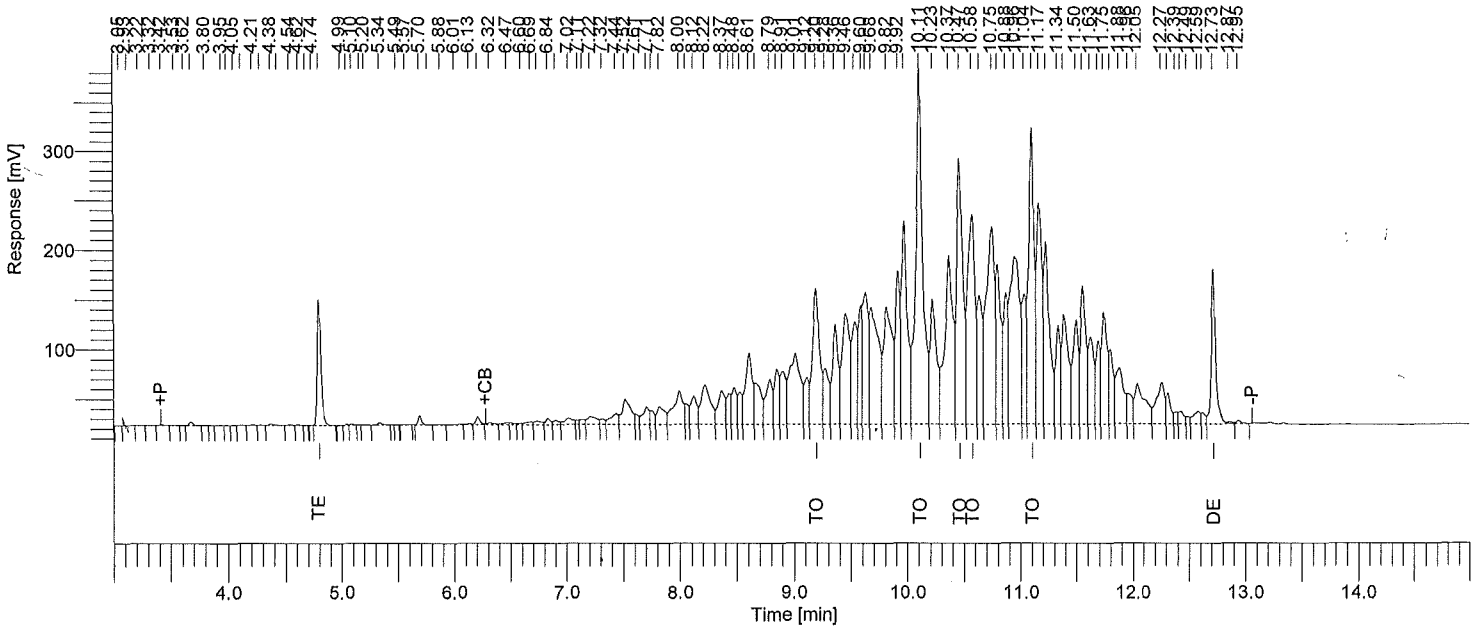

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	294494	0.0836442
9.20	Toxaphene-1	596542	8.9642957
10.11	Toxaphene-2	1507531	9.2857923
10.47	Toxaphene-3	1041526	9.4012134
10.58	Toxaphene-4	982334	9.4793525
11.11	Toxaphene-5	1029364	9.5551353
12.73	Decachlorobiphenyl	413057	0.1720499

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:29
Operator	: sagers	Sample Name	: INDC1A2
Sample Number	: 011	Study	: 26382
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 19:29:26	Cycle	: 11

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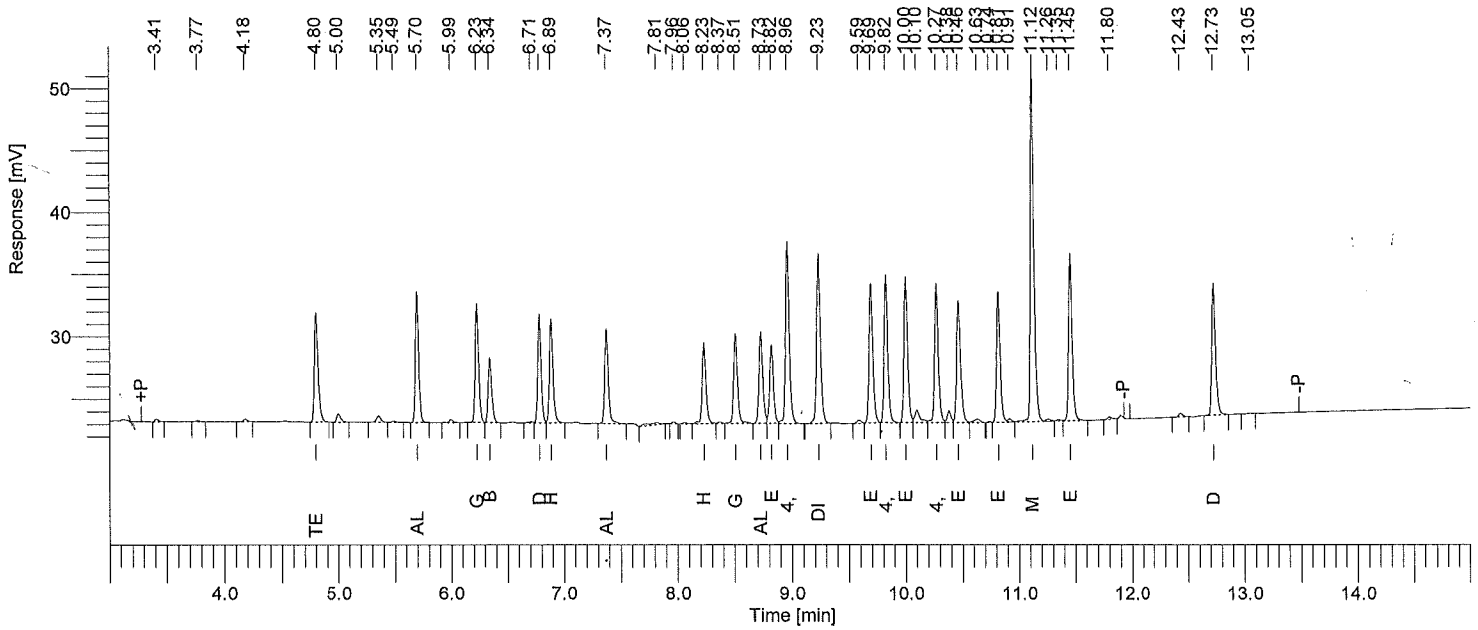

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	19698	0.0057763
5.70	alpha-BHC	20992	0.0049736
6.23	gamma-BHC	19759	0.0050984
6.34	beta-BHC	11512	0.0055786
6.78	delta-BHC	18046	0.0049512
6.89	Heptachlor	18276	0.0051619
7.37	Aldrin	16742	0.0049957
8.23	Heptachlor epoxide	14995	0.0049553
8.51	gamma-Chlordane	16867	0.0050838
8.73	alpha-Chlordane	16709	0.0051872
8.82	Endosulfan I	14412	0.0049995
8.96	4,4'-DDE	32891	0.0105340
9.23	Dieldrin	31850	0.0103931
9.69	Endrin	25364	0.0104052
9.82	4,4'-DDD	26038	0.0103957
10.00	Endosulfan II	26543	0.0105634
10.27	4,4'-DDT	24770	0.0104591
10.46	Endrin aldehyde	23864	0.0113944
10.81	Endosulfan sulfate	22689	0.0105113
11.12	Methoxychlor	60973	0.0549339
11.45	Endrin ketone	29691	0.0110313
12.73	Decachlorobiphenyl	24941	0.0121270

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:31
Operator	: sagers	Sample Name	: INDC2A2
Sample Number	: 012	Study	: 26383
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/10/2015 19:49:58	Dilution Factor	: 1.00
		Cycle	: 12

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Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150610\31_RPT_2UL\31_som_std_b.rpt
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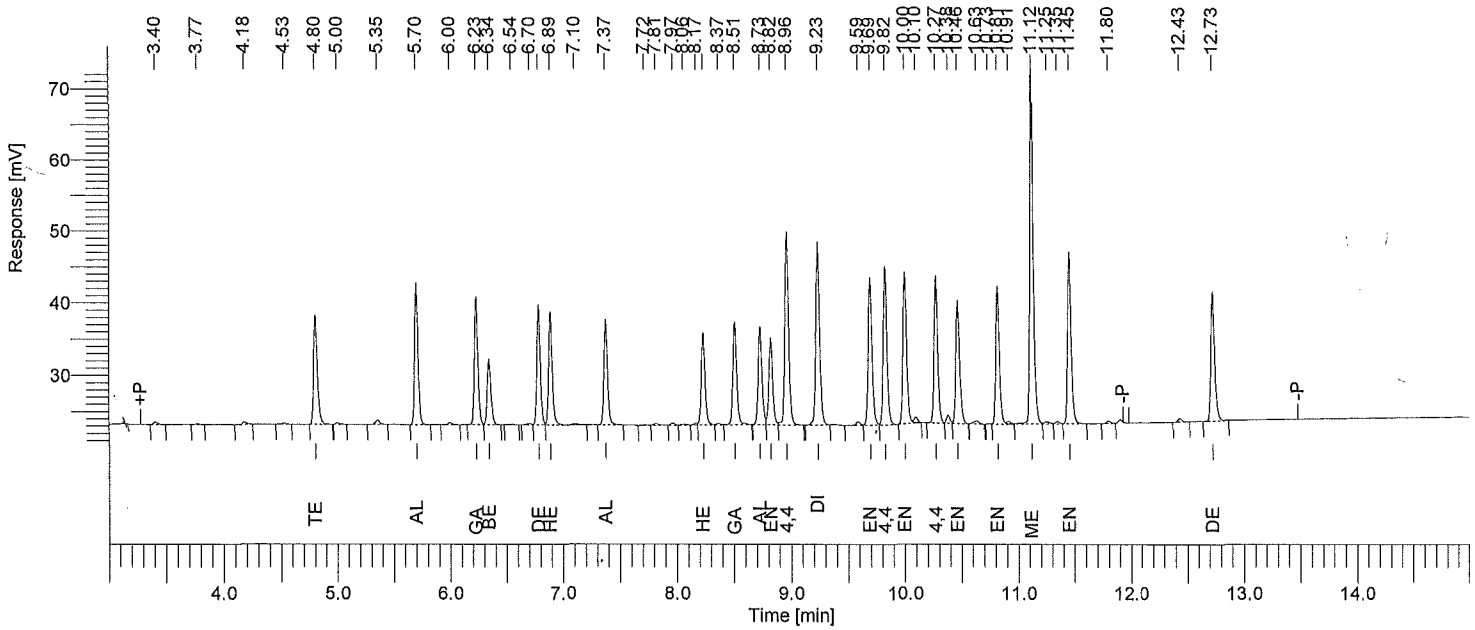

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	34634	0.0101562
5.70	alpha-BHC	40408	0.0095740
6.23	gamma-BHC	37704	0.0097288
6.34	beta-BHC	20871	0.0101138
6.78	delta-BHC	35128	0.0096380
6.89	Heptachlor	34632	0.0097815
7.37	Aldrin	32109	0.0095810
8.23	Heptachlor epoxide	29289	0.0096787
8.51	gamma-Chlordane	33306	0.0100388
8.73	alpha-Chlordane	31506	0.0097804
8.82	Endosulfan I	27807	0.0096464
8.96	4,4'-DDE	61106	0.0195706
9.23	Dieldrin	59322	0.0193576
9.69	Endrin	47582	0.0195199
9.82	4,4'-DDD	49696	0.0198416
10.00	Endosulfan II	48256	0.0192042
10.27	4,4'-DDT	44163	0.0186474
10.46	Endrin aldehyde	40824	0.0194923
10.81	Endosulfan sulfate	41371	0.0191662
11.12	Methoxychlor	105088	0.0946791
11.45	Endrin ketone	52338	0.0194455
12.73	Decachlorobiphenyl	41575	0.0202152

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:34
Operator	: sagers	Sample Name	: INDC3A2
Sample Number	: 013	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 20:10:14	Cycle	: 13

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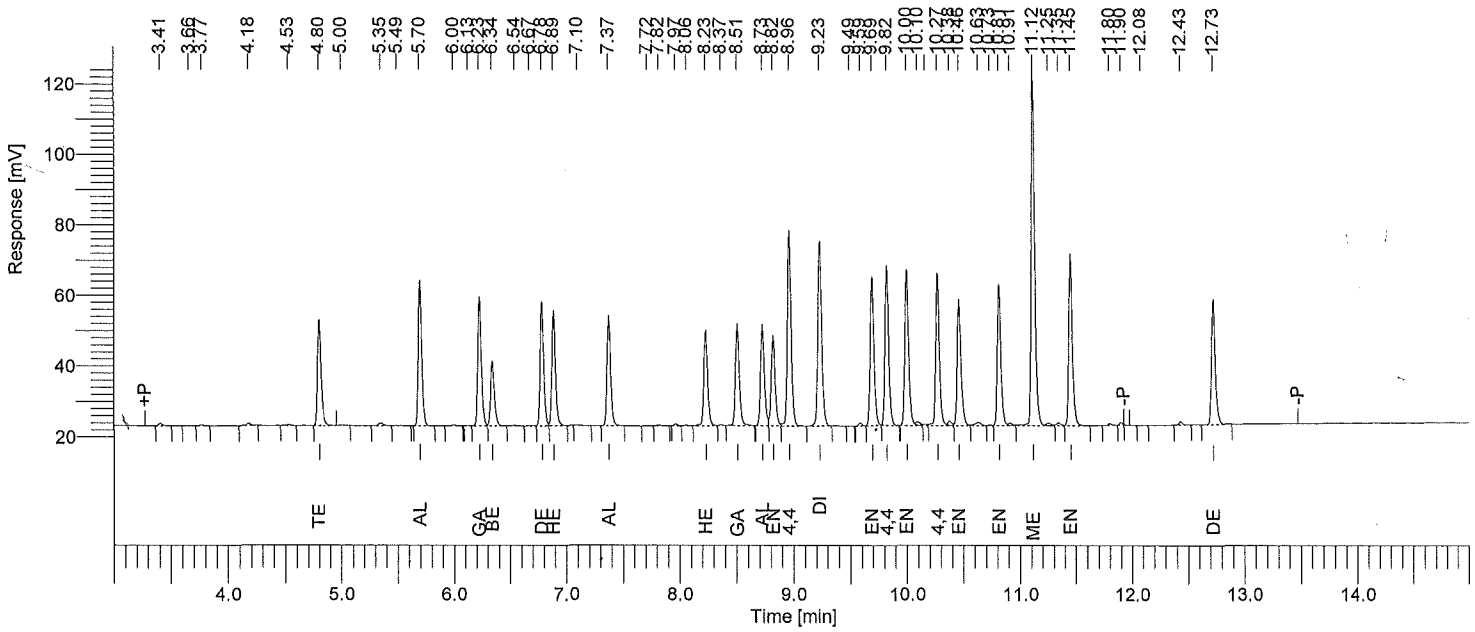

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.80	Tetrachloro-m-xylene	68906	0.0202062	0.0202062	0.0200000	101.0
5.70	alpha-BHC	87550	0.0207435	0.0207435	0.0200000	103.7
6.23	gamma-BHC	80491	0.0207695	0.0207695	0.0200000	103.8
6.34	beta-BHC	42435	0.0205631	0.0205631	0.0200000	102.8
6.78	delta-BHC	75928	0.0208323	0.0208323	0.0200000	104.2
6.89	Heptachlor	72617	0.0205099	0.0205099	0.0200000	102.5
7.37	Aldrin	69479	0.0207315	0.0207315	0.0200000	103.7
8.23	Heptachlor epoxide	63350	0.0209345	0.0209345	0.0200000	104.7
8.51	gamma-Chlordane	68230	0.0205654	0.0205654	0.0200000	102.8
8.73	alpha-Chlordane	66488	0.0206401	0.0206401	0.0200000	103.2
8.82	Endosulfan I	59588	0.0206717	0.0206717	0.0200000	103.4
8.96	4,4'-DDE	127703	0.0409000	0.0409000	0.0400000	102.3
9.23	Dieldrin	125412	0.0409233	0.0409233	0.0400000	102.3
9.69	Endrin	97796	0.0401197	0.0401197	0.0400000	100.3
9.82	4,4'-DDD	102561	0.0409481	0.0409481	0.0400000	102.4
10.00	Endosulfan II	102888	0.0409461	0.0409461	0.0400000	102.4
10.27	4,4'-DDT	96837	0.0408885	0.0408885	0.0400000	102.2
10.46	Endrin aldehyde	85046	0.0406070	0.0406070	0.0400000	101.5
10.81	Endosulfan sulfate	87440	0.0405086	0.0405086	0.0400000	101.3
11.12	Methoxychlor	216049	0.1946486	0.1946486	0.2000000	97.3
11.45	Endrin ketone	107590	0.0399738	0.0399738	0.0400000	99.9
12.73	Decachlorobiphenyl	81441	0.0395995	0.0395995	0.0400000	99.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:36
Operator	: sagers	Sample Name	: INDC4A2
Sample Number	: 014	Study	: 26385
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/10/2015 20:30:30	Dilution Factor	: 1.00
		Cycle	: 14

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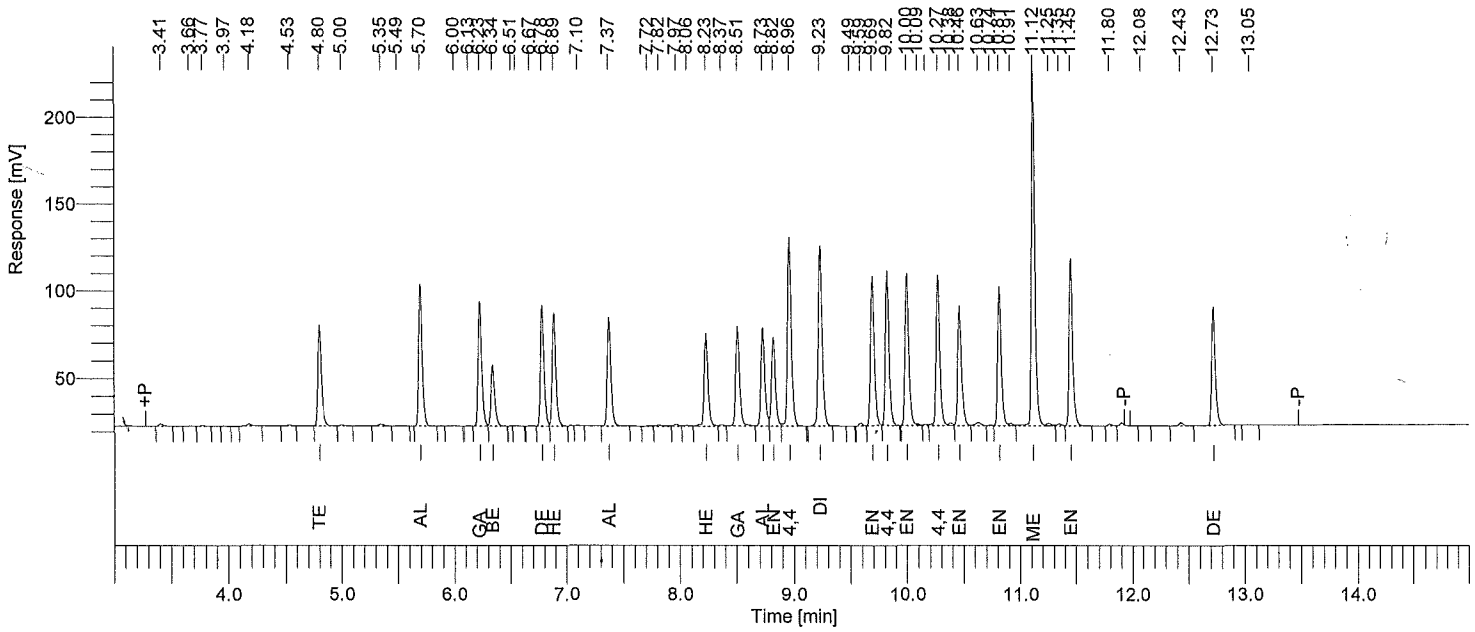

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	131520	0.0385672
5.70	alpha-BHC	174790	0.0414134
6.23	gamma-BHC	158277	0.0408409
6.34	beta-BHC	80358	0.0389402
6.78	delta-BHC	150686	0.0413437
6.89	Heptachlor	143929	0.0406512
7.37	Aldrin	139227	0.0415431
8.23	Heptachlor epoxide	125291	0.0414036
8.51	gamma-Chlordane	134433	0.0405200
8.73	alpha-Chlordane	130729	0.0405826
8.82	Endosulfan I	118919	0.0412539
8.96	4,4'-DDE	251376	0.0805094
9.23	Dieldrin	250066	0.0815995
9.69	Endrin	199319	0.0817679
9.82	4,4'-DDD	199623	0.0797009
10.00	Endosulfan II	203131	0.0808391
10.27	4,4'-DDT	192786	0.0814023
10.46	Endrin aldehyde	163009	0.0778322
10.81	Endosulfan sulfate	175594	0.0813478
11.12	Methoxychlor	434573	0.3915280
11.45	Endrin ketone	212775	0.0790544
12.73	Decachlorobiphenyl	154391	0.0750701

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:38
Operator	: sagers	Sample Name	: INDC5A2
Sample Number	: 015	Study	: 26386
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/10/2015 20:50:46	Dilution Factor	: 1.00
		Cycle	: 15

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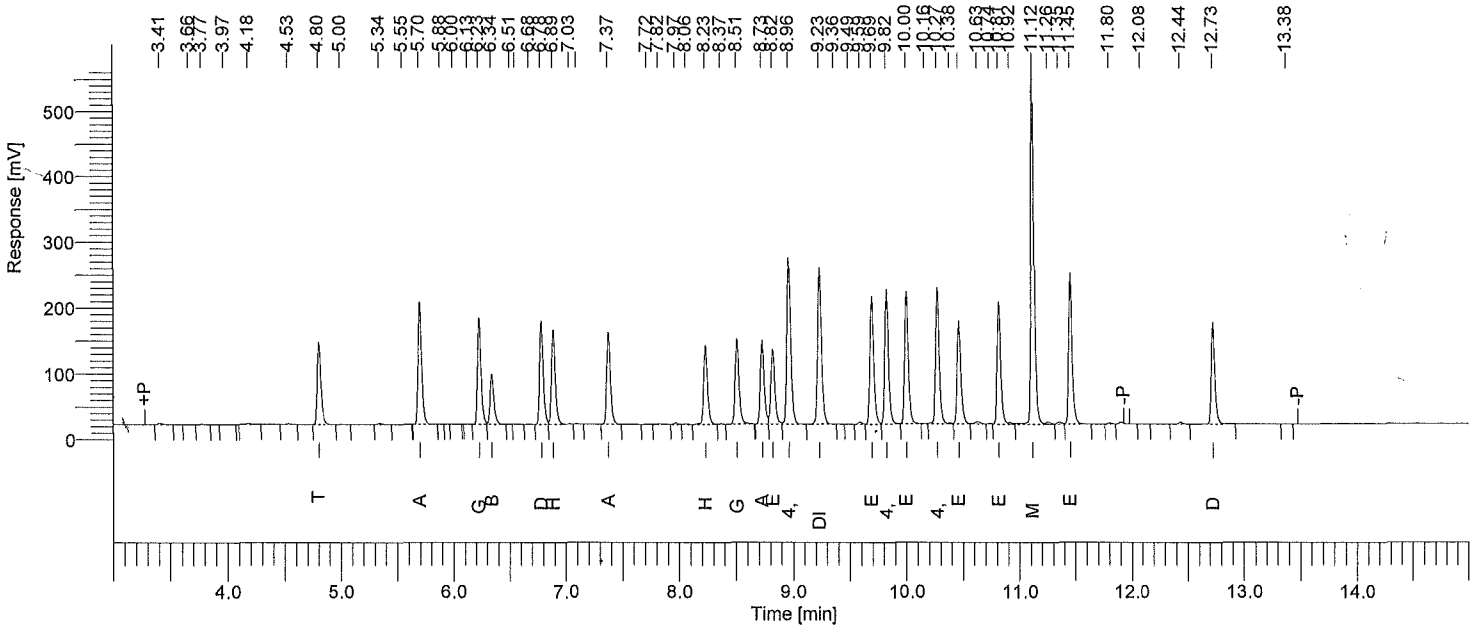

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	291439	0.0854622
5.70	alpha-BHC	411667	0.0975373
6.23	gamma-BHC	367365	0.0947930
6.34	beta-BHC	179789	0.0871230
6.78	delta-BHC	353814	0.0970759
6.89	Heptachlor	335541	0.0947698
7.37	Aldrin	324286	0.0967618
8.23	Heptachlor epoxide	290279	0.0959252
8.51	gamma-Chlordane	311226	0.0938076
8.73	alpha-Chlordane	302146	0.0937960
8.82	Endosulfan I	279768	0.0970536
8.96	4,4'-DDE	586496	0.1878398
9.23	Dieldrin	582102	0.1899463
9.69	Endrin	467239	0.1916787
9.82	4,4'-DDD	475077	0.1896775
10.00	Endosulfan II	477078	0.1898610
10.27	4,4'-DDT	465124	0.1963946
10.46	Endrin aldehyde	376095	0.1795745
10.81	Endosulfan sulfate	414875	0.1921997
11.12	Methoxychlor	1112680	1.0024674
11.45	Endrin ketone	504425	0.1874137
12.73	Decachlorobiphenyl	348877	0.1696354

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:40
Operator	: sagers	Sample Name	: PIBLKB2
Sample Number	: 016	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/10/2015 21:11:04	Dilution Factor	: 1.00
		Cycle	: 16

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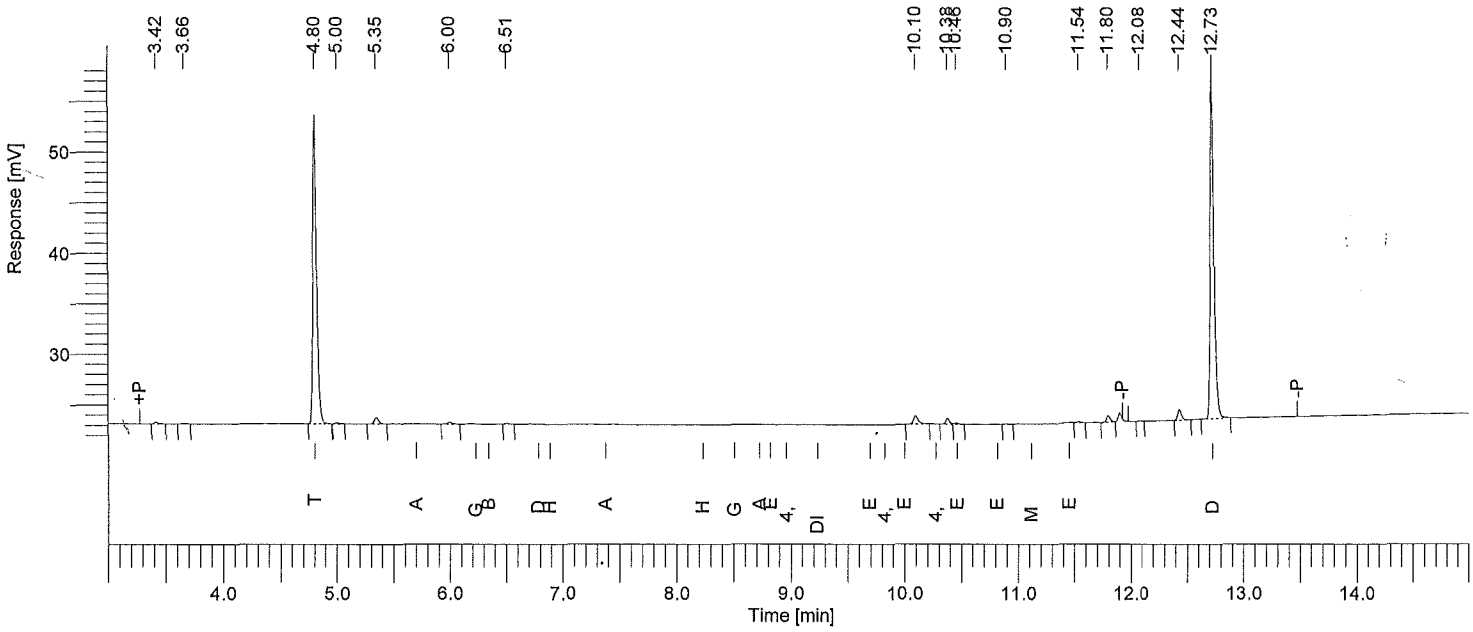

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.80	Tetrachloro-m-xylene	69407	0.020353	1	10	1.000	1.000	0.050000	0.203532	0.2000	101.8
5.70	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.23	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.34	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.78	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.89	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.37	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.23	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.51	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.73	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.82	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.96	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.23	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.69	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.82	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.00	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.27	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.46	Endrin aldehyde	349	1.67e-04	1	10	1.000	1.000	0.100000	0.001665	0.0000	-----
10.81	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.12	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.45	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.73	Decachlorobiphenyl	78909	0.038368	1	10	1.000	1.000	0.100000	0.383683	0.4000	95.9

All analytes <CRQL.

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:30:42
Operator	: sagers	Sample Name	: PEMB2
Sample Number	: 017	Study	: 26388
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/10/2015 21:31:20	Dilution Factor	: 1.00
		Cycle	: 17

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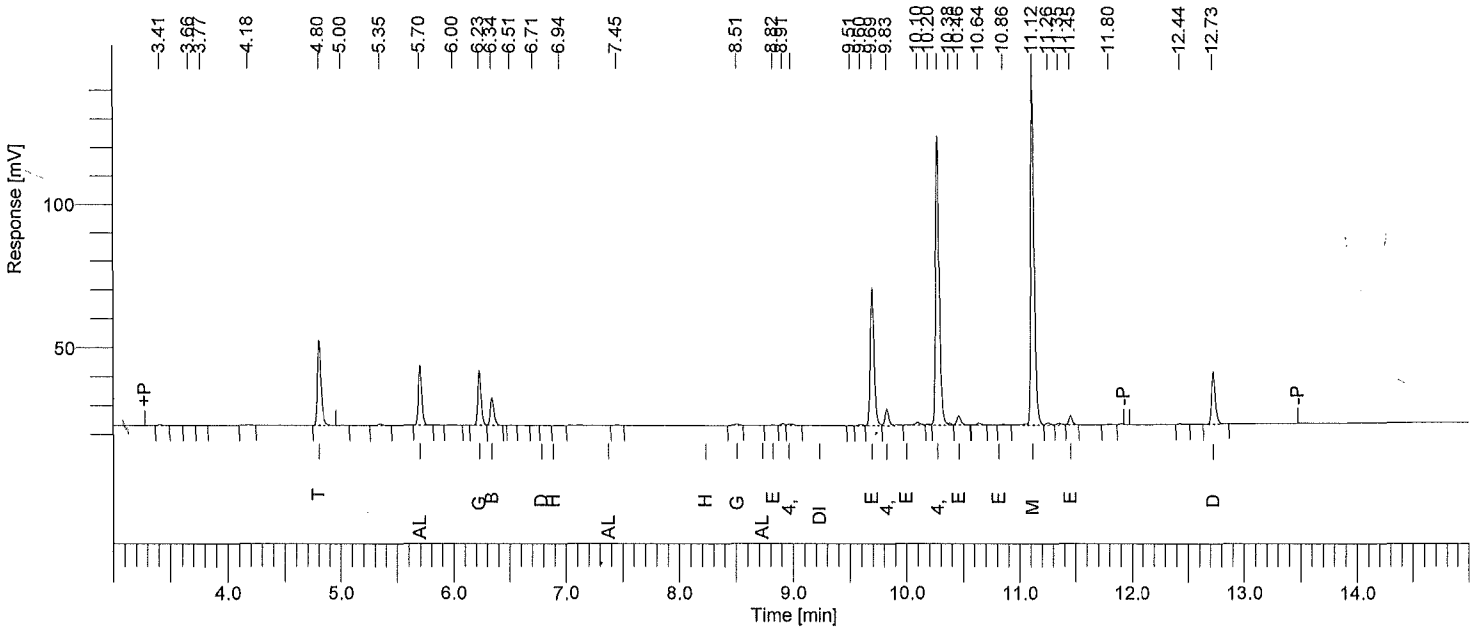

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.80	Tetrachloro-m-xylene	67246	0.0197193	0.0197193	0.02000	98.6
5.70	alpha-BHC	42365	0.0100376	0.0100376	0.01000	100.4
6.23	gamma-BHC	39650	0.0102311	0.0102311	0.01000	102.3
6.34	beta-BHC	21605	0.0104693	0.0104693	0.01000	104.7
6.78	delta-BHC	0	0.0000000	0.0000000	----------	------
6.89	Heptachlor	0	0.0000000	0.0000000	----------	------
7.37	Aldrin	0	0.0000000	0.0000000	----------	------
8.23	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.51	gamma-Chlordane	1066	0.0003213	0.0003213	0.00000	------
8.73	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.82	Endosulfan I	396	0.0001375	0.0001375	0.00000	------
8.98	4,4'-DDE	1807	0.0005788	0.0005788	0.10000	0.6
9.23	Dieldrin	0	0.0000000	0.0000000	----------	------
9.69	Endrin	113059	0.0463811	0.0463811	0.05000	92.8
9.83	4,4'-DDD	14288	0.0057046	0.0057046	0.10000	5.7
10.00	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.27	4,4'-DDT	224700	0.0948776	0.0948776	0.10000	94.9
10.46	Endrin aldehyde	8329	0.0039770	0.0039770	0.05000	8.0
10.86	Endosulfan sulfate	1034	0.0004791	0.0004791	0.00000	------
11.12	Methoxychlor	261141	0.2352744	0.2352744	0.25000	94.1
11.45	Endrin ketone	6637	0.0024659	0.0024659	0.05000	4.9
12.73	Decachlorobiphenyl	42341	0.0205875	0.0205875	0.02000	102.9
			0.4612420			809.8

06/11/2015 10:30:42 Result: \\Alsltws012\TCCS\sagers\GCE31\31150610\31150610B_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.98	4,4'-DDE	1807	0.0005788	0.0005788	0.10000	0.6
9.83	4,4'-DDD	14288	0.0057046	0.0057046	0.10000	5.7
			0.0062834			6.3

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.46	Endrin aldehyde	8329	0.0039770	0.0039770	0.05000	8.0
11.45	Endrin ketone	6637	0.0024659	0.0024659	0.05000	4.9
			0.0064429			12.9

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:27:26
Operator	: sagers	Sample Name	: FLO24680
Sample Number	: 020	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 04:09:58	Dilution Factor	: 1.00
		Cycle	: 4

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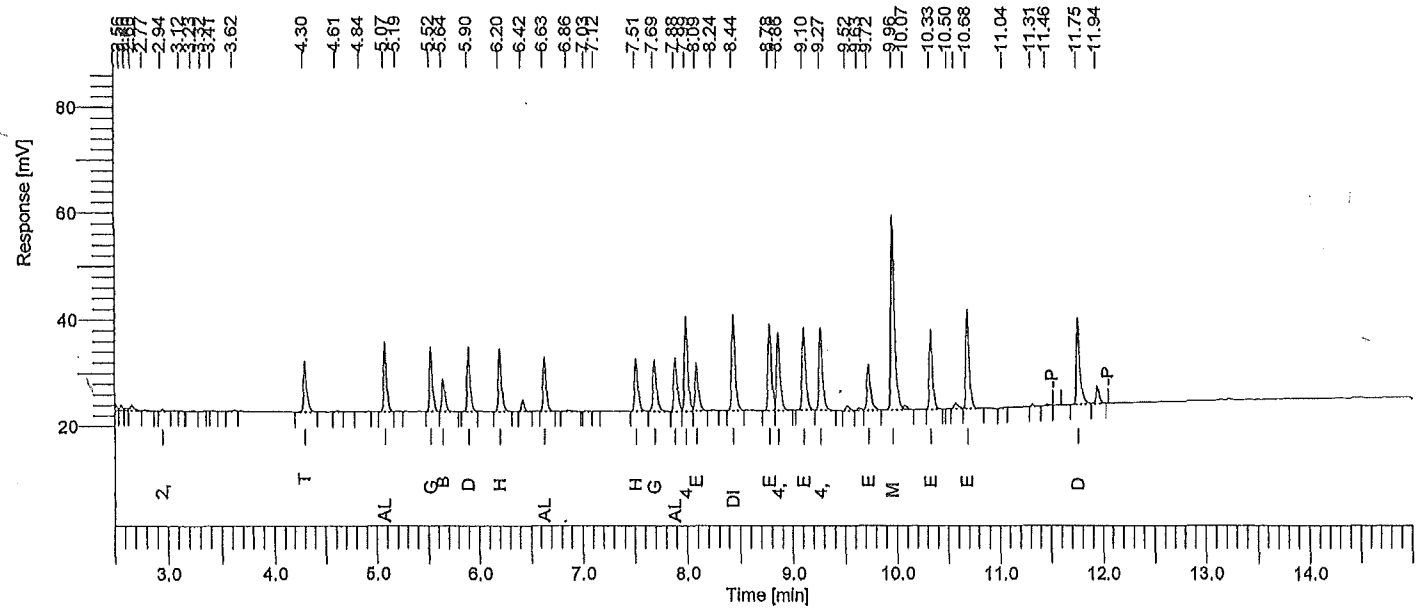

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST FLORISIL VALIDATION REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
2.94	2,4,6-Trichlorophenol	622	0.0003291	0.0003291	0.0500000	0.7
4.30	Tetrachloro-m-xylene	21737	0.0103748	0.0103748	0.0100000	103.7
5.07	alpha-BHC	25920	0.0098960	0.0098960	0.0100000	99.0
5.52	gamma-BHC	24547	0.0101501	0.0101501	0.0100000	101.5
5.64	beta-BHC	13372	0.0105385	0.0105385	0.0100000	105.4
5.90	delta-BHC	24268	0.0104283	0.0104283	0.0100000	104.3
6.20	Heptachlor	25992	0.0106074	0.0106074	0.0100000	106.1
6.63	Aldrin	21705	0.0097923	0.0097923	0.0100000	97.9
7.51	Heptachlor epoxide	22655	0.0106522	0.0106522	0.0100000	106.5
7.69	gamma-Chlordane	23032	0.0105937	0.0105937	0.0100000	105.9
7.88	alpha-Chlordane	23598	0.0105608	0.0105608	0.0100000	105.6
7.99	4,4'-DDE	40486	0.0209171	0.0209171	0.0200000	104.6
8.09	Endosulfan I	21418	0.0105319	0.0105319	0.0100000	105.3
8.44	Dieldrin	41840	0.0212793	0.0212793	0.0200000	106.4
8.78	Endrin	37075	0.0226288	0.0226288	0.0200000	113.1
8.86	4,4'-DDD	34348	0.0211190	0.0211190	0.0200000	105.6
9.10	Endosulfan II	37049	0.0209999	0.0209999	0.0200000	105.0
9.27	4,4'-DDT	36597	0.0214857	0.0214857	0.0200000	107.4
9.72	Endrin aldehyde	22173	0.0155352	0.0155352	0.0200000	77.7
9.96	Methoxychlor	93054	0.1129458	0.1129458	0.1000000	112.9
10.33	Endosulfan sulfate	34274	0.0215057	0.0215057	0.0200000	107.5
10.68	Endrin ketone	42957	0.0219026	0.0219026	0.0200000	109.5
11.75	Decachlorobiphenyl	39065	0.0233192	0.0233192	0.0200000	116.6

All Mix A analytes <= to +/-20%.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:27:31
Operator	: sagers	Sample Name	: 245TCP 0.10 UG/ML
Sample Number	: 018	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 03:27:04	Dilution Factor	: 1.00
		Cycle	: 2

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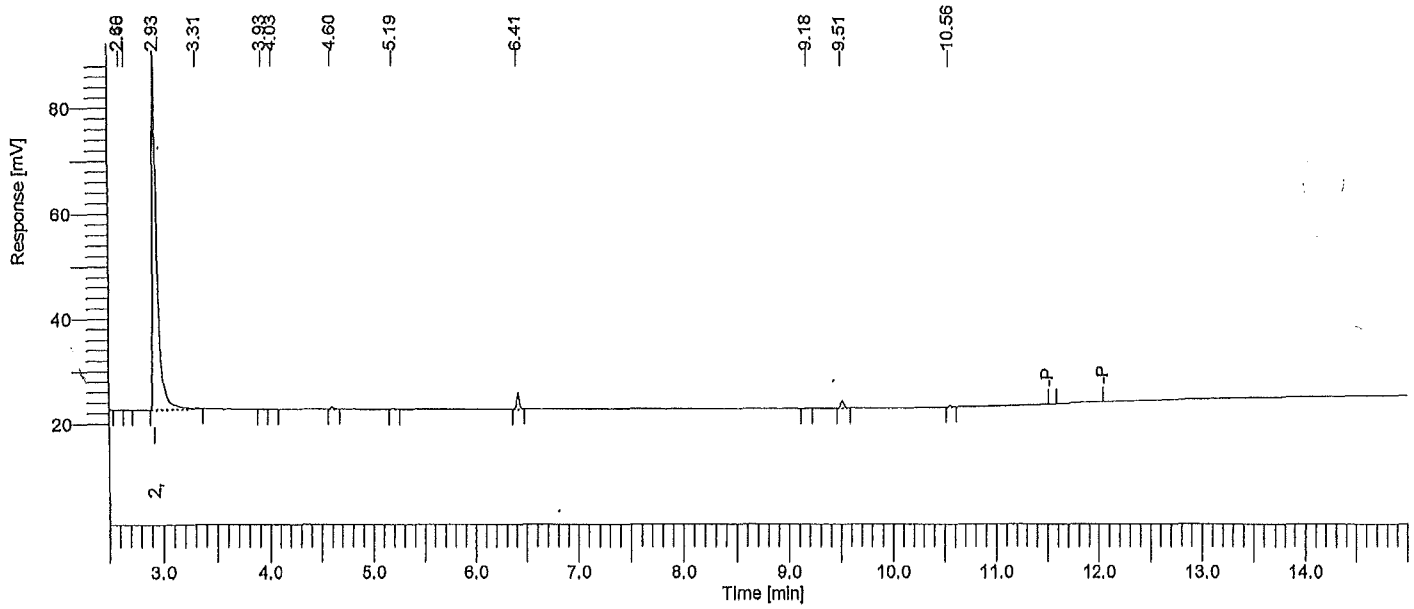

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
2.93	2,4,5-Trichlorophenol	192181	0.1016834
4.29	Tetrachloro-m-xylene	0	0.0000000
5.07	alpha-BHC	0	0.0000000
5.52	gamma-BHC	0	0.0000000
5.64	beta-BHC	0	0.0000000
5.89	delta-BHC	0	0.0000000
6.19	Heptachlor	0	0.0000000
6.63	Aldrin	0	0.0000000
7.50	Heptachlor epoxide	0	0.0000000
7.68	gamma-Chlordane	0	0.0000000
7.88	alpha-Chlordane	0	0.0000000
7.98	4,4'-DDE	0	0.0000000
8.08	Endosulfan I	0	0.0000000
8.43	Dieldrin	0	0.0000000
8.77	Endrin	0	0.0000000
8.85	4,4'-DDD	0	0.0000000
9.10	Endosulfan II	0	0.0000000
9.26	4,4'-DDT	0	0.0000000
9.72	Endrin aldehyde	0	0.0000000
9.95	Methoxychlor	0	0.0000000
10.32	Endosulfan sulfate	0	0.0000000
10.68	Endrin ketone	0	0.0000000
11.75	Decachlorobiphenyl	0	0.0000000

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:26
Operator	: sagers	Sample Name	: RESC11
Sample Number	: 004	Study	: 21564
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 22:25:44	Dilution Factor	: 1.00
		Cycle	: 3

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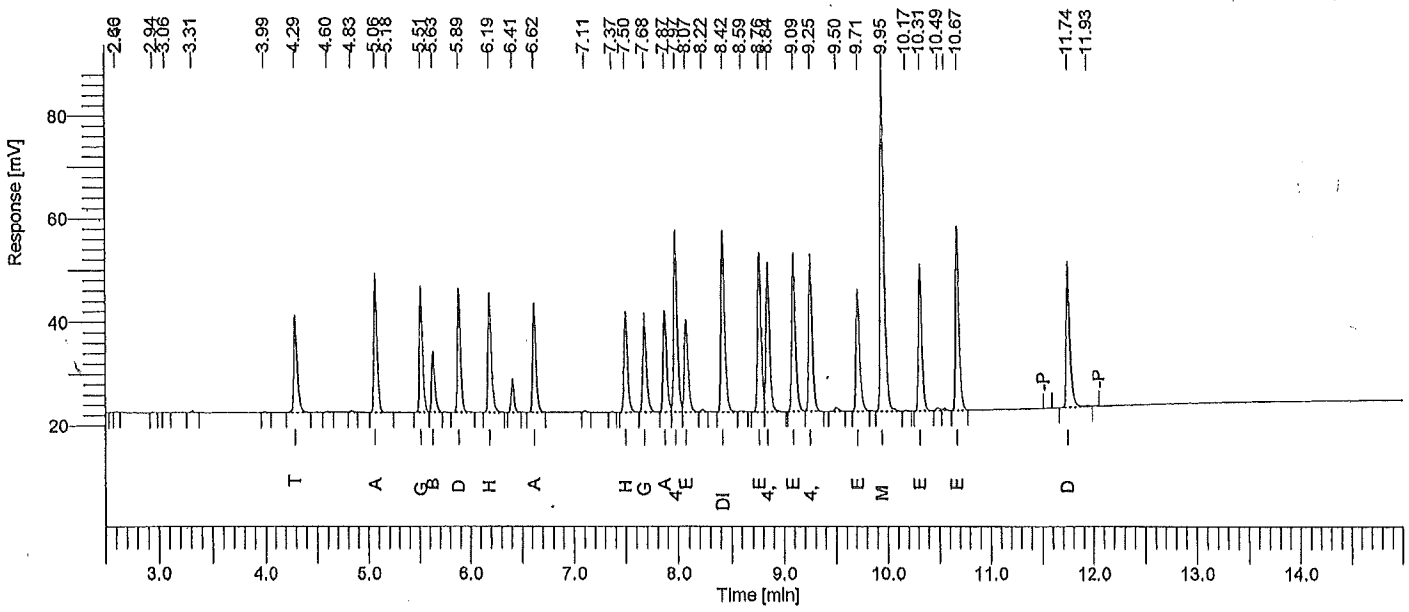

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	43632	0.0207771
5.06	alpha-BHC	56465	0.0215581
5.51	gamma-BHC	51775	0.0214091
5.63	beta-BHC	26544	0.0209191
5.89	delta-BHC	50900	0.0218724
6.19	Heptachlor	52506	0.0214278
6.62	Aldrin	47526	0.0214414
7.50	Heptachlor epoxide	45742	0.0215075
7.68	gamma-Chlordane	46316	0.0213034
7.87	alpha-Chlordane	47532	0.0212724
7.97	4,4'-DDE	83606	0.0431953
8.07	Endosulfan I	43389	0.0213360
8.42	Dieldrin	85010	0.0432348
8.76	Endrin	73658	0.0449576
8.84	4,4'-DDD	70640	0.0434328
9.09	Endosulfan II	75730	0.0429251
9.25	4,4'-DDT	73964	0.0434236
9.71	Endrin aldehyde	60951	0.0427042
9.95	Methoxychlor	169496	0.2057268
10.31	Endosulfan sulfate	67868	0.0425848
10.67	Endrin ketone	83383	0.0425147
11.74	Decachlorobiphenyl	68265	0.0407494

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:29
Operator	: sagers	Sample Name	: PEM11
Sample Number	: 005	Study	: 21568
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/09/2015 22:47:22	Cycle	: 4

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150309\21150309A_005.raw <Modified>
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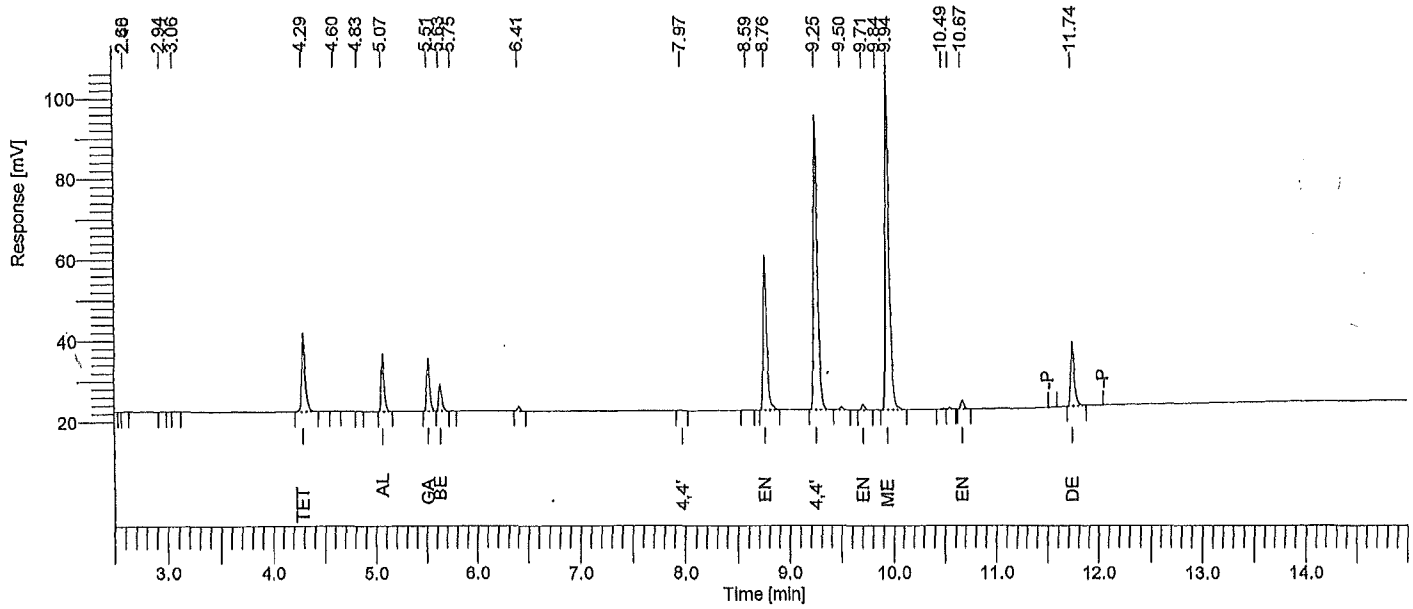

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.29	Tetrachloro-m-xylene	44505	0.0212417	0.0212417	0.02000	106.2
5.07	alpha-BHC	27961	0.0106756	0.0106756	0.01000	106.8
5.51	gamma-BHC	26623	0.0110088	0.0110088	0.01000	110.1
5.63	beta-BHC	14476	0.0114080	0.0114080	0.01000	114.1
5.89	delta-BHC	0	0.0000000	0.0000000	---------	------
6.19	Heptachlor	0	0.0000000	0.0000000	---------	------
6.63	Aldrin	0	0.0000000	0.0000000	---------	------
7.50	Heptachlor epoxide	0	0.0000000	0.0000000	---------	------
7.68	gamma-Chlordane	0	0.0000000	0.0000000	---------	------
7.88	alpha-Chlordane	0	0.0000000	0.0000000	---------	------
7.97	4,4'-DDE	280	0.0001446	0.0001446	0.10000	0.1
8.08	Endosulfan I	0	0.0000000	0.0000000	---------	------
8.43	Dieldrin	0	0.0000000	0.0000000	---------	------
8.76	Endrin	95162	0.0580827	0.0580827	0.05000	116.2
8.85	4,4'-DDD	0	0.0000000	0.0000000	---------	------
9.10	Endosulfan II	0	0.0000000	0.0000000	---------	------
9.25	4,4'-DDT	185344	0.1088132	0.1088132	0.10000	108.8
9.71	Endrin aldehyde	3170	0.0022207	0.0022207	0.05000	4.4
9.94	Methoxychlor	216390	0.2626459	0.2626459	0.25000	105.1
10.32	Endosulfan sulfate	0	0.0000000	0.0000000	---------	------
10.67	Endrin ketone	4385	0.0022358	0.0022358	0.05000	4.5
11.74	Decachlorobiphenyl	37809	0.0225693	0.0225693	0.02000	112.8
			0.5110464			889.1

06/09/2015 14:38:29 Result: \\Alsltws012\TCCS\sagers\GCE21\21150309\21150309A_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.97	4,4'-DDE	280	0.0001446	0.0001446	0.10000	0.1
8.85	4,4'-DDD	0	0.0000000	0.0000000	---------	------
			0.0001446			0.1

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.71	Endrin aldehyde	3170	0.0022207	0.0022207	0.05000	4.4
10.67	Endrin ketone	4385	0.0022358	0.0022358	0.05000	4.5
			0.0044566			8.9

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:31
Operator	: sagers	Sample Name	: TOXAPH111
Sample Number	: 006	Study	: 21557
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 23:09:00	Dilution Factor	: 1.00
		Cycle	: 5

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Calib Method : \\AIsltws012\TCCS\sagers\GCE21\21150309\21_som_tox_a.mth from \\AIsltws012\TCCS\sagers\GCE21\21150309\21150309A_006.rst
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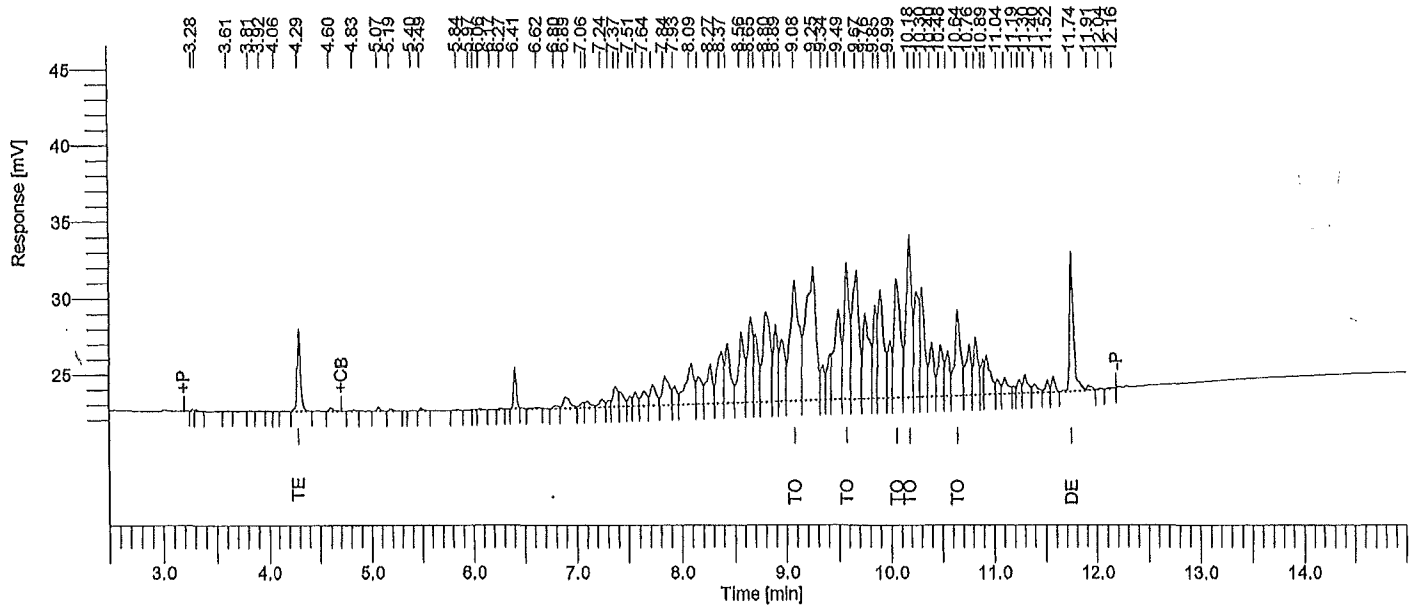

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	12194	0.0056291
9.08	Toxaphene-1	46576	0.5288355
9.57	Toxaphene-2	32836	0.5135229
10.05	Toxaphene-3	33935	0.5044942
10.18	Toxaphene-4	41692	0.5303843
10.64	Toxaphene-5	22372	0.4808734
11.74	Decachlorobiphenyl	23935	0.0120142

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:33
Operator	: sagers	Sample Name	: TOXAPH211
Sample Number	: 007	Study	: 21558
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/09/2015 23:30:38	Cycle	: 6

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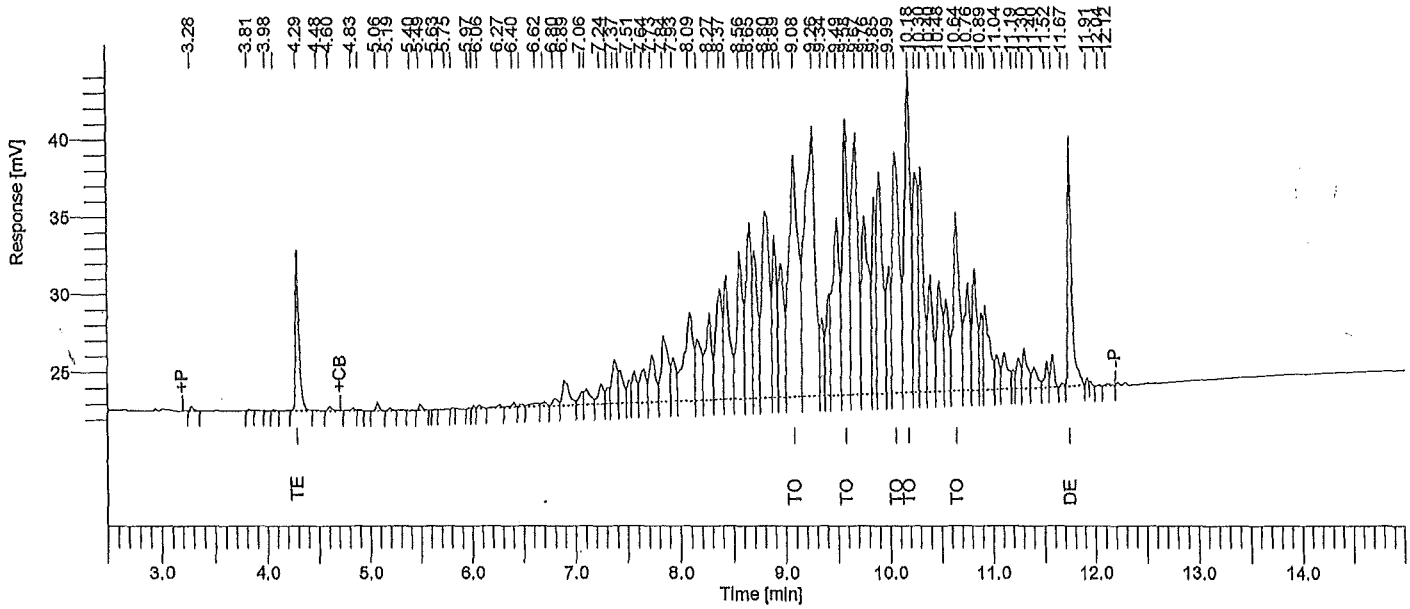

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	23366	0.0107863
9.08	Toxaphene-1	94849	1.0769371
9.58	Toxaphene-2	67898	1.0618387
10.05	Toxaphene-3	71072	1.0565817
10.18	Toxaphene-4	83867	1.0669208
10.64	Toxaphene-5	47203	1.0146190
11.74	Decachlorobiphenyl	41773	0.0209678

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:37
Operator	: sagers	Sample Name	: TOXAPH311
Sample Number	: 008	Study	: 21559
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/09/2015 23:52:10	Cycle	: 7

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Report Format File: \\Alsltws012\TCCS\sagers\gce21\21150309\21_rpt_2ul\21_som12_ccv_a.rpt
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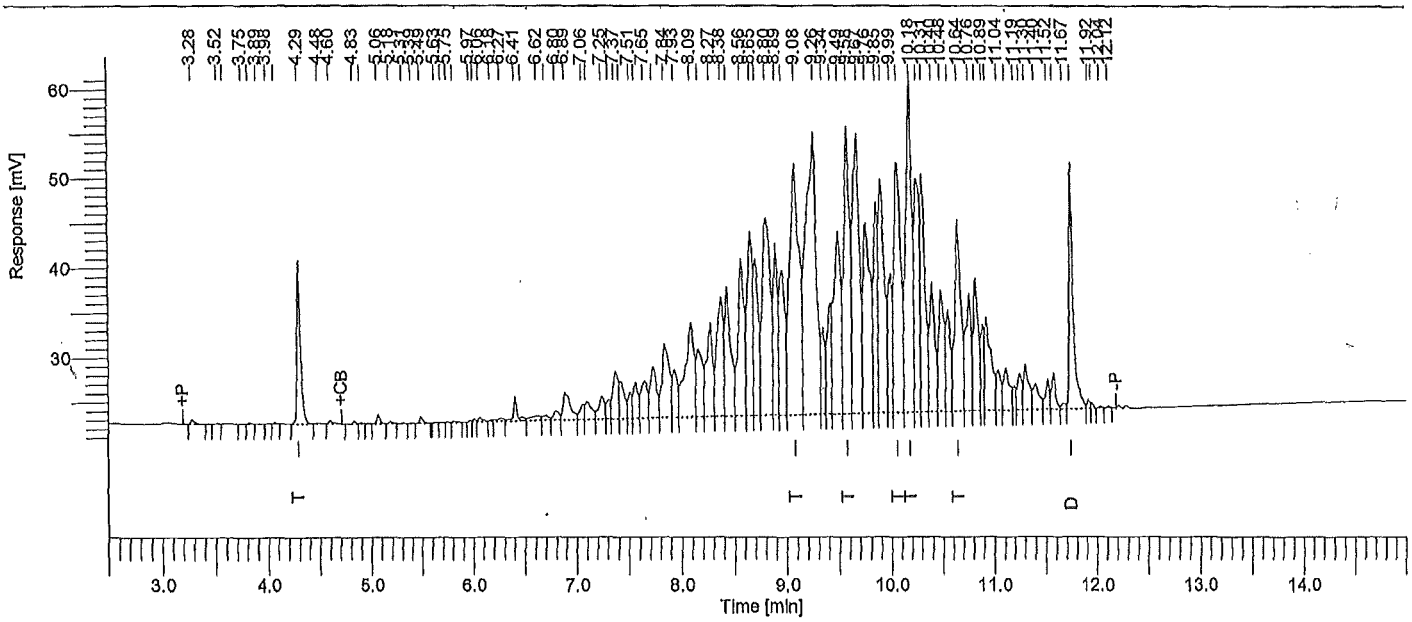

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.29	Tetrachloro-m-xylene	42909	0.0198082	0.0198082	0.0200000	99.0
9.08	Toxaphene-1	174390	1.9800661	1.9800661	2.0000000	99.0
9.58	Toxaphene-2	127428	1.9928202	1.9928202	2.0000000	99.6
10.06	Toxaphene-3	132989	1.9770560	1.9770560	2.0000000	98.9
10.18	Toxaphene-4	153922	1.9581365	1.9581365	2.0000000	97.9
10.64	Toxaphene-5	91569	1.9682627	1.9682627	2.0000000	98.4
11.74	Decachlorobiphenyl	74908	0.0375994	0.0375994	0.0400000	94.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:40
Operator	: sagers	Sample Name	: TOXAPH411
Sample Number	: 009	Study	: 21560
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 00:13:45	Cycle	: 8

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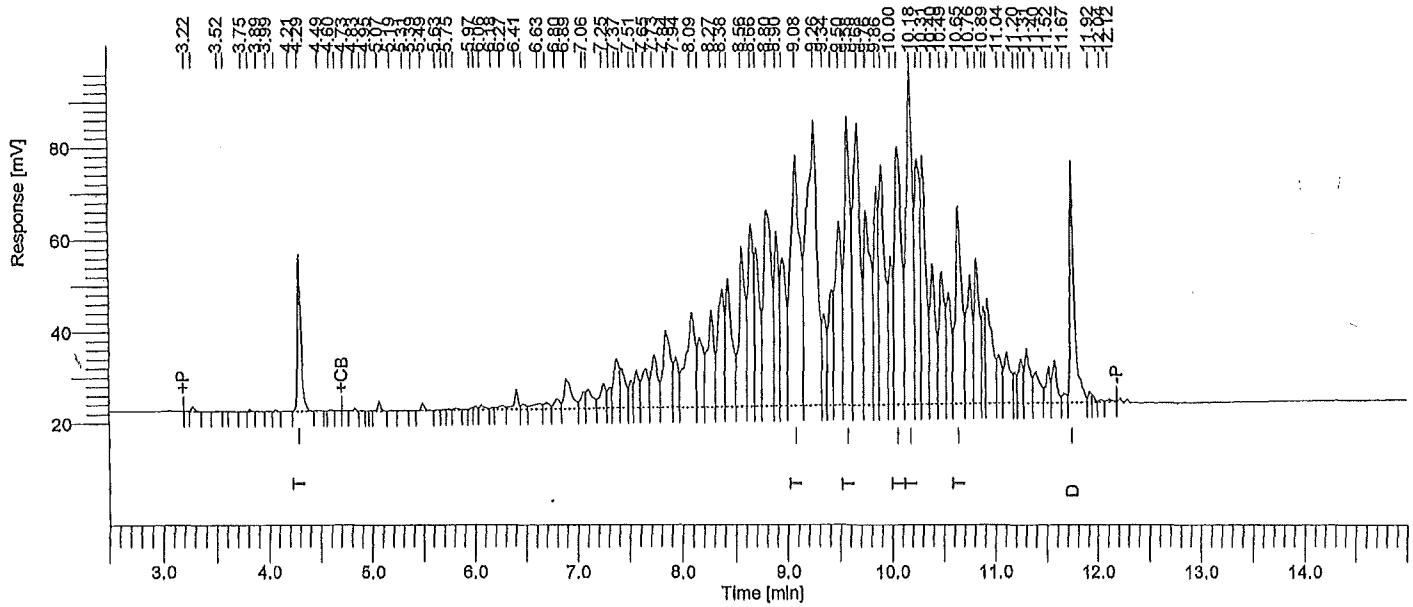

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	81189	0.0374797
9.08	Toxaphene-1	341768	3.8805101
9.58	Toxaphene-2	252805	3.9535732
10.06	Toxaphene-3	267921	3.9829841
10.18	Toxaphene-4	306552	3.8998251
10.65	Toxaphene-5	190811	4.1014645
11.75	Decachlorobiphenyl	148234	0.0744049

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:42
Operator	: sagers	Sample Name	: TOXAPH511
Sample Number	: 010	Study	: 21561
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 00:35:15	Cycle	: 9

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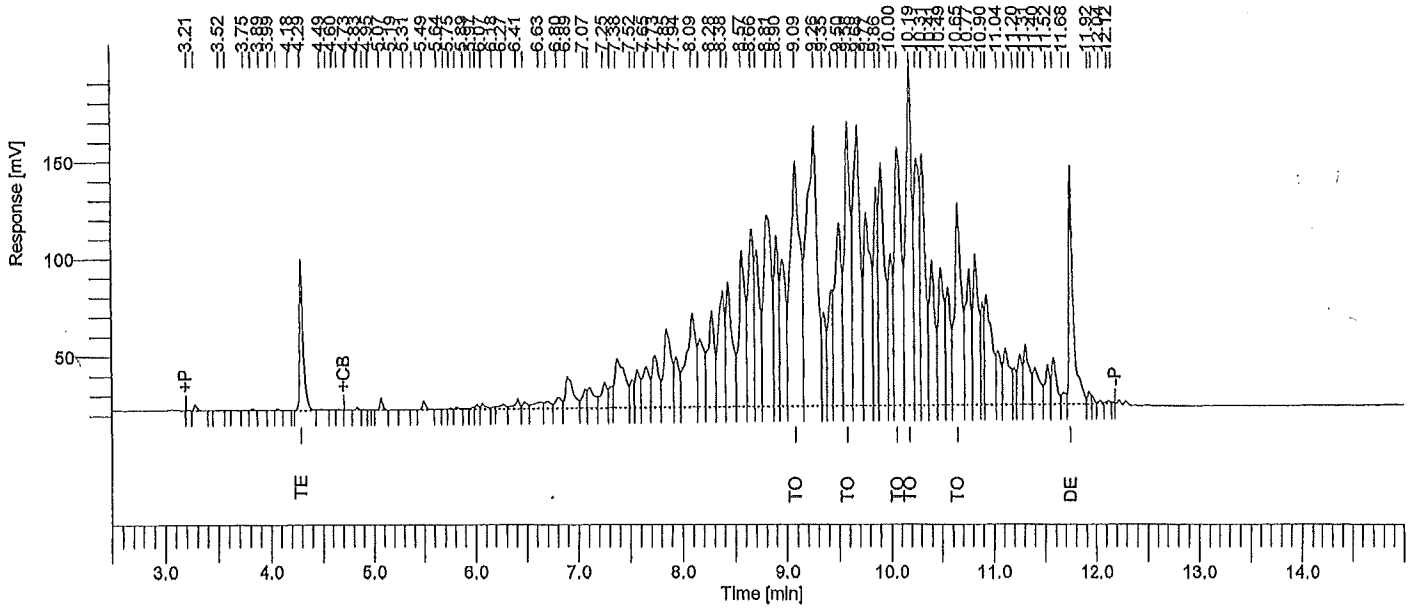

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	188062	0.0868157
9.09	Toxaphene-1	797264	9.0523124
9.58	Toxaphene-2	592317	9.2631201
10.06	Toxaphene-3	639135	9.5015584
10.19	Toxaphene-4	721833	9.1828599
10.65	Toxaphene-5	471803	10.1413671
11.75	Decachlorobiphenyl	350695	0.1760281

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:45
Operator	: sagers	Sample Name	: INDC111
Sample Number	: 011	Study	: 21562
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 00:56:45	Dilution Factor	: 1.00
		Cycle	: 10

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150309\21_RPT_2UL\21_som_std_a.rpt
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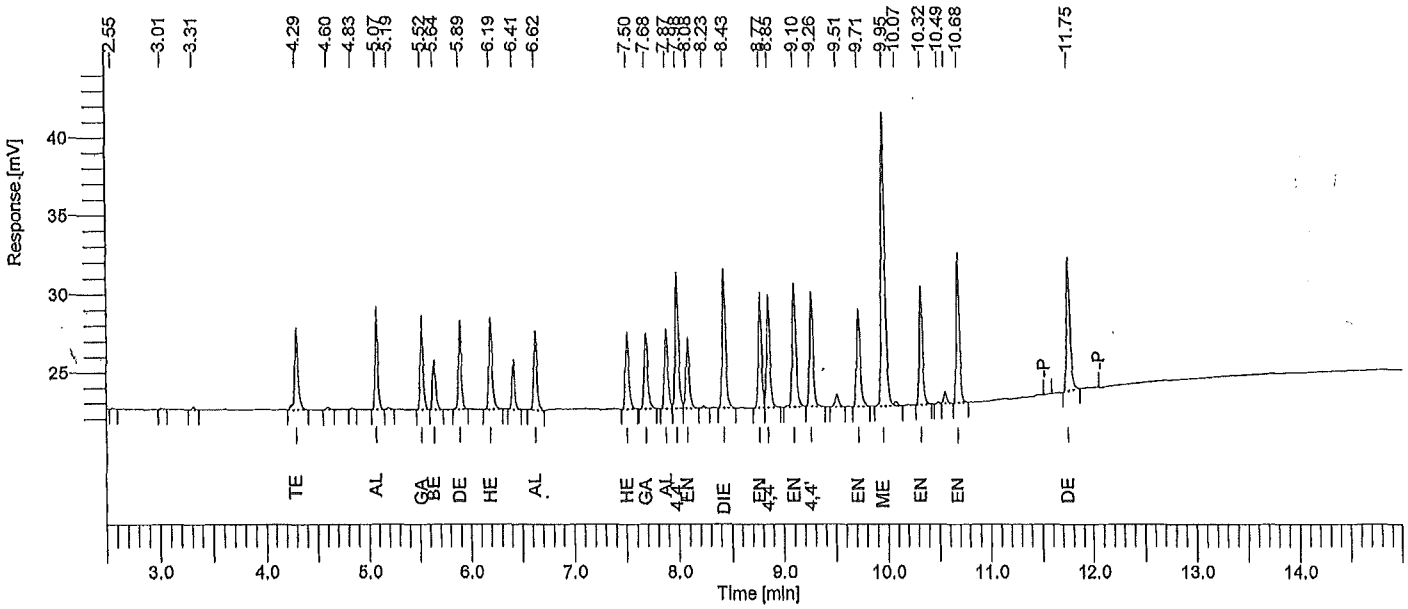

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	12047	0.0057497
5.07	alpha-BHC	12449	0.0047529
5.52	gamma-BHC	11844	0.0048974
5.64	beta-BHC	6845	0.0053944
5.89	delta-BHC	10877	0.0046740
6.19	Heptachlor	12811	0.0052283
6.62	Aldrin	10952	0.0049411
7.50	Heptachlor epoxide	11075	0.0052076
7.68	gamma-Chlordane	11273	0.0051851
7.87	alpha-Chlordane	11827	0.0052930
7.98	4,4'-DDE	19123	0.0098797
8.08	Endosulfan I	10469	0.0051482
8.43	Dieldrin	19971	0.0101569
8.77	Endrin	16624	0.0101466
8.85	4,4'-DDD	16122	0.0099127
9.10	Endosulfan II	18866	0.0107047
9.26	4,4'-DDT	16884	0.0099123
9.71	Endrin aldehyde	15586	0.0109202
9.95	Methoxychlor	46653	0.0566259
10.32	Endosulfan sulfate	16824	0.0105566
10.68	Endrin ketone	21156	0.0107869
11.75	Decachlorobiphenyl	19928	0.0118959

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:48
Operator	: sagers	Sample Name	: INDC211
Sample Number	: 012	Study	: 21563
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 01:18:17	Cycle	: 11

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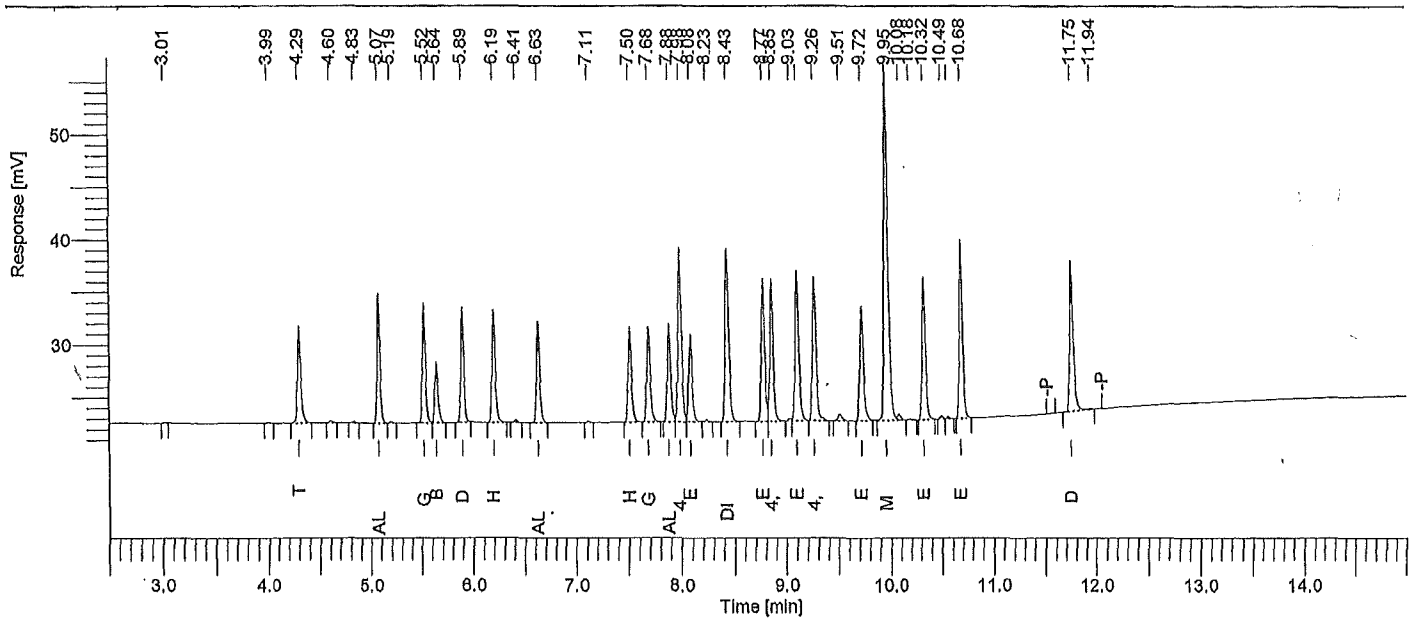

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area (µV·s)	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	20419	0.0097456
5.07	alpha-BHC	24204	0.0092410
5.52	gamma-BHC	22712	0.0093914
5.64	beta-BHC	12422	0.0097892
5.89	delta-BHC	21402	0.0091966
6.19	Heptachlor	23590	0.0096273
6.63	Aldrin	20623	0.0093040
7.50	Heptachlor epoxide	20551	0.0096631
7.68	gamma-Chlordane	20937	0.0096300
7.88	alpha-Chlordane	21870	0.0097874
7.98	4,4'-DDE	37255	0.0192479
8.08	Endosulfan I	19486	0.0095819
8.43	Dieldrin	38031	0.0193419
8.77	Endrin	31068	0.0189625
8.85	4,4'-DDD	31289	0.0192380
9.10	Endosulfan II	34311	0.0194480
9.26	4,4'-DDT	32444	0.0190477
9.72	Endrin aldehyde	27329	0.0191478
9.95	Methoxychlor	82055	0.0995953
10.32	Endosulfan sulfate	30956	0.0194242
10.68	Endrin ketone	38541	0.0196509
11.75	Decachlorobiphenyl	34282	0.0204640

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:52
Operator	: sagers	Sample Name	: INDC311
Sample Number	: 013	Study	: 21564
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 01:39:45	Dilution Factor	: 1.00
		Cycle	: 12

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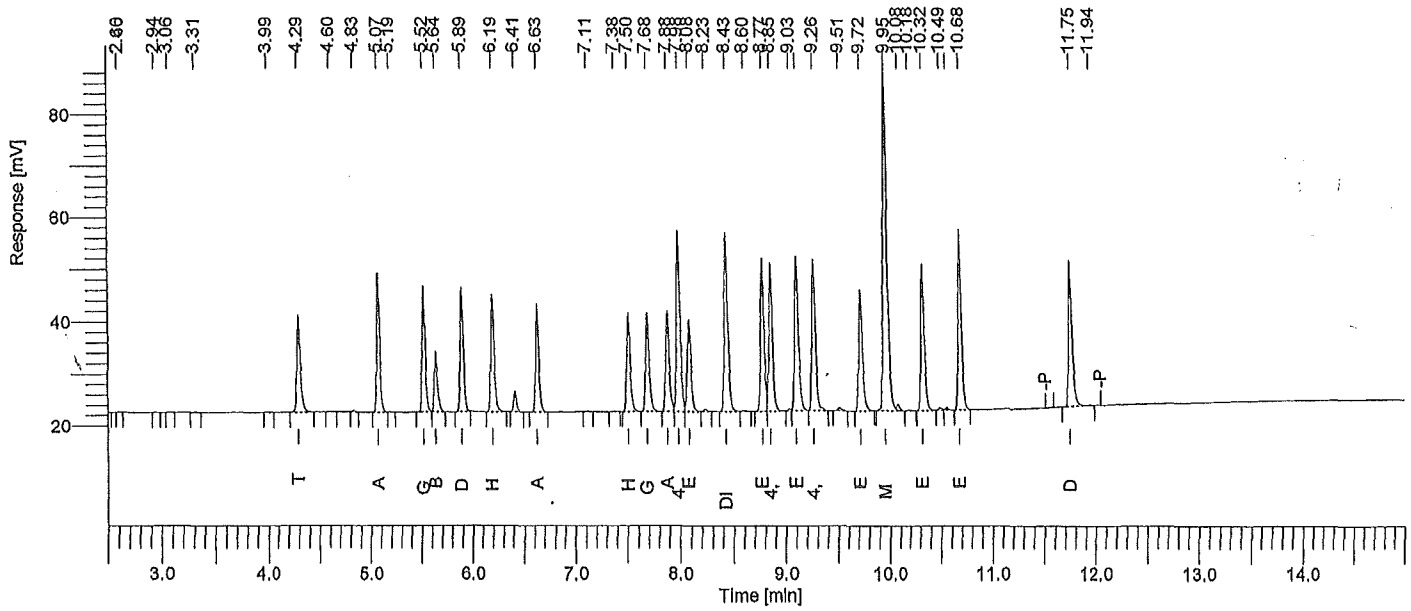

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.29	Tetrachloro-m-xylene	43327	0.0206793	0.0206793	0.0200000	103.4
5.07	alpha-BHC	56084	0.0214127	0.0214127	0.0200000	107.1
5.52	gamma-BHC	51402	0.0212550	0.0212550	0.0200000	106.3
5.64	beta-BHC	26323	0.0207450	0.0207450	0.0200000	103.7
5.89	delta-BHC	49622	0.0213233	0.0213233	0.0200000	106.6
6.19	Heptachlor	51483	0.0210106	0.0210106	0.0200000	105.1
6.63	Aldrin	46964	0.0211881	0.0211881	0.0200000	105.9
7.50	Heptachlor epoxide	44729	0.0210313	0.0210313	0.0200000	105.2
7.68	gamma-Chlordane	45753	0.0210444	0.0210444	0.0200000	105.2
7.88	alpha-Chlordane	46979	0.0210249	0.0210249	0.0200000	105.1
7.98	4,4'-DDE	82378	0.0425612	0.0425612	0.0400000	106.4
8.08	Endosulfan I	42587	0.0209415	0.0209415	0.0200000	104.7
8.43	Dieldrin	83604	0.0425195	0.0425195	0.0400000	106.3
8.77	Endrin	70295	0.0429049	0.0429049	0.0400000	107.3
8.85	4,4'-DDD	69040	0.0424493	0.0424493	0.0400000	106.1
9.10	Endosulfan II	74200	0.0420575	0.0420575	0.0400000	105.1
9.26	4,4'-DDT	71868	0.0421929	0.0421929	0.0400000	105.5
9.72	Endrin aldehyde	60166	0.0421539	0.0421539	0.0400000	105.4
9.95	Methoxychlor	168270	0.2042389	0.2042389	0.2000000	102.1
10.32	Endosulfan sulfate	66670	0.0418335	0.0418335	0.0400000	104.6
10.68	Endrin ketone	81440	0.0415240	0.0415240	0.0400000	103.8
11.75	Decachlorobiphenyl	68440	0.0408540	0.0408540	0.0400000	102.1

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:54
Operator	: sagers	Sample Name	: INDC411
Sample Number	: 014	Study	: 21565
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 02:01:11	Cycle	: 13

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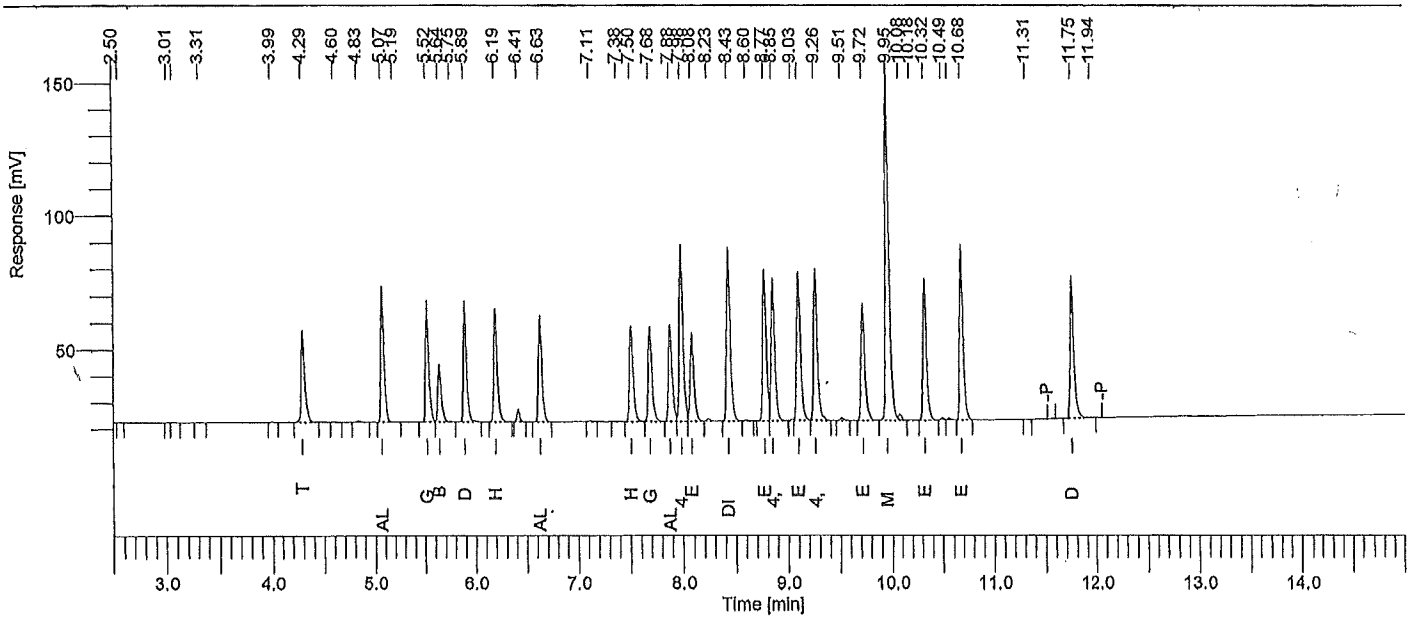

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	82556	0.0394026
5.07	alpha-BHC	112512	0.0429567
5.52	gamma-BHC	102493	0.0423812
5.64	beta-BHC	51437	0.0405363
5.89	delta-BHC	101496	0.0436145
6.19	Heptachlor	100629	0.0410673
6.63	Aldrin	93707	0.0422763
7.50	Heptachlor epoxide	87184	0.0409936
7.68	gamma-Chlordane	89113	0.0409880
7.88	alpha-Chlordane	90376	0.0404462
7.98	4,4'-DDE	161302	0.0833373
8.08	Endosulfan I	83971	0.0412919
8.43	Dieldrin	162717	0.0827552
8.77	Endrin	138799	0.0847162
8.85	4,4'-DDD	135204	0.0831303
9.10	Endosulfan II	142649	0.0808558
9.26	4,4'-DDT	143098	0.0840111
9.72	Endrin aldehyde	115899	0.0812022
9.95	Methoxychlor	325137	0.3946384
10.32	Endosulfan sulfate	130343	0.0817863
10.68	Endrin ketone	157765	0.0804402
11.75	Decachlorobiphenyl	128961	0.0769809

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:56
Operator	: sagers	Sample Name	: INDC511
Sample Number	: 015	Study	: 21566
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 02:22:41	Dilution Factor	: 1.00
		Cycle	: 14

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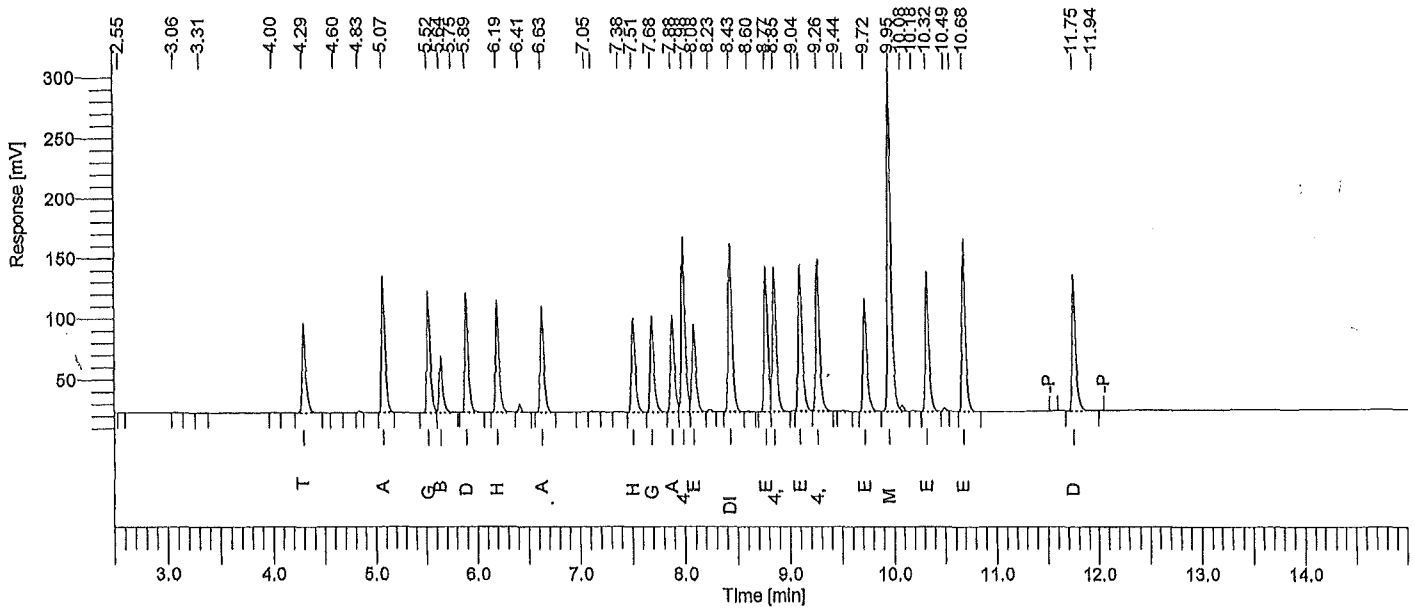

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	179447	0.0856470
5.07	alpha-BHC	256882	0.0980766
5.52	gamma-BHC	231945	0.0959099
5.64	beta-BHC	113128	0.0891537
5.89	delta-BHC	230157	0.0989022
6.19	Heptachlor	224061	0.0914403
6.63	Aldrin	213913	0.0965074
7.51	Heptachlor epoxide	194763	0.0915769
7.68	gamma-Chlordane	200682	0.0923052
7.88	alpha-Chlordane	201158	0.0900251
7.98	4,4'-DDE	365385	0.1887775
8.08	Endosulfan I	189690	0.0932782
8.43	Dieldrin	361702	0.1839563
8.77	Endrin	296761	0.1811287
8.85	4,4'-DDD	307869	0.1892937
9.10	Endosulfan II	315796	0.1789984
9.26	4,4'-DDT	324116	0.1902846
9.72	Endrin aldehyde	251694	0.1763442
9.95	Methoxychlor	711622	0.8637387
10.32	Endosulfan sulfate	288450	0.1809937
10.68	Endrin ketone	351131	0.1790330
11.75	Decachlorobiphenyl	269242	0.1607188

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:58
Operator	: sagers	Sample Name	: PIBLK21
Sample Number	: 016	Study	: 21567
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 02:44:07	Dilution Factor	: 1.00
		Cycle	: 15

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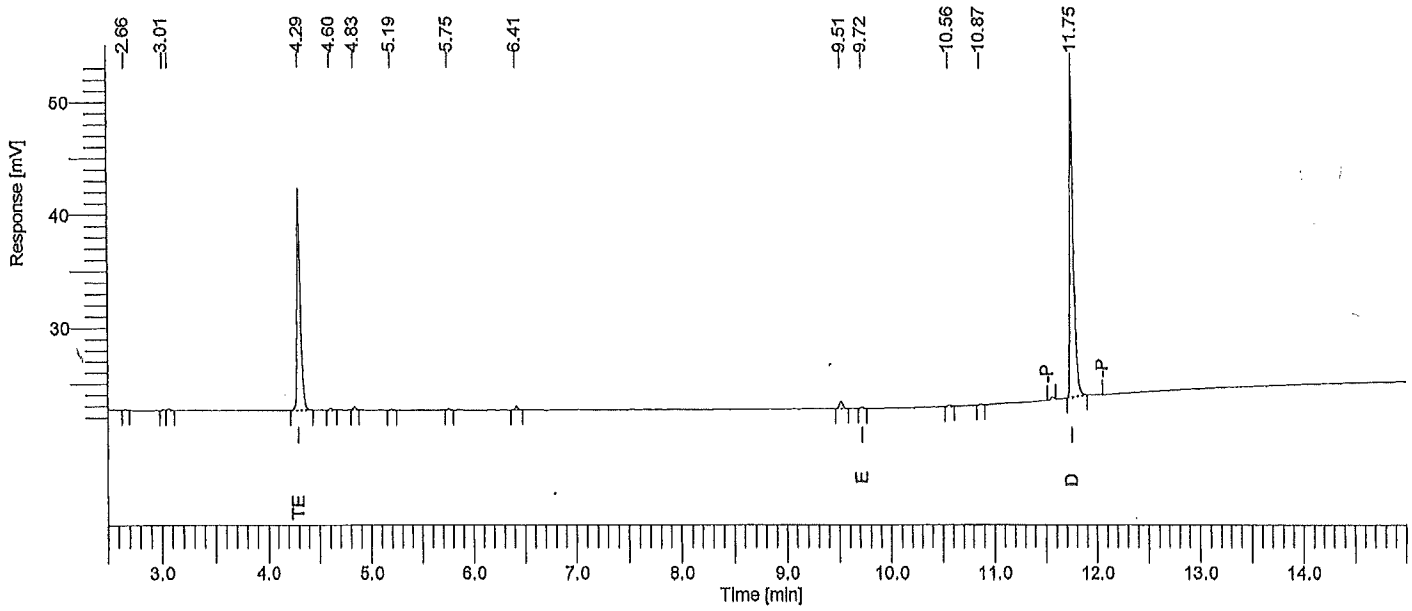

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.29	Tetrachloro-m-xylene	45218	0.021582	1	10	1.000	1.000	0.050000	0.215818	0.2000	107.9
5.07	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.52	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.64	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.89	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.19	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.63	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.50	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.68	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.88	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.98	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.08	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.43	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.77	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.85	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.10	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.26	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.72	Endrin aldehyde	209	1.46e-04	1	10	1.000	1.000	0.100000	0.001465	0.0000	-----
9.95	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.32	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.68	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.75	Decachlorobiphenyl	70495	0.042081	1	10	1.000	1.000	0.100000	0.420808	0.4000	105.2

All analytes <CRQL.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:39:00
Operator	: sagers	Sample Name	: PEM21
Sample Number	: 017	Study	: 21568
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 03:05:38	Cycle	: 16

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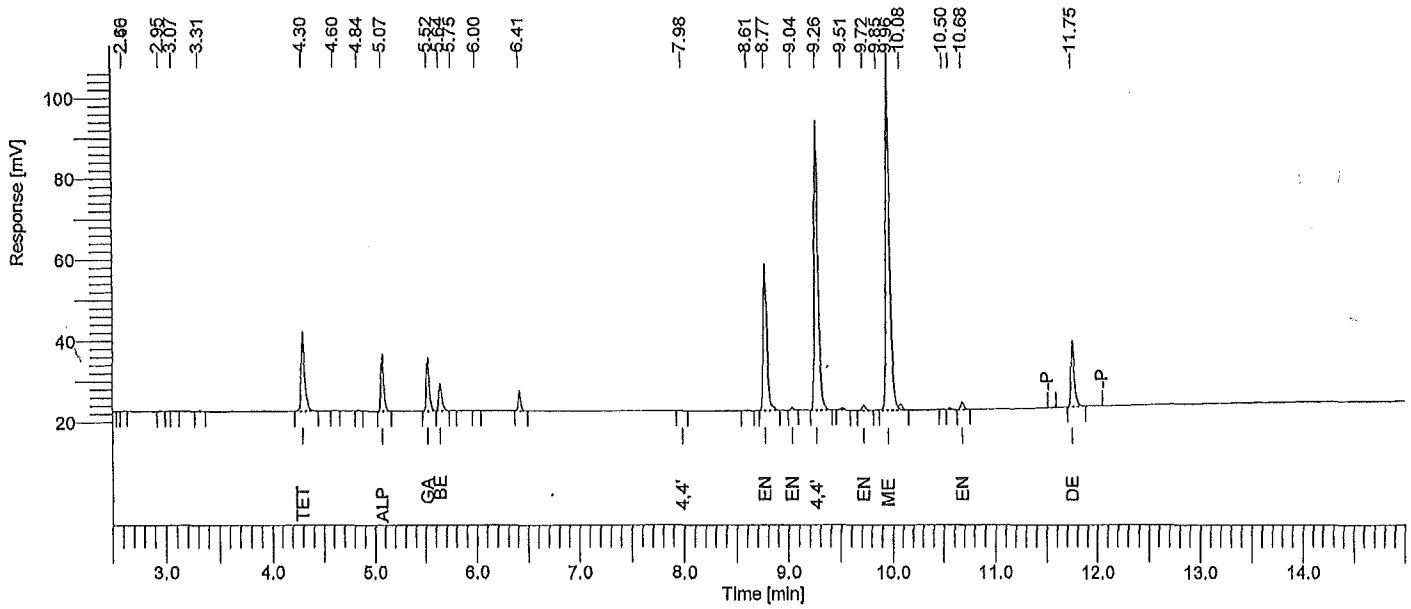

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.30	Tetrachloro-m-xylene	44834	0.0213987	0.0213987	0.02000	107.0
5.07	alpha-BHC	27916	0.0106582	0.0106582	0.01000	106.6
5.52	gamma-BHC	26557	0.0109813	0.0109813	0.01000	109.8
5.64	beta-BHC	14447	0.0113852	0.0113852	0.01000	113.9
5.89	delta-BHC	0	0.0000000	0.0000000	---------	------
6.19	Heptachlor	0	0.0000000	0.0000000	---------	------
6.63	Aldrin	0	0.0000000	0.0000000	---------	------
7.50	Heptachlor epoxide	0	0.0000000	0.0000000	---------	------
7.68	gamma-Chlordane	0	0.0000000	0.0000000	---------	------
7.88	alpha-Chlordane	0	0.0000000	0.0000000	---------	------
7.98	4,4'-DDE	236	0.0001218	0.0001218	0.10000	0.1
8.08	Endosulfan I	0	0.0000000	0.0000000	---------	------
8.43	Dieldrin	0	0.0000000	0.0000000	---------	------
8.77	Endrin	90290	0.0551090	0.0551090	0.05000	110.2
8.85	4,4'-DDD	0	0.0000000	0.0000000	---------	------
9.04	Endosulfan II	1159	0.0006568	0.0006568	0.00000	------
9.26	4,4'-DDT	181747	0.1067014	0.1067014	0.10000	106.7
9.72	Endrin aldehyde	2980	0.0020879	0.0020879	0.05000	4.2
9.96	Methoxychlor	216738	0.2630684	0.2630684	0.25000	105.2
10.32	Endosulfan sulfate	0	0.0000000	0.0000000	---------	------
10.68	Endrin ketone	3719	0.0018963	0.0018963	0.05000	3.8
11.75	Decachlorobiphenyl	38352	0.0228935	0.0228935	0.02000	114.5
			0.5069565			881.9

06/09/2015 14:39:00 Result: \\Alsltws012\TCCS\sagers\GCE21\21150309\21150309A_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.98	4,4'-DDE	236	0.0001218	0.0001218	0.10000	0.1
8.85	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0001218			0.1

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.72	Endrin aldehyde	2980	0.0020879	0.0020879	0.05000	4.2
10.68	Endrin ketone	3719	0.0018963	0.0018963	0.05000	3.8
			0.0039842			8.0

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

2R - FORM II ARO-2
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ABLKS1	60	68	92	87			0
02	ALCSS1	73	87	92	95			0
03	F9M36	58	62	79	79			0
04	F9M42	83	89	103	102			0
05	F9M43	82	89	101	89			0
06	F9M44	77	74	105	83			0
07	F9M45	81	79	108	91			0
08	F9M36MS	60	62	79	75			0
09	F9M36MSD	75	82	99	97			0
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

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

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix Spike - EPA Sample No.: F9M36

Instrument ID: GCE20 GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	170	0	130	77	29-135
AR1260	170	0	110	68	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	160	160	99	24 *	0-15	29-135
AR1260	160	140	89	27 *	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 2 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix Spike - EPA Sample No.: F9M36

Instrument ID: GCE20 GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	170	0	120	74	29-135
AR1260	170	0	140	87	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	160	150	95	24 *	0-15	29-135
AR1260	160	180	110	24 *	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 2 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3P - FORM III ARO-4

SOIL AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

ALCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 450510 LCS Lot No.: _____

Date Extracted: 06/08/2015 Date Analyzed (1): 06/15/2015

Instrument ID (1): GCE20 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	36.	107	50-150
AR1260	33.	36.	107	50-150

Instrument ID (2): GCE20 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 06/15/2015

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	36.	109	50-150
AR1260	33.	38.	113	50-150

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS: _____

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Lab File ID: 20150615A019,20150615B019 Lab Sample ID: 450508

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 06/08/2015

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 06/15/2015 Date Analyzed (2): 06/15/2015

Time Analyzed (1): 21:46 Time Analyzed (2): 22:02

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	ALCSS1	450510	06/15/2015	06/15/2015
02	F9M36	1515552001	06/15/2015	06/15/2015
03	F9M42	1515552004	06/15/2015	06/15/2015
04	F9M43	1515552005	06/15/2015	06/15/2015
05	F9M44	1515552006	06/15/2015	06/15/2015
06	F9M45	1515552007	06/15/2015	06/16/2015
07	F9M36MS	1515552002	06/15/2015	06/15/2015
08	F9M36MSD	1515552003	06/15/2015	06/15/2015
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150615A021,20150615B021

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	41.	U
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:44:09
Operator	: borges	Sample Name	: 1515552001
Sample Number	: 21	Study	: F9M36
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 22:18:14	Cycle	: 4

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_021.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_021.rst
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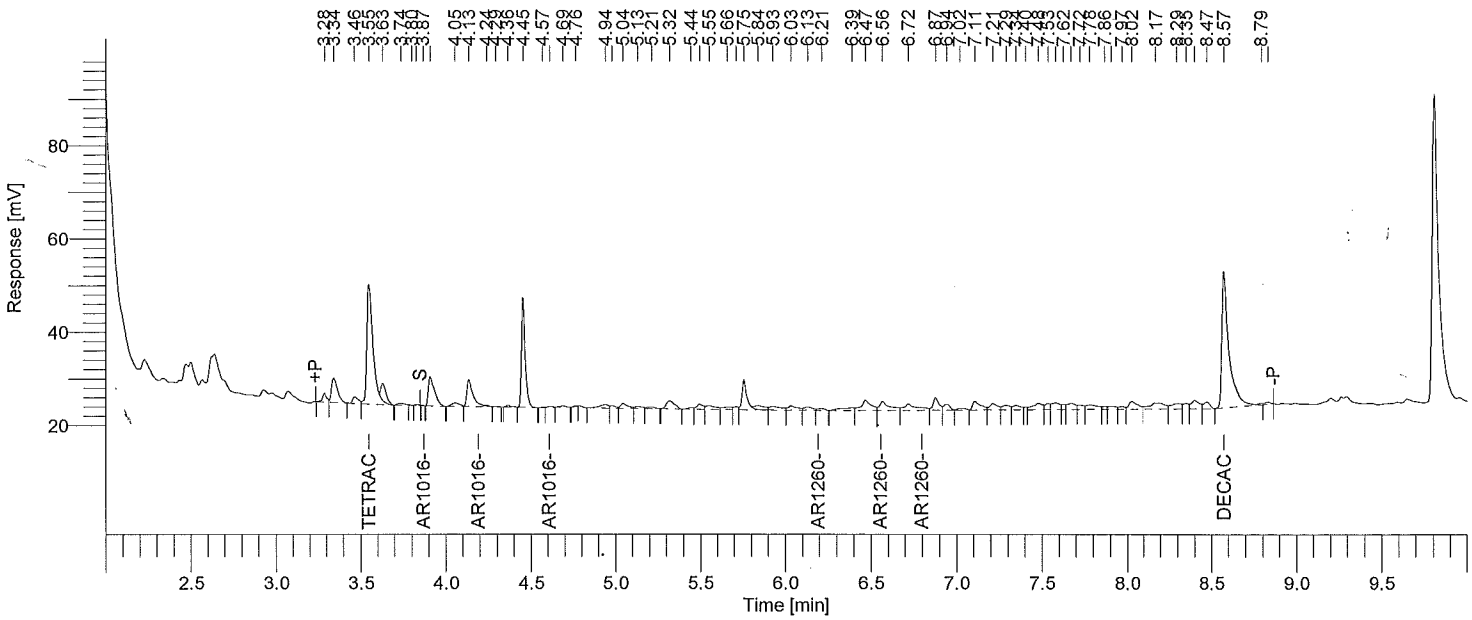

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	66134	0.03459570	1	10	0.03010	0.997	1.6611	11.49359	19.93	57.7
3.87	AR1016-1	30	7.4609e-04	1	10	0.03010	0.997	33.2226	0.24787	0.00	------
4.24	AR1016-2	466	5.9048e-03	1	10	0.03010	0.997	33.2226	1.96171	0.00	------
4.61	AR1016-3	613	4.1595e-03	1	10	0.03010	0.997	33.2226	1.38189	0.00	------
6.21	AR1260-1	1163	0.01401301	1	10	0.03010	0.997	33.2226	4.65548	0.00	------
6.56	AR1260-2	7484	0.15678164	1	10	0.03010	0.997	33.2226	52.08692	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.57	Decachlorobiphenyl	83929	0.09508526	1	10	0.03010	0.997	3.3223	31.58979	39.87	79.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:45:33
Operator	: borges	Sample Name	: 1515552001
Sample Number	: 21	Study	: F9M36
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 22:34:24	Cycle	: 5

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Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_021.rst
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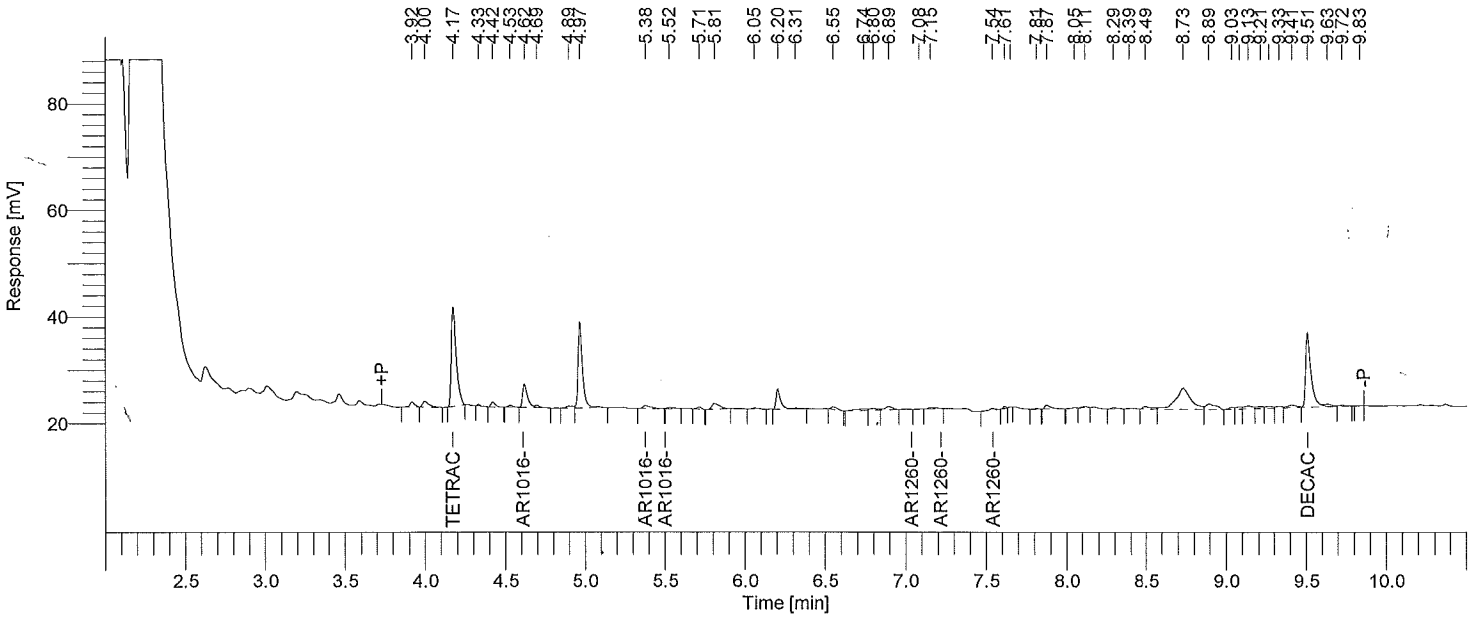

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	39447	0.03691955	1	10	0.03010	0.997	1.6611	12.26563	19.93	61.5
4.62	AR1016-1	9388	0.42247054	1	10	0.03010	0.997	33.2226	140.35566	0.00	------
5.38	AR1016-2	1929	0.02758990	1	10	0.03010	0.997	33.2226	9.16608	0.00	------
5.52	AR1016-3	649	0.02127264	1	10	0.03010	0.997	33.2226	7.06732	0.00	------
7.08	AR1260-1	227	5.8759e-03	1	10	0.03010	0.997	33.2226	1.95214	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
7.54	AR1260-3	807	0.01798206	1	10	0.03010	0.997	33.2226	5.97411	0.00	------
9.51	Decachlorobiphenyl	32540	0.09470063	1	10	0.03010	0.997	3.3223	31.46200	39.87	78.9

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552004

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150615A024,20150615B024

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	39.	U
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:44:14
Operator	: borges	Sample Name	: 1515552004
Sample Number	: 24	Study	: F9M42
AutoSampler	: HP7673A	Rack/Vial	: 0/24
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 23:06:42	Cycle	: 7

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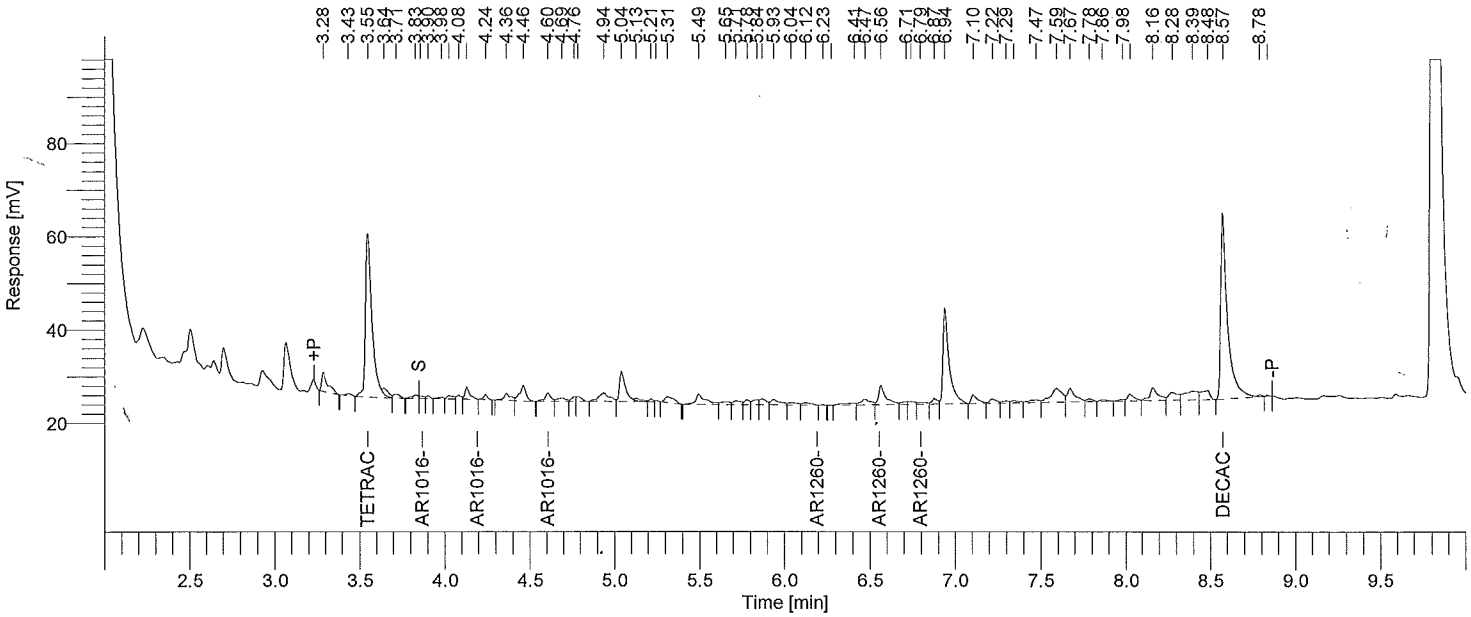

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	94725	0.04955232	1	10	0.03009	0.997	1.6617	16.46804	19.94	82.6
3.86	AR1016-1	977	0.02468662	1	10	0.03009	0.997	33.2336	8.20426	0.00	------
4.24	AR1016-2	1718	0.02178606	1	10	0.03009	0.997	33.2336	7.24030	0.00	------
4.60	AR1016-3	4392	0.02980869	1	10	0.03009	0.997	33.2336	9.90651	0.00	------
6.23	AR1260-1	226	2.7270e-03	1	10	0.03009	0.997	33.2336	0.90628	0.00	------
6.56	AR1260-2	12248	0.25659677	1	10	0.03009	0.997	33.2336	85.27643	0.00	------
6.79	AR1260-3	1558	0.02964247	1	10	0.03009	0.997	33.2336	9.85127	0.00	------
8.57	Decachlorobiphenyl	109604	0.12417379	1	10	0.03009	0.997	3.3234	41.26746	39.88	103.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:45:38
Operator	: borges	Sample Name	: 1515552004
Sample Number	: 24	Study	: F9M42
AutoSampler	: HP7673A	Rack/Vial	: 0/24
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 23:22:46	Cycle	: 8

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_024.raw
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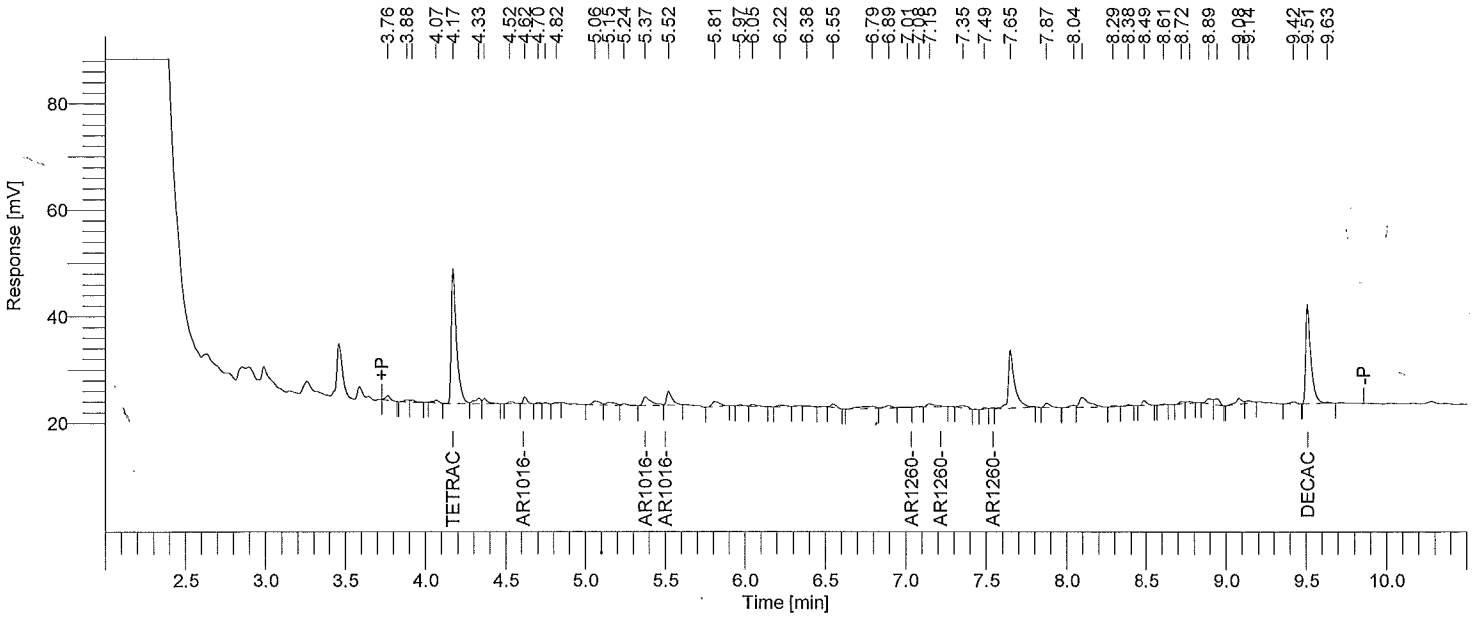

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	57073	0.05341597	1	10	0.03009	0.997	1.6617	17.75207	19.94	89.0
4.62	AR1016-1	2238	0.10071270	1	10	0.03009	0.997	33.2336	33.47049	0.00	------
5.37	AR1016-2	5765	0.08243863	1	10	0.03009	0.997	33.2336	27.39735	0.00	------
5.52	AR1016-3	5883	0.19285177	1	10	0.03009	0.997	33.2336	64.09165	0.00	------
7.01	AR1260-1	467	0.01207380	1	10	0.03009	0.997	33.2336	4.01256	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03009	0.997	--------	0.00000	-------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03009	0.997	--------	0.00000	-------	------
9.51	Decachlorobiphenyl	41938	0.12204998	1	10	0.03009	0.997	3.3234	40.56164	39.88	101.7

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552005

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150615A025,20150615B025

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:44:15
Operator	: borges	Sample Name	: 1515552005
Sample Number	: 25	Study	: F9M43
AutoSampler	: HP7673A	Rack/Vial	: 0/25
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 23:22:46	Cycle	: 8

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_025.rst
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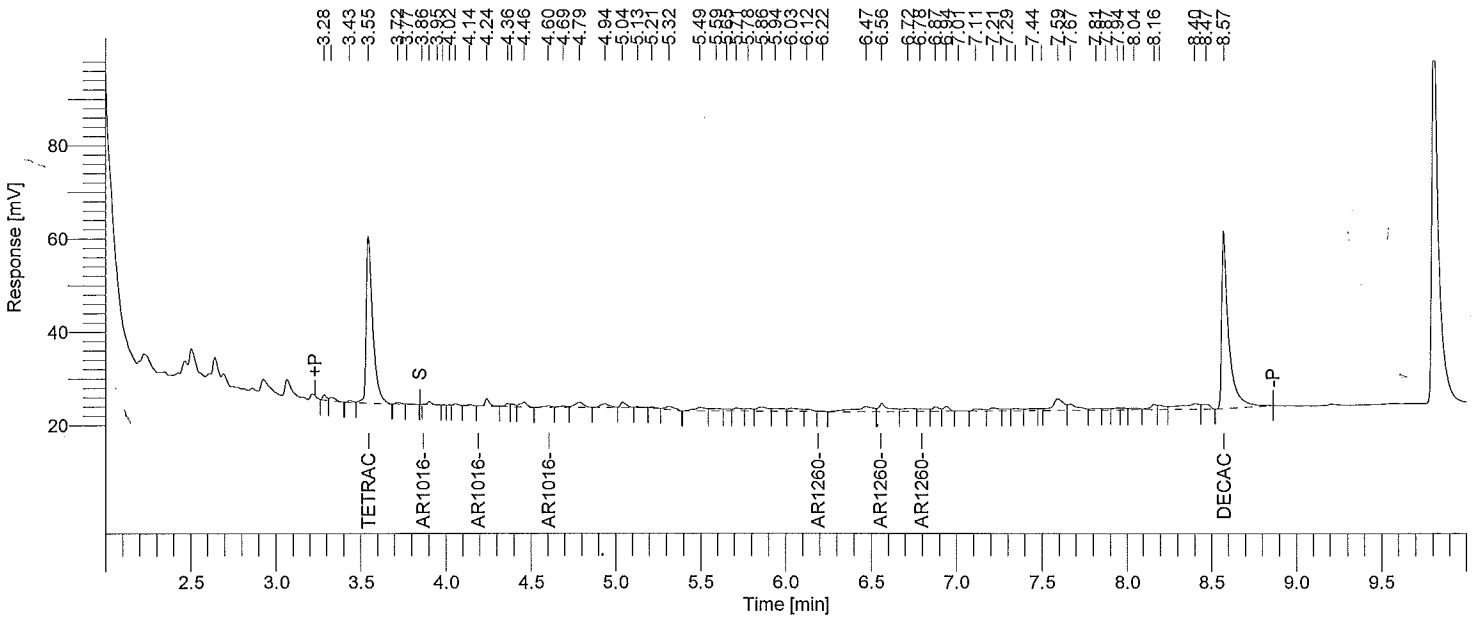
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	93699	0.04901570	1	10	0.03015	0.995	1.6584	16.25728	19.90	81.7
3.86	AR1016-1	30	7.5351e-04	1	10	0.03015	0.995	33.1675	0.24992	0.00	------
4.24	AR1016-2	2788	0.03535373	1	10	0.03015	0.995	33.1675	11.72595	0.00	------
4.60	AR1016-3	1254	8.5078e-03	1	10	0.03015	0.995	33.1675	2.82183	0.00	------
6.22	AR1260-1	323	3.8951e-03	1	10	0.03015	0.995	33.1675	1.29190	0.00	------
6.56	AR1260-2	7161	0.15001923	1	10	0.03015	0.995	33.1675	49.75762	0.00	------
6.78	AR1260-3	2615	0.04975356	1	10	0.03015	0.995	33.1675	16.50201	0.00	------
8.57	Decachlorobiphenyl	106892	0.12110102	1	10	0.03015	0.995	3.3167	40.16618	39.80	100.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:45:40
Operator	: borges	Sample Name	: 1515552005
Sample Number	: 25	Study	: F9M43
AutoSampler	: HP7673A	Rack/Vial	: 0/25
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 23:38:54	Cycle	: 9

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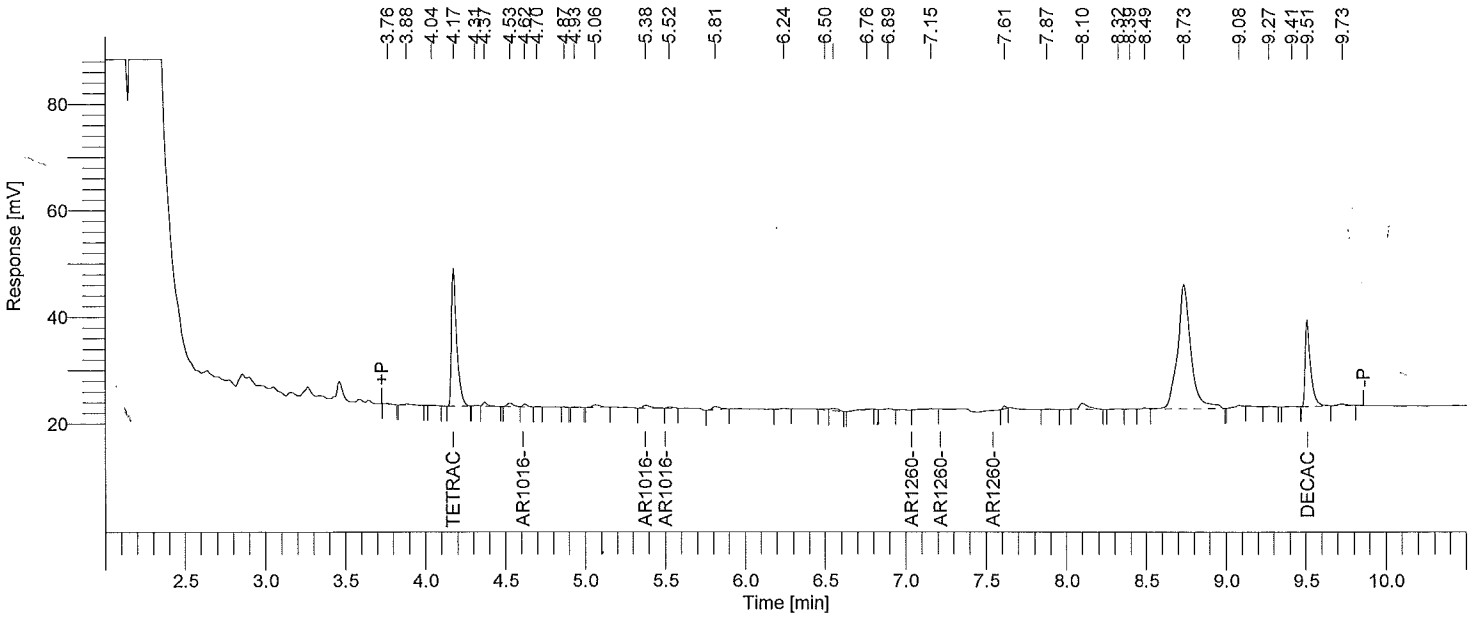
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_025.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_025.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	57286	0.05361485	1	10	0.03015	0.995	1.6584	17.78270	19.90	89.4
4.62	AR1016-1	1042	0.04687290	1	10	0.03015	0.995	33.1675	15.54657	0.00	------
5.38	AR1016-2	1802	0.02577117	1	10	0.03015	0.995	33.1675	8.54765	0.00	------
5.52	AR1016-3	534	0.01751748	1	10	0.03015	0.995	33.1675	5.81011	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03015	0.995	--------	0.00000	--------	------
7.21	AR1260-2	0	0.00000000	1	10	0.03015	0.995	--------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03015	0.995	--------	0.00000	--------	------
9.51	Decachlorobiphenyl	36804	0.10710924	1	10	0.03015	0.995	3.3167	35.52545	39.80	89.3

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552006

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150615A026,20150615B026

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

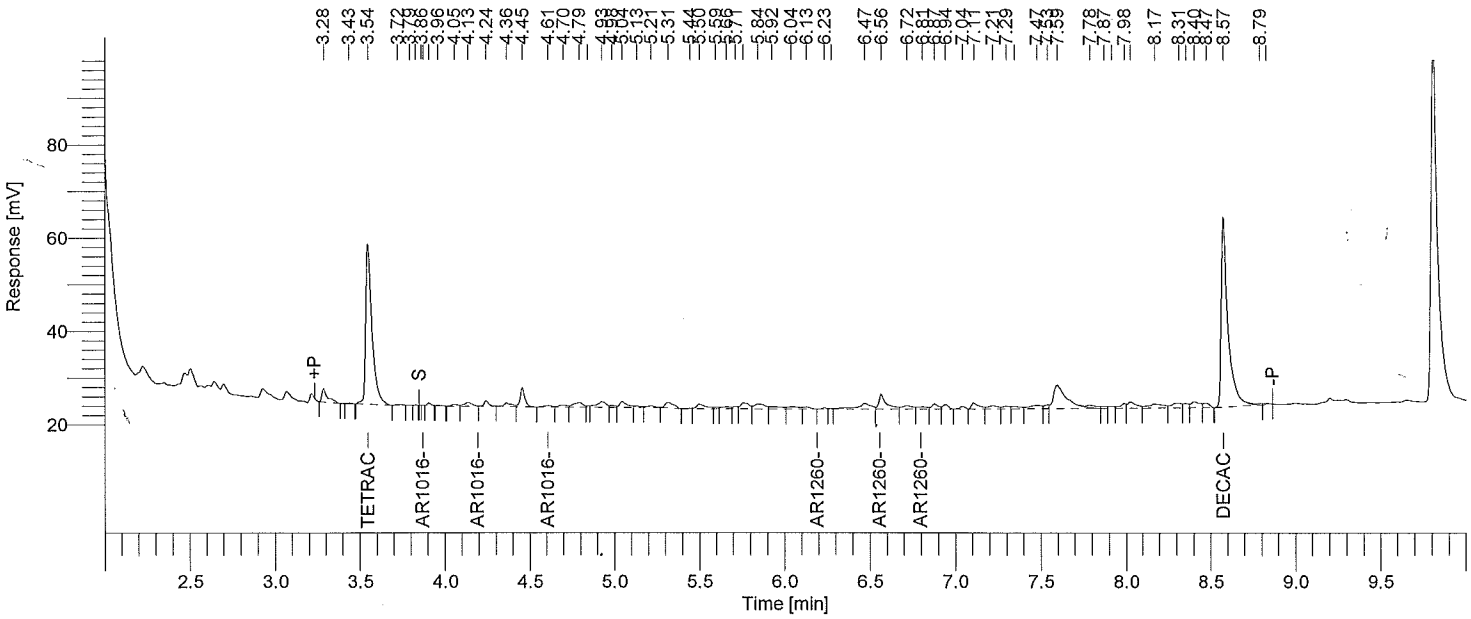
GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	40.	U
11104-28-2	Aroclor-1221	40.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	40.	U
11096-82-5	Aroclor-1260	40.	U
37324-23-5	Aroclor-1262	40.	U
11100-14-4	Aroclor-1268	40.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:44:17
Operator	: borges	Sample Name	: 1515552006
Sample Number	: 26	Study	: F9M44
AutoSampler	: HP7673A	Rack/Vial	: 0/26
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 23:38:54	Cycle	: 9

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_026.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_026.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150615\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_026.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_026.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_026.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	88237	0.04615839	1	10	0.03010	0.997	1.6611	15.33501	19.93	76.9
3.87	AR1016-1	87	2.1939e-03	1	10	0.03010	0.997	33.2226	0.72886	0.00	------
4.24	AR1016-2	2079	0.02635629	1	10	0.03010	0.997	33.2226	8.75624	0.00	------
4.61	AR1016-3	1227	8.3303e-03	1	10	0.03010	0.997	33.2226	2.76755	0.00	------
6.23	AR1260-1	453	5.4581e-03	1	10	0.03010	0.997	33.2226	1.81332	0.00	------
6.56	AR1260-2	9582	0.20075321	1	10	0.03010	0.997	33.2226	66.69542	0.00	------
6.81	AR1260-3	2030	0.03861826	1	10	0.03010	0.997	33.2226	12.82999	0.00	------
8.57	Decachlorobiphenyl	111226	0.12601080	1	10	0.03010	0.997	3.3223	41.86405	39.87	105.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:45:41
Operator	: borges	Sample Name	: 1515552006
Sample Number	: 26	Study	: F9M44
AutoSampler	: HP7673A	Rack/Vial	: 0/26
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 23:55:00	Cycle	: 10

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_026.raw
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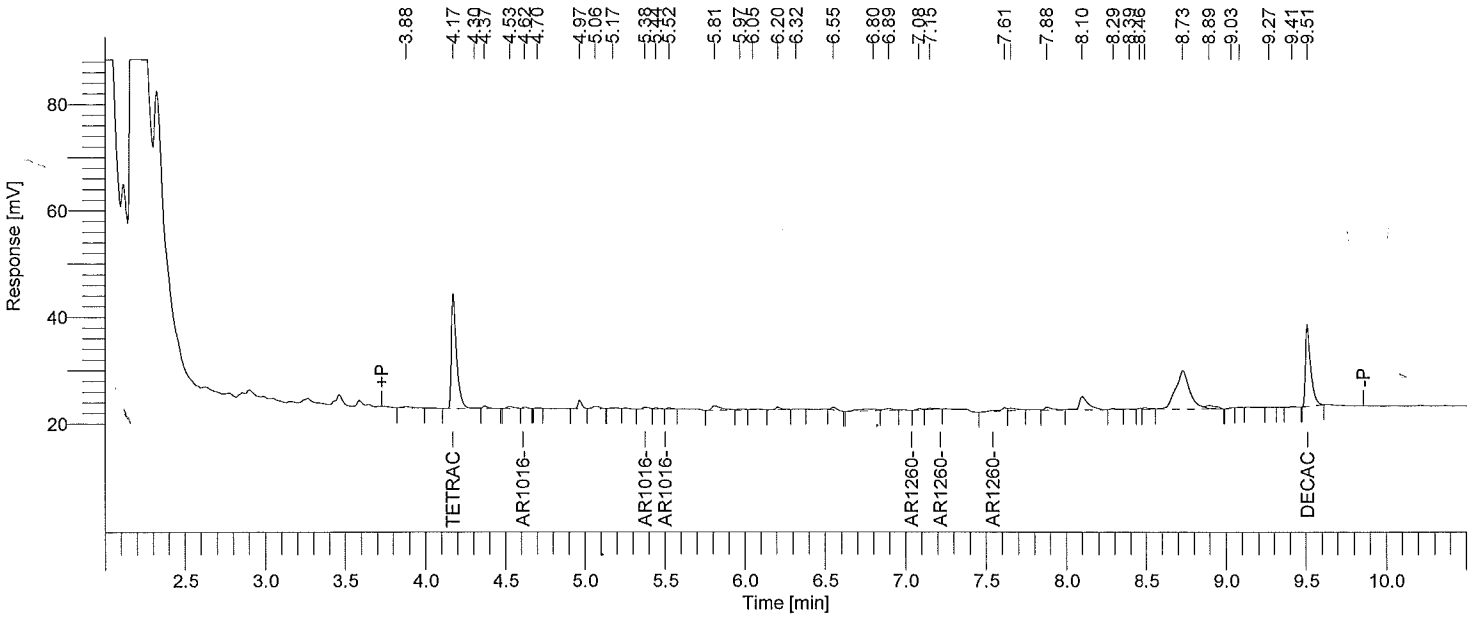
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_026.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_026.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	47672	0.04461732	1	10	0.03010	0.997	1.6611	14.82303	19.93	74.4
4.62	AR1016-1	482	0.02169902	1	10	0.03010	0.997	33.2226	7.20898	0.00	------
5.38	AR1016-2	1007	0.01439466	1	10	0.03010	0.997	33.2226	4.78228	0.00	------
5.52	AR1016-3	385	0.01260849	1	10	0.03010	0.997	33.2226	4.18887	0.00	------
7.08	AR1260-1	591	0.01527920	1	10	0.03010	0.997	33.2226	5.07615	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03010	0.997	--------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03010	0.997	--------	0.00000	--------	------
9.51	Decachlorobiphenyl	34040	0.09906564	1	10	0.03010	0.997	3.3223	32.91217	39.87	82.6

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150615A027,20150615B027

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/16/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	39.	U
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:44:18
Operator	: borges	Sample Name	: 1515552007
Sample Number	: 27	Study	: F9M45
AutoSampler	: HP7673A	Rack/Vial	: 0/27
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 23:55:00	Cycle	: 10

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_027.raw
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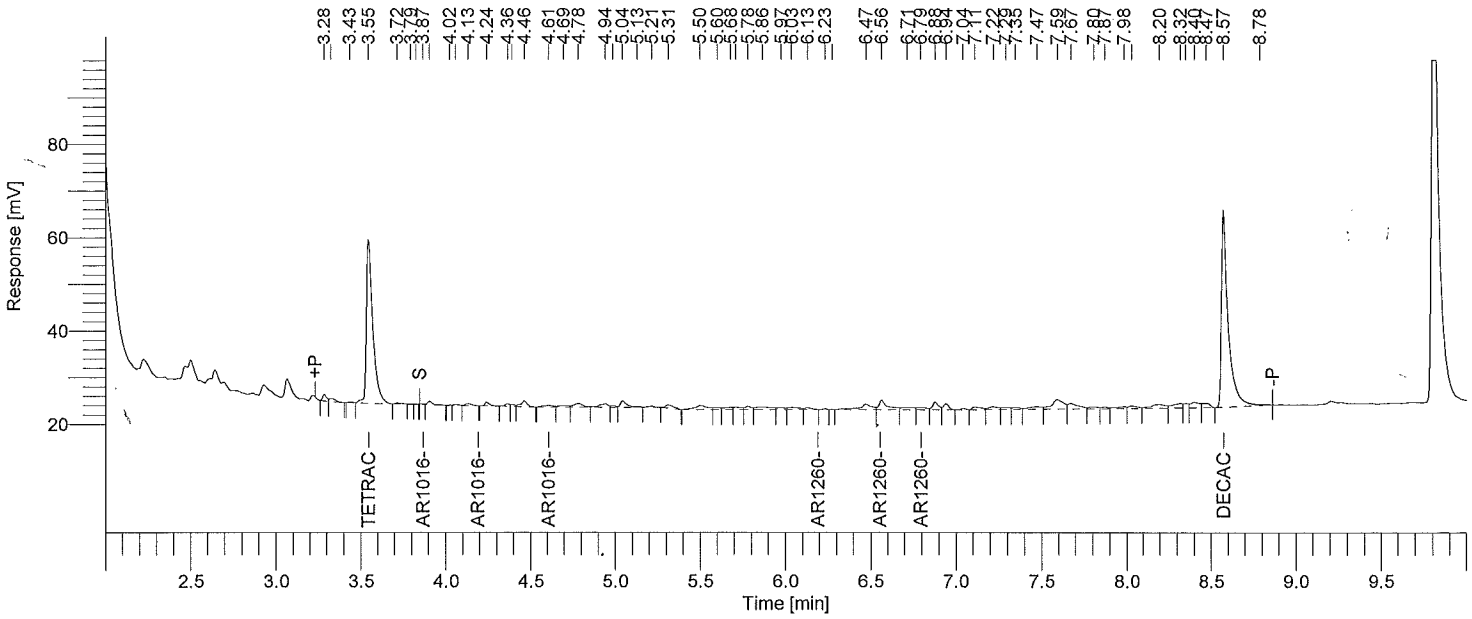
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_027.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_027.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



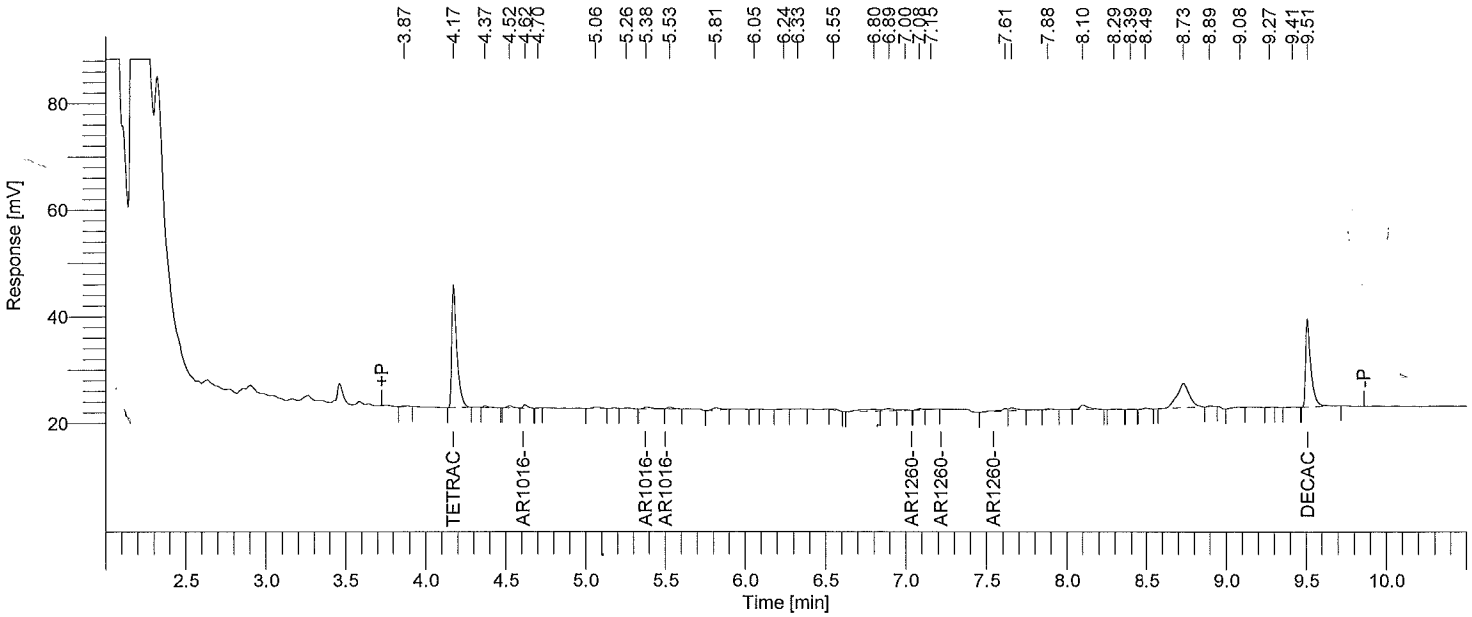
Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	92843	0.04856799	1	10	0.03032	0.989	1.6491	16.01847	19.79	80.9
3.87	AR1016-1	235	5.9453e-03	1	10	0.03032	0.989	32.9815	1.96085	0.00	------
4.24	AR1016-2	1374	0.01741712	1	10	0.03032	0.989	32.9815	5.74443	0.00	------
4.61	AR1016-3	1494	0.01014227	1	10	0.03032	0.989	32.9815	3.34508	0.00	------
6.23	AR1260-1	385	4.6447e-03	1	10	0.03032	0.989	32.9815	1.53189	0.00	------
6.56	AR1260-2	7172	0.15026333	1	10	0.03032	0.989	32.9815	49.55915	0.00	------
6.79	AR1260-3	2013	0.03830094	1	10	0.03032	0.989	32.9815	12.63224	0.00	------
8.57	Decachlorobiphenyl	114772	0.13002859	1	10	0.03032	0.989	3.2982	42.88542	39.58	108.4

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:45:43
Operator	: borges	Sample Name	: 1515552007
Sample Number	: 27	Study	: F9M45
AutoSampler	: HP7673A	Rack/Vial	: 0/27
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/16/2015 00:11:24	Cycle	: 11

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_027.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_027.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150615\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_027.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_027.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_027.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	50874	0.04761449	1	10	0.03032	0.989	1.6491	15.70399	19.79	79.4
4.62	AR1016-1	1196	0.05380121	1	10	0.03032	0.989	32.9815	17.74446	0.00	------
5.38	AR1016-2	1276	0.01825134	1	10	0.03032	0.989	32.9815	6.01957	0.00	------
5.53	AR1016-3	752	0.02466579	1	10	0.03032	0.989	32.9815	8.13516	0.00	------
7.00	AR1260-1	502	0.01299077	1	10	0.03032	0.989	32.9815	4.28456	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03032	0.989	--------	0.00000	-------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03032	0.989	--------	0.00000	-------	------
9.51	Decachlorobiphenyl	37616	0.10947094	1	10	0.03032	0.989	3.2982	36.10519	39.58	91.2

One surrogate 30-150% for field samples, both for method blank.

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/15/2015 06/15/2015

COMPOUND	PEAK*	RT OF STANDARDS					$\overline{RT}$	RT WINDOW**	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1	3.87	3.87	3.87	3.87	3.87	3.87	3.80	3.94
	2	4.19	4.19	4.19	4.19	4.19	4.19	4.12	4.26
	3	4.61	4.61	4.61	4.61	4.61	4.61	4.54	4.68
	4								
	5								
TCX		3.55	3.55	3.55	3.55	3.55	3.55	3.50	3.60
DCB		8.58	8.58	8.57	8.57	8.57	8.57	8.47	8.67
AR1260	1	6.19	6.19	6.19	6.19	6.19	6.19	6.12	6.26
	2	6.56	6.56	6.56	6.56	6.55	6.56	6.49	6.63
	3	6.80	6.80	6.80	6.80	6.80	6.80	6.73	6.87
	4								
	5								
TCX									
DCB									
AR_____	1								
	2								
	3								
	4								
	5								
TCX									
DCB									

* At least three peaks for each column are required for identification of Aroclors.

** Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/15/2015 06/15/2015

COMPOUND	PEAK*	RT OF STANDARDS					$\overline{RT}$	RT WINDOW**	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1	4.61	4.61	4.61	4.61	4.61	4.61	4.54	4.68
	2	5.38	5.37	5.37	5.37	5.37	5.37	5.30	5.44
	3	5.50	5.50	5.50	5.50	5.50	5.50	5.43	5.57
	4								
	5								
TCX		4.17	4.17	4.17	4.17	4.17	4.17	4.12	4.22
DCB		9.51	9.51	9.51	9.51	9.51	9.51	9.41	9.61
AR1260	1	7.04	7.04	7.03	7.03	7.03	7.03	6.96	7.10
	2	7.22	7.21	7.21	7.21	7.21	7.21	7.14	7.28
	3	7.54	7.54	7.54	7.54	7.54	7.54	7.47	7.61
	4								
	5								
TCX									
DCB									
AR_____	1								
	2								
	3								
	4								
	5								
TCX									
DCB									

* At least three peaks for each column are required for identification of Aroclors.

** Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6P - FORM VI ARO-2
AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/15/2015 06/15/2015

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs)					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	21800	20800	20100	18800	17400	8.6
	2	47800	41800	39200	36200	32100	15.0
	3	82000	75700	72300	72000	66300	7.8
	4						
	5						
TCX		1010000	932000	990000	955000	893000	4.8
DCB		477000	473000	435000	427000	395000	7.8
AR1260	1	48400	44100	39500	39400	36100	11.5
	2	24300	24300	22900	24600	23300	3.1
	3	30300	27600	24900	25200	23300	10.4
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

[1]At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6P - FORM VI ARO-2
AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/15/2015 06/15/2015

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs)					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	12200	11000	11100	11200	10100	6.8
	2	35100	34300	35400	36600	33400	3.4
	3	14200	15800	15700	16100	14600	5.4
	4						
	5						
TCX		508000	503000	540000	574000	547000	5.5
DCB		187000	161000	182000	174000	156000	7.7
AR1260	1	21400	19200	19400	19400	17200	7.7
	2	22900	19900	20300	20300	18000	8.6
	3	24300	21300	22900	23000	20700	6.5
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

[1]At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6Q - FORM VI ARO-3
AROCLORS INITIAL CALIBRATION (SINGLE POINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Instrument ID: GCE20 Dates(s) Analyzed: 06/15/2015 06/15/2015

GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK[1]	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1221	0.800	1	3.06	2.99	3.13	9430
		2	3.70	3.63	3.77	11100
		3	3.87	3.80	3.94	29200
		4				
		5				
Aroclor 1232	0.800	1	4.19	4.12	4.26	18600
		2	4.61	4.54	4.68	32000
		3	4.73	4.66	4.80	11500
		4				
		5				
Aroclor 1242	0.800	1	3.87	3.80	3.94	17600
		2	4.19	4.12	4.26	34500
		3	4.73	4.66	4.80	22400
		4				
		5				
Aroclor 1248	0.800	1	4.61	4.54	4.68	44600
		2	5.10	5.03	5.17	37800
		3	6.03	5.96	6.10	19400
		4				
		5				
Aroclor 1254	0.800	1	6.03	5.96	6.10	51900
		2	6.45	6.38	6.52	33400
		3	6.70	6.63	6.77	43800
		4				
		5				
Aroclor 1262	0.800	1	6.19	6.12	6.26	28600
		2	6.44	6.37	6.51	24500
		3	6.80	6.73	6.87	30100
		4				
		5				
Aroclor 1268	0.800	1	6.80	6.73	6.87	18000
		2	7.02	6.95	7.09	20400
		3	7.81	7.74	7.88	48600
		4				
		5				

[1]At least three peaks for each column are required for identification of multicomponent analytes.

6Q - FORM VI ARO-3
AROCLORS INITIAL CALIBRATION (SINGLE POINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Instrument ID: GCE20 Dates(s) Analyzed: 06/15/2015 06/15/2015

GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK[1]	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1221	0.800	1	3.75	3.68	3.82	6320
		2	4.43	4.36	4.50	6080
		3	4.61	4.54	4.68	16100
		4				
		5				
Aroclor 1232	0.800	1	4.61	4.54	4.68	12900
		2	5.38	5.31	5.45	13700
		3	5.50	5.43	5.57	6110
		4				
		5				
Aroclor 1242	0.800	1	4.61	4.54	4.68	10200
		2	5.38	5.31	5.45	28000
		3	5.50	5.43	5.57	12200
		4				
		5				
Aroclor 1248	0.800	1	5.38	5.31	5.45	19500
		2	6.03	5.96	6.10	18300
		3	6.87	6.80	6.94	7900
		4				
		5				
Aroclor 1254	0.800	1	6.28	6.21	6.35	19700
		2	6.45	6.38	6.52	17000
		3	6.76	6.69	6.83	12400
		4				
		5				
Aroclor 1262	0.800	1	7.04	6.97	7.11	14100
		2	7.22	7.15	7.29	14200
		3	7.90	7.83	7.97	12600
		4				
		5				
Aroclor 1268	0.800	1	7.62	7.55	7.69	8360
		2	7.90	7.83	7.97	10400
		3	8.72	8.65	8.79	22300
		4				
		5				

[1]At least three peaks for each column are required for identification of multicomponent analytes.

7N - FORM VII ARO
AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/15/2015 06/15/2015

EPA Sample No. (AR####3##): AR16603B1 Date Analyzed: 06/15/2015

Lab Sample ID: AR16603B1 Time Analyzed: 21:13

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		$\overline{CF}$	CF	%D
		RT	FROM	TO			
AR1016	1	3.87	3.80	3.94	19800	20000	1.0
	2	4.19	4.12	4.26	39400	39100	-0.7
	3	4.61	4.54	4.68	73700	72600	-1.4
	4						
	5						
TCX		3.55	3.50	3.60	956000	976000	2.1
DCB		8.57	8.47	8.67	441000	458000	3.7
AR1260	1	6.19	6.12	6.26	41500	40100	-3.3
	2	6.55	6.49	6.63	23900	23600	-1.2
	3	6.80	6.73	6.87	26300	25500	-3.1
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO
AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/15/2015 06/15/2015

EPA Sample No. (AR####3##): AR16603C1 Date Analyzed: 06/16/2015

Lab Sample ID: AR16603C1 Time Analyzed: 05:34

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		$\overline{CF}$	CF	%D
		RT	FROM	TO			
AR1016	1	3.87	3.80	3.94	19800	20100	1.5
	2	4.19	4.12	4.26	39400	39900	1.3
	3	4.60	4.54	4.68	73700	74600	1.3
	4						
	5						
TCX		3.54	3.50	3.60	956000	1020000	6.3
DCB		8.57	8.47	8.67	441000	452000	2.3
AR1260	1	6.19	6.12	6.26	41500	40300	-2.8
	2	6.55	6.49	6.63	23900	23200	-3.0
	3	6.79	6.73	6.87	26300	25700	-2.3
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO
AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/15/2015 06/15/2015

EPA Sample No. (AR####3##): AR16603B2 Date Analyzed: 06/15/2015

Lab Sample ID: AR16603B2 Time Analyzed: 21:30

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		$\overline{CF}$	CF	%D
		RT	FROM	TO			
AR1016	1	4.61	4.54	4.68	11100	11300	1.9
	2	5.38	5.30	5.44	35000	35500	1.5
	3	5.50	5.43	5.57	15300	15900	3.9
	4						
	5						
TCX		4.17	4.12	4.22	534000	551000	3.1
DCB		9.51	9.41	9.61	172000	174000	1.3
AR1260	1	7.04	6.96	7.10	19300	19700	1.9
	2	7.22	7.14	7.28	20300	20300	0.1
	3	7.54	7.47	7.61	22400	22500	0.1
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO
AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/15/2015 06/15/2015

EPA Sample No. (AR####3##): AR16603C2 Date Analyzed: 06/16/2015

Lab Sample ID: AR16603C2 Time Analyzed: 05:50

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	4.61	4.54	4.68	11100	10700	-3.4
	2	5.38	5.30	5.44	35000	34400	-1.5
	3	5.50	5.43	5.57	15300	15200	-0.1
	4						
	5						
TCX		4.18	4.12	4.22	534000	525000	-1.8
DCB		9.51	9.41	9.61	172000	171000	-0.5
AR1260	1	7.04	6.96	7.10	19300	18600	-3.8
	2	7.22	7.14	7.28	20300	19400	-4.1
	3	7.54	7.47	7.61	22400	21500	-4.1
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/15/2015 06/15/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.55 DCB: 8.57

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR16601A1	20150615A004	06/15/2015	17:43	3.55	8.58
02	AR16602A1	20150615A005	06/15/2015	18:00	3.55	8.58
03	AR16603A1	20150615A006	06/15/2015	18:16	3.55	8.57
04	AR16604A1	20150615A007	06/15/2015	18:32	3.55	8.57
05	AR16605A1	20150615A008	06/15/2015	18:48	3.55	8.57
06	AR12213A1	20150615A009	06/15/2015	19:04	3.55	8.57
07	AR12323A1	20150615A010	06/15/2015	19:20	3.55	8.57
08	AR12423A1	20150615A011	06/15/2015	19:37	3.55	8.57
09	AR12483A1	20150615A012	06/15/2015	19:53	3.55	8.57
10	AR12543A1	20150615A013	06/15/2015	20:09	3.55	8.58
11	AR12623A1	20150615A014	06/15/2015	20:25	3.55	8.57
12	AR12683A1	20150615A015	06/15/2015	20:41	3.55	8.57
13	AIBLKB1	20150615A016	06/15/2015	20:57	3.55	8.57
14	AR16603B1	20150615A017	06/15/2015	21:13	3.55	8.57
15	ZZZZZ		06/15/2015	21:30		
16	ABLKS1	20150615A019	06/15/2015	21:46	3.55	8.57
17	ALCSS1	20150615A020	06/15/2015	22:02	3.55	8.57
18	F9M36	20150615A021	06/15/2015	22:18	3.55	8.57
19	F9M36MS	20150615A022	06/15/2015	22:34	3.55	8.57
20	F9M36MSD	20150615A023	06/15/2015	22:50	3.55	8.57
21	F9M42	20150615A024	06/15/2015	23:06	3.55	8.57
22	F9M43	20150615A025	06/15/2015	23:22	3.55	8.57
23	F9M44	20150615A026	06/15/2015	23:38	3.55	8.57
24	F9M45	20150615A027	06/15/2015	23:55	3.55	8.57
25	ZZZZZ		06/16/2015	00:11		
26	ZZZZZ		06/16/2015	00:27		
27	ZZZZZ		06/16/2015	00:43		
28	ZZZZZ		06/16/2015	00:59		
29	ZZZZZ		06/16/2015	01:16		
30	ZZZZZ		06/16/2015	01:32		
31	ZZZZZ		06/16/2015	01:48		
32	ZZZZZ		06/16/2015	02:04		

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/15/2015 06/15/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.55 DCB: 8.57

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ		06/16/2015	02:20		
02	ZZZZZ		06/16/2015	02:36		
03	ZZZZZ		06/16/2015	02:52		
04	ZZZZZ		06/16/2015	03:09		
05	ZZZZZ		06/16/2015	03:25		
06	ZZZZZ		06/16/2015	03:41		
07	ZZZZZ		06/16/2015	03:57		
08	ZZZZZ		06/16/2015	04:13		
09	ZZZZZ		06/16/2015	04:29		
10	ZZZZZ		06/16/2015	04:45		
11	ZZZZZ		06/16/2015	05:02		
12	AIBLKC1	20150615A047	06/16/2015	05:18	3.55	8.57
13	AR16603C1	20150615A048	06/16/2015	05:34	3.54	8.57
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/15/2015 06/15/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.17 DCB: 9.51

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR16601A2	20150615B004	06/15/2015	18:00	4.17	9.51
02	AR16602A2	20150615B005	06/15/2015	18:16	4.17	9.51
03	AR16603A2	20150615B006	06/15/2015	18:32	4.17	9.51
04	AR16604A2	20150615B007	06/15/2015	18:48	4.17	9.51
05	AR16605A2	20150615B008	06/15/2015	19:04	4.17	9.51
06	AR12213A2	20150615B009	06/15/2015	19:20	4.17	9.51
07	AR12323A2	20150615B010	06/15/2015	19:37	4.17	9.51
08	AR12423A2	20150615B011	06/15/2015	19:53	4.17	9.51
09	AR12483A2	20150615B012	06/15/2015	20:09	4.17	9.51
10	AR12543A2	20150615B013	06/15/2015	20:25	4.17	9.51
11	AR12623A2	20150615B014	06/15/2015	20:41	4.17	9.51
12	AR12683A2	20150615B015	06/15/2015	20:57	4.17	9.51
13	AIBLKB2	20150615B016	06/15/2015	21:13	4.17	9.51
14	AR16603B2	20150615B017	06/15/2015	21:30	4.17	9.51
15	ZZZZZ		06/15/2015	21:46		
16	ABLKS1	20150615B019	06/15/2015	22:02	4.17	9.51
17	ALCSS1	20150615B020	06/15/2015	22:18	4.17	9.51
18	F9M36	20150615B021	06/15/2015	22:34	4.17	9.51
19	F9M36MS	20150615B022	06/15/2015	22:50	4.17	9.51
20	F9M36MSD	20150615B023	06/15/2015	23:06	4.17	9.51
21	F9M42	20150615B024	06/15/2015	23:22	4.17	9.51
22	F9M43	20150615B025	06/15/2015	23:38	4.17	9.51
23	F9M44	20150615B026	06/15/2015	23:55	4.17	9.51
24	F9M45	20150615B027	06/16/2015	00:11	4.17	9.51
25	ZZZZZ		06/16/2015	00:27		
26	ZZZZZ		06/16/2015	00:43		
27	ZZZZZ		06/16/2015	00:59		
28	ZZZZZ		06/16/2015	01:16		
29	ZZZZZ		06/16/2015	01:32		
30	ZZZZZ		06/16/2015	01:48		
31	ZZZZZ		06/16/2015	02:04		
32	ZZZZZ		06/16/2015	02:20		

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/15/2015 06/15/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.17 DCB: 9.51

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ		06/16/2015	02:36		
02	ZZZZZ		06/16/2015	02:52		
03	ZZZZZ		06/16/2015	03:09		
04	ZZZZZ		06/16/2015	03:25		
05	ZZZZZ		06/16/2015	03:41		
06	ZZZZZ		06/16/2015	03:57		
07	ZZZZZ		06/16/2015	04:13		
08	ZZZZZ		06/16/2015	04:29		
09	ZZZZZ		06/16/2015	04:45		
10	ZZZZZ		06/16/2015	05:02		
11	ZZZZZ		06/16/2015	05:18		
12	AIBLKC2	20150615B047	06/16/2015	05:34	4.18	9.51
13	AR16603C2	20150615B048	06/16/2015	05:50	4.18	9.51
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

10C - FORM X ARO
IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

ALCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 450510 Date(s) Analyzed: 06/15/2015 06/15/2015

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
AR1016	1	3.87	3.80	3.94	37.		
	2	4.19	4.12	4.26	36.		
COLUMN 1	3	4.61	4.54	4.68	34.		
	4						
	5					36.	
	1	4.61	4.54	4.68	41.		
	2	5.38	5.30	5.44	37.		
COLUMN 2	3	5.50	5.43	5.57	31.		
	4						
	5					36.	2.2
AR1260	1	6.19	6.12	6.26	34.		
	2	6.56	6.49	6.63	37.		
COLUMN 1	3	6.80	6.73	6.87	36.		
	4						
	5					36.	
	1	7.04	6.96	7.10	39.		
	2	7.22	7.14	7.28	39.		
COLUMN 2	3	7.54	7.47	7.61	36.		
	4						
	5					38.	5.6
	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

At least three peaks for each column are required for identification of multicomponent analytes.

10C - FORM X ARO
IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

F9M36MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 1515552002 Date(s) Analyzed: 06/15/2015 06/15/2015

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
AR1016	1	3.87	3.80	3.94	120		
	2	4.19	4.12	4.26	140		
COLUMN 1	3	4.61	4.54	4.68	130		
	4						
	5					130	
	1	4.61	4.54	4.68	120		
	2	5.38	5.30	5.44	130		
COLUMN 2	3	5.50	5.43	5.57	120		
	4						
	5					120	4.7
AR1260	1	6.19	6.12	6.26	91.		
	2	6.55	6.49	6.63	110		
COLUMN 1	3	6.80	6.73	6.87	130		
	4						
	5					110	
	1	7.04	6.96	7.10	150		
	2	7.21	7.14	7.28	160		
COLUMN 2	3	7.54	7.47	7.61	130		
	4						
	5					140	28.0
	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

At least three peaks for each column are required for identification of multicomponent analytes.

10C - FORM X ARO
IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

F9M36MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Lab Sample ID: 1515552003 Date(s) Analyzed: 06/15/2015 06/15/2015

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
AR1016	1	3.87	3.80	3.94	150		
	2	4.19	4.12	4.26	170		
COLUMN 1	3	4.61	4.54	4.68	160		
	4						
	5					160	
	1	4.61	4.54	4.68	150		
	2	5.38	5.30	5.44	170		
COLUMN 2	3	5.50	5.43	5.57	140		
	4						
	5					150	4.3
AR1260	1	6.19	6.12	6.26	120		
	2	6.55	6.49	6.63	150		
COLUMN 1	3	6.80	6.73	6.87	170		
	4						
	5					140	
	1	7.04	6.96	7.10	180		
	2	7.21	7.14	7.28	190		
COLUMN 2	3	7.54	7.47	7.61	160		
	4						
	5					180	24.3
	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

At least three peaks for each column are required for identification of multicomponent analytes.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:07
Operator	: borges	Sample Name	: AR16601A1
Sample Number	: 04	Study	: 28333
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 17:43:46	Cycle	: 3

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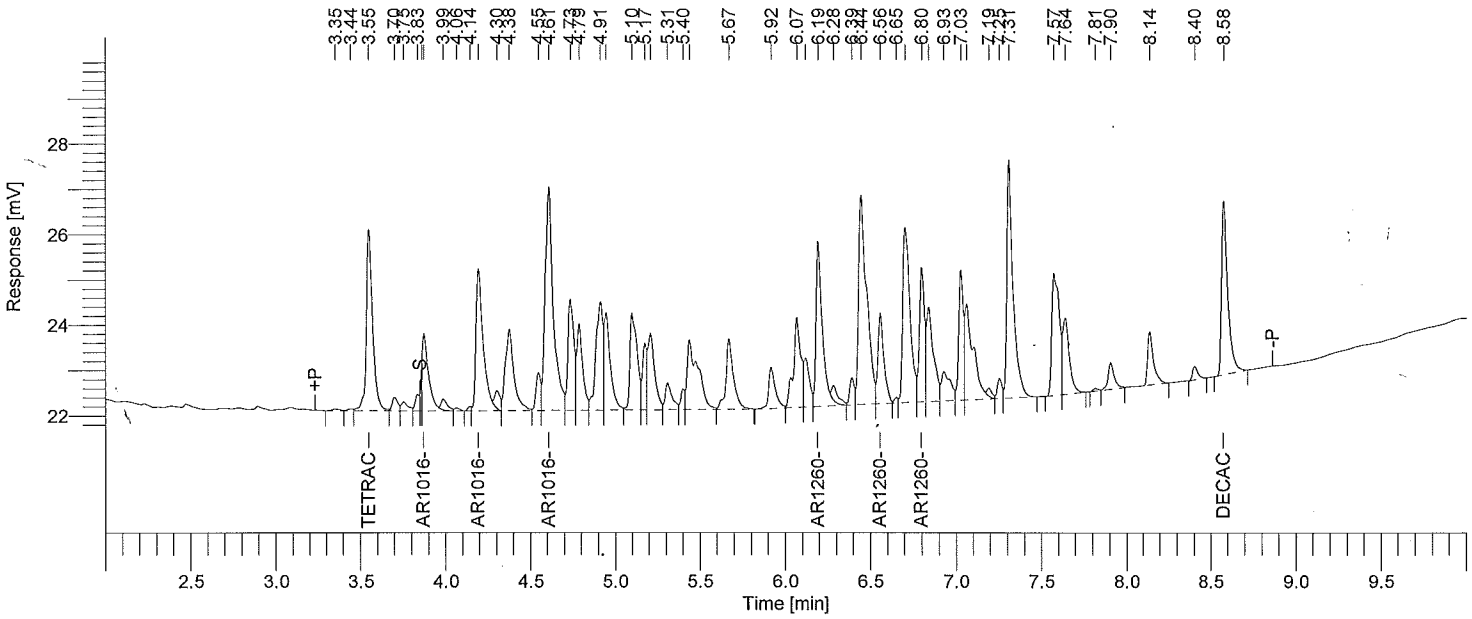

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	10088	0.0051615
3.87	AR1016-1	4351	0.1117940
4.19	AR1016-2	9557	0.1189366
4.61	AR1016-3	16406	0.1087615
6.19	AR1260-1	9675	0.1107817
6.56	AR1260-2	4851	0.0953228
6.80	AR1260-3	6062	0.1081464
8.58	Decachlorobiphenyl	9547	0.0100409

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:08
Operator	: borges	Sample Name	: AR16602A1
Sample Number	: 05	Study	: 28334
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 18:00:00	Cycle	: 4

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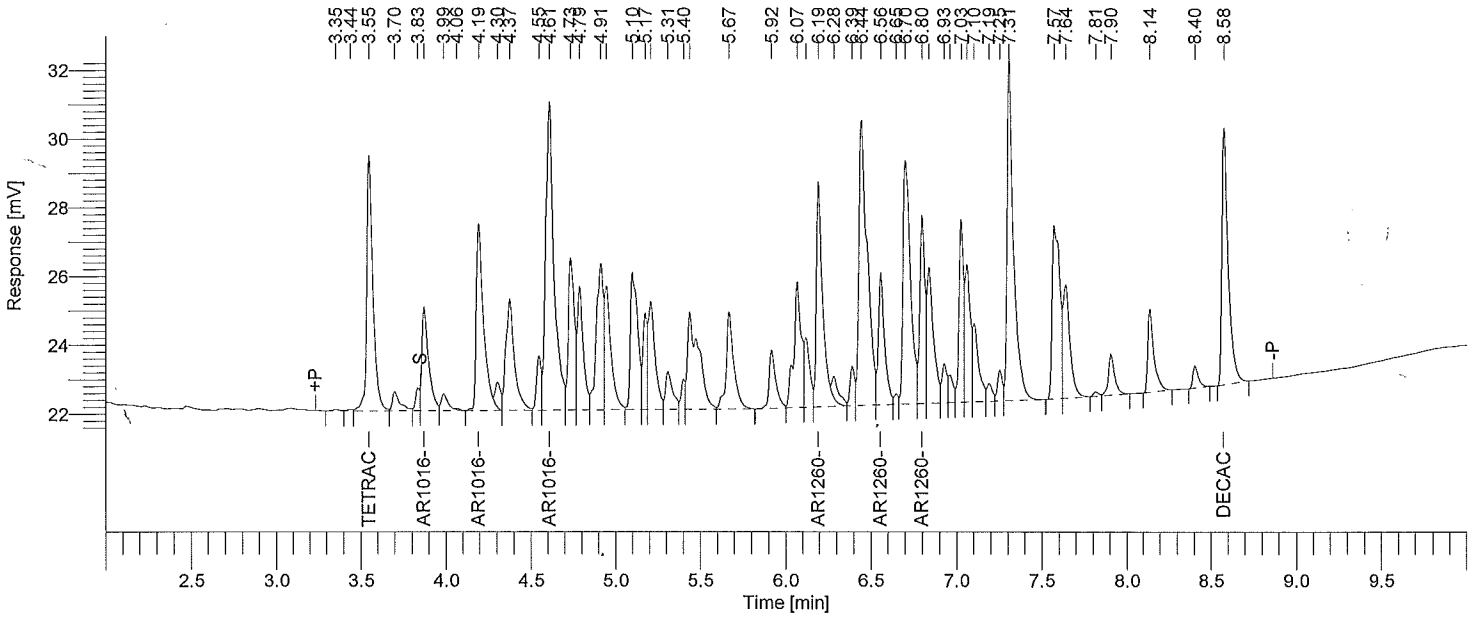

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	18635	0.0095976
3.87	AR1016-1	8319	0.2094383
4.19	AR1016-2	16735	0.2096027
4.61	AR1016-3	30269	0.2018559
6.19	AR1260-1	17622	0.2037993
6.56	AR1260-2	9703	0.1924037
6.80	AR1260-3	11058	0.1993867
8.58	Decachlorobiphenyl	18913	0.0198195

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:10
Operator	: borges	Sample Name	: AR16603A1
Sample Number	: 06	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/15/2015 18:16:12	Dilution Factor	: 1.00
		Cycle	: 5

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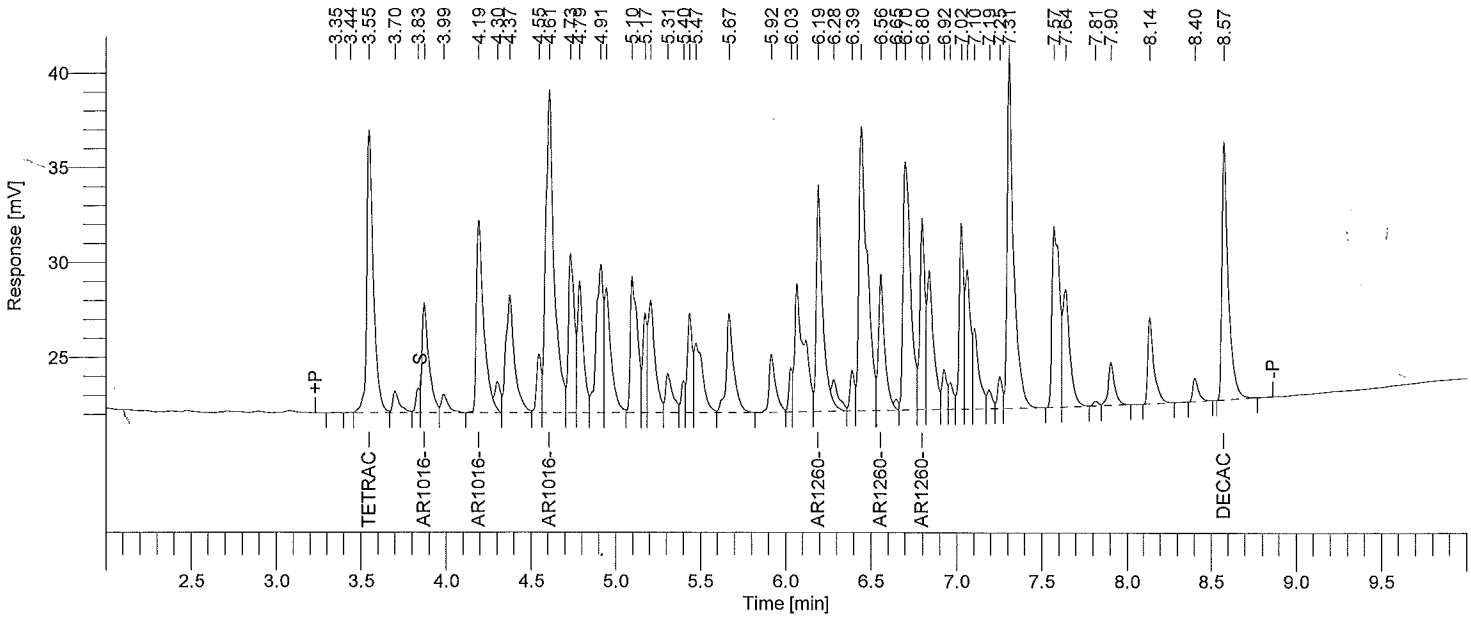

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	39592	0.0203896
3.87	AR1016-1	16119	0.4056857
4.19	AR1016-2	31382	0.3935281
4.61	AR1016-3	57862	0.3872583
6.19	AR1260-1	31595	0.3694974
6.56	AR1260-2	18290	0.3679459
6.80	AR1260-3	19916	0.3651340
8.57	Decachlorobiphenyl	34781	0.0370769

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:11
Operator	: borges	Sample Name	: AR16604A1
Sample Number	: 07	Study	: 28336
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
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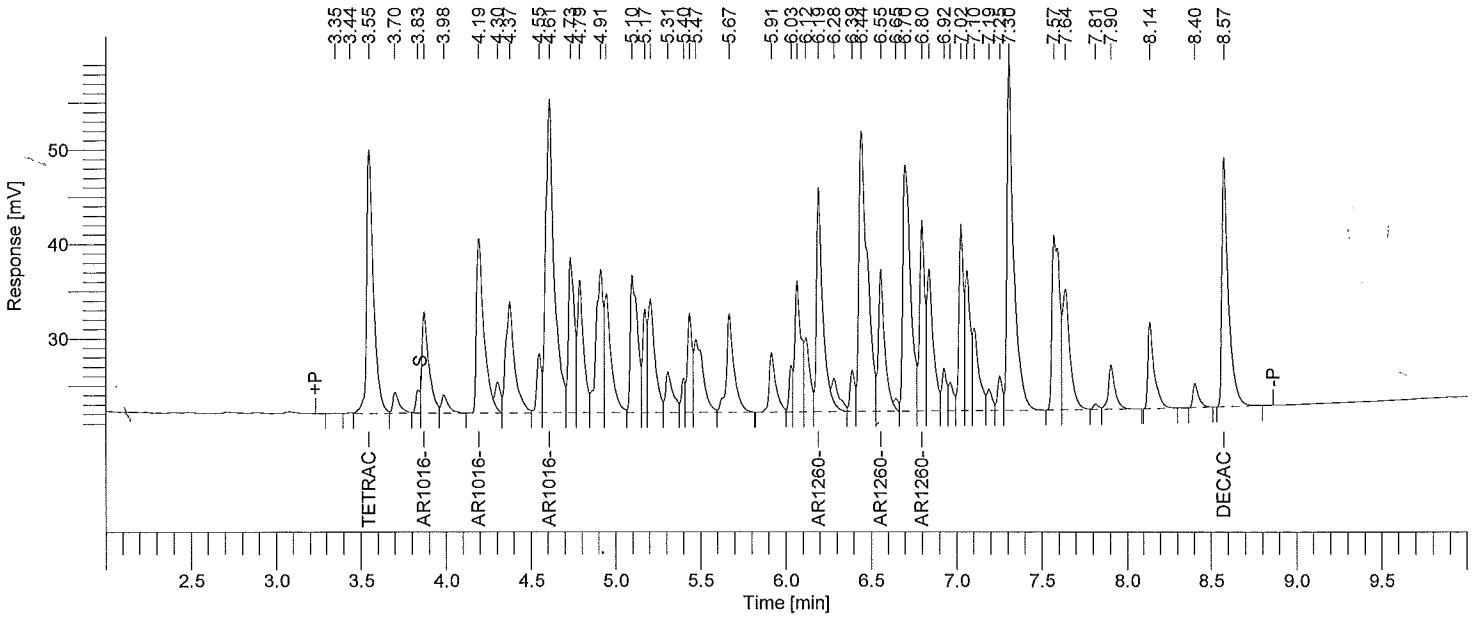

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	76422	0.0397206
3.87	AR1016-1	30065	0.7621162
4.19	AR1016-2	57920	0.7319045
4.61	AR1016-3	115156	0.7786612
6.19	AR1260-1	63030	0.7508165
6.55	AR1260-2	39380	0.8114126
6.80	AR1260-3	40315	0.7547064
8.57	Decachlorobiphenyl	68330	0.0756610

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:13
Operator	: borges	Sample Name	: AR16605A1
Sample Number	: 08	Study	: 28337
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 18:48:30	Cycle	: 7

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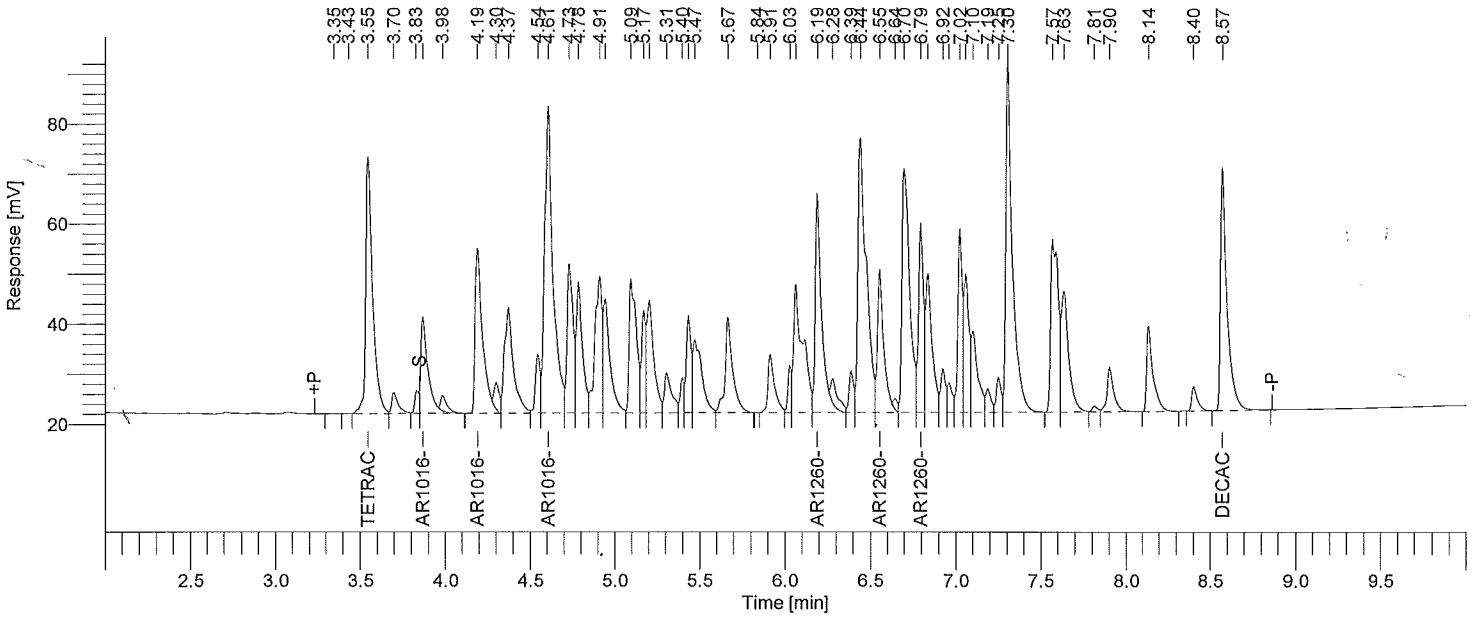

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	142951	0.0747800
3.87	AR1016-1	55808	1.4103078
4.19	AR1016-2	102762	1.3029904
4.61	AR1016-3	212309	1.4409597
6.19	AR1260-1	115600	1.3931671
6.55	AR1260-2	74694	1.5648537
6.79	AR1260-3	74676	1.4209408
8.57	Decachlorobiphenyl	126286	0.1430737

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:14
Operator	: borges	Sample Name	: AR12213A1
Sample Number	: 09	Study	: 28340
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 19:04:36	Cycle	: 8

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_a.rpt
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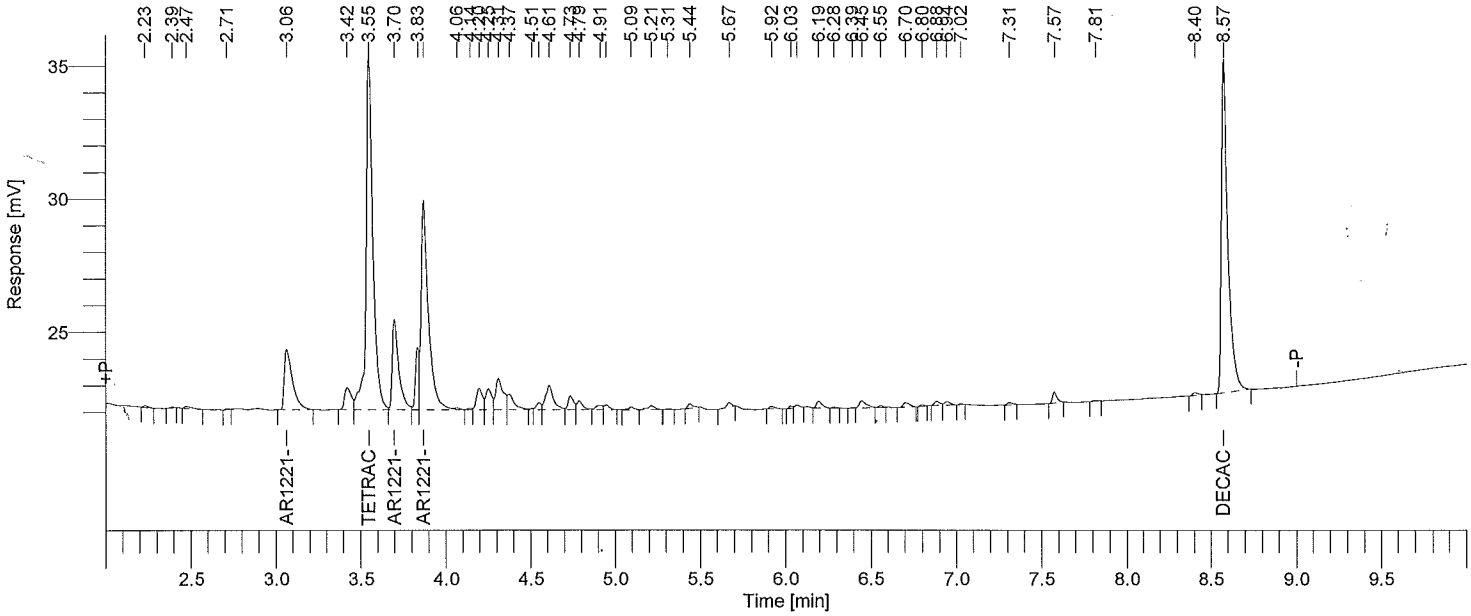

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.06	AR1221-1	7540	0.4000000
3.55	Tetrachloro-m-xylene	37080	0.0200000
3.70	AR1221-2	8879	0.4000000
3.87	AR1221-3	23329	0.4000000
8.57	Decachlorobiphenyl	32168	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:16
Operator	: borges	Sample Name	: AR12323A1
Sample Number	: 10	Study	: 28346
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 19:20:58	Cycle	: 9

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_a.rpt
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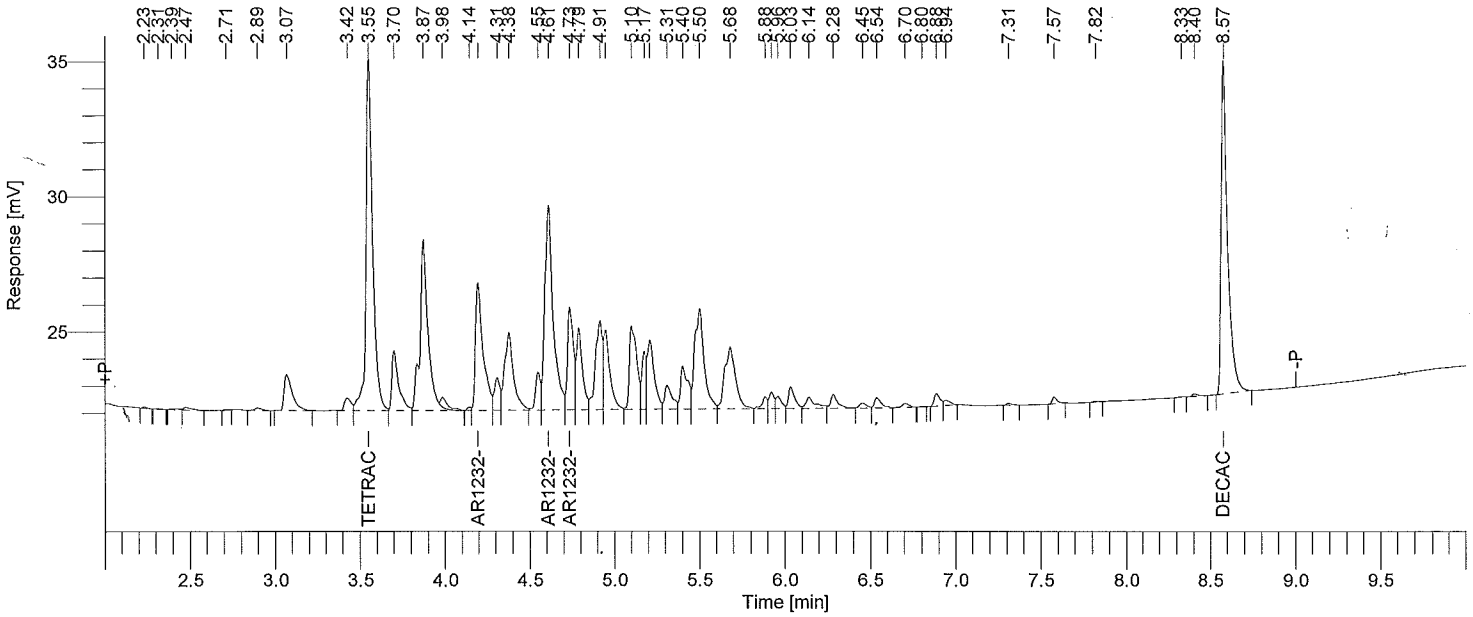

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	35044	0.0200000
4.19	AR1232-1	14894	0.4000000
4.61	AR1232-2	25572	0.4000000
4.73	AR1232-3	9239	0.4000000
8.57	Decachlorobiphenyl	31817	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:17
Operator	: borges	Sample Name	: AR12423A1
Sample Number	: 11	Study	: 28351
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 19:37:08	Cycle	: 10

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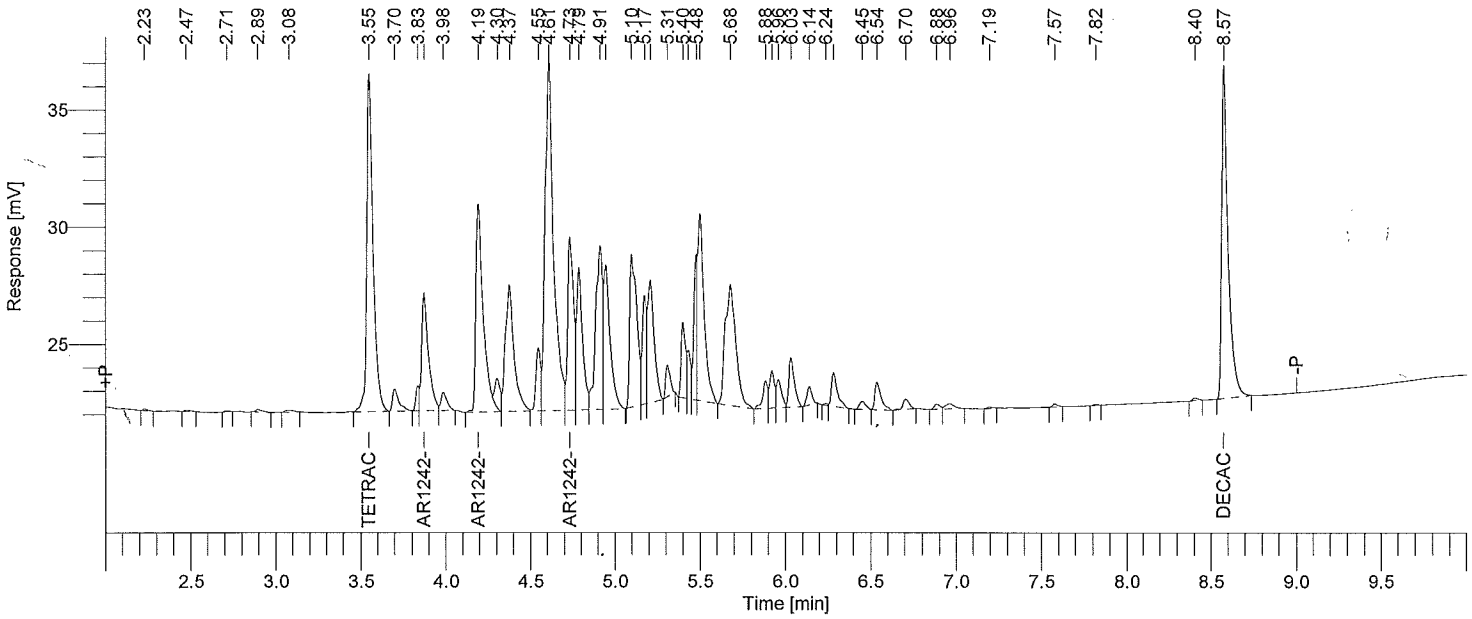

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	37496	0.0200000
3.87	AR1242-1	14042	0.4000000
4.19	AR1242-2	27574	0.4000000
4.73	AR1242-3	17942	0.4000000
8.57	Decachlorobiphenyl	36621	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:19
Operator	: borges	Sample Name	: AR12483A1
Sample Number	: 12	Study	: 28356
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 19:53:20	Cycle	: 11

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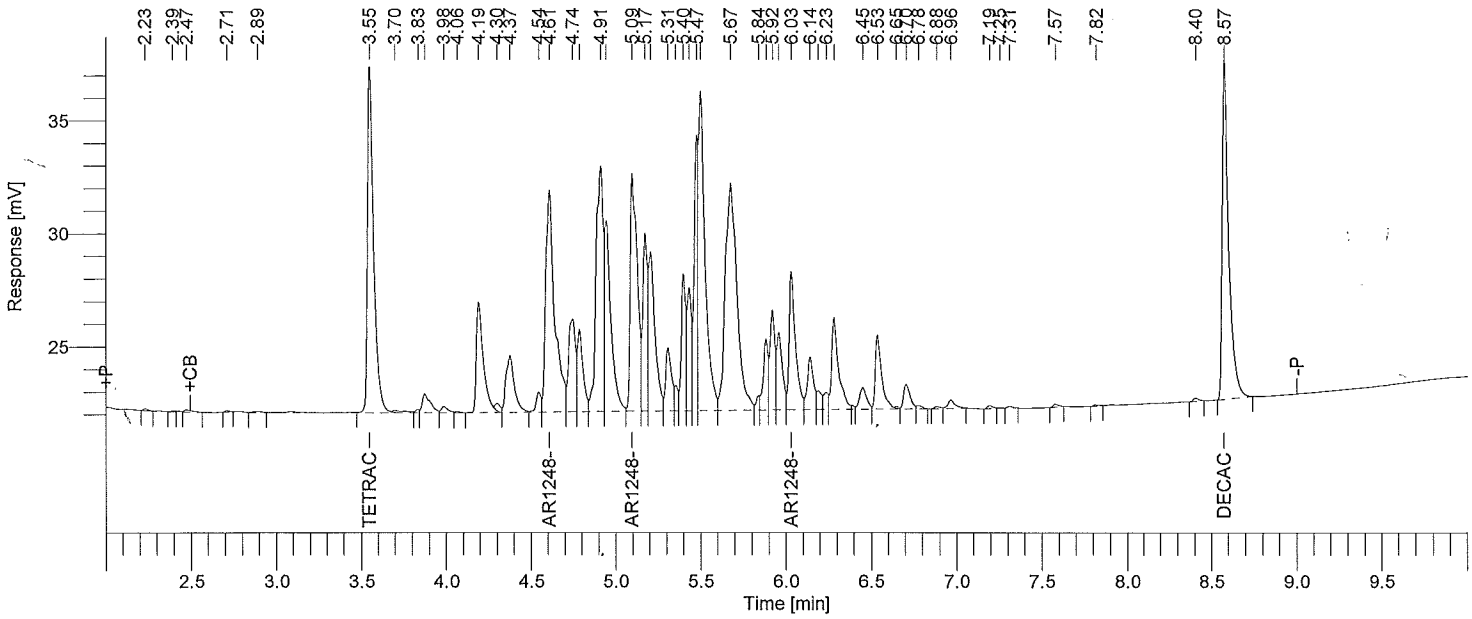

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	38182	0.0200000
4.61	AR1248-1	35715	0.4000000
5.09	AR1248-2	30205	0.4000000
6.03	AR1248-3	15489	0.4000000
8.57	Decachlorobiphenyl	38956	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:20
Operator	: borges	Sample Name	: AR12543A1
Sample Number	: 13	Study	: 28361
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 20:09:28	Cycle	: 12

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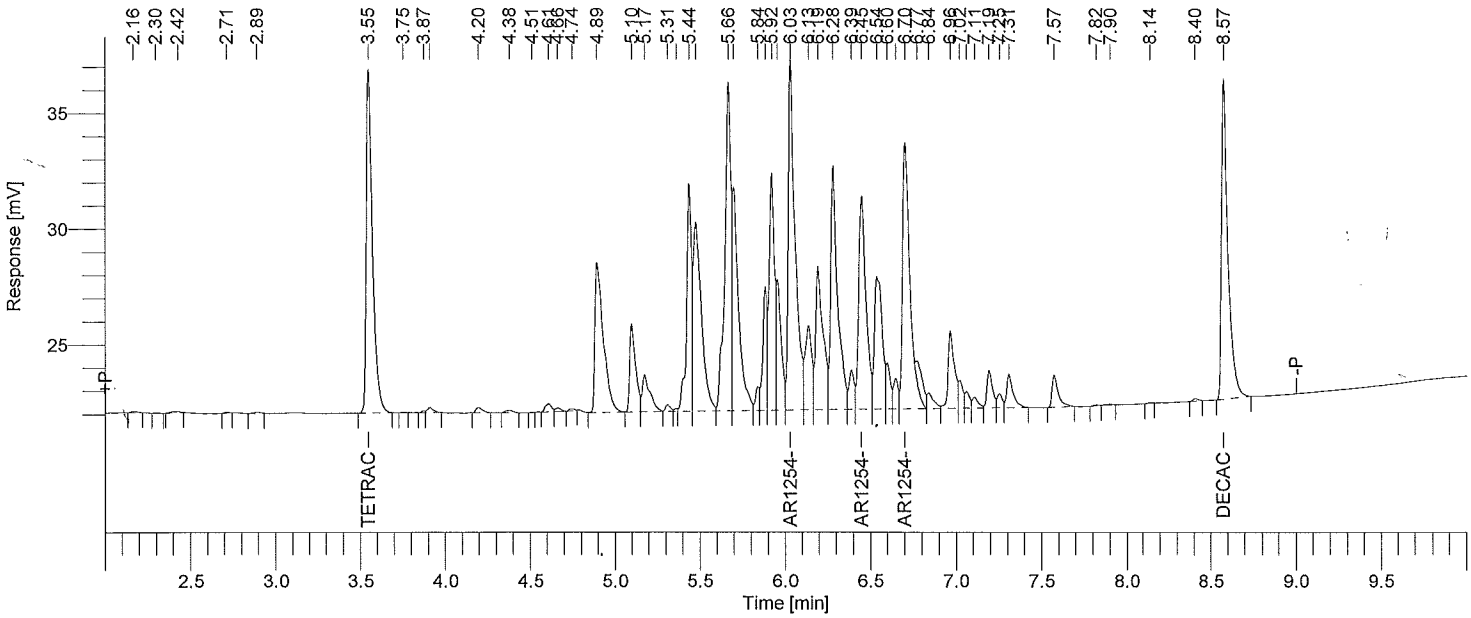

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	37095	0.0200000
6.03	AR1254-1	41488	0.4000000
6.45	AR1254-2	26726	0.4000000
6.70	AR1254-3	35004	0.4000000
8.57	Decachlorobiphenyl	35750	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:22
Operator	: borges	Sample Name	: AR12623A1
Sample Number	: 14	Study	: 28366
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/15/2015 20:25:33	Dilution Factor	: 1.00
		Cycle	: 13

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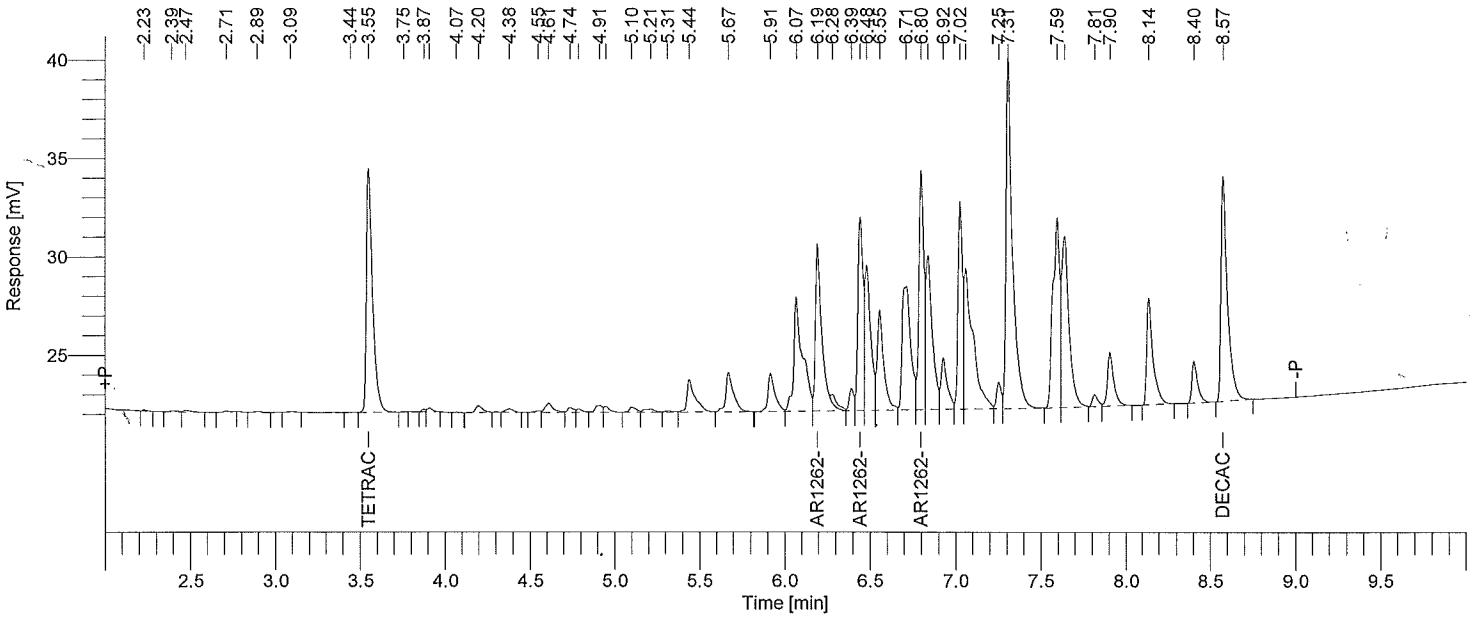

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	31164	0.0200000
6.19	AR1262-1	22851	0.4000000
6.44	AR1262-2	19600	0.4000000
6.80	AR1262-3	24046	0.4000000
8.57	Decachlorobiphenyl	29689	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:23
Operator	: borges	Sample Name	: AR12683A1
Sample Number	: 15	Study	: 28371
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/15/2015 20:41:39	Dilution Factor	: 1.00
		Cycle	: 14

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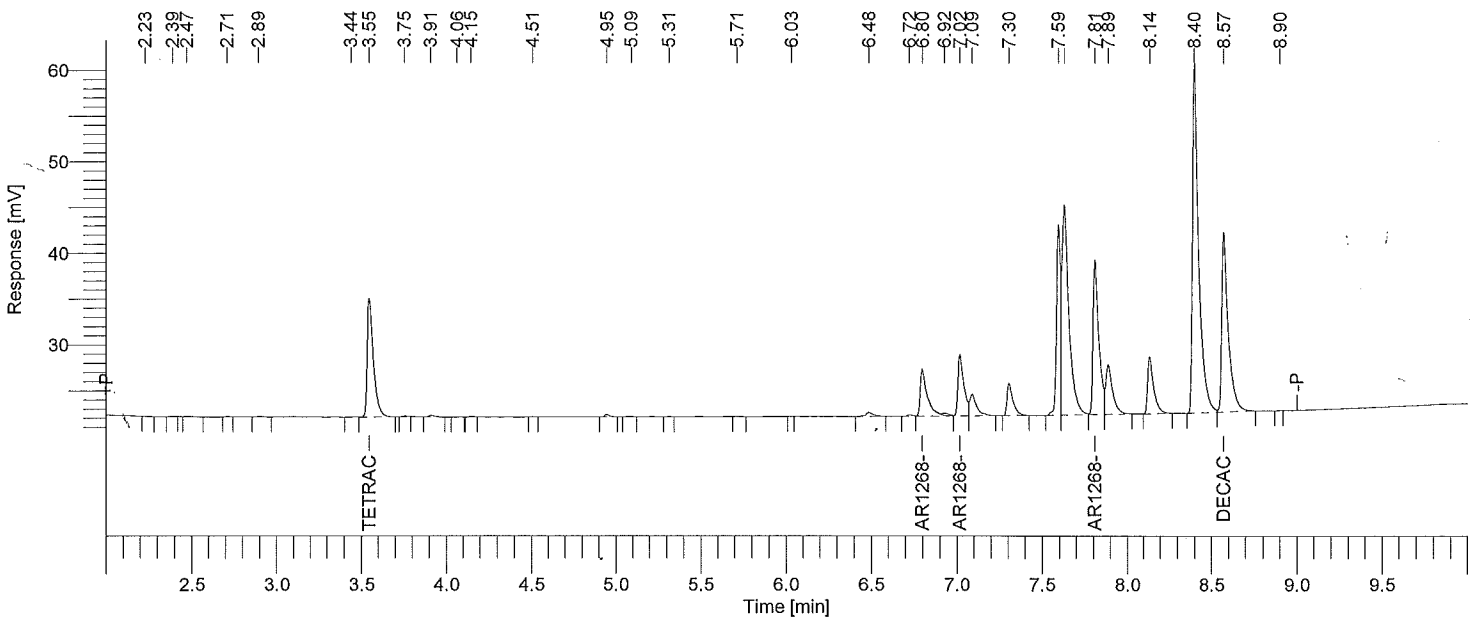

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	32428	0.0200000
6.80	AR1268-1	14368	0.4000000
7.02	AR1268-2	16320	0.4000000
7.81	AR1268-3	38858	0.4000000
8.57	Decachlorobiphenyl	51785	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:26
Operator	: borges	Sample Name	: AR16603B1
Sample Number	: 17	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 21:13:54	Cycle	: 16

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_017.raw
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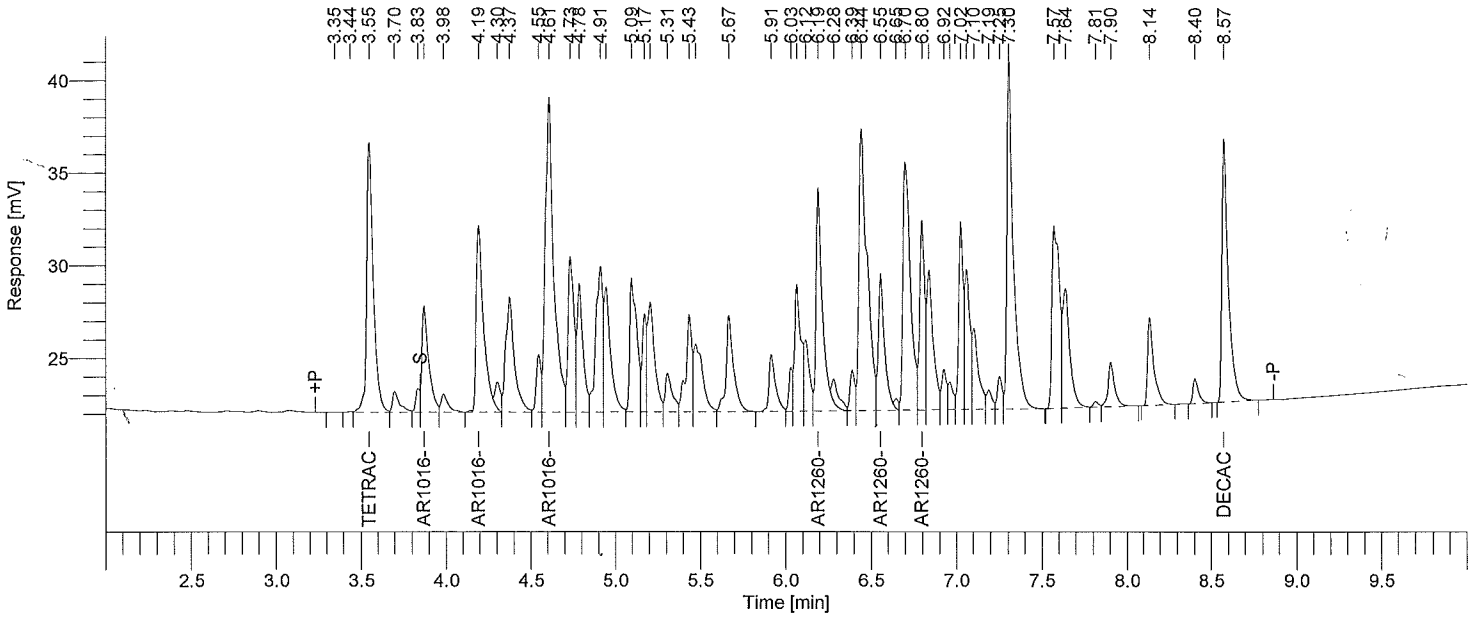

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
3.55	Tetrachloro-m-xylene	39040	0.0204225	0.0204225	0.0200000	102.1
3.87	AR1016-1	15995	0.4041978	0.4041978	0.4000000	101.0
4.19	AR1016-2	31314	0.3970513	0.3970513	0.4000000	99.3
4.61	AR1016-3	58112	0.3944089	0.3944089	0.4000000	98.6
6.19	AR1260-1	32104	0.3869082	0.3869082	0.4000000	96.7
6.55	AR1260-2	18858	0.3950856	0.3950856	0.4000000	98.8
6.80	AR1260-3	20373	0.3876647	0.3876647	0.4000000	96.9
8.57	Decachlorobiphenyl	36608	0.0414739	0.0414739	0.0400000	103.7

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:30
Operator	: borges	Sample Name	: AR16603C1
Sample Number	: 48	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/48
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/16/2015 05:34:28	Cycle	: 47

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_048.raw
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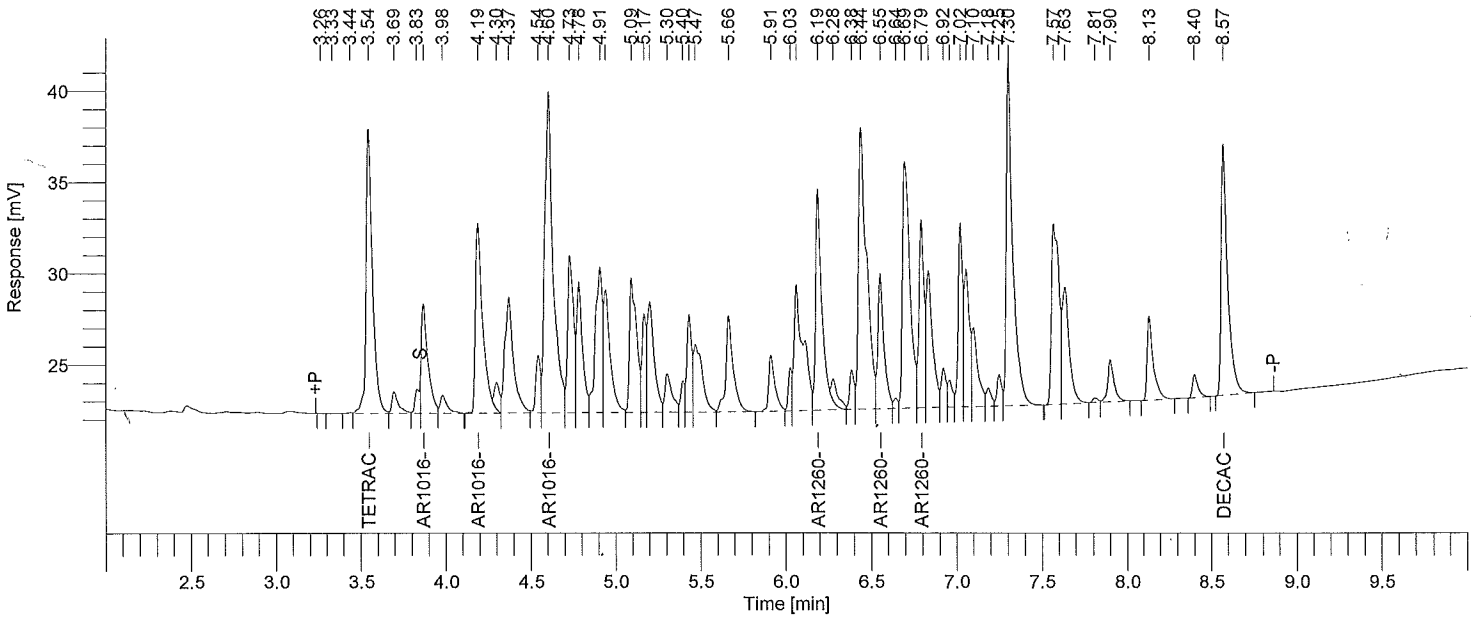

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
3.54	Tetrachloro-m-xylene	40639	0.0212587	0.0212587	0.0200000	106.3
3.87	AR1016-1	16068	0.4060460	0.4060460	0.4000000	101.5
4.19	AR1016-2	31954	0.4051616	0.4051616	0.4000000	101.3
4.60	AR1016-3	59684	0.4050783	0.4050783	0.4000000	101.3
6.19	AR1260-1	32267	0.3888718	0.3888718	0.4000000	97.2
6.55	AR1260-2	18529	0.3881971	0.3881971	0.4000000	97.0
6.79	AR1260-3	20545	0.3909314	0.3909314	0.4000000	97.7
8.57	Decachlorobiphenyl	36135	0.0409386	0.0409386	0.0400000	102.3

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:37
Operator	: borges	Sample Name	: AR16601A2
Sample Number	: 04	Study	: 28333
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 18:00:00	Cycle	: 4

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_b.rpt
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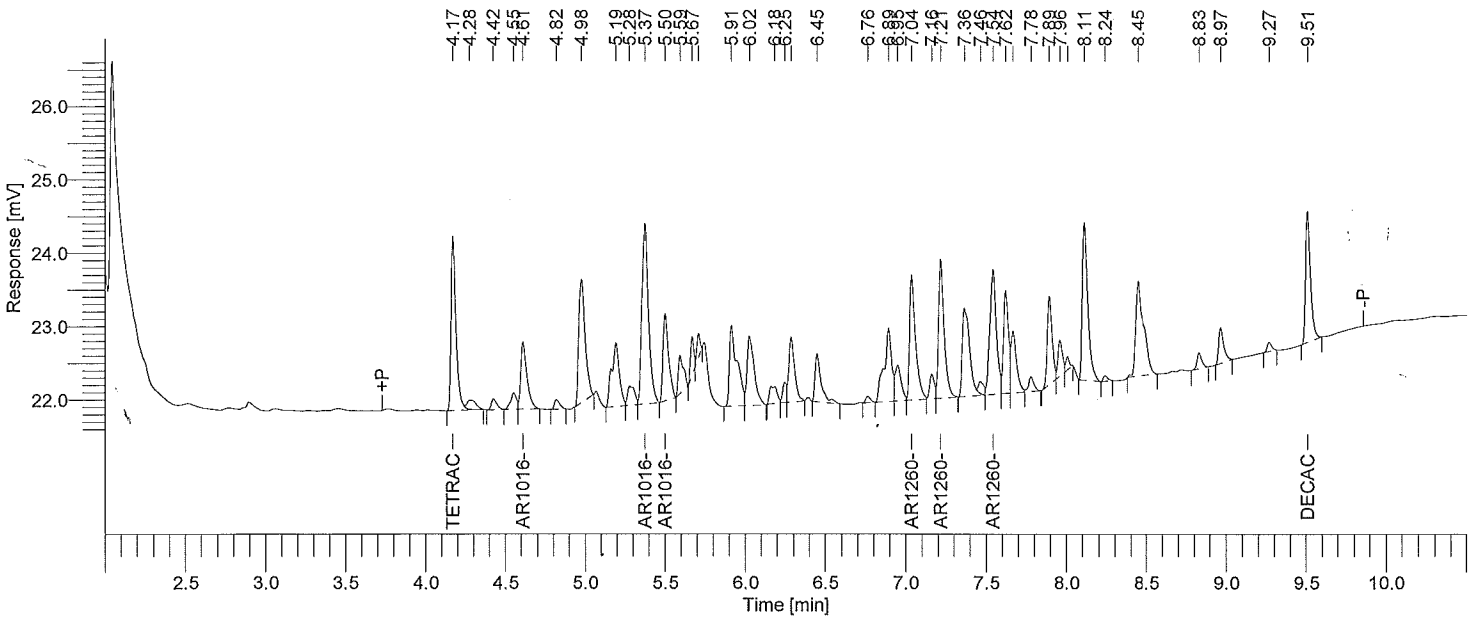

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	5077	0.0047879
4.61	AR1016-1	2443	0.1098619
5.37	AR1016-2	7020	0.0988461
5.50	AR1016-3	2830	0.0917687
7.04	AR1260-1	4283	0.1050195
7.21	AR1260-2	4570	0.1070684
7.54	AR1260-3	4855	0.1016288
9.51	Decachlorobiphenyl	3731	0.0104203

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:39
Operator	: borges	Sample Name	: AR16602A2
Sample Number	: 05	Study	: 28334
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 18:16:12	Cycle	: 5

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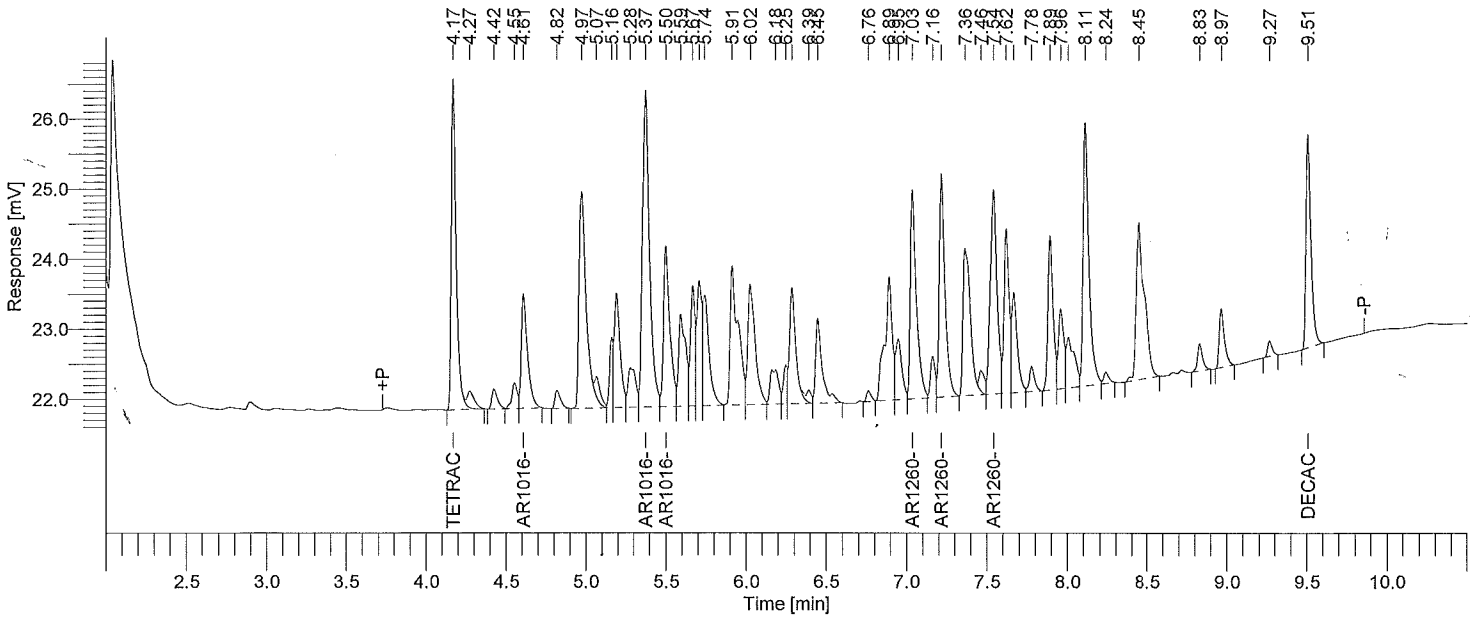
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_005.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	10054	0.0093486
4.61	AR1016-1	4409	0.1966594
5.37	AR1016-2	13733	0.1925957
5.50	AR1016-3	6306	0.2032714
7.03	AR1260-1	7664	0.1893873
7.21	AR1260-2	7956	0.1880559
7.54	AR1260-3	8507	0.1800913
9.51	Decachlorobiphenyl	6428	0.0181037

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:40
Operator	: borges	Sample Name	: AR16603A2
Sample Number	: 06	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 18:32:22	Cycle	: 6

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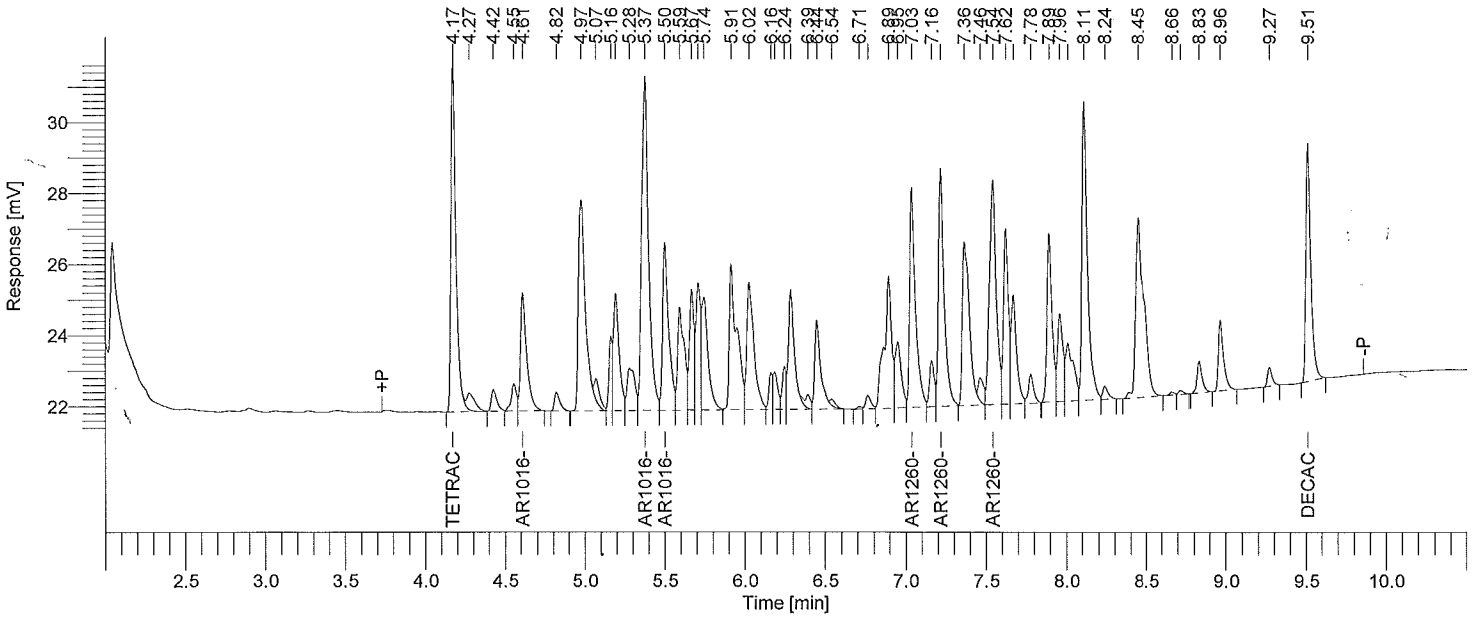

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	21606	0.0202651
4.61	AR1016-1	8869	0.3999868
5.37	AR1016-2	28315	0.4029440
5.50	AR1016-3	12536	0.4095723
7.03	AR1260-1	15557	0.3931518
7.21	AR1260-2	16278	0.3925972
7.54	AR1260-3	18354	0.3972639
9.51	Decachlorobiphenyl	14536	0.0414074

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:42
Operator	: borges	Sample Name	: AR16604A2
Sample Number	: 07	Study	: 28336
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 18:48:30	Cycle	: 7

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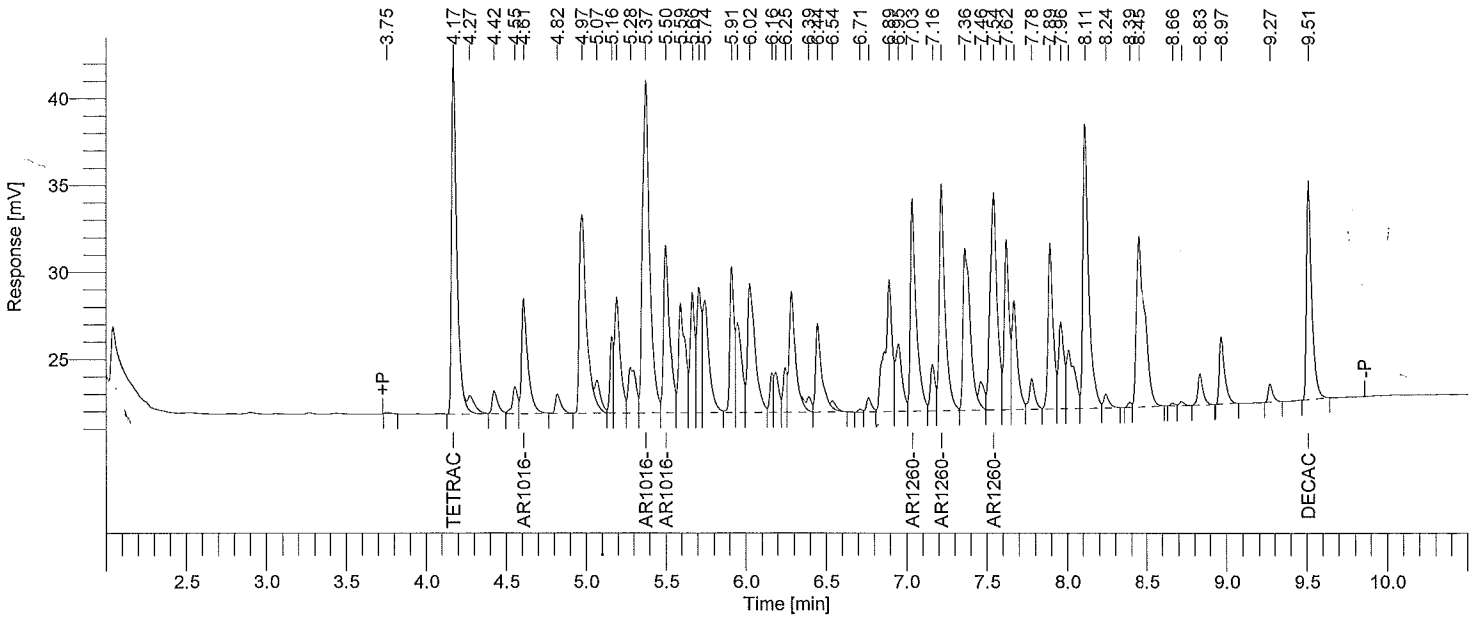

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	45884	0.0431281
4.61	AR1016-1	17844	0.8073913
5.37	AR1016-2	58513	0.8373220
5.50	AR1016-3	25714	0.8441655
7.03	AR1260-1	31083	0.7962539
7.21	AR1260-2	32438	0.7932167
7.54	AR1260-3	36820	0.8104353
9.51	Decachlorobiphenyl	27918	0.0806979

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:48
Operator	: borges	Sample Name	: AR16605A2
Sample Number	: 08	Study	: 28337
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 19:04:36	Cycle	: 8

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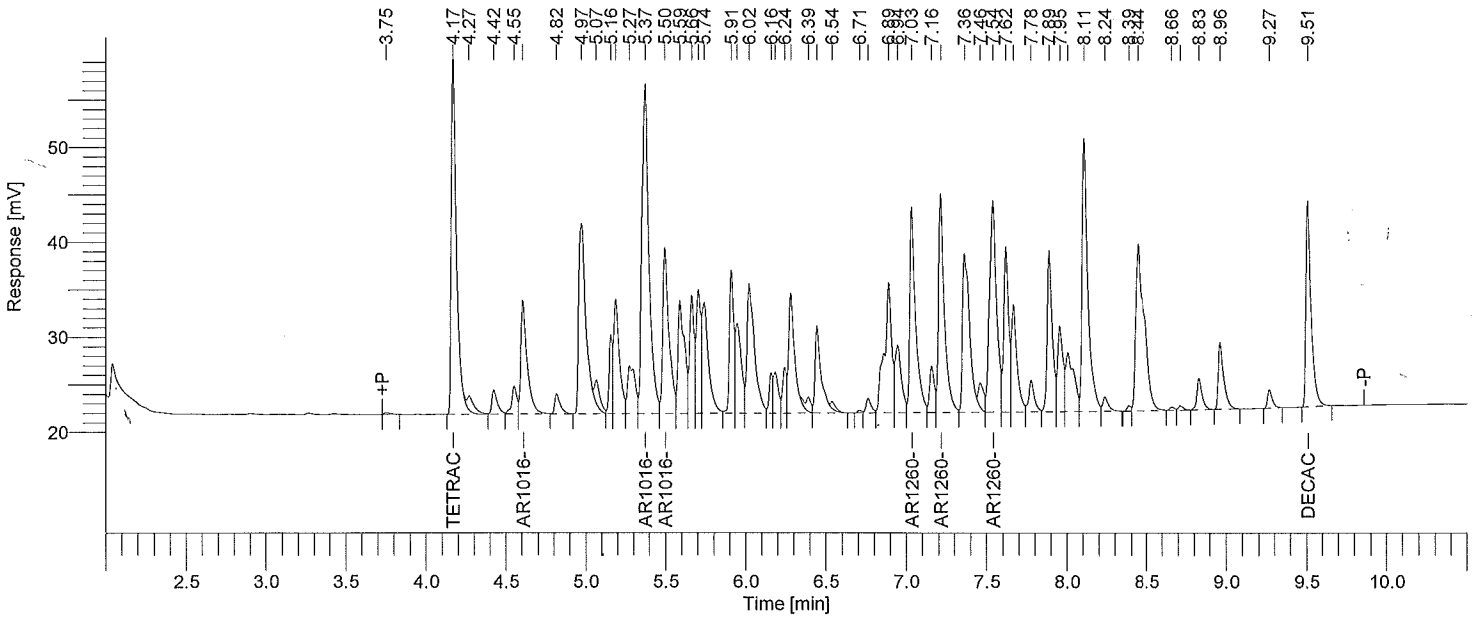

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	87529	0.0819199
4.61	AR1016-1	32249	1.4512430
5.37	AR1016-2	106962	1.5295786
5.50	AR1016-3	46748	1.5323985
7.03	AR1260-1	55100	1.4250337
7.21	AR1260-2	57460	1.4178203
7.54	AR1260-3	66080	1.4730584
9.51	Decachlorobiphenyl	49787	0.1448919

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:49
Operator	: borges	Sample Name	: AR12213A2
Sample Number	: 09	Study	: 28340
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 19:20:58	Cycle	: 9

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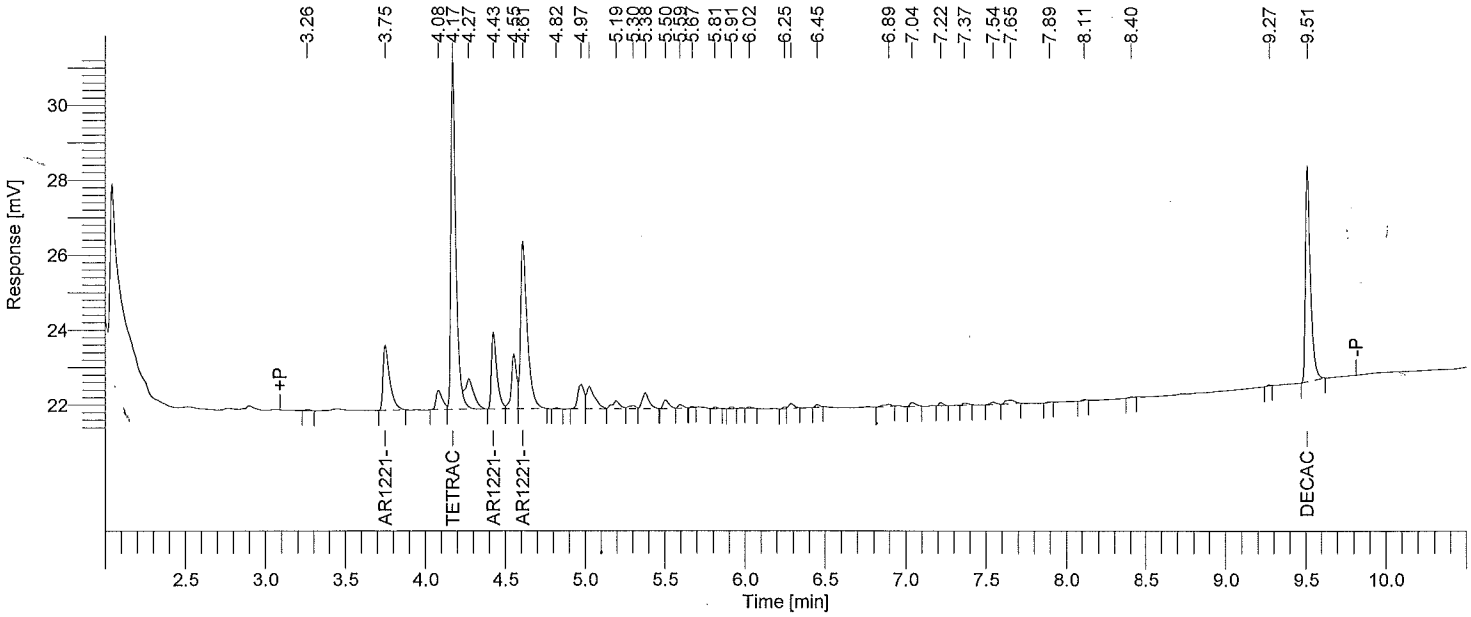

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.75	AR1221-1	5056	0.4000000
4.17	Tetrachloro-m-xylene	20371	0.0200000
4.43	AR1221-2	4866	0.4000000
4.61	AR1221-3	12851	0.4000000
9.51	Decachlorobiphenyl	12563	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:50
Operator	: borges	Sample Name	: AR12323A2
Sample Number	: 10	Study	: 28346
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 19:37:08	Cycle	: 10

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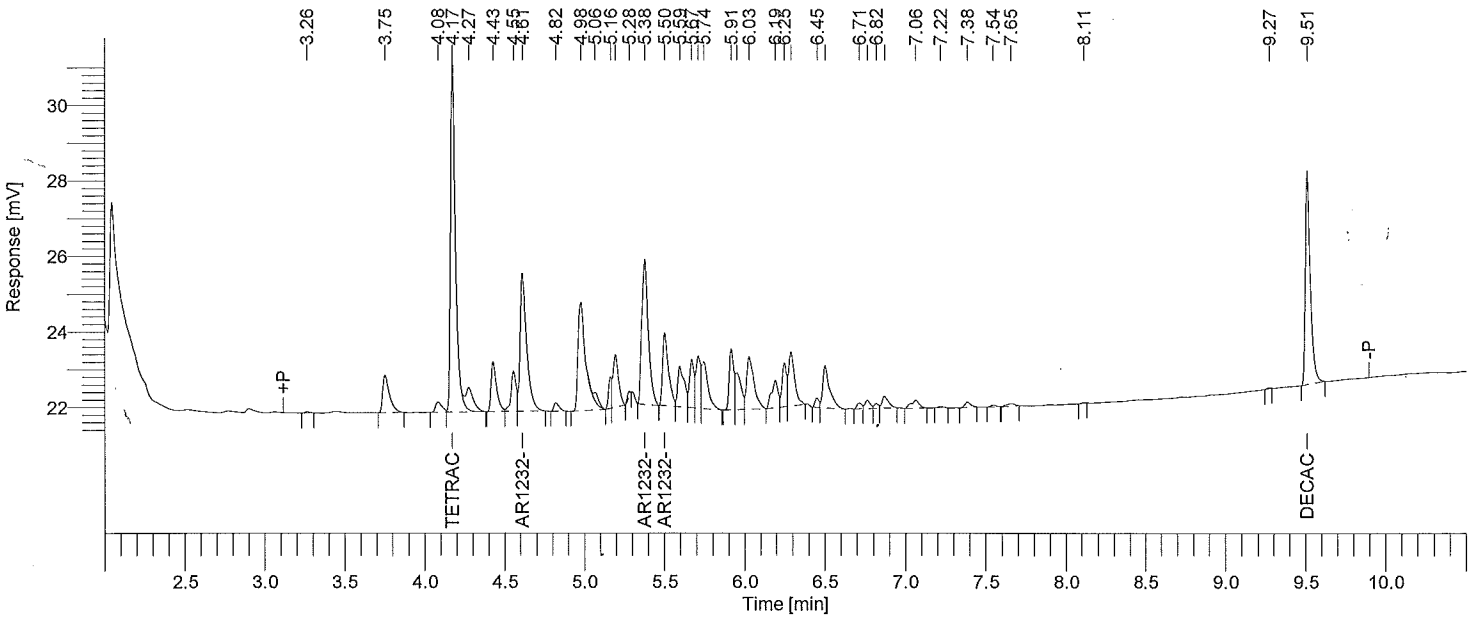

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	20221	0.0200000
4.61	AR1232-1	10324	0.4000000
5.38	AR1232-2	10998	0.4000000
5.50	AR1232-3	4886	0.4000000
9.51	Decachlorobiphenyl	12309	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:53
Operator	: borges	Sample Name	: AR12423A2
Sample Number	: 11	Study	: 28351
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 19:53:20	Cycle	: 11

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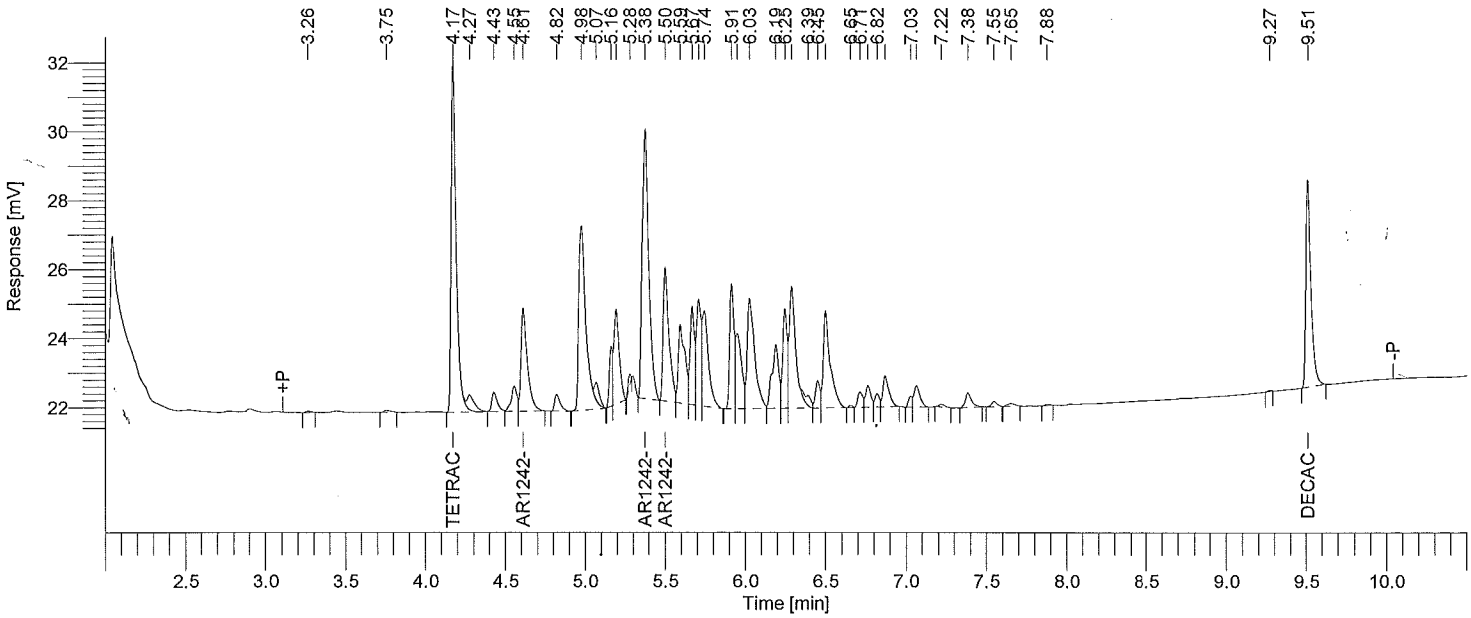

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	22472	0.0200000
4.61	AR1242-1	8127	0.4000000
5.38	AR1242-2	22379	0.4000000
5.50	AR1242-3	9741	0.4000000
9.51	Decachlorobiphenyl	13265	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:55
Operator	: borges	Sample Name	: AR12483A2
Sample Number	: 12	Study	: 28356
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/15/2015 20:09:28	Dilution Factor	: 1.00
		Cycle	: 12

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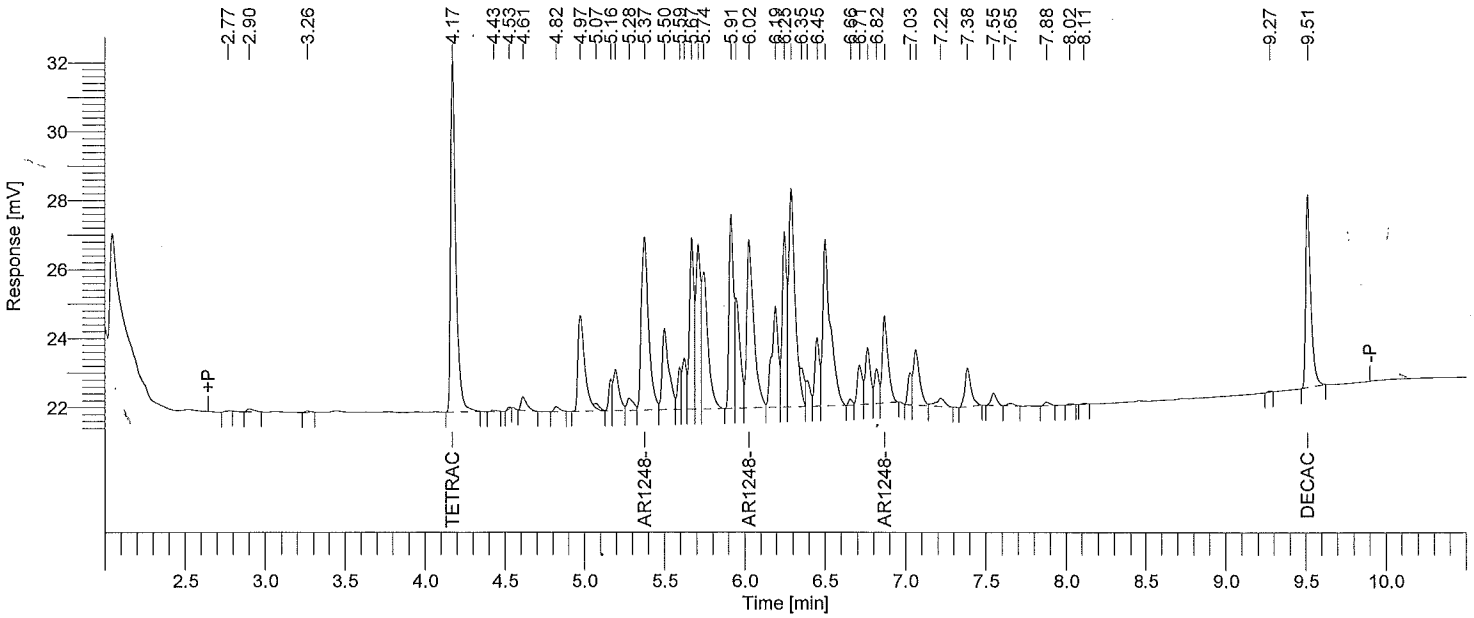
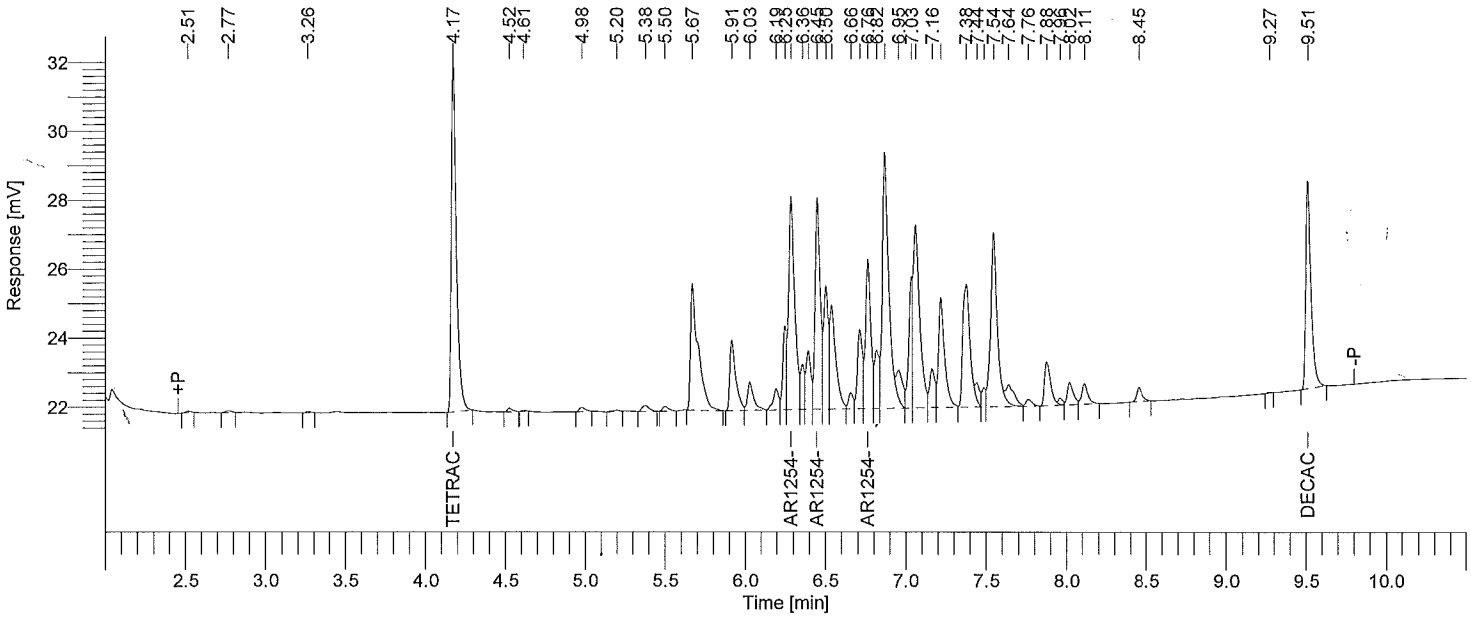


Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	22529	0.0200000
5.37	AR1248-1	15595	0.4000000
6.02	AR1248-2	14672	0.4000000
6.87	AR1248-3	6316	0.4000000
9.51	Decachlorobiphenyl	12354	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:56
Operator	: borges	Sample Name	: AR12543A2
Sample Number	: 13	Study	: 28361
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/15/2015 20:25:33	Dilution Factor	: 1.00
		Cycle	: 13

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_013.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_013.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150615\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_013.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_54_sp_b from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_013.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_54_sp_b from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_013.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	22397	0.0200000
6.28	AR1254-1	15769	0.4000000
6.45	AR1254-2	13562	0.4000000
6.76	AR1254-3	9921	0.4000000
9.51	Decachlorobiphenyl	13343	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:57
Operator	: borges	Sample Name	: AR12623A2
Sample Number	: 14	Study	: 28366
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/15/2015 20:41:39	Dilution Factor	: 1.00
		Cycle	: 14

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_014.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_62_sp_b from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_014.rst
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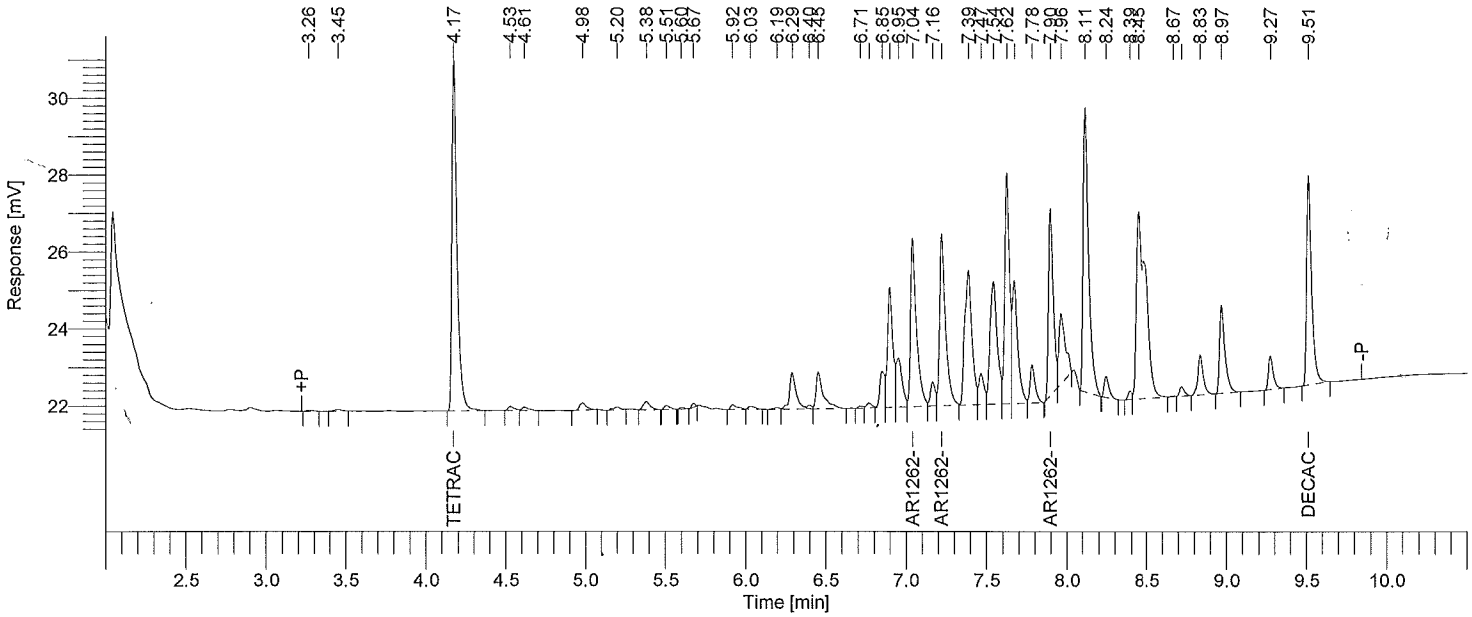

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	20058	0.0200000
7.04	AR1262-1	11277	0.4000000
7.22	AR1262-2	11377	0.4000000
7.90	AR1262-3	10061	0.4000000
9.51	Decachlorobiphenyl	12120	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:59
Operator	: borges	Sample Name	: AR12683A2
Sample Number	: 15	Study	: 28371
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 20:57:46	Cycle	: 15

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_015.raw
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Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150615\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_015.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_68_sp_b from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_015.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_68_sp_b from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_015.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_b.rpt
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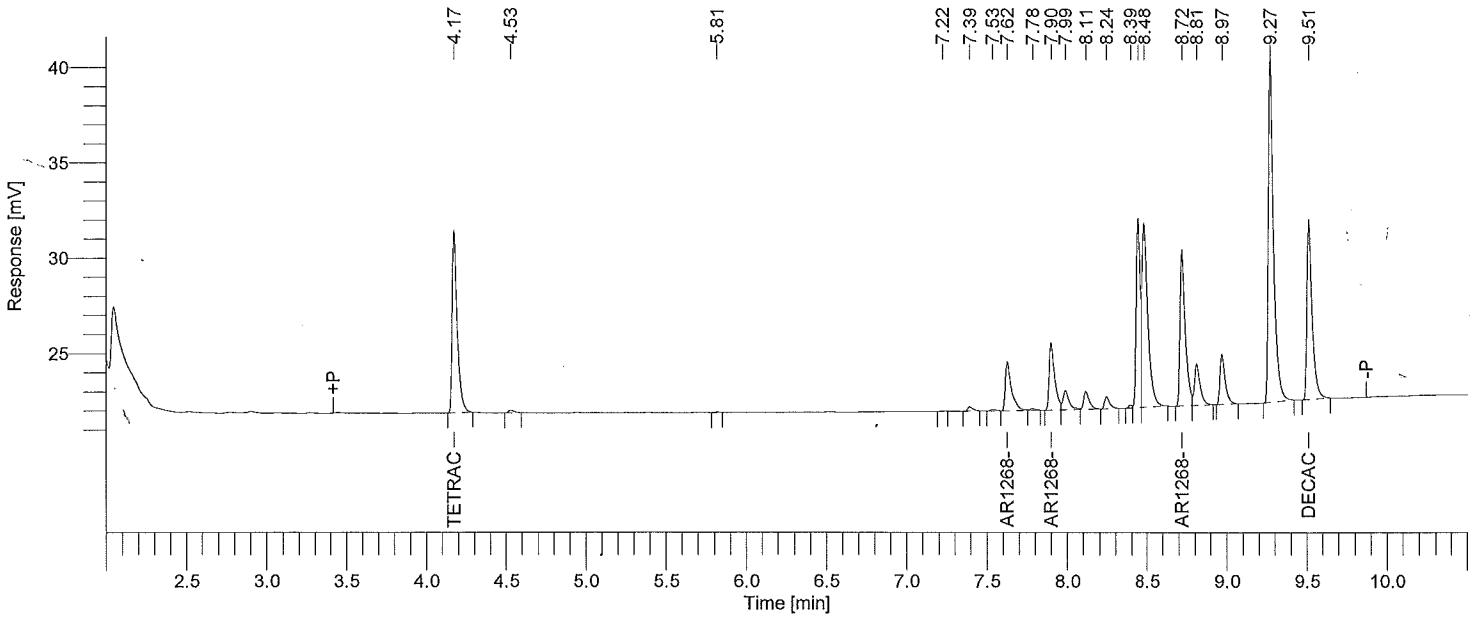

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	20685	0.0200000
7.62	AR1268-1	6685	0.4000000
7.90	AR1268-2	8334	0.4000000
8.72	AR1268-3	17832	0.4000000
9.51	Decachlorobiphenyl	21221	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:35:05
Operator	: borges	Sample Name	: AR16603B2
Sample Number	: 17	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 21:30:04	Cycle	: 17

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_017.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_017.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150615\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_017.raw
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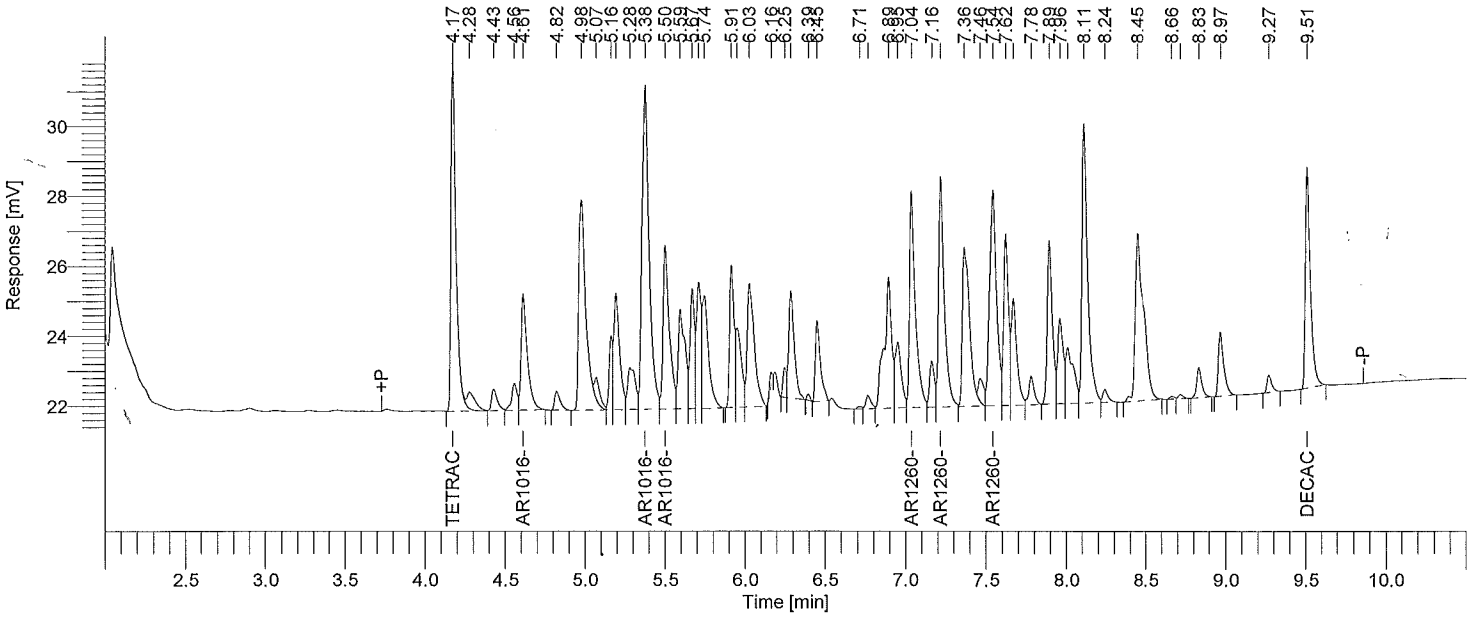

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.17	Tetrachloro-m-xylene	22025	0.0206138	0.0206138	0.0200000	103.1
4.61	AR1016-1	9061	0.4077459	0.4077459	0.4000000	101.9
5.38	AR1016-2	28400	0.4061291	0.4061291	0.4000000	101.5
5.50	AR1016-3	12680	0.4156371	0.4156371	0.4000000	103.9
7.04	AR1260-1	15765	0.4077124	0.4077124	0.4000000	101.9
7.21	AR1260-2	16222	0.4002753	0.4002753	0.4000000	100.1
7.54	AR1260-3	17969	0.4005632	0.4005632	0.4000000	100.1
9.51	Decachlorobiphenyl	13923	0.0405194	0.0405194	0.0400000	101.3

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:35:08
Operator	: borges	Sample Name	: AR16603C2
Sample Number	: 48	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/48
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/16/2015 05:50:44	Cycle	: 48

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_048.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_048.rst
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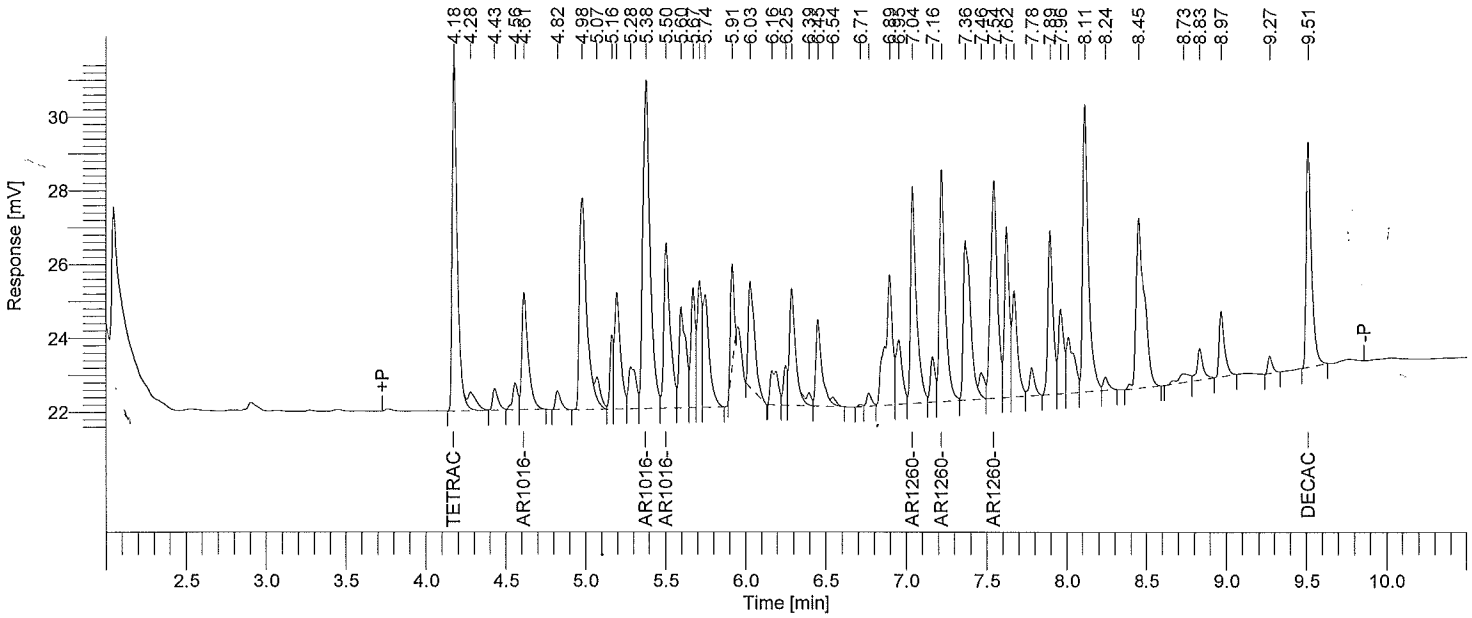
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_aroclor_ccv_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.18	Tetrachloro-m-xylene	20991	0.0196463	0.0196463	0.0200000	98.2
4.61	AR1016-1	8590	0.3865425	0.3865425	0.4000000	96.6
5.38	AR1016-2	27556	0.3940638	0.3940638	0.4000000	98.5
5.50	AR1016-3	12193	0.3996809	0.3996809	0.4000000	99.9
7.04	AR1260-1	14884	0.3849491	0.3849491	0.4000000	96.2
7.22	AR1260-2	15554	0.3837815	0.3837815	0.4000000	95.9
7.54	AR1260-3	17200	0.3834294	0.3834294	0.4000000	95.9
9.51	Decachlorobiphenyl	13681	0.0398157	0.0398157	0.0400000	99.5

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450508

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150615A019,20150615B019

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:44:05
Operator	: borges	Sample Name	: 450508
Sample Number	: 19	Study	: ABLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/19
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 21:46:08	Cycle	: 2

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_019.raw
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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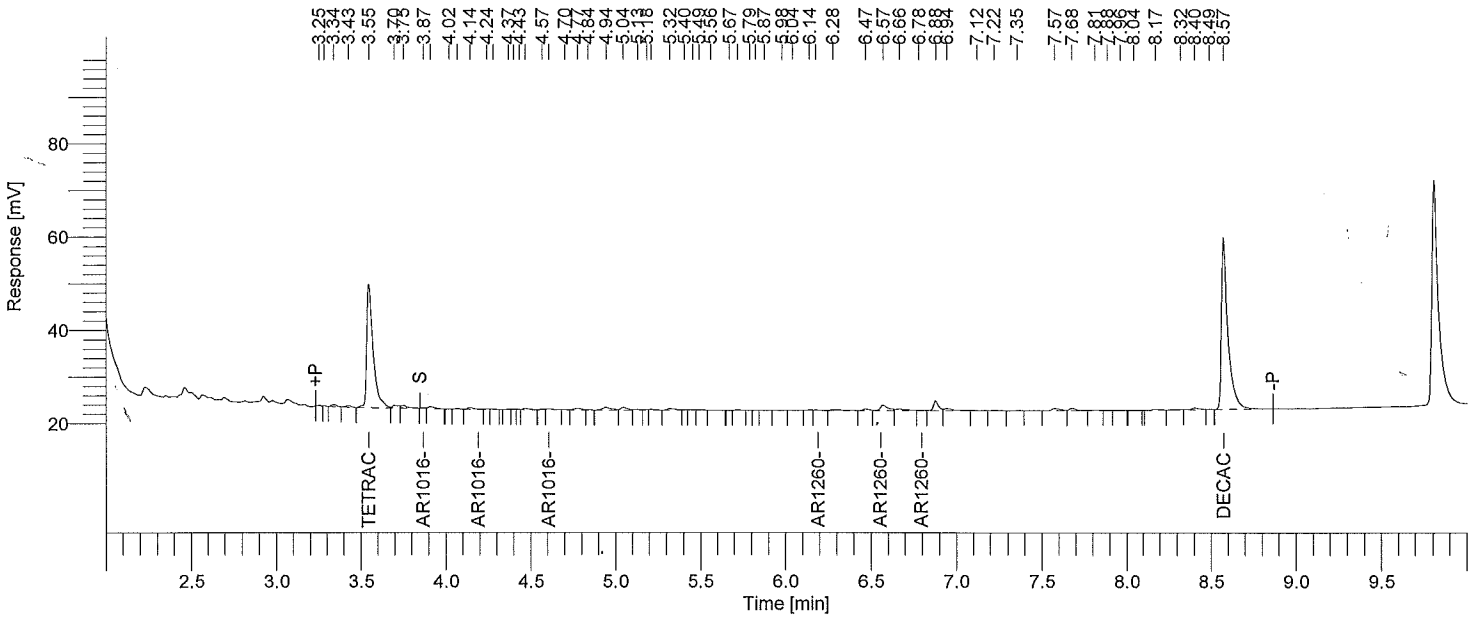

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	68633	0.03590297	1	10	0.03000	1.000	1.6667	11.96766	20.00	59.8
3.87	AR1016-1	212	5.3467e-03	1	10	0.03000	1.000	33.3333	1.78222	0.00	------
4.24	AR1016-2	248	3.1448e-03	1	10	0.03000	1.000	33.3333	1.04827	0.00	------
4.61	AR1016-3	688	4.6673e-03	1	10	0.03000	1.000	33.3333	1.55575	0.00	------
6.17	AR1260-1	411	4.9525e-03	1	10	0.03000	1.000	33.3333	1.65084	0.00	------
6.57	AR1260-2	3942	0.08257641	1	10	0.03000	1.000	33.3333	27.52547	0.00	------
6.78	AR1260-3	332	6.3252e-03	1	10	0.03000	1.000	33.3333	2.10838	0.00	------
8.57	Decachlorobiphenyl	97238	0.11016392	1	10	0.03000	1.000	3.3333	36.72131	40.00	91.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:45:29
Operator	: borges	Sample Name	: 450508
Sample Number	: 19	Study	: ABLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/19
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 22:02:14	Cycle	: 3

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_019.raw
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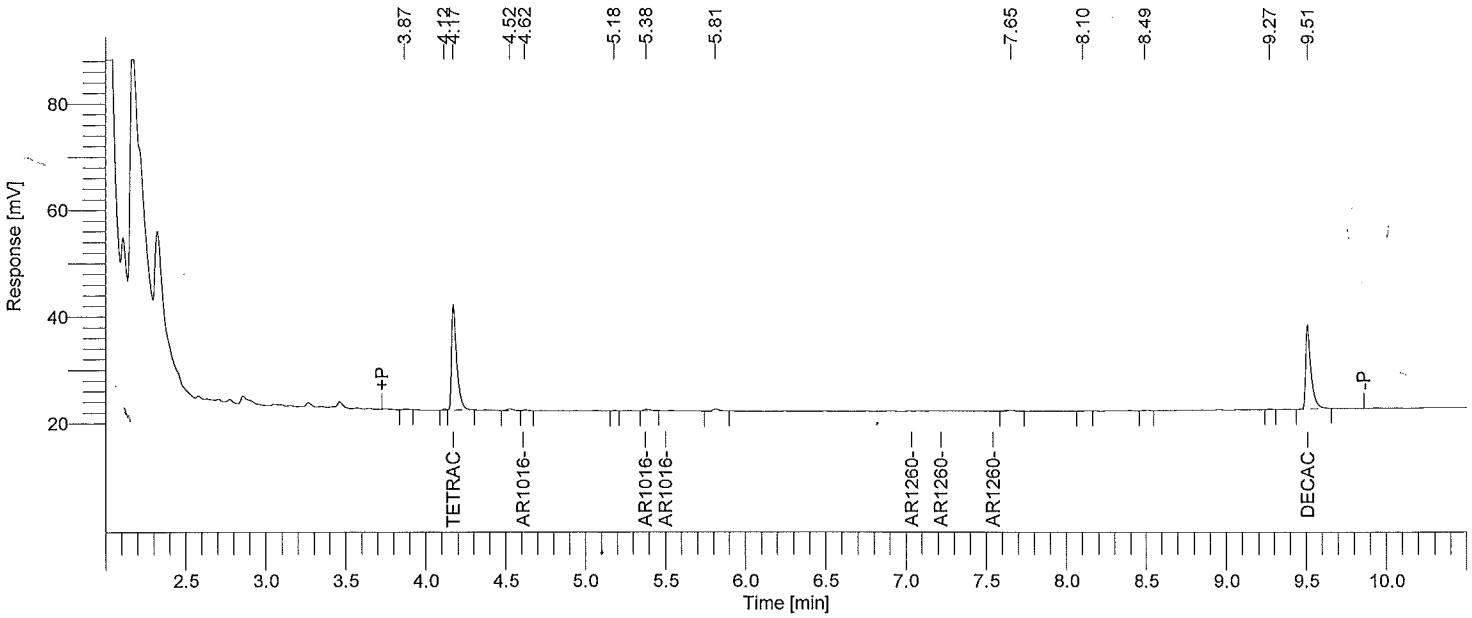
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_019.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_019.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	43817	0.04100910	1	10	0.03000	1.000	1.6667	13.66970	20.00	68.3
4.62	AR1016-1	329	0.01478477	1	10	0.03000	1.000	33.3333	4.92826	0.00	------
5.38	AR1016-2	819	0.01170778	1	10	0.03000	1.000	33.3333	3.90259	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
7.21	AR1260-2	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	36055	0.10492915	1	10	0.03000	1.000	3.3333	34.97638	40.00	87.4

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKB1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKB1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150615A016

% Moisture: 0.0 Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) _____ pH: _____ Sulfur Cleanup: (Y/N) _____

Acid Cleanup: (Y/N) _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:25
Operator	: borges	Sample Name	: AIBLKB1
Sample Number	: 16	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 20:57:46	Cycle	: 15

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Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_a from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_016.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_instrument blank_a.rpt
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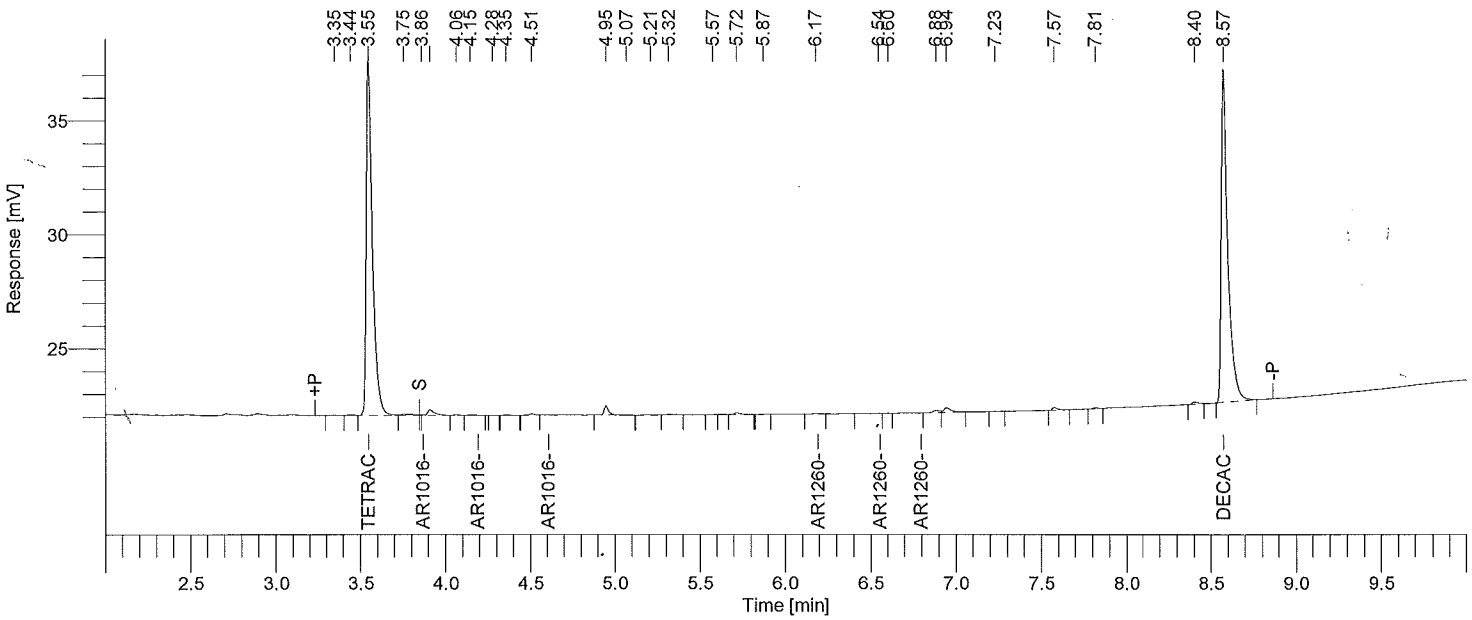

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
3.55	Tetrachloro-m-xylene	39135	0.020472	1	10	1.000	1.000	0.050000	0.204721	0.2000	102.4
3.86	AR1016-1	9	2.17e-04	1	10	1.000	1.000	1.000000	0.002175	0.0000	-----
4.15	AR1016-2	81	1.03e-03	1	10	1.000	1.000	1.000000	0.010333	0.0000	-----
4.61	AR1016-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.17	AR1260-1	46	5.49e-04	1	10	1.000	1.000	1.000000	0.005491	0.0000	-----
6.54	AR1260-2	39	8.24e-04	1	10	1.000	1.000	1.000000	0.008237	0.0000	-----
6.80	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.57	Decachlorobiphenyl	38330	0.043425	1	10	1.000	1.000	0.100000	0.434251	0.4000	108.6

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKC1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKC1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150615A047

% Moisture: 0.0 Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/16/2015

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) _____ pH: _____ Sulfur Cleanup: (Y/N) _____

Acid Cleanup: (Y/N) _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:34:28
Operator	: borges	Sample Name	: AIBLKC1
Sample Number	: 47	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/47
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/16/2015 05:18:20	Cycle	: 46

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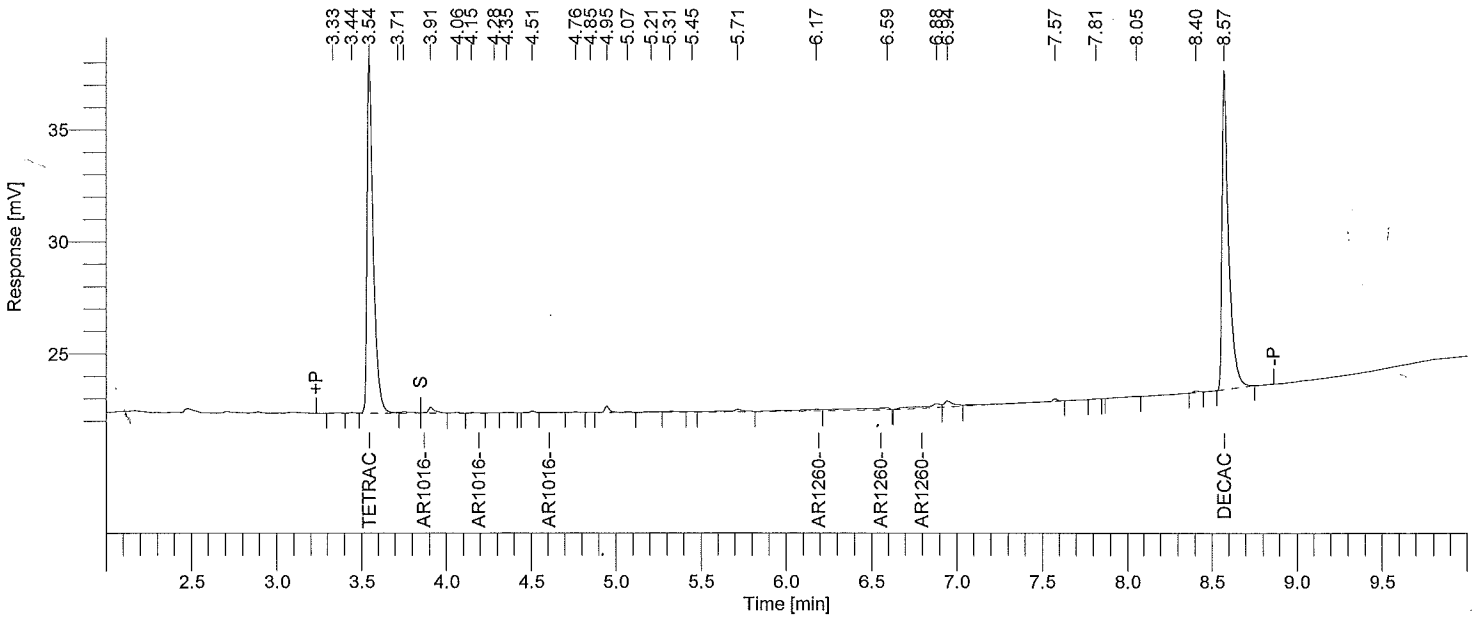
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_a from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_047.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_a from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_047.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_instrument blank_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
3.54	Tetrachloro-m-xylene	39297	0.020557	1	10	1.000	1.000	0.050000	0.205571	0.2000	102.8
3.91	AR1016-1	701	0.017714	1	10	1.000	1.000	1.000000	0.177140	0.0000	-----
4.15	AR1016-2	103	1.30e-03	1	10	1.000	1.000	1.000000	0.013030	0.0000	-----
4.61	AR1016-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.17	AR1260-1	1067	0.012857	1	10	1.000	1.000	1.000000	0.128566	0.0000	-----
6.59	AR1260-2	1554	0.032559	1	10	1.000	1.000	1.000000	0.325588	0.0000	-----
6.80	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.57	Decachlorobiphenyl	37563	0.042556	1	10	1.000	1.000	0.100000	0.425562	0.4000	106.4

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKB2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKB2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150615B016

% Moisture: 0.0 Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) _____ pH: _____ Sulfur Cleanup: (Y/N) _____

Acid Cleanup: (Y/N) _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:35:00
Operator	: borges	Sample Name	: AIBLKB2
Sample Number	: 16	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 21:13:54	Cycle	: 16

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_instrument blank_b.rpt
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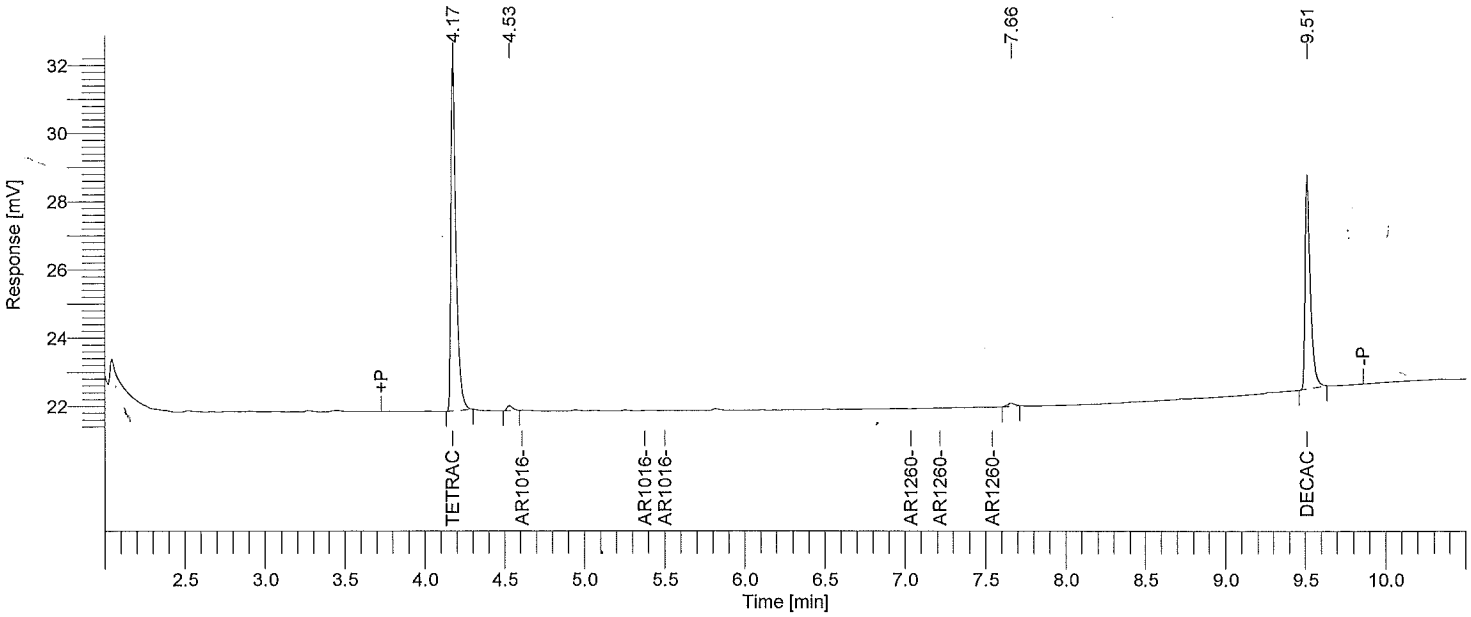

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.17	Tetrachloro-m-xylene	22793	0.021332	1	10	1.000	1.000	0.050000	0.213324	0.2000	106.7
4.61	AR1016-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.38	AR1016-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.50	AR1016-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.04	AR1260-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.21	AR1260-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.54	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.51	Decachlorobiphenyl	13984	0.040697	1	10	1.000	1.000	0.100000	0.406969	0.4000	101.7

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKC2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKC2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150615B047

% Moisture: 0.0 Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/16/2015

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) _____ pH: _____ Sulfur Cleanup: (Y/N) _____

Acid Cleanup: (Y/N) _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:35:07
Operator	: borges	Sample Name	: AIBLKC2
Sample Number	: 47	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/47
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/16/2015 05:34:28	Cycle	: 47

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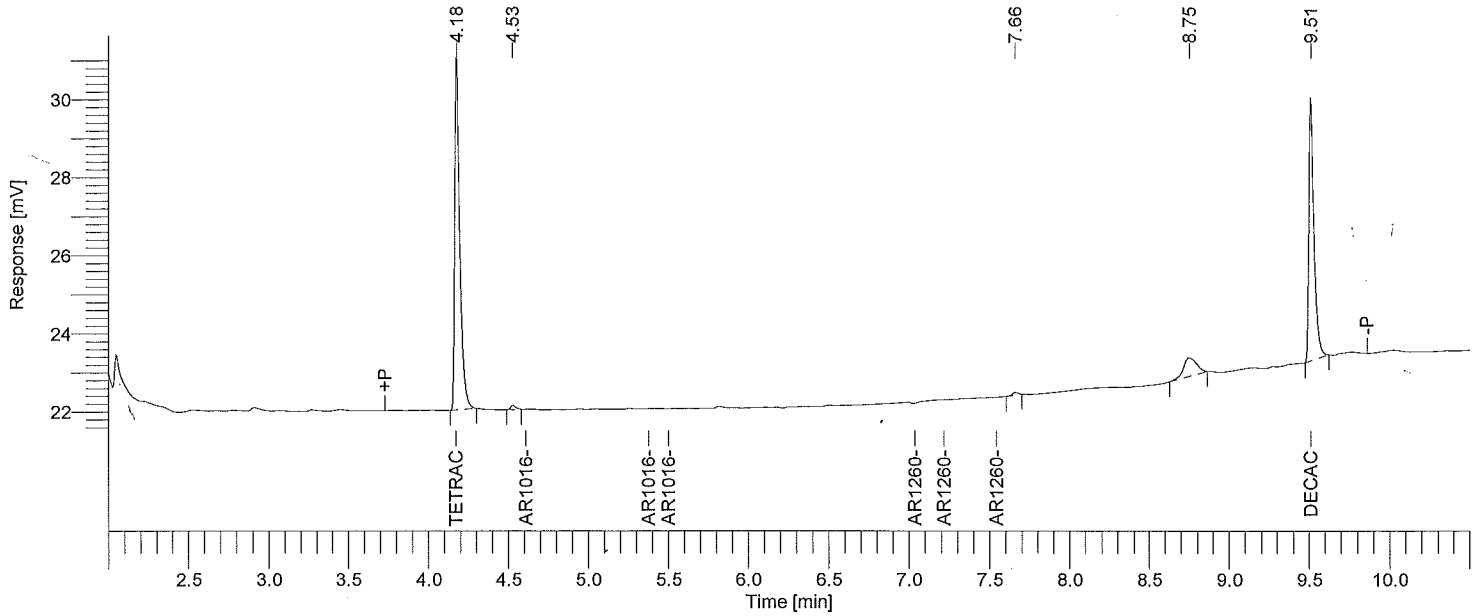
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615_SOM_AROS_F9M36_F9M15_F9M48_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.18	Tetrachloro-m-xylene	19706	0.018443	1	10	1.000	1.000	0.050000	0.184433	0.2000	92.2
4.61	AR1016-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.38	AR1016-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.50	AR1016-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.04	AR1260-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.21	AR1260-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.54	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.51	Decachlorobiphenyl	15014	0.043694	1	10	1.000	1.000	0.100000	0.436941	0.4000	109.2

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M36MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552002

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150615A022

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	130	
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	110	P
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:44:10
Operator	: borges	Sample Name	: 1515552002
Sample Number	: 22	Study	: F9M36MS
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 22:34:24	Cycle	: 5

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615A_022.raw
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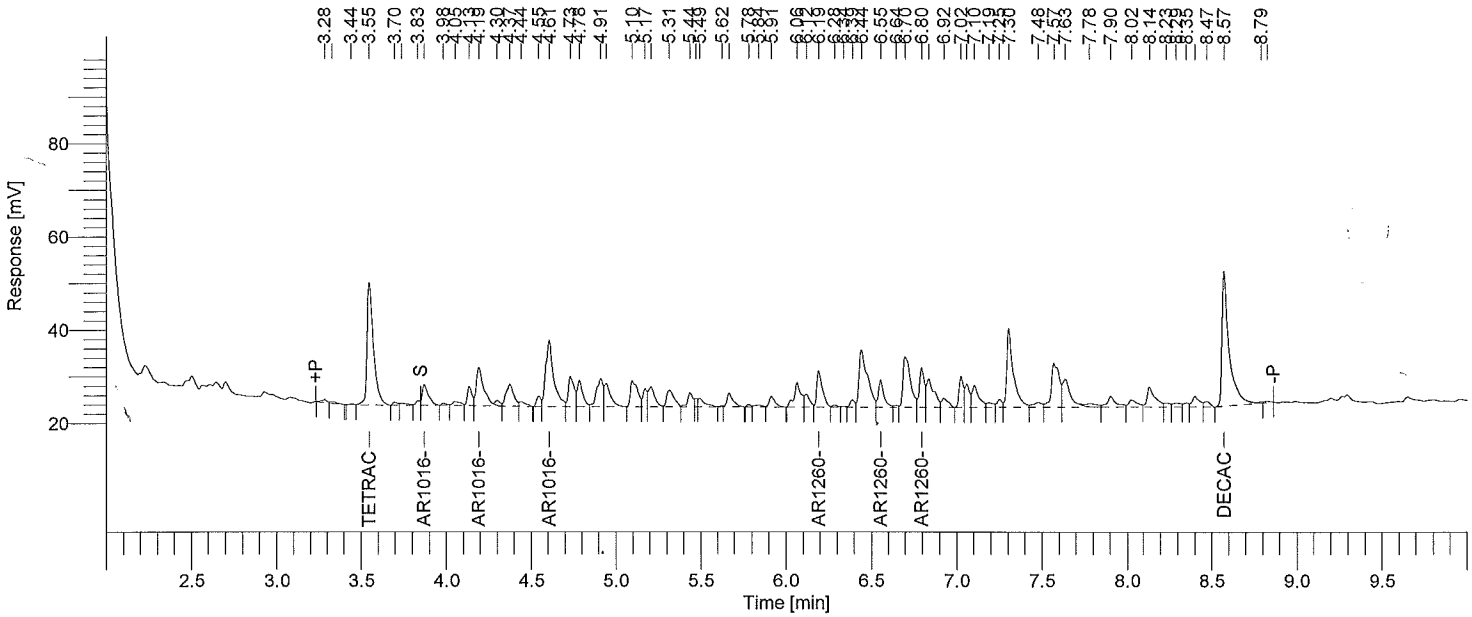

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	68632	0.03590233	1	10	0.03013	0.996	1.6595	11.91581	19.91	59.8
3.87	AR1016-1	11206	0.28318189	1	10	0.03013	0.996	33.1895	93.98669	0.00	------
4.19	AR1016-2	26200	0.33220328	1	10	0.03013	0.996	33.1895	110.25665	0.00	------
4.61	AR1016-3	45758	0.31056601	1	10	0.03013	0.996	33.1895	103.07534	0.00	------
6.19	AR1260-1	18050	0.21752747	1	10	0.03013	0.996	33.1895	72.19631	0.00	------
6.55	AR1260-2	12986	0.27206288	1	10	0.03013	0.996	33.1895	90.29634	0.00	------
6.80	AR1260-3	16831	0.32025261	1	10	0.03013	0.996	33.1895	106.29028	0.00	------
8.57	Decachlorobiphenyl	84083	0.09525963	1	10	0.03013	0.996	3.3190	31.61621	39.83	79.4

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M36MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552002

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150615B022

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	140	P
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:45:34
Operator	: borges	Sample Name	: 1515552002
Sample Number	: 22	Study	: F9M36MS
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 22:50:32	Cycle	: 6

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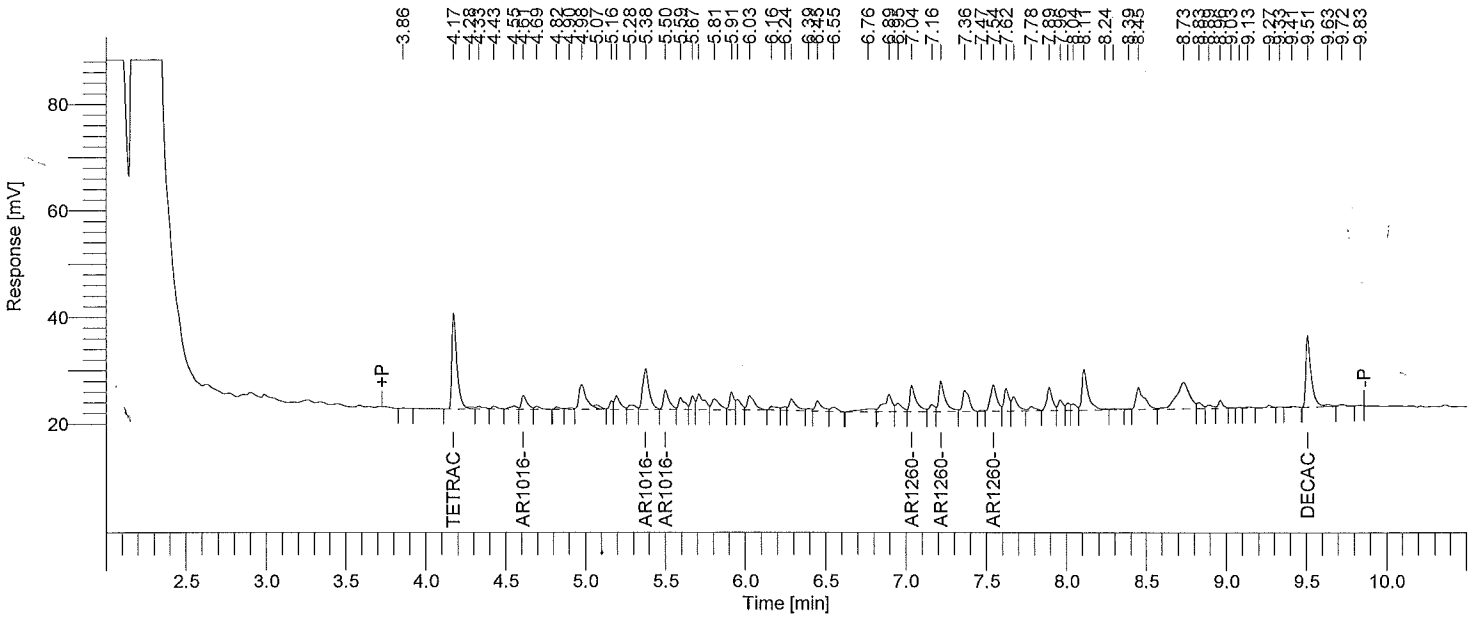

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	39440	0.03691246	1	10	0.03013	0.996	1.6595	12.25107	19.91	61.5
4.61	AR1016-1	6184	0.27828082	1	10	0.03013	0.996	33.1895	92.36005	0.00	------
5.38	AR1016-2	21578	0.30857655	1	10	0.03013	0.996	33.1895	102.41505	0.00	------
5.50	AR1016-3	9075	0.29746925	1	10	0.03013	0.996	33.1895	98.72859	0.00	------
7.04	AR1260-1	13544	0.35028182	1	10	0.03013	0.996	33.1895	116.25683	0.00	------
7.21	AR1260-2	15460	0.38148035	1	10	0.03013	0.996	33.1895	126.61147	0.00	------
7.54	AR1260-3	13679	0.30492646	1	10	0.03013	0.996	33.1895	101.20360	0.00	------
9.51	Decachlorobiphenyl	30746	0.08947741	1	10	0.03013	0.996	3.3190	29.69712	39.83	74.6

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M36MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552003

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 20150615A023

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	160	
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	140	
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:44:12
Operator	: borges	Sample Name	: 1515552003
Sample Number	: 23	Study	: F9M36MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/23
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 22:50:32	Cycle	: 6

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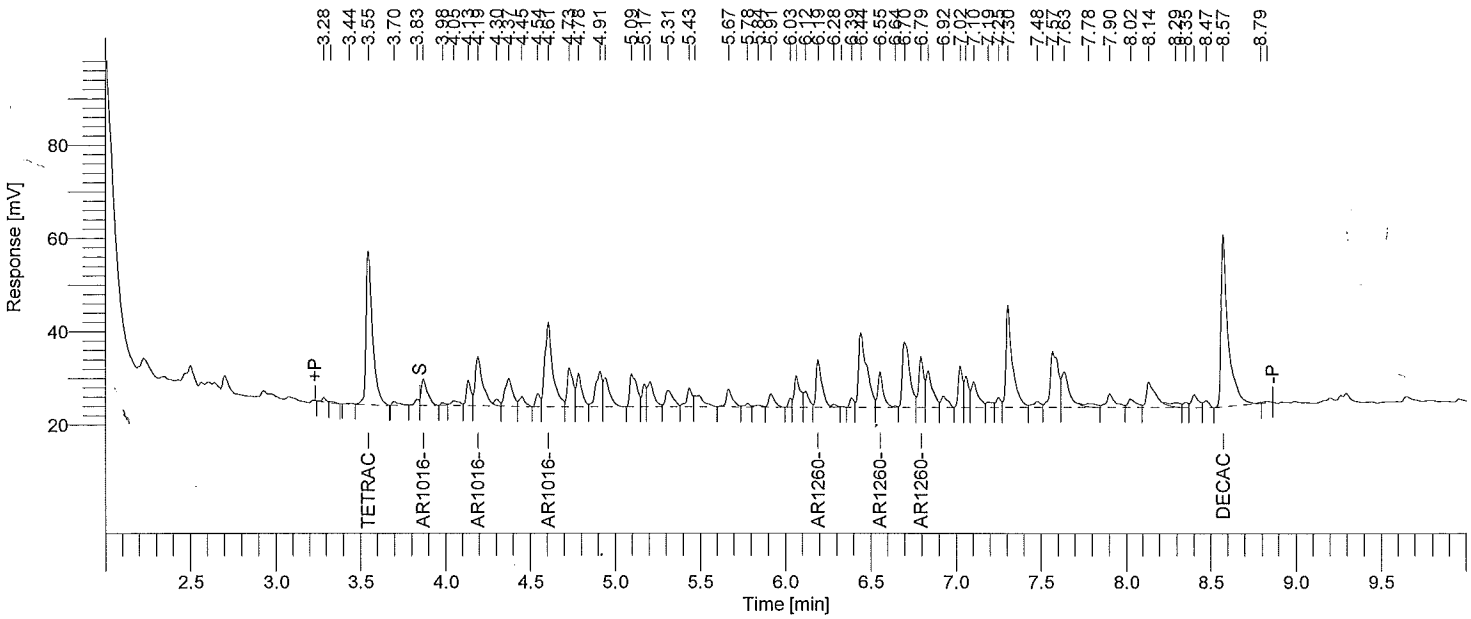

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	86388	0.04519080	1	10	0.03050	0.984	1.6393	14.81665	19.67	75.3
3.87	AR1016-1	13955	0.35264335	1	10	0.03050	0.984	32.7869	115.62077	0.00	------
4.19	AR1016-2	32892	0.41706422	1	10	0.03050	0.984	32.7869	136.74237	0.00	------
4.61	AR1016-3	58148	0.39465735	1	10	0.03050	0.984	32.7869	129.39585	0.00	------
6.19	AR1260-1	24070	0.29008871	1	10	0.03050	0.984	32.7869	95.11105	0.00	------
6.55	AR1260-2	16752	0.35096310	1	10	0.03050	0.984	32.7869	115.06987	0.00	------
6.79	AR1260-3	21310	0.40548017	1	10	0.03050	0.984	32.7869	132.94432	0.00	------
8.57	Decachlorobiphenyl	105378	0.11938592	1	10	0.03050	0.984	3.2787	39.14292	39.34	99.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M36MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515552003

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 20150615B023

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	150	
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	180	
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:45:36
Operator	: borges	Sample Name	: 1515552003
Sample Number	: 23	Study	: F9M36MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/23
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 23:06:42	Cycle	: 7

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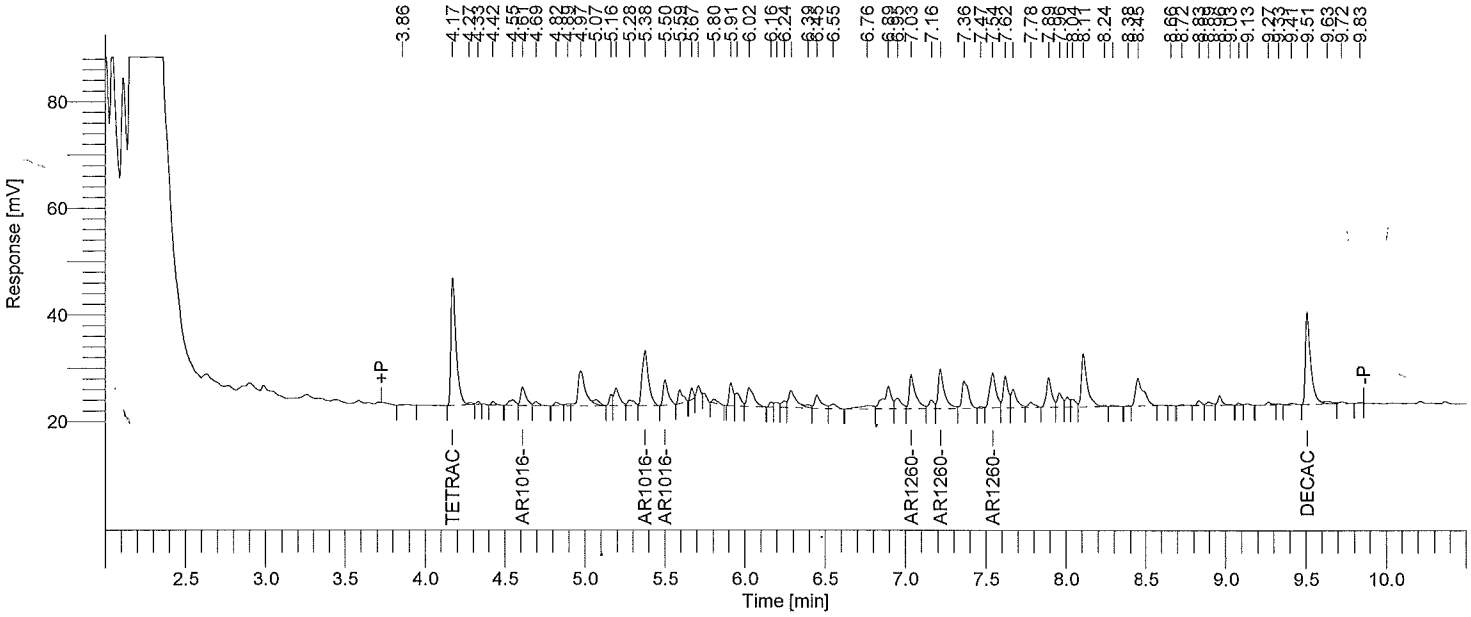

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	52442	0.04908147	1	10	0.03050	0.984	1.6393	16.09229	19.67	81.8
4.61	AR1016-1	8197	0.36889018	1	10	0.03050	0.984	32.7869	120.94760	0.00	------
5.38	AR1016-2	28412	0.40630523	1	10	0.03050	0.984	32.7869	133.21483	0.00	------
5.50	AR1016-3	10424	0.34170421	1	10	0.03050	0.984	32.7869	112.03417	0.00	------
7.03	AR1260-1	16934	0.43795992	1	10	0.03050	0.984	32.7869	143.59342	0.00	------
7.21	AR1260-2	19031	0.46958002	1	10	0.03050	0.984	32.7869	153.96066	0.00	------
7.54	AR1260-3	17661	0.39369877	1	10	0.03050	0.984	32.7869	129.08157	0.00	------
9.51	Decachlorobiphenyl	40023	0.11647649	1	10	0.03050	0.984	3.2787	38.18901	39.34	97.1

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSS1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450510

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150615A020

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	36.	
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	36.	
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:44:07
Operator	: borges	Sample Name	: 450510
Sample Number	: 20	Study	: ALCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 22:02:14	Cycle	: 3

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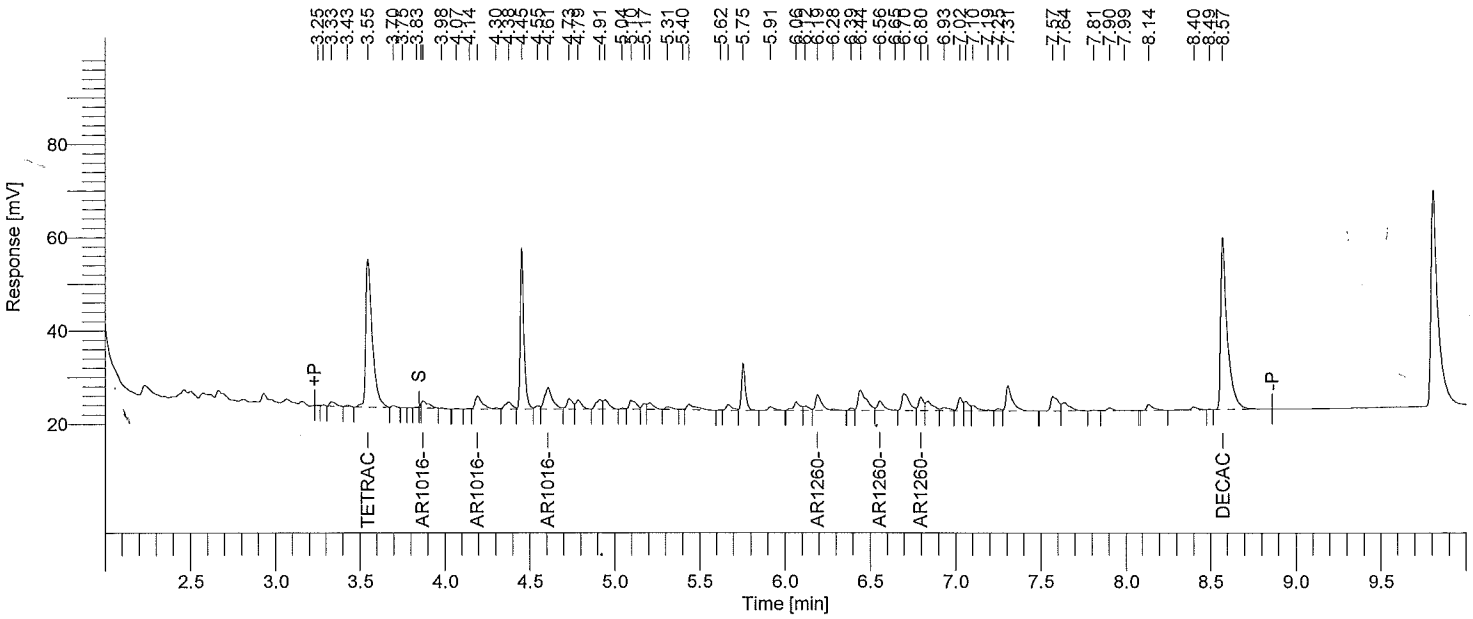

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	84024	0.04395418	1	10	0.030	1.000	1.6667	14.65139	20.00	73.3
3.87	AR1016-1	4383	0.11076524	1	10	0.030	1.000	33.3333	36.92175	33.33	110.8
4.19	AR1016-2	8539	0.10827411	1	10	0.030	1.000	33.3333	36.09137	33.33	108.3
4.61	AR1016-3	14972	0.10161668	1	10	0.030	1.000	33.3333	33.87223	33.33	101.6
6.19	AR1260-1	8368	0.10084418	1	10	0.030	1.000	33.3333	33.61473	33.33	100.8
6.56	AR1260-2	5317	0.11139355	1	10	0.030	1.000	33.3333	37.13118	33.33	111.4
6.80	AR1260-3	5754	0.10948154	1	10	0.030	1.000	33.3333	36.49385	33.33	109.5
8.57	Decachlorobiphenyl	97133	0.11004488	1	10	0.030	1.000	3.3333	36.68163	40.00	91.7

Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSS1(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M36

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450510

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150615B020

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/08/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/15/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	36.	
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	38.	
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:45:31
Operator	: borges	Sample Name	: 450510
Sample Number	: 20	Study	: ALCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/15/2015 22:18:14	Cycle	: 4

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_020.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150615\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_020.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_lcs_b.rpt
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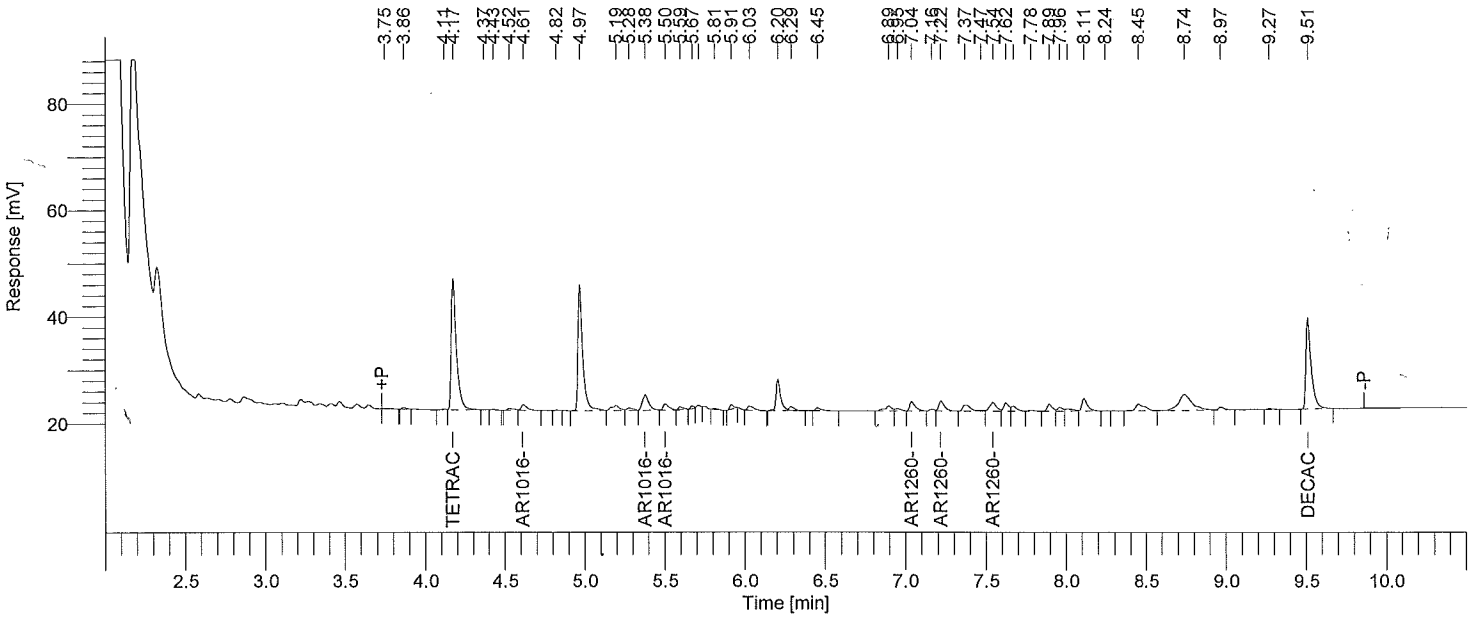


Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	55827	0.05224999	1	10	0.03000	1.000	1.6667	17.41666	20.00	87.1
4.61	AR1016-1	2757	0.12406234	1	10	0.03000	1.000	33.3333	41.35411	33.33	124.1
5.38	AR1016-2	7818	0.11180535	1	10	0.03000	1.000	33.3333	37.26845	33.33	111.8
5.50	AR1016-3	2800	0.09178272	1	10	0.03000	1.000	33.3333	30.59424	33.33	91.8
7.04	AR1260-1	4541	0.11743069	1	10	0.03000	1.000	33.3333	39.14356	33.33	117.4
7.22	AR1260-2	4689	0.11570821	1	10	0.03000	1.000	33.3333	38.56940	33.33	115.7
7.54	AR1260-3	4785	0.10665990	1	10	0.03000	1.000	33.3333	35.55330	33.33	106.7
9.51	Decachlorobiphenyl	39373	0.11458620	1	10	0.03000	1.000	3.3333	38.19540	40.00	95.5

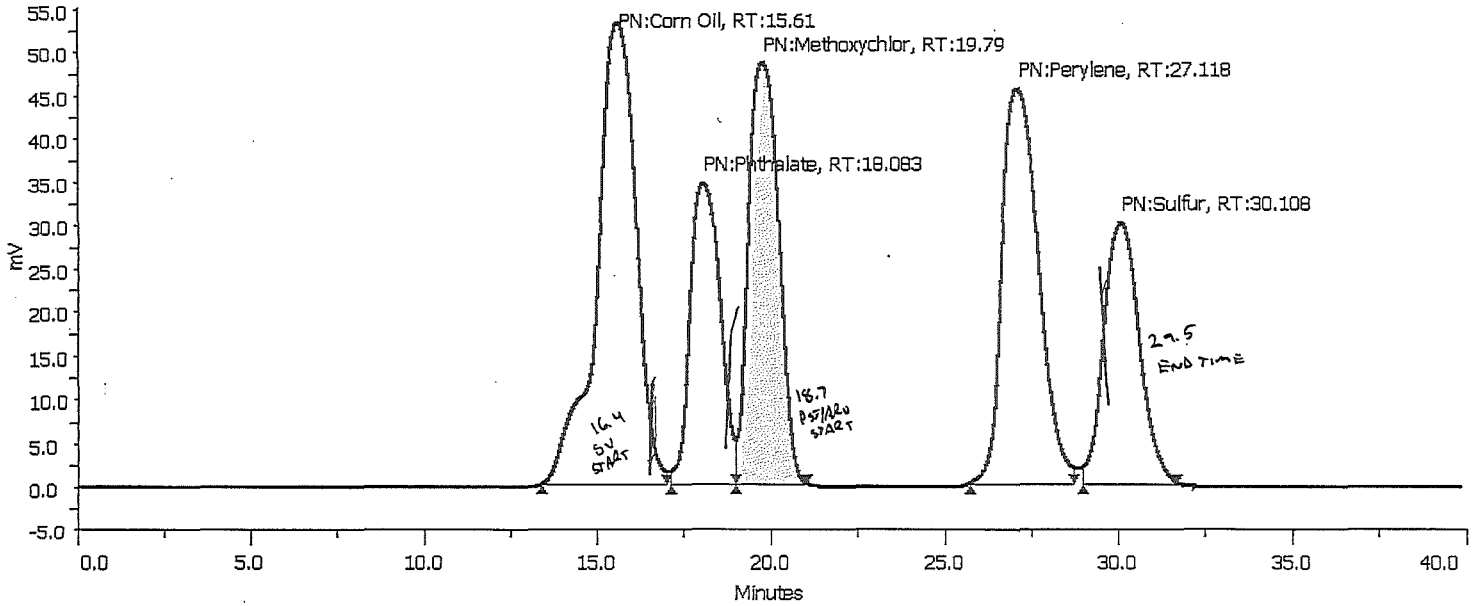
Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPL 6 TRACE
Somo 1.2/2.2
6/2/15
Lyle Edwards
STD # 195WS 38823

App: ALS GPC Methods Small FC, Run: 06022015-102813 @ 6/2/2015 10:28:17 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.388	15.61	6972078.75	53.12	0	90.862
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.154	18.083	3442194.1667	34.4	90.862	88.181
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	19.022	19.79	4877990.8333	48.33	88.181	293.687
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.768	27.118	5509891.25	45.3	293.687	104.82
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.982	30.108	3573543.3333	29.85	104.82	0

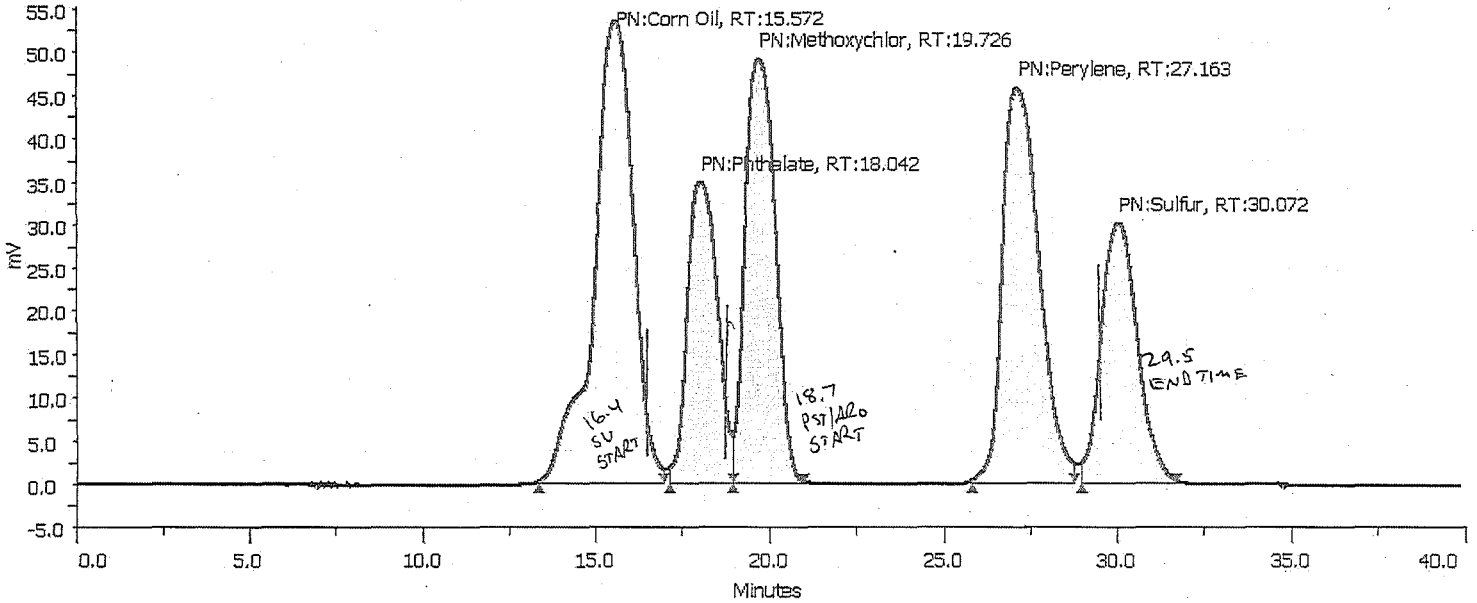
Run Variables

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
Somo 1.2/2.2
5/25/15
Lyle Edwards
STD# 195WS38823

App: ALS GPC Methods Small FC, Run: 05252015-065257 @ 5/25/2015 6:53:02 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.345	15.572	6981755.4167	53.19	0	90.823
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.114	18.042	3453661.6667	34.59	90.823	87.338
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.968	19.726	4909087.5	48.69	87.338	298.745
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.829	27.163	5531085.8333	45.32	298.745	102.496
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.983	30.072	3584026.25	29.85	102.496	0

Run Variables

Software Version	: 6.3.1.0504	Date	: 06/16/2015 16:45:28
Operator	: borges	Sample Name	: GPC60608
Sample Number	: 18	Study	: GPCBLK1
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/15/2015 21:46:08	Dilution Factor	: 1.00
		Cycle	: 2

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_018.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_018.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150615\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150615\20150615B_018.raw
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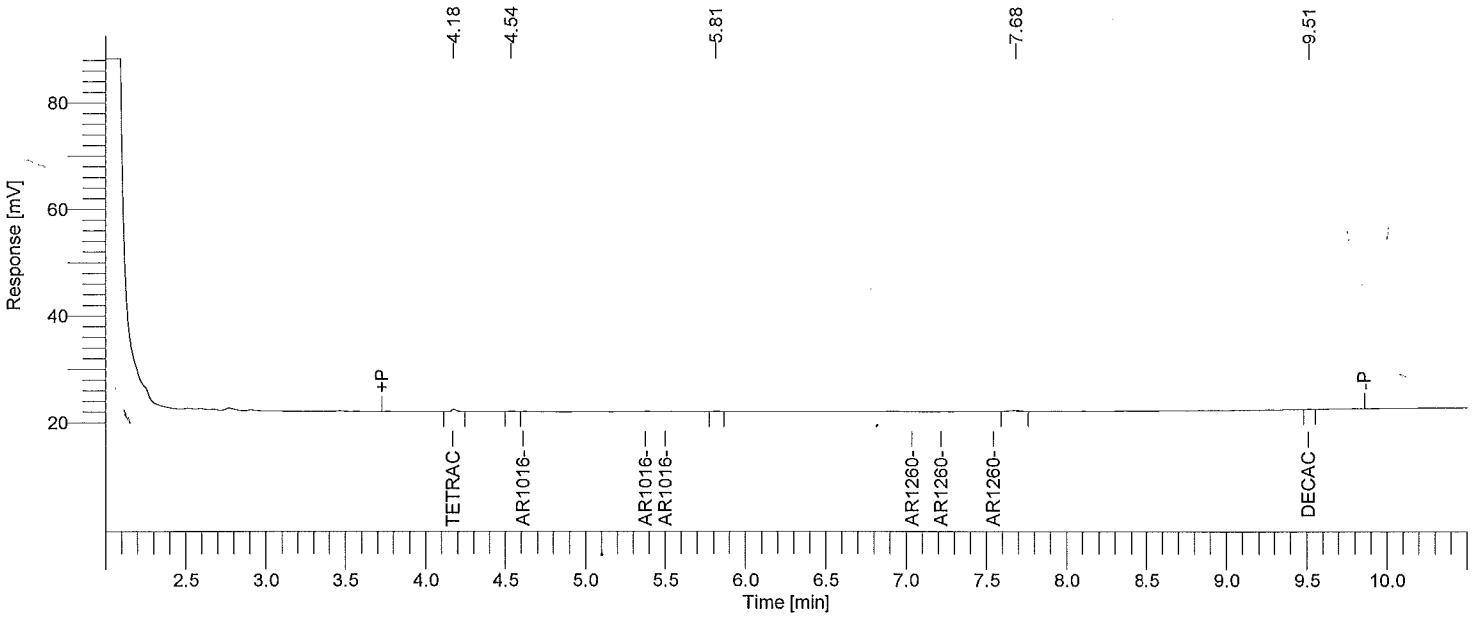

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM ARO GPC BLK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L
4.18	Tetrachloro-m-xylene	944	8.83268e-04	1	10	1.000	1.000	0.050000	0.008833
4.61	AR1016-1	0	0.000000000	1	10	1.000	1.000	--------	0.000000
5.38	AR1016-2	0	0.000000000	1	10	1.000	1.000	--------	0.000000
5.50	AR1016-3	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.04	AR1260-1	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.21	AR1260-2	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.54	AR1260-3	0	0.000000000	1	10	1.000	1.000	--------	0.000000
9.51	Decachlorobiphenyl	122	3.55007e-04	1	10	1.000	1.000	0.100000	0.003550

All analytes <CRQL.

ALS Laboratory Group GC/MS Volatile Organic Analysis			
DCL Ref ID:	Samples:	Date Received:	Date Analyzed:
1515552	5	6/3/15	6/9/15
Sample Matrix: Soil			
Method: EPA CLP SOM01.2 Low/Med			
Instrument: 5972-S			
Column: DB 624 75 m .530 mm			
Temp. Program: 45° C (3.5 min) 10°C /min ramp to 220°C (2.0 min). Run Time = 23.00 min.			
Carrier Gas: Helium			
Purge/Trap: OI Analytical Eclipse 4660/#10 Trap; Varian Archon Autosampler.			
Purge/Trap Conditions: Purge Time: 11 min. (0.5 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 SCLPSS analyzed on 6-4-15.			
Initial Calibration Standards: VSTD005SS, 010SS, 050SS, 100SS, 200SS (Low Soil/Water Curve) - 27660, 28196, 28197, 28199.			
Calibration Verification Standards: VSTD050SX - 28268, 28198, 28199.			
Balance I.D.: 40090067			
All analyses meet established QC acceptance criteria. Results reported in units of ug/Kg. CQC			

ALS Laboratory Group - GC/MS Volatile Analysis
Injection Logbook
Instrument 5972-S

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPAR GER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)	ISTD #1 AREA
SU28BLK	06/04/2015 16:44	CQC	SCLPSR	1	23.11	1	SOIL	XXXXXX	VBLKS1	2585429
	COMMENTS: 2.5 uL of 28198; 2.0 uL of 27660									
SU29BFB	06/04/2015 18:46	CQC	SCLPSS	1	23.13	1	SOIL	BFBSX	50 ng BFB	0
	COMMENTS: 2.0 uL of 27660 Passed but multiplier raised.									
SU30BFB	06/04/2015 19:16	CQC	SCLPMS	2	23.14	1	SOIL	BFBMS	50 ng BFB	0
	COMMENTS: 2.0 uL of 27660									
SU31BFB	06/04/2015 19:46	CQC	SCLPSS	3	23.12	1	SOIL	BFBSS	50 ng BFB	0
	COMMENTS: 2.0 uL of 27660									
SU32S05	06/04/2015 20:18	CQC	SCLPSS	4	23.16	1	SOIL	VSTD005SS	VSTD005SS 5.0	1157727
	COMMENTS: 2.5 uL of 28196; 0.25 uL of 28197, 19; 2.0 uL									
SU33S10	06/04/2015 20:49	CQC	SCLPSS	5	23.15	1	SOIL	VSTD010SS	VSTD010SS 10 u	1201288
	COMMENTS: 2.5 uL of 28196; 0.5 uL of 28197, 19									
SU34S50	06/04/2015 21:19	CQC	SCLPSS	6	23.13	1	SOIL	VSTD050SS	VSTD050SS 50 u	1319880
	COMMENTS: 2.5 uL of 28196; 2.5 uL of 28197, 19									
SU35S100	06/04/2015 21:49	CQC	SCLPSS	7	23.11	1	SOIL	VSTD100SS	VSTD100SS 100	1377471
	COMMENTS: 2.5 uL of 28196; 5.0 uL of 28197, 19									
SU36S200	06/04/2015 22:20	CQC	SCLPSS	8	23.12	1	SOIL	VSTD200SS	VSTD200SS 200	1490772
	COMMENTS: 2.5 uL of 28196; 10 uL of 28197, 19									
SU37BLK	06/04/2015 22:50	CQC	SCLPSS	9	23.10	1	SOIL	System Blank		1209378
	COMMENTS: 2.5 uL of 28198									
SU38BLK	06/04/2015 23:20	CQC	SCLPMS	10	23.15	1	SOIL	System Blank		1147041
	COMMENTS: 2.5 uL of 28198									
SU39S05	06/04/2015 23:50	CQC	SCLPMS	11	23.15	1	SOIL	VSTD005MS	VSTD005MS 5.0	1084815
	COMMENTS: 2.5 uL of 28196; 0.25 uL of 28197, 19									
SU40S10	06/05/2015 00:20	CQC	SCLPMS	12	23.14	1	SOIL	VSTD010MS	VSTD010MS 10 u	1106915
	COMMENTS: 2.5 uL of 28196; 0.5 uL of 28197, 19									
SU41S50	06/05/2015 00:49	CQC	SCLPMS	13	23.11	1	SOIL	VSTD050MS	VSTD050MS 50 u	1141012
	COMMENTS: 2.5 uL of 28196; 2.5 uL of 28197, 19									
SU42S100	06/05/2015 01:20	CQC	SCLPMS	14	23.12	1	SOIL	VSTD100MS	VSTD100MS 100	1232538
	COMMENTS: 2.5 uL of 28196; 5.0 uL of 28197, 19									
SU43S200	06/05/2015 01:50	CQC	SCLPMS	15	23.10	1	SOIL	VSTD200MS	VSTD200MS 200	1200994
	COMMENTS: 2.5 uL of 28196; 10 uL of 28197, 19									
SU44BLK	06/05/2015 02:20	CQC	SCLPMS	16	23.14	1	SOIL	System Blank		1031486
	COMMENTS: 2.5 uL of 28198									
SU45BLK	06/05/2015 02:51	CQC	SCLPMS	17	23.11	1	SOIL	System Blank		1046529
	COMMENTS: 2.5 uL of 28198									
SU46BLK	06/05/2015 03:21	CQC	SCLPMS	18	23.13	1	SOIL	System Blank		1035042
	COMMENTS: 2.5 uL of 28198									
SU47BLK	06/05/2015 03:51	CQC	SCLPMS	19	23.13	1	SOIL	System Blank		1017705
	COMMENTS: 2.5 uL of 28198									

ALS Laboratory Group - GC/MS Volatile Analysis
Injection Logbook
Instrument 5972-S

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPAR GER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)	ISTD #1 AREA
SU79BFB	06/09/2015 16:32	CQC	SCLPSS	1	23.13	1	SOIL	BFBS2	50 ng BFB	0
	COMMENTS: 2.0 uL of 28268									
SU80S50	06/09/2015 17:03	CQC	SCLPSS	2	23.12	1	SOIL	VSTD050S3	VSTD050S3 50 u	1733598
	COMMENTS: 2.5 uL of 28198, 28199; 2.0 uL of 28268									
SU81BLK	06/09/2015 17:35	CQC	SCLPSS	3	23.11	1	SOIL	450611/450812/450814	V	1670353
	COMMENTS: 2.5 uL of 28198									
SU82C018	06/09/2015 18:09	CQC	SCLPSS	4	23.14	1	SOIL	1515542018	F9M37	1686153
	COMMENTS: 1515542									
SU83C019	06/09/2015 18:41	CQC	SCLPSS	5	23.12	1	SOIL	1515542019	F9M38	1620634
	COMMENTS: 1515542									
SU84C020	06/09/2015 19:13	CQC	SCLPSS	6	23.13	1	SOIL	1515542020	F9M39	1500484
	COMMENTS: 1515542									
SU85C021	06/09/2015 19:45	CQC	SCLPSS	7	23.15	1	SOIL	1515542021	F9M40	1622507
	COMMENTS: 1515542									
SU86C022	06/09/2015 20:17	CQC	SCLPSS	8	23.12	1	SOIL	1515542022	F9M41	1637908
	COMMENTS: 1515542									
SU87C001	06/09/2015 20:48	CQC	SCLPSS	9	23.13	1	SOIL	1515552001	F9M36	1687826
	COMMENTS: 1515552									
SU88C004	06/09/2015 21:20	CQC	SCLPSS	10	23.12	1	SOIL	1515552004	F9M42	1655979
	COMMENTS: 1515552									
SU89C005	06/09/2015 21:51	CQC	SCLPSS	11	23.09	1	SOIL	1515552005	F9M43	1550522
	COMMENTS: 1515552									
SU90C006	06/09/2015 22:21	CQC	SCLPSS	12	23.12	1	SOIL	1515552006	F9M44	1323850
	COMMENTS: 1515552									
SU91C007	06/09/2015 22:51	CQC	SCLPSS	13	23.13	1	SOIL	1515552007	F9M45	1400993
	COMMENTS: 1515552									
SU92C001	06/09/2015 23:22	CQC	SCLPSS	14	23.13	1	SOIL	1515380001	F9M15	1067376
	COMMENTS: 1515380									
SU93C004	06/09/2015 23:52	CQC	SCLPSS	15	23.13	1	SOIL	1515380004	F9M20	1286446
	COMMENTS: 1515380									
SU94R016	06/10/2015 00:22	CQC	SCLPSS	16	23.12	1	SOIL	1515542016RE	F9M34RE	1120408
	COMMENTS: 1515542									
SU95R020	06/10/2015 00:53	CQC	SCLPSS	17	23.12	1	SOIL	1515542020RE	F9M39RE	1013267
	COMMENTS: 1515542									
SU96R001	06/10/2015 01:24	CQC	SCLPSS	18	23.12	1	SOIL	1515552001	F9M36	1299741
	COMMENTS: 1515552									
SU97R006	06/10/2015 01:55	CQC	SCLPSS	19	23.14	1	SOIL	1515552006	F9M44	1098343
	COMMENTS: 1515552									
SU98HBLK	06/10/2015 02:26	CQC	SCLPSS	20	23.15	1	SOIL	450612/450813	VHBLKS1	1339343
	COMMENTS: 2.5 uL of 28198									
SU99F50	06/10/2015 02:57	CQC	SCLPSS	21	23.16	1	SOIL	VSTD050S4	VSTD050S4 50 u	1459258
	COMMENTS: 2.5 uL of 28198, 28199									
SV00F50	06/10/2015 03:27	CQC	SCLPSS	22	23.14	1	SOIL	VSTD050SX	VSTD050SX 50 u	1538748
	COMMENTS: 2.5 uL of 28198, 28199									
SV01F50	06/10/2015 03:57	CQC	SCLPSS	23	23.11	1	SOIL	VSTD050SX	VSTD050SX 50 u	1634660
	COMMENTS: 2.5 uL of 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: 08/06/2015 | 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	93951-88-1	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	02/23/2018

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 DMC Gas

CLP DMC Gas — Description - EPA CLP DMC Gases Stock

Standard: 27293 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 3/3/2016 | Expires: 2/23/2018
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: 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: 28193 | 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 080811	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: 2/23/2018
MFG Lot: 022315	Lab Lot: CLP DMC Gas 022315	Usable: Yes
Part ID: 94166		

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	93951-66-1	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	75-69-4	Freon 11	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
19269	CLP 14Dioxan	CLP 1,4-Dioxane Stock	CLP 14Dioxan 121410	200 uL	12/14/2016
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: 28200	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

Certificate of Analysis

ULTRA SCIENTIFIC Analytical Solutions

4-Bromofluorobenzene Solution

Product Number:	STS-110N	**Page:**	1 of 1
Lot Number:	CH-3248	**Lot Issue Date:**	07-Oct-2011
		Expiration Date:	30-Nov-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
4-bromofluorobenzene	000460-00-4	RM03865	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.

ACCREDITED ISO 17025:2005 Accredited Cert. No. 03-103 ISO 9001:2008 Registered Cert. No. 03-101

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TIFIED WEIGHT REPORT

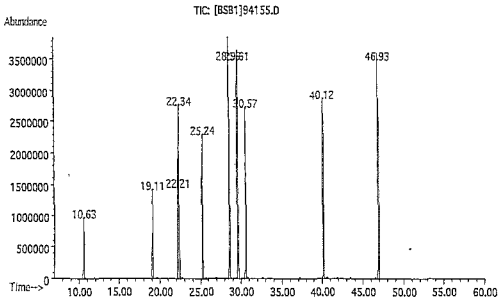
			Lot #	
Part Number:	94155	**Solvent(s):**	DG596	Methanol
Lot Number:	011614			
Description:	CLP SOM 01.1 DMC Volatiles			
	9 components			
Expiration Date:	011617			
Recommended Storage:	Freezer (0 °C)			
Nominal Concentration (µg/mL):	2000			

Formulated By: Paul Barron — 011614 — DATE
Reviewed By: Pedro L. Rentas — 011614 — DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 — 5E-05 Balance Uncertainty; 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
. Benzene-d6	26	4805DKDK	2000	99	0.2	0.20204	0.20220	2001.6	0.0041	01076-43-3	1 ppm (8H)	N/A
. Chloroform-d	2556	V210P1	2000	99.8	0.2	0.20042	0.20065	2002.3	0.0040	00865-49-6	N/A	ori-hmn 140mg/kg
. 1,2-Dichlorobenzene-d4	128	PR-18653/12207DB2	2000	99	0.2	0.20204	0.20224	2002.0	0.0041	02199-69-1	50 ppm (300mg/m3) (CL)	ori-rat 500mg/kg
. 1,2-Dichloroethane-d4	137	V288P18	2000	99.6	0.2	0.20082	0.20100	2001.8	0.0040	17060-07-0	N/A	ori-mus 625mg/kg
. 1,1-Dichloroethene-d2	2047	W151P5	2000	99	0.2	0.20204	0.20230	2002.6	0.0041	22280-73-5	N/A	N/A
. 1,2-Dichloropropane-d6	2051	L283P25	2000	99.7	0.2	0.20062	0.20090	2002.8	0.0040	93952-98-0	N/A	ori-rat 1947mg/kg
. cis,trans-1,3-Dichloropropene-d4	2052	Z181P6	2000	40.9	0.2	0.48905	0.48930	2001.0	0.0098	202656-23-3	N/A	ori-rat 470mg/kg
. 1,1,2,2-Tetrachloroethane-d2	2053	F465P1	2000	99.6	0.2	0.20082	0.20105	2002.3	0.0040	33685-54-0	N/A	ori-rat 800mg/kg
. Toluene-d8	282	6D-549	2000	99.5	0.2	0.20103	0.20130	2002.7	0.0041	02037-26-5	200 ppm	ori-rat 5000mg/kg



Method: GC6MSD-L. **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	40.09
1,2-Dichlorobenzene-d4	46.93

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t # 94155 Lot # 011614 — 1 of 2 — Printed: 2/5/2014, 4:13:42 PM

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FIED WEIGHT REPORT

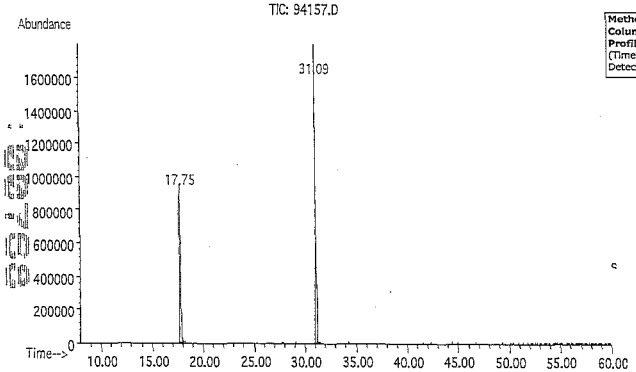
		Lot #	Solvent(s):	
Part Number:	94157	DK010	Methanol	(90%)
Lot Number:	080414	072414	Water	(10%)
Description:	CLP SOM 01.1 DMC Ketones			
	2 components			
Expiration Date:	080417			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	2500			

Formulated By: Gabriel Helland — 080414 — DATE
Reviewed By: Pedro L. Rentas — 080414 — DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 — 5E-05 Balance Uncertainty; 0.006 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
-Butanone-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	ori-rat 2737mg/kg
-Hexanone-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	ori-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

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94157 Lot # 080414 — 1 of 2 — Printed: 11/13/2014, 11:51:43 AM

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CERTIFIED WEIGHT REPORT

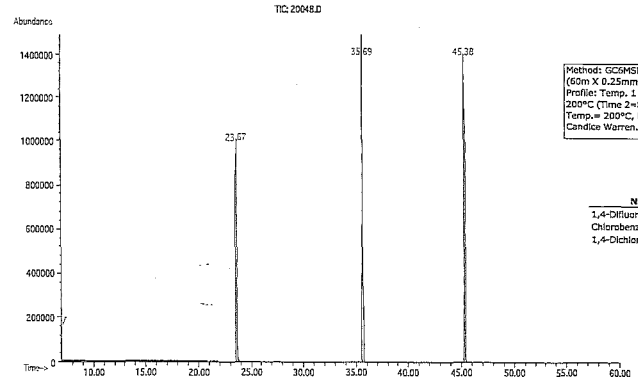
			Lot #	
Part Number:	20048	**Solvent(s):**	DD946	Methanol
Lot Number:	080811			
Description:	CLP Volatiles - Low Concentration Internal Standard			
	3 components			
Expiration Date:	080816			
	Storage: 4 °C			
Nominal Concentration (µg/mL):	2500			

Formulated By: Justin Dippold — 080811 — DATE
Reviewed By: Pedro L. Rentas — 080811 — DATE

Weight(s) shown below were combined and diluted to: 100.0 — 5E-05 Balance Uncertainty; 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	ori-rat 1110mg/kg
2. 1,4-Dichlorobenzene-d4	118	PR-18488/07207CB1	2500	98	0.2	0.25507	0.25537	2502.9	0.00410	03855-82-1	75 ppm	ori-rat 500mg/kg
3. 1,4-Difluorobenzene	155	13105AO	2500	99	0.2	0.25249	0.25271	2502.1	0.00406	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

art # 20048 Lot # 080811 — 1 of 3 — Printed: 9/7/2011, 1:55:21 PM

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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 # DE997 Methanol

Formulated By: Vincent K. Criscio, Jr. 010213 DATE
Reviewed By: Pedro L. Rentas 010213 DATE

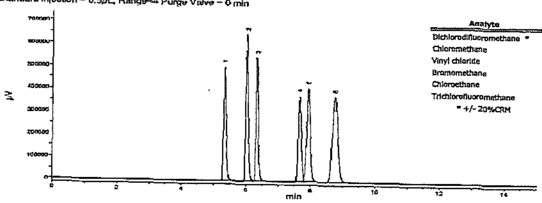
Weight(s) shown below were combined and diluted to: 499.9 | 5E-05 Balance Uncertainty | 0.058 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 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
2. 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
3. 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
4. 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
5. 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
6. Vinyl chloride	305	1281633 21308138	2000	99.5	0.2	1.00475	1.0113	2013.0	0.00403	00075-01-4	N/A	N/A

Run 9, "P30058 L010213 [2000µg/mL in MeOH]"

Run Length: 15.00 min, 8999 points at 10 points/second.
Created: Wed, Jan 2, 2013 at 5:05:03 PM.
Sampled: Sequence "120112-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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Part # 30058 Lot # 010213 1 Printed: 1/7/2013, 4:__ _M

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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

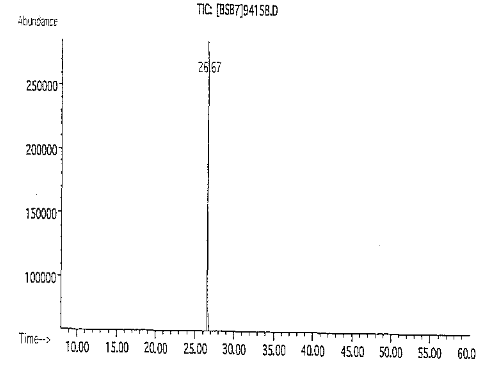
Solvent(s): Lot # DK010 Methanol

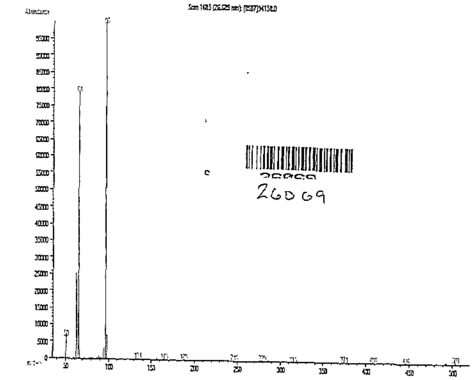
Formulated By: Gabriel Helland 080414 DATE
Reviewed By: Pedro L. Rentas 080414 DATE

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	MSDS Information (Solvent Safety Info. On Attached pg.) 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

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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Part # 94158 Lot # 080414 1 of 2 Printed: 11/13/2014, 11:51:47 AM

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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 040213 DATE
Reviewed By: Pedro L. Rentas 040213 DATE

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 (+/-)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Benzene	93831	072910	0.10	10.00	0.008	20013.0	2001.1	0.00433	00071-43-2	1 ppm	orl-rat 4894mg/kg
2. Toluene	93831	072910	0.10	10.00	0.008	20019.6	2001.8	0.00420	00108-88-3	200 ppm	orl-rat 5000mg/kg
3. Ethyl benzene	93831	072910	0.10	10.00	0.008	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	0.008	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	0.008	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	0.008	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	0.008	20011.9	2001.0	0.00408	00075-27-4	N/A	orl-rat 916mg/kg
8. Dibromochloromethane	30171	020712	0.10	10.00	0.008	20008.1	2000.6	0.00408	00124-48-1	N/A	orl-rat 848mg/kg
9. cis-1,2-Dichloroethene	30171	020712	0.10	10.00	0.008	20009.2	2000.7	0.00404	00156-59-2	N/A	N/A
10. trans-1,2-Dichloroethene	30171	020712	0.10	10.00	0.008	20003.4	2000.1	0.00408	00156-60-5	N/A	orl-rat 1235mg/kg
11. Methylene chloride	30171	020712	0.10	10.00	0.008	20001.9	2000.0	0.00401	00075-09-2	500 ppm	orl-rat 2136mg/kg
12. 1,1-Dichloroethene	32251	122112	0.10	10.00	0.008	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	0.008	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	0.008	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	0.008	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	0.008	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	0.008	20019.4	2001.7	0.00420	00075-34-3	100 ppm	orl-rat 725mg/kg
18. Tetrachloroethene	94170	072910	0.10	10.00	0.008	20019.6	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	0.008	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	0.008	20002.6	2000.1	0.00420	00096-12-8	0.001 ppm	orl-rat 170mg/kg
21. 1,[illegible]romoethane	94171	092310	0.10	10.00	0.008	20008.0	2000.6	0.00420	00106-93-4	20 ppm (8H)	orl-rat 108mg/kg
22. 1[illegible]loroethane	94171	092310	0.10	10.00	0.008	20004.4	2000.2	0.00418	00107-06-2	50 ppm (8H)	orl-rat 670mg/kg
23. 1,2-[illegible]chloropropane	94171	092310	0.10	10.00	0.008	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	0.008	20004.8	2000.3	0.00420	10061-01-5	N/A	N/A
25. trans-1,3-Dichloropropene	94171	092310	0.10	10.00	0.008	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	0.008	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	0.008	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	0.008	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	0.008	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	0.008	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	0.008	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	0.008	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	0.008	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	0.008	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	0.008	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	0.008	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	0.008	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	0.008	20018.5	2001.6	0.00418	00110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
39. Methyl acetate	94173	072910	0.10	10.00	0.008	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	0.008	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	0.008	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	0.008	20019.7	2001.8	0.00420	00076-13-1	1000 ppm (7600mg/m3/8H	orl-rat 43g/kg

S 20026

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Analytical Reference Material ARM

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ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

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

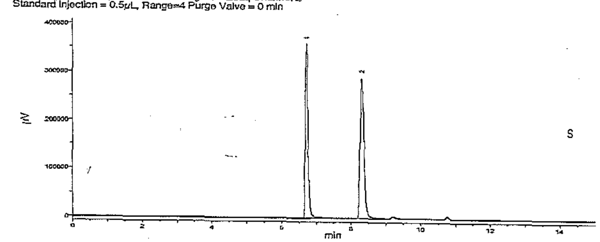
Formulated By: Vincent K. Criscio, Jr. 022315 DATE
Reviewed By: Pedro L. Rentas 022315 DATE

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 (+/-)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Chloroethane-d5	94176	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

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

Part # 94156 Lot # 022315

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-08846KN	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.

ACCREDITED
ISO 17025
Accreditation #2814
Cert. No. 0351-01

S 22428

ISO 9001
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Cert. No. 09-1069

250 Smith Street, North Kingstown, RI 02852 USA
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William J. Leahy
Quality Assurance Manager

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Certified Reference Material CRM

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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 # DG596 Methanol (90%); 083013 Water (10%)

Formulated By: Paul Barron — DATE 092713
Reviewed By: Pedro L. Rentas — DATE 092713

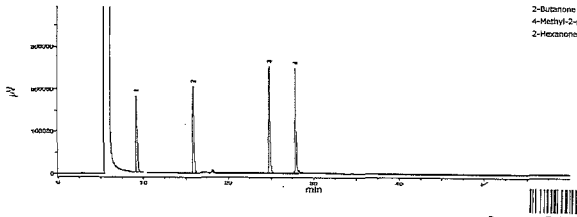
Weight(s) shown below were combined and diluted to: 100.0 (5E-05 Balance Uncertainty) 0.001 Flask Uncertainty

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	ori-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)	ori-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)	ori-rat 2500mg/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)	ori-rat 2080mg/kg

Run 42, "P82492 L092713 [20mg/mL in M:W(9:1)] Df=1:10"

Run Length: 60.00 min. 35998 points at 10 points/second.
Created: Sat, Sep 28, 2013 at 10:34:30 AM.
Sampled: Sequence "092713-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments
GC13-M1 Analysis by Candice Warren
Column ID SPB-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=35°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 = 0.5µL, Range=3



Name	FID RT (min.)
Acetone	9.23
2-Butanone	15.90
4-Methyl-2-pentanone	24.64
2-Hexanone	27.09

S 22414

Part # 82492 # 092713 1 of Printed: 10/4/2013, 11:17:34 AM

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CERTIFIED WEIGHT REPORT

Part Number: 90577
Lot Number: 121410
Description: 1,4-Dioxane
Expiration Date: 121415
Storage: 4 °C
Nominal Concentration (µg/mL): 20000

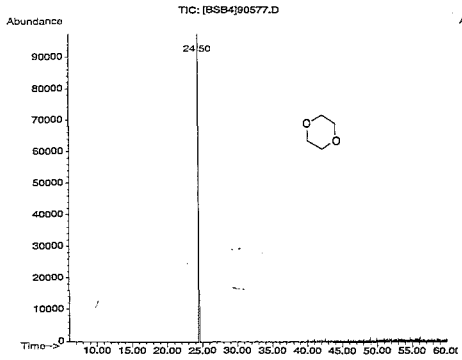
Solvent(s): Lot # 50172 Methanol

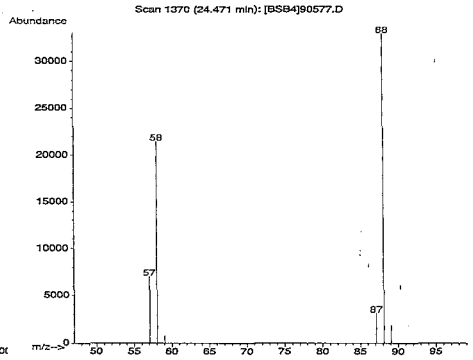
Formulated By: Pat Scaturchio — DATE 121410
Reviewed By: Pedro L. Rentas — DATE 121410

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)	ori-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.





Part # 90577 Lot # 121410 1 of 2 Printed: 6/23/2012, 12:37:24 PM

Batch Worklist

Batch: ESVO/ 4991 Created: 6/18/2015 13:01 Instrument: 5975-D HBN: 150812

Rule: SOM SVOA, Soil Analyst: S. Yourstone Status: WP

Workorder: 1515552 SDG: F9M36 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	450511	MB for HBN 150090 [ENVX/21759]	30 grams	.5 mL		MB	4		SOMSVOAS.4	6158	7/20/2015	6/23/2015	6/18/2015
2	1515552001	F9M36	30.08 grams	.5 mL		SAMPLE	4	1515552001-A	S12SVOAS.4	5936	7/20/2015	6/23/2015	6/18/2015
3	1515552004	F9M42	30.22 grams	.5 mL		SAMPLE	4	1515552004-A	S12SVOAS.4	5936	7/20/2015	6/23/2015	6/18/2015
4	1515552005	F9M43	30.26 grams	.5 mL		SAMPLE	4	1515552005-A	S12SVOAS.4	5936	7/20/2015	6/23/2015	6/18/2015
5	1515552006	F9M44	30 grams	.5 mL		SAMPLE	4	1515552006-A	S12SVOAS.4	5936	7/20/2015	6/23/2015	6/18/2015
6	1515552007	F9M45	30.29 grams	.5 mL		SAMPLE	4	1515552007-A	S12SVOAS.4	5936	7/20/2015	6/23/2015	6/18/2015

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
DFG01S20	05/21/2015 13:45	DJC	DSOM02A2	1	25.96	1	SSTD020DG 28104 DFTPPDG	X6-19-15
DFG02S20	05/21/2015 14:38	DJC	DSOM02A3	1	25.96	1	SSTD020DG 28104 DFTPPDG	X6-19-15
DFG03S05	05/21/2015 15:14	DJC	DSOM02A3	2	25.96	1	SSTD005DG 28102	X6-19-15
DFG04S10	05/21/2015 15:48	DJC	DSOM02A3	3	25.96	1	SSTD010DG 28103	X6-19-15
DFG05S40	05/21/2015 16:22	DJC	DSOM02A3	4	25.96	1	SSTD040DG 28105	X6-19-15
DFG06S80	05/21/2015 16:56	DJC	DSOM02A3	5	25.96	1	SSTD080DG 28106	X6-19-15
DFG07S16	05/21/2015 17:31	DJC	DSOM02A3	6	25.96	1	SSTD160DG 28107	X6-19-15

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
GAX01S20	05/27/2015 15:49	DJC	GSOM01D4	1	25.96	1	SSTD020GX 28165 DFTPPGX	X06/19/15
GAX02S05	05/27/2015 16:21	DJC	GSOM01D4	2	25.96	1	SSTD005GX 28167	X06/19/15
GAX03S10	05/27/2015 16:54	DJC	GSOM01D4	3	25.96	1	SSTD010GX 28168	X06/19/15
GAX04S10	05/27/2015 17:26	DJC	GSOM01D4	7	25.96	1	~~SSTD010GX~~	X06/19/15
GAX05S20	05/27/2015 17:58	DJC	GSOM01D4	6	25.96	1	~~SSTD020GX~~	X06/19/15
GAX06S40	05/27/2015 18:30	DJC	GSOM01D4	4	25.96	1	SSTD040GX 28170	X06/19/15
GAX07S80	05/27/2015 19:02	DJC	GSOM01D4	5	25.96	1	SSTD080GX 28171	X06/19/15

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
~~DED01S20~~	~~06/17/2015 12:22~~	~~SY~~	~~DSOM02A3~~	~~1~~	~~25.96~~	~~1~~	~~SSTD020DD 28296 DFTPPDD~~	~~X6-19-15~~
DED02S20	06/17/2015 13:06	SY	DSOM01D5	1	25.96	1	SSTD020DD 28296 DFTPPDD	X6-19-15
DED03F01	06/17/2015 13:41	SY	DSOM01D5	2	25.96	1	1515552001 FM36	SOIL SOM
~~DED04S20~~	~~06/17/2015 14:15~~	~~SY~~	~~DSOM01D5~~	~~1~~	~~25.96~~	~~1~~	~~SSTD020D1 28296 DFTPPD1~~	~~X6-19-15~~
~~DED05S20~~	~~06/17/2015 14:50~~	~~SY~~	~~DSOM01D5~~	~~1~~	~~25.96~~	~~1~~	~~SSTD020D1 28296 DFTPPD1~~	~~X6-19-15~~
DED06S20	06/17/2015 15:25	SY	DSOM01D5	1	25.96	1	SSTD020D1 28296 DFTPPD1	X6-19-15
DED08BLK	06/17/2015 16:00	SY	DSOM01D5	3	25.96	1	450834 SBLK11	WATER SOM
DED09F02	06/17/2015 16:36	SY	DSOM01D5	4	25.96	1	1515629002 FM47	WATER SOM
DED10F03	06/17/2015 17:11	SY	DSOM01D5	5	25.96	1	1515629003 FM53	WATER SOM
DED11BLK	06/17/2015 17:46	SY	DSOM01D5	6	25.96	1	450687 SBLK11	SOIL SOM
DED12GPC	06/17/2015 18:21	SY	DSOM01D5	7	25.96	1	451382 GBLK82	SOIL SOM
DED13F01	06/17/2015 18:56	SY	DSOM01D5	8	25.96	1	1515618001 FM69	SOIL SOM
DED14F02	06/17/2015 19:30	SY	DSOM01D5	9	25.96	1	1515618002 FM70	SOIL SOM
DED15F03	06/17/2015 20:04	SY	DSOM01D5	10	25.96	1	1515618003 FM71	SOIL SOM
DED16F04	06/17/2015 20:38	SY	DSOM01D5	11	25.96	1	1515618004 FM72	SOIL SOM
DED17F05	06/17/2015 21:12	SY	DSOM01D5	12	25.96	1	1515618005 FM73	SOIL SOM
DED18F06	06/17/2015 21:45	SY	DSOM01D5	13	25.96	1	1515618006 FM74	SOIL SOM
DED19F07	06/17/2015 22:19	SY	DSOM01D5	14	25.96	1	1515618007 FM75	SOIL SOM
DED20S20	06/17/2015 22:52	SY	DSOM01D5	1	25.96	1	SSTD020D2 28296 DFTPPD2	X6-19-15
DED21S20	06/17/2015 23:24	SY	DSOM01D5	1	25.96	1	SSTD020D2 28296 DFTPPD2	X6-19-15
DED22F08	06/17/2015 23:57	SY	DSOM01D5	15	25.96	1	1515618008 FM76	SOIL SOM
DED23F09	06/18/2015 00:30	SY	DSOM01D5	16	25.96	1	1515618009 FM77	SOIL SOM
DED24F10	06/18/2015 01:03	SY	DSOM01D5	17	25.96	1	1515618010 FM78	SOIL SOM
DED25F11	06/18/2015 01:36	SY	DSOM01D5	18	25.96	1	1515618011 FM79	SOIL SOM
DED26F01	06/18/2015 02:08	SY	DSOM01D5	19	25.96	1	1515380001 F9M15 (5)	SOIL SOM
DED27F04	06/18/2015 02:42	SY	DSOM01D5	20	25.96	1	1515380002 F9M20 (5)	SOIL SOM
DED28S20	06/18/2015 03:14	SY	DSOM01D5	1	25.96	1	SSTD020D3 28296 DFTPPD3	X6-19-15
DED29S20	06/18/2015 03:48	SY	DSOM01D5	1	25.96	1	SSTD020D3 28296 DFTPPD3	X6-19-15
DED30S20	06/18/2015 04:21	SY	DSOM01D5	1	25.96	1	SSTD020D3 28296 DFTPPD3	X6-19-15
DED31S20	06/18/2015 04:54	SY	DSOM01D5	1	25.96	1	SSTD020D3 28296 DFTPPD3	X6-19-15

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
GBN01S20	06/16/2015 13:22	SY	GSOM01D4	1	25.96	1	SSTD020GN 28296 DFTPPGN	X06/19/15
GBN02BLK	06/16/2015 13:55	SY	GSOM01D4	2	25.96	1	450982 SBLK93	SOIL SOM
GBN03GPC	06/16/2015 14:27	SY	GSOM01D4	3	25.96	1	450511 GBLK10	SOIL SOM
GBN04F01	06/16/2015 14:59	SY	GSOM01D4	4	25.96	1	1515552001 F9M36	SOIL SOM
GBN05F04	06/16/2015 15:32	SY	GSOM01D4	5	25.96	1	1515552004 F9M42	SOIL SOM
GBN06F05	06/16/2015 16:04	SY	GSOM01D4	6	25.96	1	1515552005 F9M43	SOIL SOM
GBP01S20	06/16/2015 16:59	SY	GSOM01D4	1	25.96	1	SSTD020GP 28296 DFTPPGP	X06/19/15
GBP02BLK	06/16/2015 17:31	SY	GSOM01D4	2	25.96	1	450511 SBLK11	SOIL SOM
GBQ01S20	06/16/2015 18:04	SY	GSOM01D4	1	25.96	1	SSTD020GQ 28296 DFTPPGQ	X06/19/15
GBQ02S20	06/16/2015 18:36	SY	GSOM01D4	1	25.96	1	SSTD020GQ 28296 DFTPPGQ	X06/19/15
GBQ03BLK	06/16/2015 19:08	SY	GSOM01D4	2	25.96	1	450511 SBLK11	SOIL SOM
GBQ04GPC	06/16/2015 19:41	SY	GSOM01D4	3	25.96	1	450982 GBLK82	SOIL SOM
GBQ05F01	06/16/2015 20:13	SY	GSOM01D4	4	25.96	1	1515552001 F9M36 repreq	SOIL SOM
GBQ06F04	06/16/2015 20:45	SY	GSOM01D4	5	25.96	1	1515552004 F9M42	SOIL SOM
GBQ07F05	06/16/2015 21:17	SY	GSOM01D4	6	25.96	1	1515552005 F9M43	SOIL SOM
GBQ08F06	06/16/2015 21:50	SY	GSOM01D4	7	25.96	1	1515552006 F9M44	SOIL SOM
GBQ09F07	06/16/2015 22:22	SY	GSOM01D4	8	25.96	1	1515552007 F9M45	SOIL SOM
GBQ10S20	06/16/2015 22:54	SY	GSOM01D4	9	25.96	1	SSTD020Q1 28296 DFTPPQ1	X06/19/15
GBQ11S20	06/16/2015 23:26	SY	GSOM01D4	9	25.96	1	SSTD020Q1 28296 DFTPPQ1	X06/19/15
GBQ12S20	06/16/2015 23:58	SY	GSOM01D4	9	25.96	1	SSTD020Q1 28296 DFTPPQ1	X06/19/15

Batch Worklist

Batch: ENVX/ 21759 Created: 6/8/2015 11:44 Instrument: HBN: 150090

Rule: Sonication Extrn, SVOA Analyst: L. Edwards Status: NA

Workorder: 1515552 SDG: F9M36 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	450511	MB for HBN 150090 [ENVX/21759]	30.00 g	0.5 ml		MB	4		SNCTNSV.4P	6158	6/18/2015	6/4/2015	
2	1515552001	F9M36	30.08 g			SAMPLE	4	1515552001-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
3	1515552004	F9M42	30.22 g			SAMPLE	4	1515552004-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
4	1515552005	F9M43	30.26 g			SAMPLE	4	1515552005-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
5	1515552006	F9M44	30.00 g			SAMPLE	4	1515552006-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
6	1515552007	F9M45	30.29 g			SAMPLE	4	1515552007-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	

mg

Source SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316 / F9m36 Horizon Extraction HBN 150090

Work Order# 1515552 Sample #'s 1, 4-7 Extraction Method SOM01.2

SOP: OE-EP-SOM Analytical Fraction SV / SV-SIM Matrix SOIL

Date samples weighed out 6/9/15 by UE balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/9/15 0930 Stop Date/Time (CLLE's/Soxlet) UE Extracted by UE

	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 ☐ Toluene ☑ N/A ☐ CH_2Cl_2
Vendor	JT BAKER	UE	JT BAKER	B&J	
Lot Number	18985		97623	DM245	
Amount	PER SOP		PER SOP	PER SOP	

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950	UE	UE	UE
Spiked Amount	1mL			
Spiked By	UE			

	Acid Solution	Base Solution		
Standard ID	UE	UE		
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 6/9/15 1100 by UE Comments TEMP WAS 71°C

Final Concentration: Date/Time 6/10/15 9:00 by [illegible] Comments The Temp was 63°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature [illegible] **Date** 6/10/15

Batch Worklist

Batch: ENVX/ 21780 **Created:** 6/10/2015 10:47 **Instrument:** GPC07 **HBN:** 150268

Rule: GPC SVOA **Analyst:** L. Edwards **Status:** NA

Workorder: 1515552 **SDG:** F9M36 **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	450982	GB for HBN 150268 [ENVX/21780]				GB	4		E.GPC.SV.P	6158		6/10/2015	6/9/2015
2	450511	MB for HBN 150090 [ENVX/21759]	30 grams	.5 mL		MB	4		E.GPC.SV.P	6158		6/10/2015	6/9/2015
3	1515552001	F9M36	30.08 grams	.5 mL		SAMPLE	4	1515552001-A	E.GPC.SV.P	5936		6/10/2015	6/9/2015
4	1515552004	F9M42	30.22 grams	.5 mL		SAMPLE	4	1515552004-A	E.GPC.SV.P	5936		6/10/2015	6/9/2015
5	1515552005	F9M43	30.26 grams	.5 mL		SAMPLE	4	1515552005-A	E.GPC.SV.P	5936		6/10/2015	6/9/2015
6	1515552006	F9M44	30 grams	.5 mL		SAMPLE	4	1515552006-A	E.GPC.SV.P	5936		6/10/2015	6/9/2015
7	1515552007	F9M45	30.29 grams	.5 mL		SAMPLE	4	1515552007-A	E.GPC.SV.P	5936		6/10/2015	6/9/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**SVOA**	**Work Order ID:**	**1515552**	**Horizon Batch ID:**	**150268**
Account:	**08201**	**Instrument ID:**	**GPC07**	**Column ID:**	**8171860-3 545929-11**	**Flow Rate:**	**5mL/min.**
Load Date:	**6/9/15**	**Load Time:**	**17:00**	**Pressure (PSI)**	**150**	**PST/ARO Weekly ID:**	

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	450982	GPC07 Blank	
2	1515552001	F9M36	
3	1515552004	F9M42	
4	1515552005	F9M43	
5	1515552006	F9M44	
6	1515552007	F9M45	
7	Rinse		Column Wash
8	450511	MB for HBN 450090	
9	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**15.9**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.3**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

Batch Worklist

Batch: ESVO/ 4992 Created: 6/19/2015 08:43 Instrument: 5975-D HBN: 150875

Rule: SOM SVOA SIM, Soil Analyst: S. Yourstone Status: WP

Workorder: 1515552 SDG: F9M36 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	450511	MB for HBN 150090 [ENVX/21759]	30 grams	.5 mL		MB	4		SOMSVOASS4	6158	7/20/2015	6/23/2015	6/18/2015
2	452600	MB for HBN 150878 [ENVX/21857]	30 grams	.5 mL		MB	4		SOMSVOASS4	6158	7/29/2015	6/23/2015	6/22/2015
3	1515552001	F9M36	30.08 grams	.5 mL		SAMPLE	4	1515552001-A	S12SVOASS4	5936	7/20/2015	6/23/2015	6/18/2015
4	1515552004 *RERUN[6141,RX]*	F9M42	30 grams	.5 mL		SAMPLE	4	1515552004-A	S12SVOASS4	5936	7/29/2015	6/23/2015	6/22/2015
6	1515552005	F9M43	30.26 grams	.5 mL		SAMPLE	4	1515552005-A	S12SVOASS4	5936	7/20/2015	6/23/2015	6/18/2015
7	1515552006	F9M44	30 grams	.5 mL		SAMPLE	4	1515552006-A	S12SVOASS4	5936	7/20/2015	6/23/2015	6/18/2015
8	1515552007	F9M45	30.29 grams	.5 mL		SAMPLE	4	1515552007-A	S12SVOASS4	5936	7/20/2015	6/23/2015	6/18/2015

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
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

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
~~DEJ01SP4~~	~~06/20/2015 09:22~~	~~DJC~~	~~DSOM_SIMJ2~~	~~1~~	~~24.66~~	~~1~~	~~SSTD0.4DJ 28297~~	~~X7-19-15~~
~~DEJ02SP4~~	~~06/20/2015 10:02~~	~~DJC~~	~~DSOM_SIMJ2~~	~~1~~	~~24.66~~	~~1~~	~~SSTD0.4DJ 28434~~	~~X7-19-15~~
DEJ03SP4	06/20/2015 10:32	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DJ 28434	X7-19-15
~~DEJ04MB~~	~~06/20/2015 11:17~~	~~DJC~~	~~DSOM_SIMJ2~~	~~2~~	~~24.66~~	~~1~~	~~452426 SBLK26~~	~~X7-19-15~~
~~DEJ05GB~~	~~06/20/2015 11:47~~	~~DJC~~	~~DSOM_SIMJ2~~	~~3~~	~~24.66~~	~~1~~	~~452534 GBLK34~~	~~X7-19-15~~
DEJ06MB	06/20/2015 12:17	DJC	DSOM_SIMJ2	15	24.66	1	452600 SBLK00	X7-19-15
DEJ07GB	06/20/2015 12:48	DJC	DSOM_SIMJ2	16	24.66	1	452653 GBLK53	X7-19-15
DEJ08F04	06/20/2015 13:18	DJC	DSOM_SIMJ2	17	24.66	1	1515552004 F9M42	X7-19-15
DEJ09SP4	06/20/2015 13:48	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4J1 28434	X7-19-15
DEJ10SP4	06/20/2015 14:18	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4J1 28434	X7-19-15
DEJ11F01	06/20/2015 14:48	DJC	DSOM_SIMJ2	4	24.66	1	1515618001 F9M69	X7-19-15
DEJ12F02	06/20/2015 15:19	DJC	DSOM_SIMJ2	5	24.66	1	1515618002 F9M70	X7-19-15
DEJ13F03	06/20/2015 15:49	DJC	DSOM_SIMJ2	6	24.66	1	1515618003 F9M71	X7-19-15
DEJ14F04	06/20/2015 16:19	DJC	DSOM_SIMJ2	7	24.66	1	1515618004 F9M72	X7-19-15
DEJ15F05	06/20/2015 16:49	DJC	DSOM_SIMJ2	8	24.66	1	1515618005 F9M73	X7-19-15
DEJ16F06	06/20/2015 17:20	DJC	DSOM_SIMJ2	9	24.66	1	1515618006 F9M74	X7-19-15
DEJ17F07	06/20/2015 17:50	DJC	DSOM_SIMJ2	10	24.66	1	1515618007 F9M75	X7-19-15
DEJ18F08	06/20/2015 18:20	DJC	DSOM_SIMJ2	11	24.66	1	1515618008 F9M76	X7-19-15
DEJ19F09	06/20/2015 18:51	DJC	DSOM_SIMJ2	12	24.66	1	1515618009 F9M77	X7-19-15
DEJ20F10	06/20/2015 19:21	DJC	DSOM_SIMJ2	13	24.66	1	1515618010 F9M78	X7-19-15
DEJ21F11	06/20/2015 19:51	DJC	DSOM_SIMJ2	14	24.66	1	1515618011 F9M79	X7-19-15
DEJ22SP4	06/20/2015 20:21	DJC	DSOM_SIMJ2	20	24.66	1	SSTD0.4J2 28434	X7-19-15
DEJ23SP4	06/20/2015 20:51	DJC	DSOM_SIMJ2	20	24.66	1	SSTD0.4J2 28434	X7-19-15
DEJ24F01	06/20/2015 21:21	DJC	DSOM_SIMJ2	18	24.66	1	1515380001 F9M15 (5)	X7-19-15
DEJ25F04	06/20/2015 21:51	DJC	DSOM_SIMJ2	19	24.66	1	1515380004 F9M20	X7-19-15
DEJ26SP4	06/20/2015 22:21	DJC	DSOM_SIMJ2	20	24.66	1	SSTD0.4J3 28434	X7-19-15
DEJ27SP4	06/20/2015 22:50	DJC	DSOM_SIMJ2	20	24.66	1	SSTD0.4J3 28434	X7-19-15
DEJ28SP4	06/20/2015 23:20	DJC	DSOM_SIMJ2	20	24.66	1	SSTD0.4J3 28434	X7-19-15

Batch Worklist

Batch: ENVX/ 21759 Created: 6/8/2015 11:44 Instrument: HBN: 150090

Rule: Sonication Extrn, SVOA Analyst: L. Edwards Status: NA

Workorder: 1515552 SDG: F9M36 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	450511	MB for HBN 150090 [ENVX/21759]	30.00 g	0.5 ml		MB	4		SNCTNSV.4P	6158	6/18/2015	6/4/2015	
2	1515552001	F9M36	30.08 g			SAMPLE	4	1515552001-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
3	1515552004	F9M42	30.22 g			SAMPLE	4	1515552004-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
4	1515552005	F9M43	30.26 g			SAMPLE	4	1515552005-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
5	1515552006	F9M44	30.00 g			SAMPLE	4	1515552006-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
6	1515552007	F9M45	30.29 g			SAMPLE	4	1515552007-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	

Source SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316 / F9m36 Horizon Extraction HBN 150090

Work Order# 1515552 Sample #'s 1, 4-7 Extraction Method SOMO 1.2

SOP: OE-EP-SOM Analytical Fraction SV / SV-SIM Matrix SOIL

Date samples weighed out 6/9/15 by UE balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/9/15 0930 Stop Date/Time (CLLE's/Soxlet) UE Extracted by UE

	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 ☐ Toluene ☑ N/A ☐ CH_2Cl_2
Vendor	JT BAKER		JT BAKER	B&J	
Lot Number	18985		97623	DM245	
Amount	PERSOP		PERSOP	PERSOP	

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950			
Spiked Amount	1mL			
Spiked By	UE			

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 6/9/15 1100 by UE Comments TEMP WAS 71°C

Final Concentration: Date/Time 6/10/15 9:00 by [illegible] Comments The Temp was 63°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature [illegible] **Date** 6/10/15

Batch Worklist

Batch: ENVX/ 21780 Created: 6/10/2015 10:47 Instrument: GPC07 HBN: 150268

Rule: GPC SVOA Analyst: L. Edwards Status: NA

Workorder: 1515552 SDG: F9M36 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	450982	GB for HBN 150268 [ENVX/21780]				GB	4		E.GPC.SV.P	6158		6/10/2015	6/9/2015
2	450511	MB for HBN 150090 [ENVX/21759]	30 grams	.5 mL		MB	4		E.GPC.SV.P	6158		6/10/2015	6/9/2015
3	1515552001	F9M36	30.08 grams	.5 mL		SAMPLE	4	1515552001-A	E.GPC.SV.P	5936		6/10/2015	6/9/2015
4	1515552004	F9M42	30.22 grams	.5 mL		SAMPLE	4	1515552004-A	E.GPC.SV.P	5936		6/10/2015	6/9/2015
5	1515552005	F9M43	30.26 grams	.5 mL		SAMPLE	4	1515552005-A	E.GPC.SV.P	5936		6/10/2015	6/9/2015
6	1515552006	F9M44	30 grams	.5 mL		SAMPLE	4	1515552006-A	E.GPC.SV.P	5936		6/10/2015	6/9/2015
7	1515552007	F9M45	30.29 grams	.5 mL		SAMPLE	4	1515552007-A	E.GPC.SV.P	5936		6/10/2015	6/9/2015

ALS Laboratory Group GPC Injection Logbook

Method:	SOM01.2	**Analytical Method**	SVOA	**Work Order ID:**	1515552	**Horizon Batch ID:**	150268
Account:	08201	**Instrument ID:**	GPC07	**Column ID:**	8171860-3 545929-11	**Flow Rate:**	5mL/min.
Load Date:	6/9/15	**Load Time:**	17:00	**Pressure (PSI)**	150	**PST/ARO Weekly ID:**	

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	450982	GPC07 Blank	
2	1515552001	F9M36	
3	1515552004	F9M42	
4	1515552005	F9M43	
5	1515552006	F9M44	
6	1515552007	F9M45	
7	Rinse		Column Wash
8	450511	MB for HBN 450090	
9	Rinse		Column Wash

$MeCl_2$ Lot:	97623	**General Comments:**
Dump Time (min.):	15.9	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	29.3	Analyst - Lyle Edwards
Wash Time(min.):	10	
GPC Standard ID:	195WS38822	

Batch Worklist

Batch: ENVX/ 21857 Created: 6/19/2015 08:55 Instrument: HBN: 150878

Rule: Sonication Extrn, SVOA Analyst: L. Edwards Status: NA

Workorder: 1515552 SDG: F9M36 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	452600	MB for HBN 150878 [ENVX/21857]	30.00g	0.5ml		MB	4		SNCTNSV.4P	6158	6/29/2015	6/4/2015	
2	1515552004	F9M42	30.00g	0.5ml		SAMPLE	4	1515552004-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
	*RERUN[6141,RX]												

sonco SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316 / FGM36 Horizon Extraction HBN 150878

Work Order# 1515552 Sample #'s 4 Extraction Method SOM01.2

SOP: OE-EP-SOM Analytical Fraction SV/SV-SIM Matrix SOIL

Date samples weighed out 6/19/15 by VE balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/19/15 0930 Stop Date/Time (CLLE's/Soxlet) VE Extracted by VE

	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 ☐ Toluene ☐ N/A ☐ CH_2Cl_2
Vendor	JT BAKER		JT BAKER	B&J	
Lot Number	18985		97623	DM245	
Amount	PERSOP		PERSOP	PERSOP	

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	28289		VE	
Spiked Amount	1mL			
Spiked By	VE			

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *		VE		
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 6/19/15 0945 by VE Comments TEMP WAS 69°C

Final Concentration: Date/Time 6/19/15 12:00 by VE Comments The Temp Was 67°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature [signature] **Date** 6/19/15

Batch Worklist

Batch: ENVX/ 21862 Created: 6/19/2015 10:54 Instrument: GPC07 HBN: 150900

Rule: GPC SVOA Analyst: L. Edwards Status: NA

Workorder: 1515552 SDG: F9M36 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	452653	GB for HBN 150900 [ENVX/21862]				GB	4		E.GPC.SV.P	6158		6/10/2015	6/19/2015
2	452600	MB for HBN 150878 [ENVX/21857]	30 grams	.5 mL		MB	4		E.GPC.SV.P	6158		6/10/2015	6/19/2015
3	1515552004	F9M42	30 grams	.5 mL		SAMPLE	4	1515552004-A	E.GPC.SV.P	5936		6/10/2015	6/19/2015
	*RERUN[6141,RX]												

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**SVOA**	**Work Order ID:**	**1515552**	**Horizon Batch ID:**	**150900**
Account:	**08201**	**Instrument ID:**	**GPC07**	**Column ID:**	**8171860-3 545929-11**	**Flow Rate:**	**5mL/min.**
Load Date:	**6/19/15**	**Load Time:**	**10:42**	**Pressure (PSI)**	**150**	**PST/ARO Weekly ID:**	**17-Jun**

Position	ALS Sample ID	Client Sample ID	Extract Notes/Comments
1	452653	GPC07 Blank	Colorless
2	1515552004	F9M42	Dark Yellow
3	Rinse		Column Wash
4	452600	MB for HBN 150878	Colorless
5	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**15.9**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.3**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

Batch Worklist

Batch: EGC/ 5814 Created: 6/20/2015 08:48 Instrument: HBN: 150928

Rule: SOM Pesticides, Soil Analyst: S. Sagers Status: WP

Workorder: 1515552 SDG: F9M36 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	450508	MB for HBN 150089 [ENVX/21758]	30 grams	5 mL		MB	4		SOMPESTS.4	6158	7/20/2015	6/23/2015	
2	450509	LCS-P for HBN 150089 [ENVX/217	30 grams	5 mL		LCS-P	4		SOMPESTS.4	6158	7/20/2015	6/23/2015	
3	1515552001	F9M36	30.1 grams	5 mL		SAMPLE	4	1515552001-A	S12PESTS.4	5936	7/20/2015	6/23/2015	
4	1515552002	F9M36MS	30.13 grams	5 mL		MS	4	1515552002-A	S12PESTS.4	5936	7/20/2015	6/23/2015	
5	1515552003	F9M36MSD	30.5 grams	5 mL		MSD	4	1515552003-A	S12PESTS.4	5936	7/20/2015	6/23/2015	
6	1515552004	F9M42	30.09 grams	5 mL		SAMPLE	4	1515552004-A	S12PESTS.4	5936	7/20/2015	6/23/2015	
7	1515552005	F9M43	30.15 grams	5 mL		SAMPLE	4	1515552005-A	S12PESTS.4	5936	7/20/2015	6/23/2015	
8	1515552006	F9M44	30.1 grams	5 mL		SAMPLE	4	1515552006-A	S12PESTS.4	5936	7/20/2015	6/23/2015	
9	1515552007	F9M45	30.32 grams	5 mL		SAMPLE	4	1515552007-A	S12PESTS.4	5936	7/20/2015	6/23/2015	

GC/ECD PESTICIDES ANALYST WRITE-UP

Batch: EGC/ 5814 Created: 6/20/2015 08:48 Instrument: HBN: 150928
Rule: SOM Pesticides, Soil Analyst: S. Sagers Status: WP

Workorder: 1515552 SDG: F9M36 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date
1	450508	MB for HBN 150089 [ENVX/21758]	30 grams	5 mL		MB	4		SOMPEST S.4	6158	7/20/2015	6/23/2015
2	450509	LCS-P for HBN 150089 [ENVX/217	30 grams	5 mL		LCS-P	4		SOMPEST S.4	6158	7/20/2015	6/23/2015
3	1515552001	F9M36	30.1 grams	5 mL		SAMPLE	4	1515552001-A	S12PEST S.4	5936	7/20/2015	6/23/2015
4	1515552002	F9M36MS	30.13 grams	5 mL		MS	4	1515552002-A	S12PEST S.4	5936	7/20/2015	6/23/2015
5	1515552003	F9M36MSD	30.5 grams	5 mL		MSD	4	1515552003-A	S12PEST S.4	5936	7/20/2015	6/23/2015
6	1515552004	F9M42	30.09 grams	5 mL		SAMPLE	4	1515552004-A	S12PEST S.4	5936	7/20/2015	6/23/2015
7	1515552005	F9M43	30.15 grams	5 mL		SAMPLE	4	1515552005-A	S12PEST S.4	5936	7/20/2015	6/23/2015
8	1515552006	F9M44	30.1 grams	5 mL		SAMPLE	4	1515552006-A	S12PEST S.4	5936	7/20/2015	6/23/2015
9	1515552007	F9M45	30.32 grams	5 mL		SAMPLE	4	1515552007-A	S12PEST S.4	5936	7/20/2015	6/23/2015

Samples analyzed: 06/19/2015-06/20/2015 ICAL(s) analyzed: 06/19/2015 (1) CCVs: 2, 3

Instrument; GC21: HP5890 with RTXCLP (30m x 0.32mm ID x 0.50um film) and RTXCLP2 (30m x 0.32mm ID x 0.25um film) columns and EC detectors. Helium carrier gas.

Injection volulme: 2.0 uL. Injector temps: 170C. Detector temps: 320C.

GC Program: 105C for 0 min, 30C/min to 180C for 0 min, 12.5C/min to 270C for 0 min, 30C/min to 330C for 5.00 min. 16.70 min total.

Surrogates: All samples passed SOW surrogate recovery criteria.

LCS: All recoveries were within established limits.

MS and MSD: All recoveries and RPDs were within established limits.

Dilutions: No dilutions were required.

Miscellaneous: 1) None.

: 007799

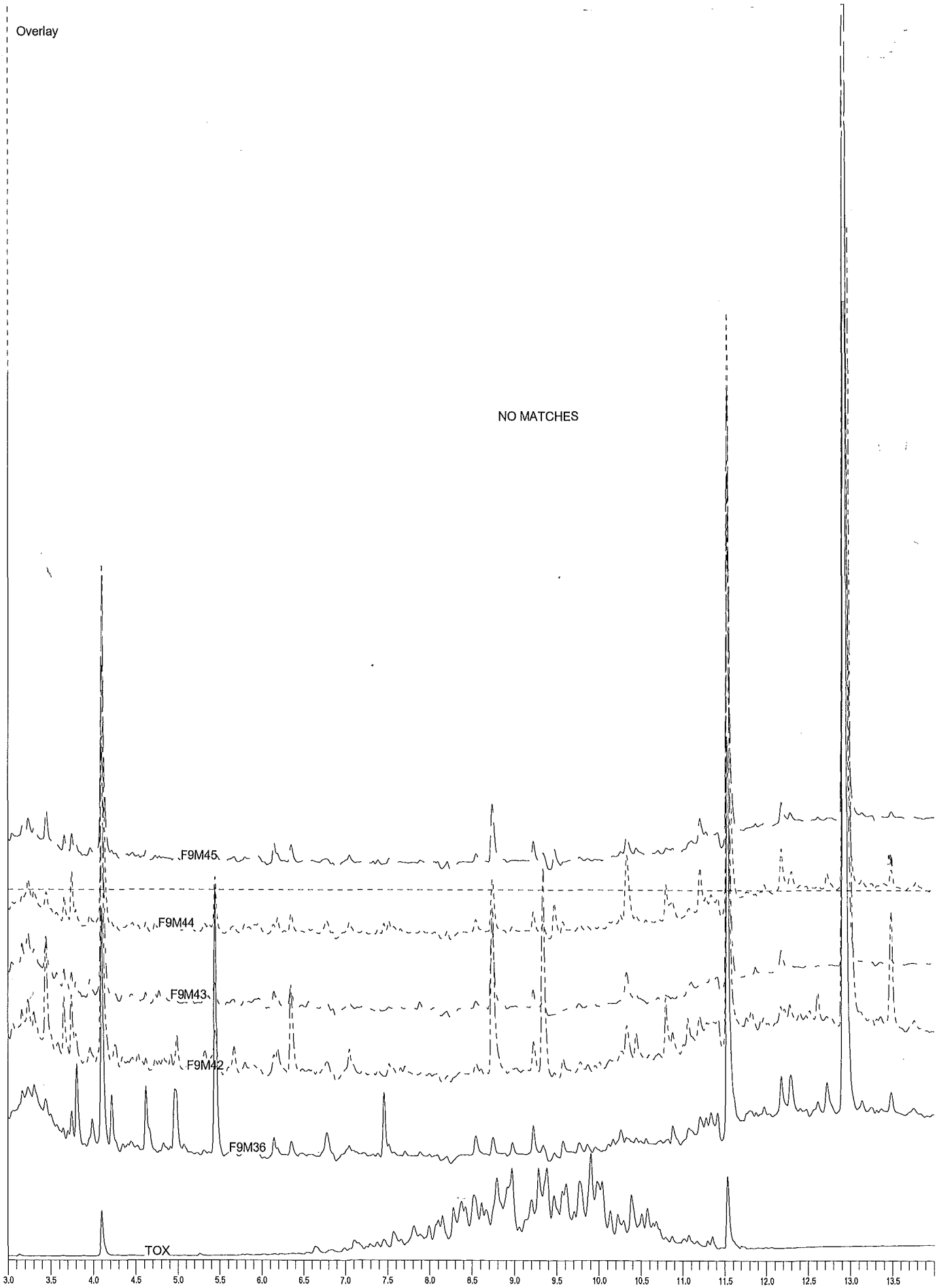
GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID	
21150619A_002.rst	06/19/2015	18:35:42	PRIME		GC21A	RTXCLP 0.32mm x 30m	
21150619A_003.rst	06/19/2015	18:56:36	PRIME		GC21A	RTXCLP 0.32mm x 30m	
21150619A_004.rst	06/19/2015	19:17:32	RESC11	228313	GC21A	RTXCLP 0.32mm x 30m	
21150619A_005.rst	06/19/2015	19:38:40	PEM11	28317	GC21A	RTXCLP 0.32mm x 30m	
21150619A_006.rst	06/19/2015	19:59:48	TOXAPH111	28306	GC21A	RTXCLP 0.32mm x 30m	
21150619A_007.rst	06/19/2015	20:20:40	TOXAPH211	28307	GC21A	RTXCLP 0.32mm x 30m	
21150619A_008.rst	06/19/2015	20:41:48	TOXAPH311	28308	GC21A	RTXCLP 0.32mm x 30m	
21150619A_009.rst	06/19/2015	21:02:40	TOXAPH411	28309	GC21A	RTXCLP 0.32mm x 30m	
21150619A_010.rst	06/19/2015	21:23:33	TOXAPH511	28310	GC21A	RTXCLP 0.32mm x 30m	
21150619A_011.rst	06/19/2015	21:44:25	INDC111	28311	GC21A	RTXCLP 0.32mm x 30m	
21150619A_012.rst	06/19/2015	22:05:13	INDC211	28312	GC21A	RTXCLP 0.32mm x 30m	
21150619A_013.rst	06/19/2015	22:26:17	INDC311	28313	GC21A	RTXCLP 0.32mm x 30m	
21150619A_014.rst	06/19/2015	22:47:05	INDC411	28314	GC21A	RTXCLP 0.32mm x 30m	
21150619A_015.rst	06/19/2015	23:07:51	INDC511	28315	GC21A	RTXCLP 0.32mm x 30m	
21150619A_016.rst	06/19/2015	23:28:41	PIBLK21	28316	GC21A	RTXCLP 0.32mm x 30m	
21150619A_017.rst	06/19/2015	23:49:29	PEM21	28317	GC21A	RTXCLP 0.32mm x 30m	
21150619A_018.rst	06/20/2015	00:10:17	GPC6PST0617		GC21A	RTXCLP 0.32mm x 30m	
21150619A_019.rst	06/20/2015	00:31:04	GPC6BLK0617		GC21A	RTXCLP 0.32mm x 30m	
21150619A_020.rst	06/20/2015	00:52:04	450508	PBLKS1	GC21A	RTXCLP 0.32mm x 30m	
21150619A_021.rst	06/20/2015	01:12:48	450509	PLCSS1	GC21A	RTXCLP 0.32mm x 30m	
21150619A_022.rst	06/20/2015	01:33:34	1515552001	F9M36	GC21A	RTXCLP 0.32mm x 30m	
21150619A_023.rst	06/20/2015	01:54:20	1515552002	F9M36MS	GC21A	RTXCLP 0.32mm x 30m	
21150619A_024.rst	06/20/2015	02:15:08	1515552003	F9M36MSD	GC21A	RTXCLP 0.32mm x 30m	
21150619A_025.rst	06/20/2015	02:35:54	1515552004	F9M42	GC21A	RTXCLP 0.32mm x 30m	
21150619A_026.rst	06/20/2015	02:56:44	1515552005	F9M43	GC21A	RTXCLP 0.32mm x 30m	
21150619A_027.rst	06/20/2015	03:17:34	1515552006	F9M44	GC21A	RTXCLP 0.32mm x 30m	
21150619A_028.rst	06/20/2015	03:38:20	1515552007	F9M45	GC21A	RTXCLP 0.32mm x 30m	
21150619A_029.rst	06/20/2015	03:59:19	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_030.rst	06/20/2015	04:20:03	PIBLK31	28316	GC21A	RTXCLP 0.32mm x 30m	
21150619A_031.rst	06/20/2015	04:40:47	INDC331	28313	GC21A	RTXCLP 0.32mm x 30m	
21150619A_032.rst	06/20/2015	05:01:35	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_033.rst	06/20/2015	05:22:21	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_034.rst	06/20/2015	13:32:26	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_035.rst	06/20/2015	13:52:54	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_036.rst	06/20/2015	14:13:41	PIBLK41	28316	GC21A	RTXCLP 0.32mm x 30m	
21150619A_037.rst	06/20/2015	14:34:30	PEM41	28317	GC21A	RTXCLP 0.32mm x 30m	
21150619A_038.rst	06/20/2015	14:55:22	GPC6PST0616		GC21A	RTXCLP 0.32mm x 30m	
21150619A_039.rst	06/20/2015	15:16:28	GPC6BLK0616		GC21A	RTXCLP 0.32mm x 30m	
21150619A_040.rst	06/20/2015	15:37:20	450688	PBLKS1	GC21A	RTXCLP 0.32mm x 30m	
21150619A_041.rst	06/20/2015	15:58:10	450689	PLCSS1	GC21A	RTXCLP 0.32mm x 30m	
21150619A_042.rst	06/20/2015	16:19:06	1515380001	F9M15	GC21A	RTXCLP 0.32mm x 30m	
21150619A_043.rst	06/20/2015	16:40:01	1515380002	F9M15MS	GC21A	RTXCLP 0.32mm x 30m	
21150619A_044.rst	06/20/2015	17:00:53	1515380003	F9M15MSD	GC21A	RTXCLP 0.32mm x 30m	
21150619A_045.rst	06/20/2015	17:21:59	1515380004	F9M20	GC21A	RTXCLP 0.32mm x 30m	
21150619A_046.rst	06/20/2015	17:42:55	1515618001	F9M69	GC21A	RTXCLP 0.32mm x 30m	
21150619A_047.rst	06/20/2015	18:04:01	1515618002	F9M70	GC21A	RTXCLP 0.32mm x 30m	
21150619A_048.rst	06/20/2015	18:24:53	1515618003	F9M71	GC21A	RTXCLP 0.32mm x 30m	
21150619A_049.rst	06/20/2015	18:45:43	1515618004X	F9M72X	GC21A	RTXCLP 0.32mm x 30m	Low surrogates. Re-analyzed Aro extract.
21150619A_050.rst	06/20/2015	19:06:36	1515618005	F9M73	GC21A	RTXCLP 0.32mm x 30m	
21150619A_051.rst	06/20/2015	19:27:28	1515618006	F9M74	GC21A	RTXCLP 0.32mm x 30m	
21150619A_052.rst	06/20/2015	19:48:22	1515618007	F9M75	GC21A	RTXCLP 0.32mm x 30m	
21150619A_053.rst	06/20/2015	20:09:12	1515618008	F9M76	GC21A	RTXCLP 0.32mm x 30m	
21150619A_054.rst	06/20/2015	20:30:18	1515618009	F9M77	GC21A	RTXCLP 0.32mm x 30m	
21150619A_055.rst	06/20/2015	20:51:20	1515618010	F9M78	GC21A	RTXCLP 0.32mm x 30m	
21150619A_056.rst	06/20/2015	21:12:10	1515618011	F9M79	GC21A	RTXCLP 0.32mm x 30m	
21150619A_057.rst	06/20/2015	21:33:14	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_058.rst	06/20/2015	21:54:02	PIBLK51	28316	GC21A	RTXCLP 0.32mm x 30m	
21150619A_059.rst	06/20/2015	22:14:49	INDC351	28313	GC21A	RTXCLP 0.32mm x 30m	
21150619A_060.rst	06/20/2015	22:35:38	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_061.rst	06/20/2015	22:56:26	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_062.rst	06/21/2015	08:24:37	1515618004	F9M72	GC21A	RTXCLP 0.32mm x 30m	OK
21150619A_063.rst	06/21/2015	08:45:21	PIBLK61	28316	GC21A	RTXCLP 0.32mm x 30m	
21150619A_064.rst	06/21/2015	09:06:19	PEM61	28317	GC21A	RTXCLP 0.32mm x 30m	
21150619A_065.rst	06/21/2015	09:27:07	RINSE		GC21A	RTXCLP 0.32mm x 30m	

GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID	
21150619B_001.rst	06/19/2015	18:35:42	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_002.rst	06/19/2015	18:56:36	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_003.rst	06/19/2015	19:17:32	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_004.rst	06/19/2015	19:38:40	RESC12	228313	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_005.rst	06/19/2015	19:59:48	PEM12	28317	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_006.rst	06/19/2015	20:20:40	TOXAPH112	28306	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_007.rst	06/19/2015	20:41:48	TOXAPH212	28307	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_008.rst	06/19/2015	21:02:40	TOXAPH312	28308	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_009.rst	06/19/2015	21:23:33	TOXAPH412	28309	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_010.rst	06/19/2015	21:44:25	TOXAPH512	28310	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_011.rst	06/19/2015	22:05:13	INDC112	28311	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_012.rst	06/19/2015	22:26:17	INDC212	28312	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_013.rst	06/19/2015	22:47:05	INDC312	28313	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_014.rst	06/19/2015	23:07:51	INDC412	28314	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_015.rst	06/19/2015	23:28:41	INDC512	28315	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_016.rst	06/19/2015	23:49:29	PIBLK22	28316	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_017.rst	06/20/2015	00:10:17	PEM22	28317	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_018.rst	06/20/2015	00:31:04	GPC6PST0617		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_019.rst	06/20/2015	00:52:04	GPC6BLK0617		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_020.rst	06/20/2015	01:12:48	450508	PBLKS1	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_021.rst	06/20/2015	01:33:34	450509	PLCSS1	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_022.rst	06/20/2015	01:54:20	1515552001	F9M36	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_023.rst	06/20/2015	02:15:08	1515552002	F9M36MS	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_024.rst	06/20/2015	02:35:54	1515552003	F9M36MSD	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_025.rst	06/20/2015	02:56:44	1515552004	F9M42	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_026.rst	06/20/2015	03:17:34	1515552005	F9M43	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_027.rst	06/20/2015	03:38:20	1515552006	F9M44	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_028.rst	06/20/2015	03:59:19	1515552007	F9M45	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_029.rst	06/20/2015	04:20:03	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_030.rst	06/20/2015	04:40:47	PIBLK32	28316	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_031.rst	06/20/2015	05:01:35	INDC332	28313	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_032.rst	06/20/2015	05:22:21	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_033.rst	06/20/2015	13:32:26	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_034.rst	06/20/2015	13:52:54	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_035.rst	06/20/2015	14:13:41	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_036.rst	06/20/2015	14:34:30	PIBLK42	28316	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_037.rst	06/20/2015	14:55:22	PEM42	28317	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_038.rst	06/20/2015	15:16:28	GPC6PST0616		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_039.rst	06/20/2015	15:37:20	GPC6BLK0616		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_040.rst	06/20/2015	15:58:10	450688	PBLKS1	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_041.rst	06/20/2015	16:19:06	450689	PLCSS1	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_042.rst	06/20/2015	16:40:01	1515380001	F9M15	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_043.rst	06/20/2015	17:00:53	1515380002	F9M15MS	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_044.rst	06/20/2015	17:21:59	1515380003	F9M15MSD	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_045.rst	06/20/2015	17:42:55	1515380004	F9M20	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_046.rst	06/20/2015	18:04:01	1515618001	F9M69	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_047.rst	06/20/2015	18:24:53	1515618002	F9M70	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_048.rst	06/20/2015	18:45:43	1515618003	F9M71	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_049.rst	06/20/2015	19:06:36	1515618004X	F9M72X	GC21B	RTXCLP2 0.32mm x 30m	Low surrogates. Re-analyze Aro extract.
21150619B_050.rst	06/20/2015	19:27:28	1515618005	F9M73	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_051.rst	06/20/2015	19:48:22	1515618006	F9M74	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_052.rst	06/20/2015	20:09:12	1515618007	F9M75	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_053.rst	06/20/2015	20:30:18	1515618008	F9M76	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_054.rst	06/20/2015	20:51:20	1515618009	F9M77	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_055.rst	06/20/2015	21:12:10	1515618010	F9M78	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_056.rst	06/20/2015	21:33:14	1515618011	F9M79	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_057.rst	06/20/2015	21:54:02	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_058.rst	06/20/2015	22:14:49	PIBLK52	28316	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_059.rst	06/20/2015	22:35:38	INDC352	28313	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_060.rst	06/20/2015	22:56:26	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_061.rst	06/21/2015	08:24:37	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_062.rst	06/21/2015	08:45:21	1515618004	F9M72	GC21B	RTXCLP2 0.32mm x 30m	OK
21150619B_063.rst	06/21/2015	09:06:19	PIBLK62	28316	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_064.rst	06/21/2015	09:27:07	PEM62	28317	GC21B	RTXCLP2 0.32mm x 30m	

Plot Title		Start Time	End Time	Scale	Offset
21150619A_027.raw		3.00	14.00	99.00	21.00
Sample Name :	1515552006				
Sample Number:	027				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_026.raw		3.00	14.00	99.00	21.00
Sample Name :	1515552005				
Sample Number:	026				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_008.raw		3.00	14.00	400.00	21.00
Sample Name :	TOXAPH311				
Sample Number:	008				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_025.raw		3.00	14.00	99.00	21.00
Sample Name :	1515552004				
Sample Number:	025				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_028.raw		3.00	14.00	99.00	21.00
Sample Name :	1515552007				
Sample Number:	028				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_022.raw		3.00	14.00	99.00	21.00
Sample Name :	1515552001				
Sample Number:	022				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				


Overlay
NO MATCHES
F9M45
F9M44
F9M43
F9M42
F9M36
TOX
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
9.5
10.0
10.5
11.0
11.5
12.0
12.5
13.0
13.5

Batch Worklist

Batch: ENVX/ 21758 Created: 6/8/2015 11:42 Instrument: HBN: 150089

Rule: Sonication Extrcn, Pest/Aclr Analyst: L. Edwards Status: NA

Workorder: 1515552 SDG: F9M36 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	450508	MB for HBN 150089 [ENVX/21758]	30.00 g	5 ml		MB	4		SNCTNPA.4P	6158	6/18/2015	6/4/2015	
2	450509	LCS-P for HBN 150089 [ENVX/217	30.00 g			LCS-P	4		SNCTNPA.4P	6158	6/18/2015	6/4/2015	
3	450510	LCS-A for HBN 150089 [ENVX/217	30.00 g			LCS-A	4		SNCTNPA.4P	6158	6/18/2015	6/4/2015	
4	1515552001	F9M36	30.10 g			SAMPLE	4	1515552001-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
5	1515552002	F9M36MS	30.13 g			MS	4	1515552002-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
6	1515552003	F9M36MSD	30.50 g			MSD	4	1515552003-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
7	1515552004	F9M42	30.09 g			SAMPLE	4	1515552004-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
8	1515552005	F9M43	30.15 g			SAMPLE	4	1515552005-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
9	1515552006	F9M44	30.10 g			SAMPLE	4	1515552006-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
10	1515552007	F9M45	30.32 g			SAMPLE	4	1515552007-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	

mgl

50mo 1:25

Batch Worklist

Batch: ENVX/ 21772 Created: 6/9/2015 15:06 Instrument: GPC06 HBN: 150213

Rule: GPC Pest/Aro Analyst: L. Edwards Status: NA

Workorder: 1515552 SDG: F9M36 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	450811	GB for HBN 150213 [ENVX/21772]				GB	4		E.GPC.PA.P	6158		6/6/2015	6/8/2015
2	450508	MB for HBN 150089 [ENVX/21758]	30 grams	5 mL		MB	4		E.GPC.PA.P	6158		6/6/2015	6/8/2015
3	450509	LCS-P for HBN 150089 [ENVX/217	30 grams	5 mL		LCS-P	4		E.GPC.PA.P	6158		6/6/2015	6/8/2015
4	450510	LCS-A for HBN 150089 [ENVX/217	30 grams	5 mL		LCS-A	4		E.GPC.PA.P	6158		6/6/2015	6/8/2015
5	1515552001	F9M36	30.1 grams	5 mL		SAMPLE	4	1515552001-A	E.GPC.PA.P	5936		6/9/2015	6/8/2015
6	1515552002	F9M36MS	30.13 grams	5 mL		MS	4	1515552002-A	E.GPC.PA.P	5936		6/6/2015	6/8/2015
7	1515552003	F9M36MSD	30.5 grams	5 mL		MSD	4	1515552003-A	E.GPC.PA.P	5936		6/6/2015	6/8/2015
8	1515552004	F9M42	30.09 grams	5 mL		SAMPLE	4	1515552004-A	E.GPC.PA.P	5936		6/9/2015	6/8/2015
9	1515552005	F9M43	30.15 grams	5 mL		SAMPLE	4	1515552005-A	E.GPC.PA.P	5936		6/6/2015	6/8/2015
10	1515552006	F9M44	30.1 grams	5 mL		SAMPLE	4	1515552006-A	E.GPC.PA.P	5936		6/9/2015	6/8/2015
11	1515552007	F9M45	30.32 grams	5 mL		SAMPLE	4	1515552007-A	E.GPC.PA.P	5936		6/9/2015	6/8/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**Pest/ARO**	**Work Order ID:**	**1515552**	**Horizon Batch ID:**	**150213**
Account:	**08201**	**Instrument ID:**	**GPC06**	**Column ID:**	**8181346-1 690492-1**	**Flow Rate:**	**5mL/min.**
Load Date:	**6/8/15**	**Load Time:**	**18:52**	**Pressure (PSI)**	**159**	**PST/ARO Weekly ID:**	**6/3/15**

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	450811	GPC06 Blank	
2	450508	MB for HBN 150089	
3	450509	LCS-P for HBN 150089	
4	450510	LCS-A for HBN 150089	
5	1515552001	F9M36	
6	1515552002	F9M36MS	
7	1515552003	F9M36MSD	
8	1515552002	F9M36MS	
9	1515552003	F9M36MSD	
10	1515552004	F9M42	
11	1515552005	F9M43	
12	1515552006	F9M44	
13	1515552007	F9M45	
14	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**18.7**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.5**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client U.S. EPA Region 6 Case/SDG # 45316 / F9M36 Horizon Extraction HBN 150089

Work Order# 1515552 Sample #'s 1-7 Extraction Method SOMO 1.2

SOP: OE-EP-SOM Analytical Fraction Pest Matrix Soil

Date samples weighed out 6/8/15 by Peter Tran balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/8/15 1600 Stop Date/Time (CLLE's/Soxlet) ——— Extracted by PT

	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 ☐ Toluene ☐ N/A ☐ CH_2Cl_2
Vendor	JT Baker		B.J	JT Baker	Baker
Lot Number	18985		DM245	97623	DM196
Amount	per SOP		per SOP	per SOP	60ml

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	26390	26391	26392	
Spiked Amount	1mL	0.2mL	0.2mL	
Spiked By	PT	PT	PT	

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 6/8/15 1630 by EP Comments The Temp was 67°C

Final Concentration: Date/Time 6/9/15 13:00 by [illegible] Comments The Temp was 78°C

Florisil (pesticides only) Date/Time 6/10/15 10:00 by [illegible] Florisil Column Lot # 24680

Comments

Checker Signature [illegible] **Date** 6/9/15

STANDARD REPORT

Working Standard - PSTCLP SURR

PSTCLP SURR	Description - PSTCLP TCX/DCB 10/20 INT

Standard:	28303	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612001	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	10 ug/mL
2	2051-24-3	Decachlorobiphenyl	20 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	5 mL	01/31/2020
28300	Hexanes	Hexanes DI907	DL907	45 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP TOX

PSTCLP TOX	Description - PSTCLP TOX 1/2/100 INT

Standard:	28304	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612002	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	100.15 ug/mL
2	877-09-8	Tetrachloro-m-xylene	1 ug/mL
3	2051-24-3	Decachlorobiphenyl	2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21739	Toxaphene	Toxaphene 1000 ppm	031412	5 mL	03/14/2022
28300	Hexanes	Hexanes DI907	DL907	40 mL	06/11/2025
28303	PSTCLP SURR	PSTCLP TCX/DCB 10/20 INT	EGC150612001	5 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PEST

PSTCLP PEST — **Description - PSTCLP PEST 1/2/10 INT**

Standard: 28305
MFG: ALS
MFG Lot: INT
Part ID:

Created By: S. Sagers
Create Date: 06/12/2015
Lab Lot: EGC150612003

Amount: 50 mL
Expires: 12/12/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	1 ug/mL
2	319-84-6	alpha-BHC	1 ug/mL
3	58-89-9	gamma-BHC	1 ug/mL
4	319-85-7	beta-BHC	1 ug/mL
5	319-86-8	delta-BHC	1 ug/mL
6	76-44-8	Heptachlor	1 ug/mL
7	309-00-2	Aldrin	1 ug/mL
8	1024-57-3	Heptachlor epoxide	1 ug/mL
9	12789-03-6	gamma-Chlordane	1 ug/mL
10	5103-71-9	alpha-Chlordane	1 ug/mL
11	72-55-9	4,4'-DDE	2 ug/mL
12	959-98-8	Endosulfan-I	1 ug/mL
13	60-57-1	Dieldrin	2 ug/mL
14	72-20-8	Endrin	2 ug/mL
15	72-54-8	4,4'-DDD	2 ug/mL
16	33213-65-9	Endosulfan-II	2 ug/mL
17	50-29-3	4,4'-DDT	2 ug/mL
18	7421-93-4	Endrin aldehyde	2 ug/mL
19	72-43-5	Methoxychlor	10 ug/mL
20	1031-07-8	Endosulfan sulfate	2 ug/mL
21	53494-70-5	Endrin ketone	2 ug/mL
22	2051-24-3	Decachlorobiphenyl	2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
25777	PSTCLP MIXC	PSTCLP MIXC 5/10/50	A093873	5 mL	03/31/2017
28300	Hexanes	Hexanes DI907	DL907	45 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP TOX1

PSTCLP TOX1	Description - PSTCLP TOX1 .005/.01/.5

Standard:	28306	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612004	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	0.50075 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28304	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC150612002	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX2

PSTCLP TOX2	Description - PSTCLP TOX2 .01/.02/1

Standard:	28307	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612005	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	1.0015 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99 mL	06/11/2025
28304	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC150612002	1 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX3

PSTCLP TOX3		Description - PSTCLP TOX3 .02/.04/2
Standard: 28308	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612006	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	2.003 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	98 mL	06/11/2025
28304	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC150612002	2 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX4

PSTCLP TOX4	Description - PSTCLP TOX4 .04/.08/4

Standard: 28309 **Created By:** S. Sagers **Amount:** 100 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: WS **Lab Lot:** EGC150612007 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	4.006 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28304	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC150612002	4 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX5

PSTCLP TOX5		Description - PSTCLP TOX5 .1/.2/10
Standard: 28310	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612008	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	10.015 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.1 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	90 mL	06/11/2025
28304	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC150612002	10 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST1

PSTCLP PST1 — **Description - PSTCLP PST1 .005/.01/.05**

Standard:	28311	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612009	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
2	319-84-6	alpha-BHC	0.005 ug/mL
3	58-89-9	gamma-BHC	0.005 ug/mL
4	319-85-7	beta-BHC	0.005 ug/mL
5	319-86-8	delta-BHC	0.005 ug/mL
6	76-44-8	Heptachlor	0.005 ug/mL
7	309-00-2	Aldrin	0.005 ug/mL
8	1024-57-3	Heptachlor epoxide	0.005 ug/mL
9	12789-03-6	gamma-Chlordane	0.005 ug/mL
10	5103-71-9	alpha-Chlordane	0.005 ug/mL
11	72-55-9	4,4'-DDE	0.01 ug/mL
12	959-98-8	Endosulfan-I	0.005 ug/mL
13	60-57-1	Dieldrin	0.01 ug/mL
14	72-20-8	Endrin	0.01 ug/mL
15	72-54-8	4,4'-DDD	0.01 ug/mL
16	33213-65-9	Endosulfan-II	0.01 ug/mL
17	50-29-3	4,4'-DDT	0.01 ug/mL
18	7421-93-4	Endrin aldehyde	0.01 ug/mL
19	72-43-5	Methoxychlor	0.05 ug/mL
20	1031-07-8	Endosulfan sulfate	0.01 ug/mL
21	53494-70-5	Endrin ketone	0.01 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28305	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC150612003	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST2

PSTCLP PST2 — **Description - PSTCLP PST2 .01/.02/.1**

Standard: 28312 **Created By:** S. Sagers **Amount:** 100 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: WS **Lab Lot:** EGC150612010 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
2	319-84-6	alpha-BHC	0.01 ug/mL
3	58-89-9	gamma-BHC	0.01 ug/mL
4	319-85-7	beta-BHC	0.01 ug/mL
5	319-86-8	delta-BHC	0.01 ug/mL
6	76-44-8	Heptachlor	0.01 ug/mL
7	309-00-2	Aldrin	0.01 ug/mL
8	1024-57-3	Heptachlor epoxide	0.01 ug/mL
9	12789-03-6	gamma-Chlordane	0.01 ug/mL
10	5103-71-9	alpha-Chlordane	0.01 ug/mL
11	72-55-9	4,4'-DDE	0.02 ug/mL
12	959-98-8	Endosulfan-I	0.01 ug/mL
13	60-57-1	Dieldrin	0.02 ug/mL
14	72-20-8	Endrin	0.02 ug/mL
15	72-54-8	4,4'-DDD	0.02 ug/mL
16	33213-65-9	Endosulfan-II	0.02 ug/mL
17	50-29-3	4,4'-DDT	0.02 ug/mL
18	7421-93-4	Endrin aldehyde	0.02 ug/mL
19	72-43-5	Methoxychlor	0.1 ug/mL
20	1031-07-8	Endosulfan sulfate	0.02 ug/mL
21	53494-70-5	Endrin ketone	0.02 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99 mL	06/11/2025
28305	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC150612003	1 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST3

PSTCLP PST3	Description - PSTCLP PST3 .02/.04/.2

Standard: 28313 **Created By:** S. Sagers **Amount:** 200 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: WS **Lab Lot:** EGC150612011 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
2	319-84-6	alpha-BHC	0.02 ug/mL
3	58-89-9	gamma-BHC	0.02 ug/mL
4	319-85-7	beta-BHC	0.02 ug/mL
5	319-86-8	delta-BHC	0.02 ug/mL
6	76-44-8	Heptachlor	0.02 ug/mL
7	309-00-2	Aldrin	0.02 ug/mL
8	1024-57-3	Heptachlor epoxide	0.02 ug/mL
9	12789-03-6	gamma-Chlordane	0.02 ug/mL
10	5103-71-9	alpha-Chlordane	0.02 ug/mL
11	72-55-9	4,4'-DDE	0.04 ug/mL
12	959-98-8	Endosulfan-I	0.02 ug/mL
13	60-57-1	Dieldrin	0.04 ug/mL
14	72-20-8	Endrin	0.04 ug/mL
15	72-54-8	4,4'-DDD	0.04 ug/mL
16	33213-65-9	Endosulfan-II	0.04 ug/mL
17	50-29-3	4,4'-DDT	0.04 ug/mL
18	7421-93-4	Endrin aldehyde	0.04 ug/mL
19	72-43-5	Methoxychlor	0.2 ug/mL
20	1031-07-8	Endosulfan sulfate	0.04 ug/mL
21	53494-70-5	Endrin ketone	0.04 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	196 mL	06/11/2025
28305	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC150612003	4 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST4

PSTCLP PST4 — **Description - PSTCLP PST4 .04/.08/.4**

Standard:	28314	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612012	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
2	319-84-6	alpha-BHC	0.04 ug/mL
3	58-89-9	gamma-BHC	0.04 ug/mL
4	319-85-7	beta-BHC	0.04 ug/mL
5	319-86-8	delta-BHC	0.04 ug/mL
6	76-44-8	Heptachlor	0.04 ug/mL
7	309-00-2	Aldrin	0.04 ug/mL
8	1024-57-3	Heptachlor epoxide	0.04 ug/mL
9	12789-03-6	gamma-Chlordane	0.04 ug/mL
10	5103-71-9	alpha-Chlordane	0.04 ug/mL
11	72-55-9	4,4'-DDE	0.08 ug/mL
12	959-98-8	Endosulfan-I	0.04 ug/mL
13	60-57-1	Dieldrin	0.08 ug/mL
14	72-20-8	Endrin	0.08 ug/mL
15	72-54-8	4,4'-DDD	0.08 ug/mL
16	33213-65-9	Endosulfan-II	0.08 ug/mL
17	50-29-3	4,4'-DDT	0.08 ug/mL
18	7421-93-4	Endrin aldehyde	0.08 ug/mL
19	72-43-5	Methoxychlor	0.4 ug/mL
20	1031-07-8	Endosulfan sulfate	0.08 ug/mL
21	53494-70-5	Endrin ketone	0.08 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28305	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC150612003	4 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST5

PSTCLP PST5 — **Description - PSTCLP PST5 .1/.2/1**

Standard: 28315 **Created By:** S. Sagers **Amount:** 100 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: WS **Lab Lot:** EGC150612013 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.1 ug/mL
2	319-84-6	alpha-BHC	0.1 ug/mL
3	58-89-9	gamma-BHC	0.1 ug/mL
4	319-85-7	beta-BHC	0.1 ug/mL
5	319-86-8	delta-BHC	0.1 ug/mL
6	76-44-8	Heptachlor	0.1 ug/mL
7	309-00-2	Aldrin	0.1 ug/mL
8	1024-57-3	Heptachlor epoxide	0.1 ug/mL
9	12789-03-6	gamma-Chlordane	0.1 ug/mL
10	5103-71-9	alpha-Chlordane	0.1 ug/mL
11	72-55-9	4,4'-DDE	0.2 ug/mL
12	959-98-8	Endosulfan-I	0.1 ug/mL
13	60-57-1	Dieldrin	0.2 ug/mL
14	72-20-8	Endrin	0.2 ug/mL
15	72-54-8	4,4'-DDD	0.2 ug/mL
16	33213-65-9	Endosulfan-II	0.2 ug/mL
17	50-29-3	4,4'-DDT	0.2 ug/mL
18	7421-93-4	Endrin aldehyde	0.2 ug/mL
19	72-43-5	Methoxychlor	1 ug/mL
20	1031-07-8	Endosulfan sulfate	0.2 ug/mL
21	53494-70-5	Endrin ketone	0.2 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	90 mL	06/11/2025
28305	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC150612003	10 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP IBLK

PSTCLP IBLK	Description - PSTCLP IBLK 0.02/0.04

Standard:	28316	**Created By:**	S. Sagers	**Amount:**	500 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612014	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
2	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	499 mL	06/11/2025
28303	PSTCLP SURR	PSTCLP TCX/DCB 10/20 INT	EGC150612001	1 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PEM

PSTCLP PEM — **Description - PSTCLP PEM .01/.02/.05/.1/.25**

Standard: 28317 **Created By:** S. Sagers **Amount:** 200 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: WS **Lab Lot:** EGC150612015 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	319-84-6	alpha-BHC	0.01 ug/mL
2	58-89-9	gamma-BHC	0.01 ug/mL
3	319-85-7	beta-BHC	0.01 ug/mL
4	72-20-8	Endrin	0.05 ug/mL
5	50-29-3	4,4'-DDT	0.1 ug/mL
6	72-43-5	Methoxychlor	0.25 ug/mL
7	2051-24-3	Decachlorobiphenyl	0.02 ug/mL
8	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21717	PSTCLP PEM	PSTCLP PEM 1/2/5/10/25	A085642	2 mL	12/31/2015
28300	Hexanes	Hexanes DI907	DL907	198 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP 245TP

PSTCLP 245TP	Description - PSTCLP 245TCP .1

Standard:	28318	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612016	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	95-95-4	2,4,5-Trichlorophenol	0.10035 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
25776	PSTCLP245TP	PSTCLP 245TCP 1000	A099095	0.025 mL	01/31/2020
28300	Hexanes	Hexanes DI907	DL907	49.975 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP SUR

PSTCLP SUR	Description - PSTCLP 2.2 SURR SPIKE 0.2/0.4

Standard:	28319	**Created By:**	S. Sagers	**Amount:**	1000 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	01/31/2020
MFG Lot:	SPIKE	**Lab Lot:**	EGC150612017	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.2 ug/mL
2	2051-24-3	Decachlorobiphenyl	0.4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	2 mL	01/31/2020
28301	Acetone	Acetone DL683	DL683	998 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP LCS

PSTCLP LCS	Description - PSTCLP LCS SPIKE .25/.5 SPIKE

Standard: 28320 **Created By:** S. Sagers **Amount:** 100 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: SPIKE **Lab Lot:** EGC150612018 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	58-89-9	gamma-BHC	0.25 ug/mL
2	1024-57-3	Heptachlor epoxide	0.25 ug/mL
3	12789-03-6	gamma-Chlordane	0.25 ug/mL
4	60-57-1	Dieldrin	0.5 ug/mL
5	72-55-9	4,4'-DDE	0.5 ug/mL
6	1031-07-8	Endosulfan sulfate	0.5 ug/mL
7	72-20-8	Endrin	0.5 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15473	PSTCLP LCS	PSTCLP LCS 10/20 STOCK	A088867	2.5 mL	11/30/2016
28300	Hexanes	Hexanes DI907	DL907	97.5 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP MS

PSTCLP MS	Description - PSTCLP MS SPIKE 2.5/5 SPIKE

Standard: 28321 **Created By:** S. Sagers **Amount:** 100 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: SPIKE **Lab Lot:** EGC150612019 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	58-89-9	gamma-BHC	2.505 ug/mL
2	50-29-3	4,4'-DDT	5.025 ug/mL
3	60-57-1	Dieldrin	5.02 ug/mL
4	72-20-8	Endrin	5.02 ug/mL
5	76-44-8	Heptachlor	2.51 ug/mL
6	309-00-2	Aldrin	2.515 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15377	PSTCLP MS	PSTCLP MS 50/100	102711	5 mL	10/27/2016
28300	Hexanes	Hexanes DI907	DL907	95 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP GPC

PSTCLP GPC	Description - PSTCLP GPC .02/.04 SPIKE

Standard: 28322 **Created By:** S. Sagers **Amount:** 1000 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: GPC WEEKLY **Lab Lot:** EGC150612020 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	58-89-9	gamma-BHC	0.02004 ug/mL
2	50-29-3	4,4'-DDT	0.0402 ug/mL
3	60-57-1	Dieldrin	0.04016 ug/mL
4	72-20-8	Endrin	0.04016 ug/mL
5	76-44-8	Heptachlor	0.02008 ug/mL
6	309-00-2	Aldrin	0.02012 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15377	PSTCLP MS	PSTCLP MS 50/100	102711	0.4 mL	10/27/2016
28302	MeCl2	Methylene Chloride 89762	89762	999.6 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP SUR

PSTCLP SUR	Description - PSTCLP 1.2 SURR SPIKE 0.6/0.12

Standard:	28323	**Created By:**	S. Sagers	**Amount:**	1000 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	01/31/2020
MFG Lot:	SPIKE	**Lab Lot:**	EGC150612021	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.6 ug/mL
2	2051-24-3	Decachlorobiphenyl	1.2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	6 mL	01/31/2020
28301	Acetone	Acetone DL683	DL683	994 mL	06/11/2025

21715 S 21715

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Rec'd 12/13/13

Catalog No. : 32453 **Lot No.:** A098794

Description : SOM01.1 Pesticide Surrogate Standard

Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2020 **Storage:** 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
	2,4,5,6-Tetrachloro-m-xylene	100.9 µg/mL	+/- 0.7157 µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/- 2.0258 µg/mL	Unstressed
	Purity 98%		+/- 3.4202 µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot ER071509-01)		+/- 4.0339 µg/mL	Unstressed
	Purity 99%		+/- 6.8105 µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

: 00023

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CERTIFIED WEIGHT REPORT

Part Number: 20021
Lot Number: 031412
Description: Toxaphene

Expiration Date: 031422

Nominal Concentration (µg/mL): 1000

Solvent(s): Lot # K38E41 Hexane

Storage: 4 °C

21739

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 100.0 0.002 Flask Uncertainty

Note: Toxaphene is a technical mixture of isomers.

Gabriel Helland	031412	
Formulated By: Gabriel Helland	DATE	
Pedro Rentas	031412	
Reviewed By: Pedro L. Rentas	DATE	

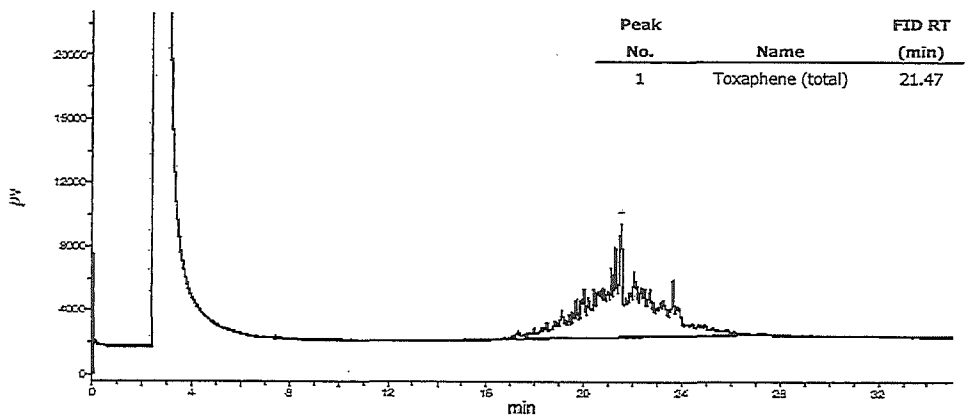
MSDS Information
(Solvent Safety Info. On Attached pg.)

	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.	Toxaphene	283	393-104A	1000	99	0.5	0.10100	0.10115	1001.5	0.0101	08001-35-2	N/A	orl-rat 69mg/kg

Run 21, "P20021 L031412 [1000µg/mL in hexane]"

Run Length: 35.00 min, 20999 points at 10 points/second.
Created: Thu, Mar 15, 2012 at 3:48:39 AM.
Sampled: Sequence "031412-GC3M1", Method "GC3-M1".
Analyzed using Method "GC3-M1".

Comments
GC3-M1 Analysis by Melissa Stonier
Column ID SPB-608 3 meter X 0.53mm X5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min)
Rate = 8°C/min, Total run time = 35 min
Injector temp. = 200°C, FID Temp. = 300°C, FID Signal = Edaq Channel 1
Standard injection = 1.0µL, Range=3



Peak No.	Name	FID RT (min)
1	Toxaphene (total)	21.47

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Rec'd 10/20/14

Catalog No. : 32454 **Lot No.:** A093873

Description : SOM01.0 Pesticide Resolution Check Mix

Organochlorine Pesticide Resolution Check Mix 10-100µg/mL, Hexane/Toluene (90:10), 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : March 2017 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 877-09-8		+/- 0.3571	µg/mL	Unstressed
	Purity 98%		+/- 0.6110	µg/mL	Stressed
2	alpha-BHC	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 319-84-6		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
3	gamma-BHC (Lindane)	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 58-89-9		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
4	beta-BHC	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 319-85-7		+/- 0.3571	µg/mL	Unstressed
	Purity 98%		+/- 0.6110	µg/mL	Stressed
5	delta-BHC	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 319-86-8		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
6	Heptachlor	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 76-44-8		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
7	Aldrin	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 309-00-2		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
8	Heptachlor epoxide (isomer B)	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 1024-57-3		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
9	trans-Chlordane	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 5103-74-2		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed

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Certificate #3222.02

Certificate of Analysis

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32074 **Lot No.:** A085642

Recd 12/13/13

Description : Pesticide Performance Eval Mix w/Surrogate

Performance Evaluation Std. 3/90 SOW w/surrogates 1-25ug/mL, Hexane, 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : December 2015 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
	2,4,5,6-Tetrachloro-m-xylene	2.0 ug/mL	+/- 0.0332	ug/mL	Gravimetric
	CAS # 877-09-8		+/- 0.0770	ug/mL	Unstressed
	Purity 98%		+/- 0.1256	ug/mL	Stressed
2	alpha-BHC	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 319-84-6		+/- 0.0385	ug/mL	Unstressed
	Purity 99%		+/- 0.0628	ug/mL	Stressed
3	gamma-BHC (Lindane)	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 58-89-9		+/- 0.0385	ug/mL	Unstressed
	Purity 99%		+/- 0.0628	ug/mL	Stressed
4	beta-BHC	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 319-85-7		+/- 0.0385	ug/mL	Unstressed
	Purity 98%		+/- 0.0628	ug/mL	Stressed
5	Endrin	5.0 ug/mL	+/- 0.0808	ug/mL	Gravimetric
	CAS # 72-20-8		+/- 0.1917	ug/mL	Unstressed
	Purity 99%		+/- 0.3135	ug/mL	Stressed
6	4,4'-DDT	10.0 ug/mL	+/- 0.1615	ug/mL	Gravimetric
	CAS # 50-29-3		+/- 0.3834	ug/mL	Unstressed
	Purity 99%		+/- 0.6269	ug/mL	Stressed
7	Methoxychlor	25.0 ug/mL	+/- 0.4032	ug/mL	Gravimetric
	CAS # 72-43-5		+/- 0.9583	ug/mL	Unstressed
	Purity 99%		+/- 1.5672	ug/mL	Stressed
8	Decachlorobiphenyl	2.0 ug/mL	+/- 0.0332	ug/mL	Gravimetric
	CAS # 2051-24-3		+/- 0.0771	ug/mL	Unstressed
	Purity 99%		+/- 0.1256	ug/mL	Stressed

Vent: Hexane
CAS # 110-54-3
Purity 99%

: 00829

S 25776

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Recd 10/20/14

Catalog No. : 32027 **Lot No.:** A099095

Description : 2,4,5,6-tetrachloro-m-xylene Mix

Tetrachloro-m-xylene 200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2020 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,5,6-Tetrachloro-m-xylene	200.7 µg/mL	+/- 1.1921 µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/- 4.0268 µg/mL	Unstressed
	Purity 98%		+/- 6.7998 µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

: 00827

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Rec'd 06/14/12

Catalog No. : 32040 **Lot No.:** A088867

Description : L/C Pesticide Lab Control Sample

L/C Lab Control Sample 10-20ug/mL, Acetone, 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : November 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
	gamma-BHC (Lindane)	10.0 ug/mL	+/- 0.1396	ug/mL	Gravimetric
	CAS # 58-89-9		+/- 0.3747	ug/mL	Unstressed
	Purity ----%		+/- 0.6217	ug/mL	Stressed
2	Heptachlor epoxide (isomer B)	10.0 ug/mL	+/- 0.1396	ug/mL	Gravimetric
	CAS # 1024-57-3		+/- 0.3747	ug/mL	Unstressed
	Purity 99%		+/- 0.6217	ug/mL	Stressed
3	trans-Chlordane	10.0 ug/mL	+/- 0.1396	ug/mL	Gravimetric
	CAS # 5103-74-2		+/- 0.3747	ug/mL	Unstressed
	Purity 99%		+/- 0.6217	ug/mL	Stressed
4	4,4'-DDE	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 72-55-9		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed
5	Dieldrin	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 60-57-1		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed
6	Endrin	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 72-20-8		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed
7	Endosulfan sulfate	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 1031-07-8		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

: 00020

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Recd 06/06/12

CERTIFIED WEIGHT REPORT

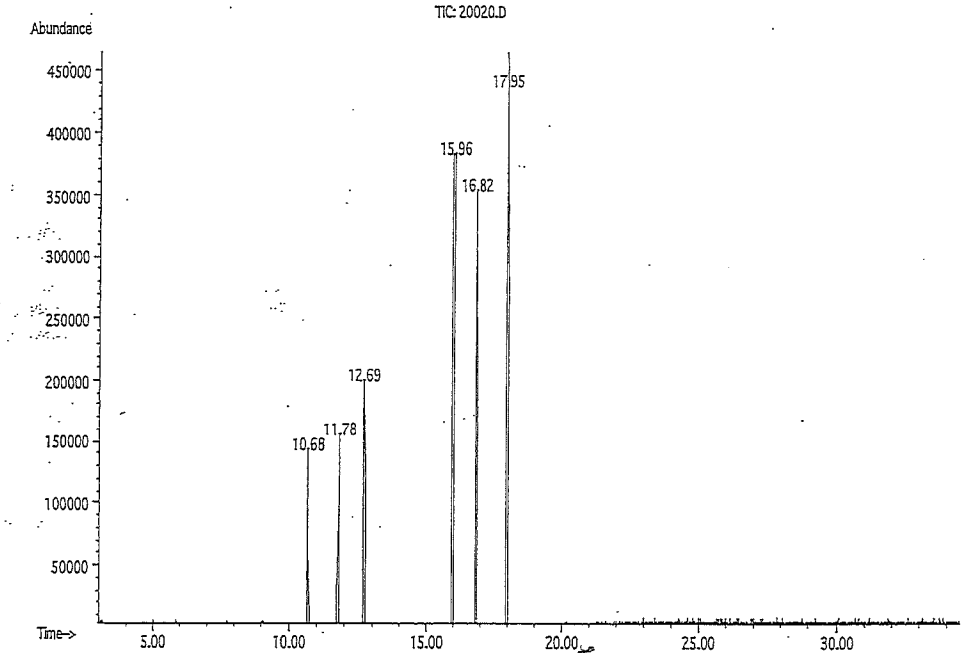
		Lot #	Solvent(s):
Part Number:	20020	J35E37	Acetone
Lot Number:	102711		
Description:	CLP Pesticide Matrix Spiking Solution		
	6 components		
Expiration Date:	102716		
	Storage: 4 °C		
Nominal Concentration (µg/mL):	Varied		

Formulated By:	Pat Scaturchio	102711 DATE
Reviewed By:	Pedro L. Rentas	102711 DATE

5E-05 Balance Uncertainty

Volume(s) shown below were combined and diluted to: 25.0 0.002 Flask Uncertainty

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. g-BHC (Lindane)	20120	073109	0.10	2.50	0.025	501.4	50.1	0.00891	00058-89-9	0.5mg/m3 (skin)	orl-rat 76mg/kg
2. 4,4'-DDT	20120	073109	0.10	2.50	0.025	1004.3	100.5	0.00571	00050-29-3	N/A	orl-rat 87mg/kg
3. Endrin	20120	073109	0.10	2.50	0.025	1003.5	100.4	0.00571	00072-20-8	0.1mg/m3 (skin)	orl-rat 3mg/kg
4. Heptachlor	20120	073109	0.10	2.50	0.025	501.7	50.2	0.00890	00076-44-8	0.5mg/m3 (skin)	orl-rat 40mg/kg
5. Aldrin	20120	073109	0.10	2.50	0.025	502.9	50.3	0.00889	00309-00-2	0.25mg/m3 (skin)	orl-rat 39mg/kg
6. Dieldrin	20120	073109	0.10	2.50	0.025	1003.5	100.4	0.00571	00060-57-1	0.25mg/m3 (skin)	orl-rat 38300ug/kg



Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.

Name	MSD RT (min.)
g-BHC (Lindane)	10.67
Heptachlor	11.78
Aldrin	12.69
Dieldrin	15.96
Endrin	16.81
4,4'-DDT	17.93

15377

Batch Worklist

Batch: EGC/ 5806 Created: 6/15/2015 16:18 Instrument: HBN: 150549

Rule: SOM Aroclors, Soil Analyst: N. Borges Status: WP

Workorder: 1515552 SDG: F9M36 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	450508	MB for HBN 150089 [ENVX/21758]	30 grams	5 mL		MB	4		SOMAROS..4	6158	7/19/2015	6/23/2015	
2	450510	LCS-A for HBN 150089 [ENVX/217	30 grams	5 mL		LCS-A	4		SOMAROS..4	6158	7/19/2015	6/23/2015	
3	1515552001	F9M36	30.1 grams	5 mL		SAMPLE	4	1515552001-A	S12AROS..4	5936	7/19/2015	6/23/2015	
4	1515552002	F9M36MS	30.13 grams	5 mL		MS	4	1515552002-A	S12AROS..4	5936	7/19/2015	6/23/2015	
5	1515552003	F9M36MSD	30.5 grams	5 mL		MSD	4	1515552003-A	S12AROS..4	5936	7/19/2015	6/23/2015	
6	1515552004	F9M42	30.09 grams	5 mL		SAMPLE	4	1515552004-A	S12AROS..4	5936	7/19/2015	6/23/2015	
7	1515552005	F9M43	30.15 grams	5 mL		SAMPLE	4	1515552005-A	S12AROS..4	5936	7/19/2015	6/23/2015	
8	1515552006	F9M44	30.1 grams	5 mL		SAMPLE	4	1515552006-A	S12AROS..4	5936	7/19/2015	6/23/2015	
9	1515552007	F9M45	30.32 grams	5 mL		SAMPLE	4	1515552007-A	S12AROS..4	5936	7/19/2015	6/23/2015	

GC/ECD AROCLORS ANALYST WRITE-UP

Batch: EGC/ 5806 Created: 6/15/2015 16:18 Instrument: HBN: 150549

Rule: SOM Aroclors, Soil Analyst: N. Borges Status: WP

Workorder: 1515552 SDG: F9M36 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	450508	MB for HBN 150089 [ENVX/21758]	30 grams	5 mL		MB	4		SOMAROS..4	6158	7/19/2015	6/23/2015	
2	450510	LCS-A for HBN 150089 [ENVX/217	30 grams	5 mL		LCS-A	4		SOMAROS..4	6158	7/19/2015	6/23/2015	
3	1515552001	F9M36	30.1 grams	5 mL		SAMPLE	4	1515552001-A	S12AROS..4	5936	7/19/2015	6/23/2015	
4	1515552002	F9M36MS	30.13 grams	5 mL		MS	4	1515552002-A	S12AROS..4	5936	7/19/2015	6/23/2015	
5	1515552003	F9M36MSD	30.5 grams	5 mL		MSD	4	1515552003-A	S12AROS..4	5936	7/19/2015	6/23/2015	
6	1515552004	F9M42	30.09 grams	5 mL		SAMPLE	4	1515552004-A	S12AROS..4	5936	7/19/2015	6/23/2015	
7	1515552005	F9M43	30.15 grams	5 mL		SAMPLE	4	1515552005-A	S12AROS..4	5936	7/19/2015	6/23/2015	
8	1515552006	F9M44	30.1 grams	5 mL		SAMPLE	4	1515552006-A	S12AROS..4	5936	7/19/2015	6/23/2015	
9	1515552007	F9M45	30.32 grams	5 mL		SAMPLE	4	1515552007-A	S12AROS..4	5936	7/19/2015	6/23/2015	

Samples analyzed: 06/15 - 16/2015 ICAL(s) analyzed: 06/15/2015 (A) CCVs: B, C

Instrument: GC20: HP5890 with RTXCLP (30m x 0.32mm ID x 0.50um film) and RTXCLP2 (30m x 0.32mm ID x 0.25um film) columns and EC detectors. Hydrogen carrier gas.

Injection volulme: 2.0 uL. Injector temps: 200C. Detector temps: 320C.

GC Program: 105C for 0 min, 30C/min to 180C for 0 min, 12.5C/min to 330C for 1.05 min 15.55 min total.

Surrogates: All samples passed SOW surrogate criteria.

LCS: All results were within established limits.

MS and MSD: All results were within established limits.

Dilutions: None.

Miscellaneous: None.

GC/ECD ARO INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
20150615A_004.rst	06/15/2015	17:43:46	AR16601A1	28333	GC20A	RTXCLP 0.32mm x 30m
20150615A_005.rst	06/15/2015	18:00:00	AR16602A1	28334	GC20A	RTXCLP 0.32mm x 30m
20150615A_006.rst	06/15/2015	18:16:12	AR16603A1	28335	GC20A	RTXCLP 0.32mm x 30m
20150615A_007.rst	06/15/2015	18:32:22	AR16604A1	28336	GC20A	RTXCLP 0.32mm x 30m
20150615A_008.rst	06/15/2015	18:48:30	AR16605A1	28337	GC20A	RTXCLP 0.32mm x 30m
20150615A_009.rst	06/15/2015	19:04:36	AR12213A1	28340	GC20A	RTXCLP 0.32mm x 30m
20150615A_010.rst	06/15/2015	19:20:58	AR12323A1	28346	GC20A	RTXCLP 0.32mm x 30m
20150615A_011.rst	06/15/2015	19:37:08	AR12423A1	28351	GC20A	RTXCLP 0.32mm x 30m
20150615A_012.rst	06/15/2015	19:53:20	AR12483A1	28356	GC20A	RTXCLP 0.32mm x 30m
20150615A_013.rst	06/15/2015	20:09:28	AR12543A1	28361	GC20A	RTXCLP 0.32mm x 30m
20150615A_014.rst	06/15/2015	20:25:33	AR12623A1	28366	GC20A	RTXCLP 0.32mm x 30m
20150615A_015.rst	06/15/2015	20:41:39	AR12683A1	28371	GC20A	RTXCLP 0.32mm x 30m
20150615A_016.rst	06/15/2015	20:57:46	AIBLKB1	28316	GC20A	RTXCLP 0.32mm x 30m
20150615A_017.rst	06/15/2015	21:13:54	AR16603B1	28335	GC20A	RTXCLP 0.32mm x 30m
20150615A_018.rst	06/15/2015	21:30:04	GPC60608	GPCBLK1	GC20A	RTXCLP 0.32mm x 30m
20150615A_019.rst	06/15/2015	21:46:08	450508	ABLKS1	GC20A	RTXCLP 0.32mm x 30m
20150615A_020.rst	06/15/2015	22:02:14	450510	ALCSS1	GC20A	RTXCLP 0.32mm x 30m
20150615A_021.rst	06/15/2015	22:18:14	1515552001	F9M36	GC20A	RTXCLP 0.32mm x 30m
20150615A_022.rst	06/15/2015	22:34:24	1515552002	F9M36MS	GC20A	RTXCLP 0.32mm x 30m
20150615A_023.rst	06/15/2015	22:50:32	1515552003	F9M36MSD	GC20A	RTXCLP 0.32mm x 30m
20150615A_024.rst	06/15/2015	23:06:42	1515552004	F9M42	GC20A	RTXCLP 0.32mm x 30m
20150615A_025.rst	06/15/2015	23:22:46	1515552005	F9M43	GC20A	RTXCLP 0.32mm x 30m
20150615A_026.rst	06/15/2015	23:38:54	1515552006	F9M44	GC20A	RTXCLP 0.32mm x 30m
20150615A_027.rst	06/15/2015	23:55:00	1515552007	F9M45	GC20A	RTXCLP 0.32mm x 30m
20150615A_028.rst	06/16/2015	00:11:24	GPC60619	GPCBLK1	GC20A	RTXCLP 0.32mm x 30m
20150615A_029.rst	06/16/2015	00:27:28	450688	ABLKS1	GC20A	RTXCLP 0.32mm x 30m
20150615A_030.rst	06/16/2015	00:43:34	450690	ALCSS1	GC20A	RTXCLP 0.32mm x 30m
20150615A_031.rst	06/16/2015	00:59:50	1515380001	F9M15	GC20A	RTXCLP 0.32mm x 30m
20150615A_032.rst	06/16/2015	01:16:10	1515380002	F9M15MS	GC20A	RTXCLP 0.32mm x 30m
20150615A_033.rst	06/16/2015	01:32:16	1515380003	F9M15MSD	GC20A	RTXCLP 0.32mm x 30m
20150615A_034.rst	06/16/2015	01:48:22	1515380004	F9M20	GC20A	RTXCLP 0.32mm x 30m
20150615A_035.rst	06/16/2015	02:04:26	1515618001	F9M69	GC20A	RTXCLP 0.32mm x 30m
20150615A_036.rst	06/16/2015	02:20:34	1515618002	F9M70	GC20A	RTXCLP 0.32mm x 30m
20150615A_037.rst	06/16/2015	02:36:52	1515618003	F9M71	GC20A	RTXCLP 0.32mm x 30m
20150615A_038.rst	06/16/2015	02:52:58	1515618004	F9M72	GC20A	RTXCLP 0.32mm x 30m.
20150615A_039.rst	06/16/2015	03:09:04	1515618005	F9M73	GC20A	RTXCLP 0.32mm x 30m
20150615A_040.rst	06/16/2015	03:25:10	1515618006	F9M74	GC20A	RTXCLP 0.32mm x 30m
20150615A_041.rst	06/16/2015	03:41:24	1515618007	F9M75	GC20A	RTXCLP 0.32mm x 30m
20150615A_042.rst	06/16/2015	03:57:32	1515618008	F9M76	GC20A	RTXCLP 0.32mm x 30m
20150615A_043.rst	06/16/2015	04:13:36	1515618009	F9M77	GC20A	RTXCLP 0.32mm x 30m
20150615A_044.rst	06/16/2015	04:29:42	1515618010	F9M78	GC20A	RTXCLP 0.32mm x 30m
20150615A_045.rst	06/16/2015	04:45:58	1515618011	F9M79	GC20A	RTXCLP 0.32mm x 30m
20150615A_046.rst	06/16/2015	05:02:02		RINSE	GC20A	RTXCLP 0.32mm x 30m
20150615A_047.rst	06/16/2015	05:18:20	AIBLKC1	28316	GC20A	RTXCLP 0.32mm x 30m
20150615A_048.rst	06/16/2015	05:34:28	AR16603C1	28335	GC20A	RTXCLP 0.32mm x 30m
20150615A_049.rst	06/16/2015	05:50:44	GPC60610	GPCBLK1	GC20A	RTXCLP 0.32mm x 30m
20150615A_050.rst	06/16/2015	06:06:46	450966	ABLKS1	GC20A	RTXCLP 0.32mm x 30m
20150615A_051.rst	06/16/2015	06:22:48	450968	ALCSS1	GC20A	RTXCLP 0.32mm x 30m
20150615A_052.rst	06/16/2015	06:38:52	1515605001	F9M48	GC20A	RTXCLP 0.32mm x 30m
20150615A_053.rst	06/16/2015	06:54:52	1515605002	F9M48MS	GC20A	RTXCLP 0.32mm x 30m
20150615A_054.rst	06/16/2015	07:10:58	1515605003	F9M48MSD	GC20A	RTXCLP 0.32mm x 30m
20150615A_055.rst	06/16/2015	07:27:00	1515605004	F9M49	GC20A	RTXCLP 0.32mm x 30m
20150615A_056.rst	06/16/2015	07:43:02	1515605005	F9M50	GC20A	RTXCLP 0.32mm x 30m
20150615A_057.rst	06/16/2015	07:59:06	1515605006	F9M51	GC20A	RTXCLP 0.32mm x 30m
20150615A_058.rst	06/16/2015	08:15:28	1515605007	F9M52	GC20A	RTXCLP 0.32mm x 30m
20150615A_059.rst	06/16/2015	08:31:44	1515605008	F9M54	GC20A	RTXCLP 0.32mm x 30m
20150615A_060.rst	06/16/2015	08:47:52	1515605009	F9M55	GC20A	RTXCLP 0.32mm x 30m
20150615A_061.rst	06/16/2015	09:03:58	1515605010	F9M56	GC20A	RTXCLP 0.32mm x 30m
20150615A_062.rst	06/16/2015	09:20:06	1515605011	F9M57	GC20A	RTXCLP 0.32mm x 30m
20150615A_063.rst	06/16/2015	09:36:08	1515605012	F9M58	GC20A	RTXCLP 0.32mm x 30m
20150615A_064.rst	06/16/2015	09:52:16	1515605013	F9M59	GC20A	RTXCLP 0.32mm x 30m
20150615A_065.rst	06/16/2015	10:08:32	1515605014	F9M60	GC20A	RTXCLP 0.32mm x 30m
20150615A_066.rst	06/16/2015	10:24:44	1515605015	F9M61	GC20A	RTXCLP 0.32mm x 30m
20150615A_067.rst	06/16/2015	10:40:54	1515605016	F9M62	GC20A	RTXCLP 0.32mm x 30m
20150615A_068.rst	06/16/2015	10:57:20	1515605017	F9M63	GC20A	RTXCLP 0.32mm x 30m
20150615A_069.rst	06/16/2015	11:13:28	1515605018	F9M64	GC20A	RTXCLP 0.32mm x 30m
20150615A_070.rst	06/16/2015	11:29:40	1515605019	F9M65	GC20A	RTXCLP 0.32mm x 30m
20150615A_071.rst	06/16/2015	11:45:46	1515605020	F9M66	GC20A	RTXCLP 0.32mm x 30m
20150615A_072.rst	06/16/2015	12:02:02	1515605021	F9M67	GC20A	RTXCLP 0.32mm x 30m
20150615A_073.rst	06/16/2015	12:18:14	1515605022	F9M68	GC20A	RTXCLP 0.32mm x 30m
20150615A_074.rst	06/16/2015	12:34:28		RINSE	GC20A	RTXCLP 0.32mm x 30m
20150615A_075.rst	06/16/2015	12:50:38	AIBLKD1	28316	GC20A	RTXCLP 0.32mm x 30m
20150615A_076.rst	06/16/2015	13:07:04	AR16603D1	28335	GC20A	RTXCLP 0.32mm x 30m

GC/ECD ARO INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
20150615B_004.rst	06/15/2015	18:00:00	AR16601A2	28333	GC20B	RTXCLP2 0.32mm x 30m
20150615B_005.rst	06/15/2015	18:16:12	AR16602A2	28334	GC20B	RTXCLP2 0.32mm x 30m
20150615B_006.rst	06/15/2015	18:32:22	AR16603A2	28335	GC20B	RTXCLP2 0.32mm x 30m
20150615B_007.rst	06/15/2015	18:48:30	AR16604A2	28336	GC20B	RTXCLP2 0.32mm x 30m
20150615B_008.rst	06/15/2015	19:04:36	AR16605A2	28337	GC20B	RTXCLP2 0.32mm x 30m
20150615B_009.rst	06/15/2015	19:20:58	AR12213A2	28340	GC20B	RTXCLP2 0.32mm x 30m
20150615B_010.rst	06/15/2015	19:37:08	AR12323A2	28346	GC20B	RTXCLP2 0.32mm x 30m
20150615B_011.rst	06/15/2015	19:53:20	AR12423A2	28351	GC20B	RTXCLP2 0.32mm x 30m
20150615B_012.rst	06/15/2015	20:09:28	AR12483A2	28356	GC20B	RTXCLP2 0.32mm x 30m
20150615B_013.rst	06/15/2015	20:25:33	AR12543A2	28361	GC20B	RTXCLP2 0.32mm x 30m
20150615B_014.rst	06/15/2015	20:41:39	AR12623A2	28366	GC20B	RTXCLP2 0.32mm x 30m
20150615B_015.rst	06/15/2015	20:57:46	AR12683A2	28371	GC20B	RTXCLP2 0.32mm x 30m
20150615B_016.rst	06/15/2015	21:13:54	AIBLKB2	28316	GC20B	RTXCLP2 0.32mm x 30m
20150615B_017.rst	06/15/2015	21:30:04	AR16603B2	28335	GC20B	RTXCLP2 0.32mm x 30m
20150615B_018.rst	06/15/2015	21:46:08	GPC60608	GPCBLK1	GC20B	RTXCLP2 0.32mm x 30m
20150615B_019.rst	06/15/2015	22:02:14	450508	ABLKS1	GC20B	RTXCLP2 0.32mm x 30m
20150615B_020.rst	06/15/2015	22:18:14	450510	ALCSS1	GC20B	RTXCLP2 0.32mm x 30m
20150615B_021.rst	06/15/2015	22:34:24	1515552001	F9M36	GC20B	RTXCLP2 0.32mm x 30m
20150615B_022.rst	06/15/2015	22:50:32	1515552002	F9M36MS	GC20B	RTXCLP2 0.32mm x 30m
20150615B_023.rst	06/15/2015	23:06:42	1515552003	F9M36MSD	GC20B	RTXCLP2 0.32mm x 30m
20150615B_024.rst	06/15/2015	23:22:46	1515552004	F9M42	GC20B	RTXCLP2 0.32mm x 30m
20150615B_025.rst	06/15/2015	23:38:54	1515552005	F9M43	GC20B	RTXCLP2 0.32mm x 30m
20150615B_026.rst	06/15/2015	23:55:00	1515552006	F9M44	GC20B	RTXCLP2 0.32mm x 30m
20150615B_027.rst	06/16/2015	00:11:24	1515552007	F9M45	GC20B	RTXCLP2 0.32mm x 30m
20150615B_028.rst	06/16/2015	00:27:28	GPC60619	GPCBLK1	GC20B	RTXCLP2 0.32mm x 30m
20150615B_029.rst	06/16/2015	00:43:34	450688	ABLKS1	GC20B	RTXCLP2 0.32mm x 30m
20150615B_030.rst	06/16/2015	00:59:50	450690	ALCSS1	GC20B	RTXCLP2 0.32mm x 30m
20150615B_031.rst	06/16/2015	01:16:10	1515380001	F9M15	GC20B	RTXCLP2 0.32mm x 30m
20150615B_032.rst	06/16/2015	01:32:16	1515380002	F9M15MS	GC20B	RTXCLP2 0.32mm x 30m
20150615B_033.rst	06/16/2015	01:48:22	1515380003	F9M15MSD	GC20B	RTXCLP2 0.32mm x 30m
20150615B_034.rst	06/16/2015	02:04:26	1515380004	F9M20	GC20B	RTXCLP2 0.32mm x 30m
20150615B_035.rst	06/16/2015	02:20:34	1515618001	F9M69	GC20B	RTXCLP2 0.32mm x 30m
20150615B_036.rst	06/16/2015	02:36:52	1515618002	F9M70	GC20B	RTXCLP2 0.32mm x 30m
20150615B_037.rst	06/16/2015	02:52:58	1515618003	F9M71	GC20B	RTXCLP2 0.32mm x 30m
20150615B_038.rst	06/16/2015	03:09:04	1515618004	F9M72	GC20B	RTXCLP2 0.32mm x 30m
20150615B_039.rst	06/16/2015	03:25:10	1515618005	F9M73	GC20B	RTXCLP2 0.32mm x 30m
20150615B_040.rst	06/16/2015	03:41:24	1515618006	F9M74	GC20B	RTXCLP2 0.32mm x 30m
20150615B_041.rst	06/16/2015	03:57:32	1515618007	F9M75	GC20B	RTXCLP2 0.32mm x 30m
20150615B_042.rst	06/16/2015	04:13:36	1515618008	F9M76	GC20B	RTXCLP2 0.32mm x 30m
20150615B_043.rst	06/16/2015	04:29:42	1515618009	F9M77	GC20B	RTXCLP2 0.32mm x 30m
20150615B_044.rst	06/16/2015	04:45:58	1515618010	F9M78	GC20B	RTXCLP2 0.32mm x 30m
20150615B_045.rst	06/16/2015	05:02:02	1515618011	F9M79	GC20B	RTXCLP2 0.32mm x 30m
20150615B_046.rst	06/16/2015	05:18:20		RINSE	GC20B	RTXCLP2 0.32mm x 30m
20150615B_047.rst	06/16/2015	05:34:28	AIBLKC2	28316	GC20B	RTXCLP2 0.32mm x 30m
20150615B_048.rst	06/16/2015	05:50:44	AR16603C2	28335	GC20B	RTXCLP2 0.32mm x 30m
20150615B_049.rst	06/16/2015	06:06:46	GPC60610	GPCBLK1	GC20B	RTXCLP2 0.32mm x 30m
20150615B_050.rst	06/16/2015	06:22:48	450966	ABLKS1	GC20B	RTXCLP2 0.32mm x 30m
20150615B_051.rst	06/16/2015	06:38:52	450968	ALCSS1	GC20B	RTXCLP2 0.32mm x 30m
20150615B_052.rst	06/16/2015	06:54:52	1515605001	F9M48	GC20B	RTXCLP2 0.32mm x 30m
20150615B_053.rst	06/16/2015	07:10:58	1515605002	F9M48MS	GC20B	RTXCLP2 0.32mm x 30m
20150615B_054.rst	06/16/2015	07:27:00	1515605003	F9M48MSD	GC20B	RTXCLP2 0.32mm x 30m
20150615B_055.rst	06/16/2015	07:43:02	1515605004	F9M49	GC20B	RTXCLP2 0.32mm x 30m
20150615B_056.rst	06/16/2015	07:59:06	1515605005	F9M50	GC20B	RTXCLP2 0.32mm x 30m
20150615B_057.rst	06/16/2015	08:15:28	1515605006	F9M51	GC20B	RTXCLP2 0.32mm x 30m
20150615B_058.rst	06/16/2015	08:31:44	1515605007	F9M52	GC20B	RTXCLP2 0.32mm x 30m
20150615B_059.rst	06/16/2015	08:47:52	1515605008	F9M54	GC20B	RTXCLP2 0.32mm x 30m
20150615B_060.rst	06/16/2015	09:03:58	1515605009	F9M55	GC20B	RTXCLP2 0.32mm x 30m
20150615B_061.rst	06/16/2015	09:20:06	1515605010	F9M56	GC20B	RTXCLP2 0.32mm x 30m
20150615B_062.rst	06/16/2015	09:36:08	1515605011	F9M57	GC20B	RTXCLP2 0.32mm x 30m
20150615B_063.rst	06/16/2015	09:52:16	1515605012	F9M58	GC20B	RTXCLP2 0.32mm x 30m
20150615B_064.rst	06/16/2015	10:08:32	1515605013	F9M59	GC20B	RTXCLP2 0.32mm x 30m
20150615B_065.rst	06/16/2015	10:24:44	1515605014	F9M60	GC20B	RTXCLP2 0.32mm x 30m
20150615B_066.rst	06/16/2015	10:40:54	1515605015	F9M61	GC20B	RTXCLP2 0.32mm x 30m
20150615B_067.rst	06/16/2015	10:57:20	1515605016	F9M62	GC20B	RTXCLP2 0.32mm x 30m
20150615B_068.rst	06/16/2015	11:13:28	1515605017	F9M63	GC20B	RTXCLP2 0.32mm x 30m
20150615B_069.rst	06/16/2015	11:29:40	1515605018	F9M64	GC20B	RTXCLP2 0.32mm x 30m
20150615B_070.rst	06/16/2015	11:45:46	1515605019	F9M65	GC20B	RTXCLP2 0.32mm x 30m
20150615B_071.rst	06/16/2015	12:02:02	1515605020	F9M66	GC20B	RTXCLP2 0.32mm x 30m
20150615B_072.rst	06/16/2015	12:18:14	1515605021	F9M67	GC20B	RTXCLP2 0.32mm x 30m
20150615B_073.rst	06/16/2015	12:34:28	1515605022	F9M68	GC20B	RTXCLP2 0.32mm x 30m
20150615B_074.rst	06/16/2015	12:50:38		RINSE	GC20B	RTXCLP2 0.32mm x 30m
20150615B_075.rst	06/16/2015	13:07:04	AIBLKD2	28316	GC20B	RTXCLP2 0.32mm x 30m
20150615B_076.rst	06/16/2015	13:23:30	AR16603D2	28335	GC20B	RTXCLP2 0.32mm x 30m

Batch Worklist

Batch: ENVX/ 21758 **Created:** 6/8/2015 11:42 **Instrument:** **HBN:** 150089

Rule: Sonication Extrcn, Pest/Aclr **Analyst:** L. Edwards **Status:** NA

Workorder: 1515552 **SDG:** F9M36 **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	450508	MB for HBN 150089 [ENVX/21758]	30.00 g	5 mL		MB	4		SNCTNPA.4P	6158	6/18/2015	6/4/2015	
2	450509	LCS-P for HBN 150089 [ENVX/217	30.00 g			LCS-P	4		SNCTNPA.4P	6158	6/18/2015	6/4/2015	
3	450510	LCS-A for HBN 150089 [ENVX/217	30.00 g			LCS-A	4		SNCTNPA.4P	6158	6/18/2015	6/4/2015	
4	1515552001	F9M36	30.10 g			SAMPLE	4	1515552001-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
5	1515552002	F9M36MS	30.13 g			MS	4	1515552002-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
6	1515552003	F9M36MSD	30.50 g			MSD	4	1515552003-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
7	1515552004	F9M42	30.09 g			SAMPLE	4	1515552004-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
8	1515552005	F9M43	30.15 g			SAMPLE	4	1515552005-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
9	1515552006	F9M44	30.10 g			SAMPLE	4	1515552006-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
10	1515552007	F9M45	30.32 g			SAMPLE	4	1515552007-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	

Trpl

some bad.

Batch Worklist

Batch: ENVX/ 21772 Created: 6/9/2015 15:06 Instrument: GPC06 HBN: 150213

Rule: GPC Pest/Aro Analyst: L. Edwards Status: NA

Workorder: 1515552 SDG: F9M36 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	450811	GB for HBN 150213 [ENVX/21772]				GB	4		E.GPC.PA.P	6158		6/6/2015	6/8/2015
2	450508	MB for HBN 150089 [ENVX/21758]	30 grams	5 mL		MB	4		E.GPC.PA.P	6158		6/6/2015	6/8/2015
3	450509	LCS-P for HBN 150089 [ENVX/217	30 grams	5 mL		LCS-P	4		E.GPC.PA.P	6158		6/6/2015	6/8/2015
4	450510	LCS-A for HBN 150089 [ENVX/217	30 grams	5 mL		LCS-A	4		E.GPC.PA.P	6158		6/6/2015	6/8/2015
5	1515552001	F9M36	30.1 grams	5 mL		SAMPLE	4	1515552001-A	E.GPC.PA.P	5936		6/9/2015	6/8/2015
6	1515552002	F9M36MS	30.13 grams	5 mL		MS	4	1515552002-A	E.GPC.PA.P	5936		6/6/2015	6/8/2015
7	1515552003	F9M36MSD	30.5 grams	5 mL		MSD	4	1515552003-A	E.GPC.PA.P	5936		6/6/2015	6/8/2015
8	1515552004	F9M42	30.09 grams	5 mL		SAMPLE	4	1515552004-A	E.GPC.PA.P	5936		6/9/2015	6/8/2015
9	1515552005	F9M43	30.15 grams	5 mL		SAMPLE	4	1515552005-A	E.GPC.PA.P	5936		6/6/2015	6/8/2015
10	1515552006	F9M44	30.1 grams	5 mL		SAMPLE	4	1515552006-A	E.GPC.PA.P	5936		6/9/2015	6/8/2015
11	1515552007	F9M45	30.32 grams	5 mL		SAMPLE	4	1515552007-A	E.GPC.PA.P	5936		6/9/2015	6/8/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**Pest/ARO**	**Work Order ID:**	**1515552**	**Horizon Batch ID:**	**150213**
Account:	**08201**	**Instrument ID:**	**GPC06**	**Column ID:**	**8181346-1 690492-1**	**Flow Rate:**	**5mL/min.**
Load Date:	**6/8/15**	**Load Time:**	**18:52**	**Pressure (PSI)**	**159**	**PST/ARO Weekly ID:**	**6/3/15**

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	450811	GPC06 Blank	
2	450508	MB for HBN 150089	
3	450509	LCS-P for HBN 150089	
4	450510	LCS-A for HBN 150089	
5	1515552001	F9M36	
6	1515552002	F9M36MS	
7	1515552003	F9M36MSD	
8	1515552002	F9M36MS	
9	1515552003	F9M36MSD	
10	1515552004	F9M42	
11	1515552005	F9M43	
12	1515552006	F9M44	
13	1515552007	F9M45	
14	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**18.7**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.5**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client U.S. EPA Region 6 Case/SDG # 45316 / F9M36 Horizon Extraction HBN 150089

Work Order# 1515552 Sample #'s 1-7 Extraction Method SOMO 1.2

SOP: OE-EP-SOM Analytical Fraction ARO Matrix SOIL

Date samples weighed out 6/8/15 by Peter Tran balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/8/15 1600 Stop Date/Time (CLLE's/Soxlet) ——— Extracted by PT

	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 ☐ Toluene ☐ N/A ☐ CH_2Cl_2
Vendor	JT Baker		B.J	JT Baker	B&J
Lot Number	18985		DM245	97623	DM196
Amount	per SOP		per SOP	per SOP	600ml

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	26390	26434	26435	
Spiked Amount	1mL	1mL	1mL	
Spiked By	PT	PT	PT	

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 6/8/15 1630 by EP Comments The Temp was 69°C

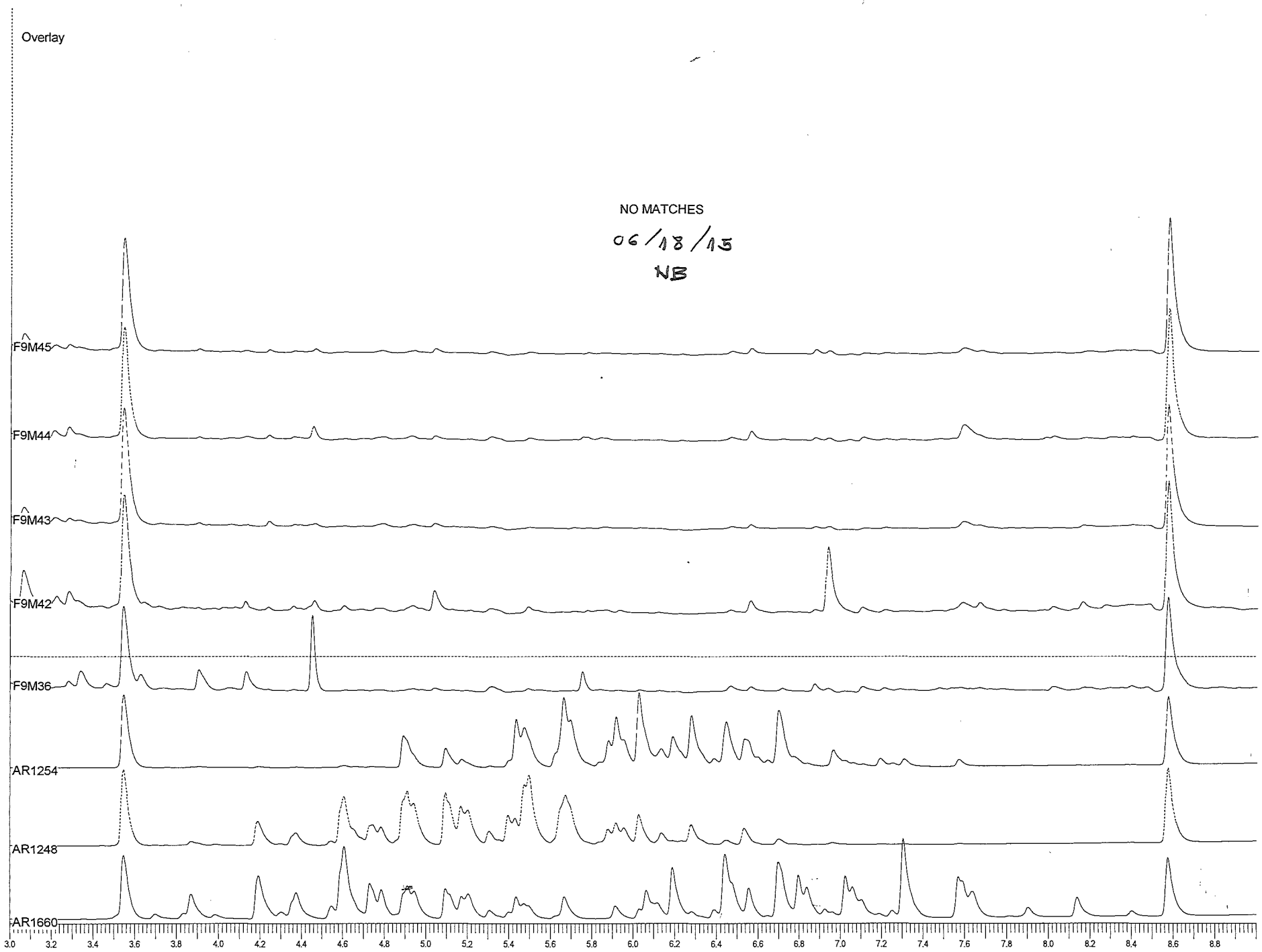
Final Concentration: Date/Time 6/9/15 13:00 by mp Comments The Temp was 78°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature [signature] **Date** 6/9/15

Plot Title		Start Time	End Time	Scale	Offset
20150615A_026.raw		3.00	9.00	200.00	-55.00
Sample Name :	1515552006				
Sample Number:	26				
Instrument File Name:	G:\gce20\20150615\20_som_acq_aros				
20150615A_021.raw		3.00	9.00	200.00	-13.00
Sample Name :	1515552001				
Sample Number:	21				
Instrument File Name:	G:\gce20\20150615\20_som_acq_aros				
20150615A_006.raw		3.00	9.00	150.00	21.00
Sample Name :	AR16603A1				
Sample Number:	06				
Instrument File Name:	G:\gce20\20150615\20_som_acq_aros				
20150615A_025.raw		3.00	9.00	200.00	-40.00
Sample Name :	1515552005				
Sample Number:	25				
Instrument File Name:	G:\gce20\20150615\20_som_acq_aros				
20150615A_013.raw		3.00	9.00	130.00	6.00
Sample Name :	AR12543A1				
Sample Number:	13				
Instrument File Name:	G:\gce20\20150615\20_som_acq_aros				
20150615A_027.raw		3.00	9.00	200.00	-70.00
Sample Name :	1515552007				
Sample Number:	27				
Instrument File Name:	G:\gce20\20150615\20_som_acq_aros				
20150615A_024.raw		3.00	9.00	200.00	-25.00
Sample Name :	1515552004				
Sample Number:	24				
Instrument File Name:	G:\gce20\20150615\20_som_acq_aros				
20150615A_012.raw		3.00	9.00	130.00	14.00
Sample Name :	AR12483A1				
Sample Number:	12				
Instrument File Name:	G:\gce20\20150615\20_som_acq_aros				


Overlay
NO MATCHES
06/18/15
NB
F9M45
F9M44
F9M43
F9M42
F9M36
AR1254
AR1248
AR1660
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8

STANDARD REPORT

Working Standard - PSTCLP SURR

PSTCLP SURR — **Description - PSTCLP TCX/DCB 10/20 INT**

Standard:	28303	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612001	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	10 ug/mL
2	2051-24-3	Decachlorobiphenyl	20 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	5 mL	01/31/2020
28300	Hexanes	Hexanes DI907	DL907	45 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP IBLK

PSTCLP IBLK — **Description: PSTCLP IBLK 0.02/0.04**

Standard:	28316	**Created By:**	S. Sagers	**Amount:**	500 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612014	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
2	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	499 mL	06/11/2025
28303	PSTCLP SURR	PSTCLP TCX/DCB 10/20 INT	EGC150612001	1 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP SUR

PSTCLP SUR — Description - PSTCLP 2.2 SURR SPIKE 0.2/0.4

Standard:	28319	**Created By:**	S. Sagers	**Amount:**	1000 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	01/31/2020
MFG Lot:	SPIKE	**Lab Lot:**	EGC150612017	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.2 ug/mL
2	2051-24-3	Decachlorobiphenyl	0.4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	2 mL	01/31/2020
28301	Acetone	Acetone DL683	DL683	998 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP SUR

PSTCLP SUR		Description - PSTCLP 1.2 SURR SPIKE 0.6/0.12
Standard: 28323	**Created By:** S. Sagers	**Amount:** 1000 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 01/31/2020
MFG Lot: SPIKE	**Lab Lot:** EGC150612021	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.6 ug/mL
2	2051-24-3	Decachlorobiphenyl	1.2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	6 mL	01/31/2020
28301	Acetone	Acetone DL683	DL683	994 mL	06/11/2025

STANDARD REPORT

Working Standard - AROCLP SURR

AROCLP SURR — Description - AROCLP SURR 50/100 INT

Standard:	28324	**Created By:**	S. Sagers	**Amount:**	10 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612001	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	50 ug/mL
2	2051-24-3	Decachlorobiphenyl	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	5 mL	01/31/2020
28300	Hexanes	Hexanes DI907	DL907	5 mL	06/11/2025

STANDARD REPORT

Working Standard - AROCLP 1660

AROCLP 1660 — **Description - AROCLP 1660 2/4/40 INT**

Standard: 28325 **Created By:** S. Sagers **Amount:** 50 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: INT **Lab Lot:** EGC150612002 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	40 ug/mL
2	11096-82-5	Aroclor 1260	40 ug/mL
3	877-09-8	Tetrachloro-m-xylene	2 ug/mL
4	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21543	AR1660	AR1660 1000 PPM	CJ-3291	2 mL	09/30/2016
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 1221

AROCLP 1221 — **Description: AROCLP 1221 2/4/40 INT**

Standard:	28326	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612003	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	40.04 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
3518	AR1221	AR1221 1000 PPM	B6010245	2 mL	01/23/2016
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 1232

AROCLP 1232 — **Description:** AROCLP 1232 2/4/40 INT

Standard:	28327	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612004	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	40.08 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
3519	AR1232	AR1232 1000 PPM	B6010264	2 mL	01/24/2016
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 1242

AROCLP 1242 — **Description: AROCLP 1242 2/4/40 INT**

Standard:	28328	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612005	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	40 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21723	AR1242	AR1242 1000 PPM	213061664	2 mL	06/27/2023
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 1248

AROCLP 1248 — **Description - AROCLP 1248 2/4/40 INT**

Standard:	28329	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612006	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	40 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13484	AR1248	AR1248 1000 PPM	209111008	2 mL	11/02/2019
28300	Hexanes	Hexanes DI907	DL907	48 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 1254

AROCLP 1254 — **Description: AROCLP 1254 2/4/40 INT**

Standard: 28330 **Created By:** S. Sagers **Amount:** 50 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: INT **Lab Lot:** EGC150612007 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	40 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13485	AR1254	AR1254 1000 PPM	210061347	2 mL	06/28/2020
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 1262

AROCLP 1262 — **Description - AROCLP 1262 2/4/40 INT**

Standard:	28331	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612008	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	40.24 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21724	AR1262	AR1262 1000 PPM	B6010227	2 mL	01/20/2016
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 1268

AROCLP 1268 — **Description - AROCLP 1268 2/4/40 INT**

Standard:	28332	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612009	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	40.08 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15386	AR1268	AR1268 1000 PPM	209091091	2 mL	09/16/2019
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 16601

AROCLP 16601 — **Description - AROCLP 16601 005/01/.1**

Standard:	28333	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612010	**Usable:**	Yes
Part ID:					

Pos	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.1 ug/mL
2	11096-82-5	Aroclor 1260	0.1 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28325	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC150612002	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 16602

AROCLP 16602 — **Description - AROCLP 16602, 01/02/2**

Standard:	28334	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612011	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.2 ug/mL
2	11096-82-5	Aroclor 1260	0.2 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28325	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC150612002	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 16603

AROCLP16603 — **Description - AROCLP 16603, 02/04/4**

Standard:	28335	**Created By:**	S. Sagers	**Amount:**	200 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612012	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.4 ug/mL
2	11096-82-5	Aroclor 1260	0.4 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	198 mL	06/11/2025
28325	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC150612002	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 16604

AROCLP 16604 — Description: AROCLP 16604, 04/08/18

Standard:	28336	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612013	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.8 ug/mL
2	11096-82-5	Aroclor 1260	0.8 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	98 mL	06/11/2025
28325	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC150612002	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 16605

AROCLP 16605 — Description - AROCLP 16605 08/16/16

Standard:	28337	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612014	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	1.6 ug/mL
2	11096-82-5	Aroclor 1260	1.6 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28325	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC150612002	4 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12211

AROCLP 12211 — **Description - AROCLP 12211 005/01/1**

Standard: 28338 **Created By:** S. Sagers **Amount:** 100 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: WS **Lab Lot:** EGC150612015 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.1001 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28326	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC150612003	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12212

AROCLP 12212 — **Description - AROCLP 12212 01/02/2**

Standard: 28339 **Created By:** S. Sagers **Amount:** 50 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: WS **Lab Lot:** EGC150612016 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.2002 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.75 mL	06/11/2025
28326	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC150612003	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12213

AROCLP 12213 — **Description: AROCLP 12213 ,02/,04/,4**

Standard:	28340	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612017	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.4004 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.5 mL	06/11/2025
28326	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC150612003	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12214

AROCLP 12214 — **Description - AROCLP 12214 - 04/08/8**

Standard:	28341	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612018	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.8008 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49 mL	06/11/2025
28326	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC150612003	1 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12215

AROCLP12215 — **Description - AROCLP12215 08/16/16**

Standard:	28342	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612019	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	1.6016 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	48 mL	06/11/2025
28326	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC150612003	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12321

AROCLP 12321 — **Description - AROCLP 12321 .005/.01/.1**

Standard:	28343	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612020	**Usable:**	Yes
Part ID:					

Pos	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.1002 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28327	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC150612004	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12322

AROCLP 12322 — **Description - AROCLP 12322 01/02/2**

Standard:	28345	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612021	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.2004 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.75 mL	06/11/2025
28327	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC150612004	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12323

AROCLP 12323 — **Description: AROCLP 12323 02/04/4**

Standard:	28346	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612022	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.4008 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.5 mL	06/11/2025
28327	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC150612004	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12324

AROCLP 12324 — **Description: AROCLP 12324 04/08/8**

Standard:	28347	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612023	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.8016 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49 mL	06/11/2025
28327	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC150612004	1 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12325

AROCLP 12325 — **Description - AROCLP 12325 08/16/16**

Standard:	28348	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612024	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	1.6032 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	48 mL	06/11/2025
28327	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC150612004	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12421

AROCLP 12421 — **Description: AROCLP 12421 .005/.01/.1**

Standard:	28349	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612025	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.1 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28328	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC150612005	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12422

AROCLP 12422 — **Description - AROCLP 12422 01/02/2**

Standard:	28350	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612026	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.2 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28328	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC150612005	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12423

AROCLP 12423 — **Description - AROCLP 12423 02/04/4**

Standard:	28351	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612027	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.4 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99 mL	06/11/2025
28328	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC150612005	1 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12424

AROCLP 12424 — **Description: AROCLP 12424 04/08/8**

Standard:	28352	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612028	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.8 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	98 mL	06/11/2025
28328	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC150612005	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12425

AROCLP 12425 — **Description - AROCLP 12425 08/16/16**

Standard:	28353	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612029	**Usable:**	Yes
Part ID:					

Pos	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	1.6 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28328	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC150612005	4 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12481

AROCLP 12481 — **Description - AROCLP 12481 .005/.01/.1**

Standard:	28354	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612030	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.1 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28329	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC150612006	0.25 mL	12/12/2015

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STANDARD REPORT

Working Standard - AROCLP 12482

AROCLP 12482 — **Description - AROCLP 12482 01/02/2**

Standard:	28355	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612031	**Usable:**	Yes
Part ID:					

Pos	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.2 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28329	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC150612006	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12483

AROCLP 12483 — Description - AROCLP 12483 02/04/4

Standard:	28356	**Created By:**	S. Sagers	**Amount:**	200 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612032	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.4 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	198 mL	06/11/2025
28329	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC150612006	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12484

AROCLP 12484 — **Description - AROCLP 12484 .04/.08/.8**

Standard:	28357	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612033	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.8 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	98 mL	06/11/2025
28329	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC150612006	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12485

AROCLP 12485 — **Description - AROCLP 12485, 08/16/16**

Standard:	28358	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612034	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	1.6 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28329	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC150612006	4 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12541

AROCLP 12541 — Description - AROCLP 12541 005/01/01

Standard:	28359	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612035	**Usable:**	Yes
Part ID:					

Pos	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.1 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28330	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC150612007	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12542

AROCLP 12542 — **Description - AROCLP 12542 01/02/2**

Standard:	28360	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612036	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.2 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28330	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC150612007	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12543

AROCLP 12543 — Description - AROCLP 12543 .02/.04/.4

Standard:	28361	**Created By:**	S. Sagers	**Amount:**	200 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612037	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.4 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	198 mL	06/11/2025
28330	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC150612007	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12544

AROCLP 12544 — **Description: AROCLP 12544 04/08/8**

Standard:	28362	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612038	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.8 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	98 mL	06/11/2025
28330	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC150612007	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12545

AROCLP 12545 — **Description - AROCLP 12545 08/16/16**

Standard:	28363	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612039	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	1.6 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28330	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC150612007	4 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12621

AROCLP 12621 — **Description - AROCLP 12621 .005/.01/.1**

Standard:	28364	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612040	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.1006 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28331	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC150612008	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12622

AROCLP 12622 — **Description: AROCLP 12622 .01/.02/.2**

Standard:	28365	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612041	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.2012 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.75 mL	06/11/2025
28331	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC150612008	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12623

AROCLP 12623 — **Description - AROCLP 12623 02/04/4**

Standard:	28366	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612042	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.4024 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.5 mL	06/11/2025
28331	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC150612008	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12624

AROCLP 12624 — **Description: AROCLP 12624 04/08/8**

Standard:	28367	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612043	**Usable:**	Yes
Part ID:					

Pos	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.8048 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49 mL	06/11/2025
28331	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC150612008	1 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12625

AROCLP 12625 — **Description: AROCLP 12625 08/16/16**

Standard:	28368	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612044	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	1.6096 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	48 mL	06/11/2025
28331	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC150612008	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12681

AROCLP 12681 — **Description: AROCLP 12681 .005/.01/.1**

Standard:	28369	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612045	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.1002 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachloroblphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28332	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC150612009	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12682

AROCLP 12682 — **Description: AROCLP 12682 01/02/2**

Standard:	28370	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612046	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.2004 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.75 mL	06/11/2025
28332	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC150612009	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12683

AROCLP 12683 — **Description - AROCLP 12683 02/04/4**

Standard:	28371	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612047	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.4008 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.5 mL	06/11/2025
28332	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC150612009	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12684

AROCLP 12684 — **Description - AROCLP 12684 04/08/8**

Standard:	28372	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612048	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.8016 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49 mL	06/11/2025
28332	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC150612009	1 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12685

AROCLP 12685 — **Description - AROCLP 12685, 08/16/16**

Standard:	28373	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612049	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	1.6032 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	48 mL	06/11/2025
28332	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC150612009	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP LCS

AROCLP LCS — **Description - AROCLP LCS SPIKE 1 ug/mL**

Standard:	28374	**Created By:**	S. Sagers	**Amount:**	200 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	09/30/2016
MFG Lot:	SPIKE	**Lab Lot:**	EGC150612050	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	1 ug/mL
2	11096-82-5	Aroclor 1260	1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21543	AR1660	AR1660 1000 PPM	CJ-3291	0.2 mL	09/30/2016
28301	Acetone	Acetone DL683	DL683	199.8 mL	06/11/2025

STANDARD REPORT

Working Standard - AROCLP MS

AROCLP MS — **Description - AROCLP MS SPIKE 4 ug/mL**

Standard:	28375	**Created By:**	S. Sagers	**Amount:**	200 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	SPIKE	**Lab Lot:**	EGC150612051	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	4 ug/mL
2	11096-82-5	Aroclor 1260	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21543	AR1660	AR1660 1000 PPM	CJ-3291	0.8 mL	09/30/2016
28301	Acetone	Acetone DL683	DL683	199.2 mL	06/11/2025

21715 S 21715

RESTEK CERTIFIED REFERENCE MATERIAL

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis

ACCREDITED ISO Guide 34 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.01

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Rec'd 12/13/13

Catalog No. : 32453 **Lot No.:** A098794

Description : SOM01.1 Pesticide Surrogate Standard

Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2020 **Storage:** 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	100.9 µg/mL	+/- 0.7157 µg/mL +/- 2.0258 µg/mL +/- 3.4202 µg/mL	Gravimetric Unstressed Stressed
2	Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 (Lot ER071509-01) Purity 99%	201.0 µg/mL	+/- 1.4253 µg/mL +/- 4.0339 µg/mL +/- 6.8105 µg/mL	Gravimetric Unstressed Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

ULTRA SCIENTIFIC
Analytical Standards

Certificate of Analysis

21543

Method 8082 Calibration Mixture

Product Number: PPM-8082 **Page:** 1 of 1

Lot Number: CJ-3291 **Lot Issue Date:** 10-Sep-2012 **Expiration Date:** 30-Sep-2016

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
Aroclor 1016	012674-11-2	NT01016	1004 ± 5 µg/mL
Aroclor 1260	011096-82-5	NT01023	1004 ± 5 µg/mL

Matrix: Isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°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.

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: 00896

125 Market Street
New Haven, CT 06513 USA
Tel (203)786-5290 Fax (203)786-5287
Web AccuStandard.com

AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

ISO 9001:2000

CATALOG NO. C-221S-H-10X

DESCRIPTION: Aroclor 1221

LOT: B6010245

SOLVENT: Hexane

$ 3518

EXPIRATION: Jan 23, 2016

Rec'd 072506

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

See reverse for additional certification information.

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1221	11104-28-2	Tech Mix 1001	±40.04	1001

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/270236-04
2. Certified Analyte Concentration = Purity x Prepared Concentration
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is Identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

Certified by: R. Cooper

This product was manufactured to meet the quality system requirements of ISO 9001:2000 and ISO 17025

OR-ORGANO-001
Rev. 6/05

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AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

ISO 9001:2000

CATALOG NO. C-232S-H-10X

DESCRIPTION: Aroclor 1232

LOT: B6010264

SOLVENT: hexane

S 3519

EXPIRATION: Jan 24, 2016

Rec'd 072506

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

See reverse for additional certification information.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1232	11141-16-5	Tech Mix 1002	±40.08	1002

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/270236-04
2. Certified Analyte Concentration = Purity x Prepared Concentration
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

Comma (,) is used to separate units of one-thousand or greater.
Period (.) is used as a decimal place marker.

Certified by: R. Cooper

This product was manufactured to meet the quality system requirements of ISO 9001:2000 and ISO 17025

OR-ORG/INO-001
Rev. 6/05

125 Market Street
New Haven, CT 06513
USA

AccuStandard, Is

21723

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x (203)786-5287
ccuStandard.com

CERTIFICATE OF ANALYSIS

Rec'd 12/16/13

Catalog No: C-242S-H-10X
Description: Aroclor 1242

21723

Lot: 213061664
Solvent: Hexane

Date Certified: Jun 27, 2013
Expiration: Jun 27, 2023
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1242	53469-21-9	Tech Mix	1000	1000

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

See reverse side for additional information
Refer to the MSDS for additional safety information

For use in routine laboratory analysis.

Certified by: R. Cooper
Russ Cooper, QC Manager

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

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126 Market Street
New Haven, CT 06513
USA

AccuStandard, Inc. 13484

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Website AccuStandard.com

CERTIFICATE OF ANALYSIS

Rec'd 03/25/10

13484

CATALOG NO: C-248S-H-10X S
DESCRIPTION: Aroclor 1248
LOT: 209111008
SOLVENT: Hexane

DATE CERTIFIED: Nov 2, 2009
EXPIRATION: Nov 2, 2019
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Ambient
HAZARDS: FLAMMABLE

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1248	12672-29-6	Tech	1004	1004

Reference Standard

Please note:
A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).

Certified by: R. Cooper
Russ Cooper, QC Manager

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AccuStandard is accredited to ISO/IEC 17025:2005 and certified to ISO 9001:2000

13485 Rec'd Dec 2010

125 Market Street
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USA

AccuStandard, Inc.

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Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

13485

CATALOG NO: C-254S-H-10X
DESCRIPTION: Aroclor 1254
LOT: 210061347
SOLVENT: Hexane

DATE CERTIFIED: Jun 28, 2010
EXPIRATION: Jun 28, 2020
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Ambient
HAZARDS: FLAMMABLE

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1254	11097-69-1	Tech	1009	1009

AccuStandard

Please note:
A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

Comma (,) is used to separate units of one-thousand or greater.
Period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).

Certified by: R. Cooper
Russ Cooper, QC Manager

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125 Market Street
New Haven, CT 06513
USA

AccuStandard, Inc.

21724

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(203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Rec'd 12/16/13

21724

Catalog No: C-262S-H-10X
Description: Aroclor 1262

Lot: B6010227
Solvent: Hexane

Date Certified: Jan 20, 2006
Expiration: Jan 20, 2016
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1262	37324-23-5	Tech Mix	1006	1006

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No. 822/270236-04
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

See reverse side for additional information
Refer to the MSDS for additional safety information

For use in routine laboratory analysis.

Certified by: R. Cooper
Russ Cooper, QC Manager

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ACCUSTANDARD

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CERTIFICATE OF ANALYSIS

Recd 021413

15386

Catalog No: C-268S-H-10X
Description: Aroclor 1268

Lot: 209091091
Solvent: Hexane

Date Certified: Sep 16, 2009
Expiration: Sep 16, 2019
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1268	11100-14-4	Tech Mix	1002	1002

AccuStandard

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
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Rev. 7/11

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515552	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 5gSoil	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA, Soil											
1	06/02/2015 11:45	F9M36	1515552001		Soil/Solid/Sediment	E,F,G	3	E	5.074g		4.777g		4.377g						
2	06/02/2015 14:30	F9M42	1515552004		Soil/Solid/Sediment	E,F,G	3	E	5.406g		5.498g		4.958g						
3	06/02/2015 14:35	F9M43	1515552005		Soil/Solid/Sediment	E,F,G	3	E	5.444g		5.212g		5.554g						
4	06/02/2015 16:30	F9M44	1515552006		Soil/Solid/Sediment	E,F,G	3	E	5.254g		6.172g		6.553g						
5	06/02/2015 16:45	F9M45	1515552007		Soil/Solid/Sediment	E,F,G	3	E	5.600g		5.896g		5.554g						
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	10/3/2015 16:24	Storage3	Storage
[illegible]	06-05-15		

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: 1515552	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	06/02/2015 11:45	F9M36	1515552001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	06/02/2015 11:45	F9M36MS	1515552002	MS	Soil/Solid/Sediment	A	1			A	A
3	06/02/2015 11:45	F9M36MSD	1515552003	MSD	Soil/Solid/Sediment	A	1			A	A
4	06/02/2015 14:30	F9M42	1515552004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	06/02/2015 14:35	F9M43	1515552005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	06/02/2015 16:30	F9M44	1515552006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	06/02/2015 16:45	F9M45	1515552007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
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 11:30	R331 Cart	Storage
R 331 Cart	6/3/15 1200	[illegible]	Exit
[illegible]	6/8/15 1400	R-319-1	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]	6/9/15 1500	[illegible]	GPC
[illegible]	6/10/15 9:00	[illegible]	post-GPC cook
[illegible]	6/10/15 11:00	R-60-6	STOR
R-60-6 SK	6/16/15 1245	[illegible]	GC-MS

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515552	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	06/02/2015 11:45	F9M36	1515552001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	06/02/2015 11:45	F9M36MS	1515552002	MS	Soil/Solid/Sediment	A	1			A	A
3	06/02/2015 11:45	F9M36MSD	1515552003	MSD	Soil/Solid/Sediment	A	1			A	A
4	06/02/2015 14:30	F9M42	1515552004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	06/02/2015 14:35	F9M43	1515552005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	06/02/2015 16:30	F9M44	1515552006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	06/02/2015 16:45	F9M45	1515552007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
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 1630	R331 Cart	Storage
R 331 Cart	6/8/15 1200	[illegible]	Exit
[illegible]	6/8/15 1400	R-319-1	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]	6/9/15 1500	[illegible]	GPC
[illegible]	6/10/15 9:00	[illegible]	post-GPC cooler
[illegible]	6/10/15 11:40	R-60-6	STOR
R-60-6 SK	6/16/15 1245	[illegible]	GC-MS

Wed, 06/03/15 4:22 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515552	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM

Comments:

Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	06/02/2015 11:45	F9M36	1515552001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	06/02/2015 11:45	F9M36MS	1515552002	MS	Soil/Solid/Sediment	A	1			A	A
3	06/02/2015 11:45	F9M36MSD	1515552003	MSD	Soil/Solid/Sediment	A	1			A	A
4	06/02/2015 14:30	F9M42	1515552004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	06/02/2015 14:35	F9M43	1515552005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	06/02/2015 16:30	F9M44	1515552006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	06/02/2015 16:45	F9M45	1515552007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
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 1030	R331 Cart	Storage
R 331 Cart	6/3/15 1200	[illegible]	Exit
[illegible]	6/3/15 1400	R-319-1	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]	6/19/15 0945	[illegible]	PRE-GPC
[illegible]	6/19/15 1030	[illegible]	GPC
[illegible]	6/19/15 12:00	[illegible]	post-GPC come
[illegible]	6/19/15 15:00	R-60-6	STOR
R-60-6 SX	6/20/15 10:00	[illegible]	GC/MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515552	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	06/02/2015 11:45	F9M36	1515552001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	06/02/2015 11:45	F9M36MS	1515552002	MS	Soil/Solid/Sediment	A	1			A	A
3	06/02/2015 11:45	F9M36MSD	1515552003	MSD	Soil/Solid/Sediment	A	1			A	A
4	06/02/2015 14:30	F9M42	1515552004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	06/02/2015 14:35	F9M43	1515552005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	06/02/2015 16:30	F9M44	1515552006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	06/02/2015 16:45	F9M45	1515552007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
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 1630	R331 Cart	Storage
R 331 Cart	6/5/15 1200	Peter [illegible]	Exit
Peter [illegible]	6/8/15 1400	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: PEST

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Peter [illegible]	6/8/15 1630	Emily Pratt	Pre GPC
Emily Pratt	6/8/15 1800	[illegible]	GPC
[illegible]	6/9/15 13:00	[illegible]	post-GPC Lone
[illegible]	6/9/15 16:00	[illegible]	Florisil
[illegible]	6/10/15 10:00	R-72 [illegible]	Stop
R-72-155	06/19/15 1200	[illegible]	Analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515552	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM

Comments:

Preservatives: COOL

Requested Analysis: SOM01.2 Semivoa, Soil; SOM01.2 Semivoa SIM, Soil; SOM01.2 Pesticides, Soil; SOM01.2 Aroclors, Soil

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	06/02/2015 11:45	F9M36	1515552001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	06/02/2015 11:45	F9M36MS	1515552002	MS	Soil/Solid/Sediment	A	1			A	A
3	06/02/2015 11:45	F9M36MSD	1515552003	MSD	Soil/Solid/Sediment	A	1			A	A
4	06/02/2015 14:30	F9M42	1515552004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	06/02/2015 14:35	F9M43	1515552005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	06/02/2015 16:30	F9M44	1515552006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	06/02/2015 16:45	F9M45	1515552007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
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 1630	R331 Cart	Storage
R 331 Cart	6/8/15 1200	[illegible]	Extr
[illegible]	6/8/15 1400	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: Aro

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	6/8/15 1630	Emylie Pratt	Pre GPC
Emylie Pratt	6/8/15 1800	[illegible]	GPC
[illegible]	6/9/15 13:00	[illegible]	post GPC Load
[illegible]	6/9/15 15:00	R-721 [illegible]	Stock
R-721-1 NB	06/15/15 16:00	[illegible]	analysis

Wed, 06/03/15 4:22 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515552	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil								
1	06/02/2015 11:45	F9M36	1515552001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A								
2	06/02/2015 11:45	F9M36MS	1515552002	MS	Soil/Solid/Sediment	A	1			A	A								
3	06/02/2015 11:45	F9M36MSD	1515552003	MSD	Soil/Solid/Sediment	A	1			A	A								
4	06/02/2015 14:30	F9M42	1515552004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A								
5	06/02/2015 14:35	F9M43	1515552005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A								
6	06/02/2015 16:30	F9M44	1515552006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A								
7	06/02/2015 16:45	F9M45	1515552007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A								
8																			
9																			
10																			

Requested Analysis

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 1630	R331 Cart	Storage
R 331 Cart	6/3/15 1200	[illegible]	Exit
[illegible]	6/8/15 1400	R-319-1	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

% Moistures & Solids

Analyst: IJO
Queue: EGRV
Batch: 5199
Instrument: GRAV03

Oven Start Time 06/04/2015 12:00 **Start Oven Temp:** 105° **Start Desiccator:** 06/05/2015 07:30
Oven Finish Time 06/05/2015 07:30 **End Oven Temp:** 105° **End Desiccator:** 06/05/2015 08:30

Workorder	Dish#	Lab Sample ID	Dish (g)	Dish + Soil (g)	Soil Weight (g)	Dish + DS (g)	Dry Soil (g)	% Solids	% Moistures
1515552	1	1515552001	1.3184	9.8403	8.5219	8.0762	6.7578	79.2992%	20.7008%
1515552	2	450006	1.3279	9.9123	8.5844	8.1351	6.8072	79.2973%	20.7027%
1515552	3	1515552004	1.3191	9.9690	8.6499	8.5639	7.2448	83.7559%	16.2441%
1515552	4	1515552005	1.3209	9.6578	8.3369	8.4457	7.1248	85.4610%	14.5390%
1515552	5	1515552006	1.3131	9.9066	8.5935	8.3303	7.0172	81.6571%	18.3429%
1515552	6	1515552007	1.3163	9.8367	8.5204	8.4402	7.1239	83.6099%	16.3901%

Copy original in SDG F9M21

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: 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

10:30
MC 6/3/2015 10:30 6/3/2015

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 3701 5872

XH BTFA

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SLC

537J1840/EE4B

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5599 San Felipe St
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HOUSTON, TX 77056

Origin ID: HOUA

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J1512150023030uv

Ship Date: 02JUN15
ActWgt: 70.0 LB
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Dims: 22 X 16 X 14 IN

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Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

MLC 6/3/2015 10:07

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 3700 6238

XH BTFA

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SLC

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Origin ID: HOUA

FedEx Express

J1512150223030v

Ship Date: 02JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

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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

MC 6/3/2015 10:05

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 3703 6285

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Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022300uv

Ship Date: 02JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

MLL 6/3/2015 10:07

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 3710 6995
0201

XH BTFA

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Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J1512150222303uv

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

Mar 6/3/2015 10:00

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 3264 0238
0201

XH BTFA

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SLC

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Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
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HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J15121502230iv

Ship Date: 02JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

SHIP TO: (801) 266-7700

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Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

DLC 6/3/2015 10:01

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 3712 1790
0201

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From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
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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

Rec 6/3/2015 10:05

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 3700 1074

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537J1/8A0E/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

J1512150022303uv

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

MR 6/3/2015 | 10AT

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 3702 7052

XH BTFA

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537J1/8A0E/EE4B

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1515552

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015

CarrierName: FedEx

AirbillNo: 773737015872

Copy original in SDG F9M21

CHAIN OF CUSTODY RECORD FAMme

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-011-004-06-51	F9M31	Soil/ START	Composite	VOA(21)	1478 (Ice) (3)	011	06/02/2015 09:50	
WO-011-004-12-51	F9M32	Soil/ START	Composite	VOA(21)	1483 (Ice) (3)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	VOA(21)	1488 (Ice) (3)	011	06/02/2015 10:00	
WO-002-001-00-51	F9M34	Soil/ START	Composite	VOA(21)	1493 (Ice) (3)	011	06/02/2015 11:20	
WO-002-001-00-52	F9M35	Soil/ START	Composite	VOA(21)	1498 (Ice) (3)	002	06/02/2015 11:25	
WO-002-002-00-51	F9M36	Soil/ START	Composite	VOA(21)	1503 (Ice) (3)	002	06/02/2015 11:45	
WO-002-003-00-51	F9M37	Soil/ START	Composite	VOA(21)	1508 (Ice) (3)	002	06/02/2015 13:30	
WO-002-004-00-51	F9M38	Soil/ START	Composite	VOA(21)	1513 (Ice) (3)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	VOA(21)	1518 (Ice) (3)	002	06/02/2015 13:10	
WO-002-003-06-51	F9M40	Soil/ START	Composite	VOA(21)	1523 (Ice) (3)	002	06/02/2015 13:40	

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	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAC	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737015872
Copy original in SDG F9M21

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

FAM36

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	Split 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
Samples/Analysis	Robert Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	[illegible]	6/3/2015 10:07	Meredith Edwards DATA	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 7737370066238

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

No: 6-060215-183123-0083

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

F9M21 6/3/2015

copy original in SDM 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-011-004-12-51	F9M32	Soil/ START	Composite	CLP Moisture(21)	1486 (Ice) (1)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	CLP Moisture(21)	1491 (Ice) (1)	011	06/02/2015 10:00	
WO-002-001-00-52	F9M35	Soil/ START	Composite	CLP Moisture(21)	1501 (Ice) (1)	002	06/02/2015 11:25	
WO-002-002-00-51	F9M36	Soil/ START	Composite	CLP Moisture(21)	1506 (Ice) (1)	002	06/02/2015 11:45	6/3/2015
WO-002-003-00-51	F9M37	Soil/ START	Composite	CLP Moisture(21)	1511 (Ice) (1)	002	06/02/2015 13:30	
WO-002-004-00-51	F9M38	Soil/ START	Composite	CLP Moisture(21)	1516 (Ice) (1)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	CLP Moisture(21)	1521 (Ice) (1)	002	06/02/2015 13:10	
WO-002-003-06-51	F9M40	Soil/ START	Composite	CLP Moisture(21)	1526 (Ice) (1)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	CLP Moisture(21)	1531 (Ice) (1)	002	06/02/2015 13:45	
WO-002-001-06-51	F9M42	Soil/ START	Composite	CLP Moisture(21)	1536 (Ice) (1)	002	06/02/2015 14:30	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: CLP Moisture=CLP % Moisture

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 DATAC	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 7737370066238

CHAIN OF CUSTODY RECORD F9M34

Case #: 45316
Cooler #:

No: 6-060215-183123-0083
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-002-001-12-51	F9M43	Soil/ START	Composite	CLP Moisture(21)	1541 (Ice) (1)	002	06/02/2015 14:35	MME 6/3/2015

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: CLP Moisture=CLP % Moisture	

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

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737036285

CHAIN OF CUSTODY RECORD F9M34

Case #: 45316
Cooler #:

No: 6-060215-175343-0080

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-011-003-06-51	F9M28	Soil/ START	Composite	PEST+ARO(21)	1465 (Ice) (2)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	PEST+ARO(21)	1470 (Ice) (2)	011	06/02/2015 09:15	
WO-002-003-00-51	F9M37	Soil/ START	Composite	PEST+ARO(21)	1510 (Ice) (2)	002	06/02/2015 13:30	
WO-002-003-06-51	F9M40	Soil/ START	Composite	PEST+ARO(21)	1525 (Ice) (2)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	PEST+ARO(21)	1530 (Ice) (2)	002	06/02/2015 13:45	
WO-002-001-06-51	F9M42	Soil/ START	Composite	PEST+ARO(21)	1535 (Ice) (2)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	PEST+ARO(21)	1540 (Ice) (2)	002	06/02/2015 14:35	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015/16:07	Meredith Edwards DATAC	6/3/2015/16:07	good

0060215

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737106995

CHAIN OF CUSTODY RECORD F9M36

Case #: 45316
Cooler #:

No: 6-060215-153540-0076

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-011-002-06-51	F9M21	Soil/ START	Composite	PEST+ARO(21)	1430 (Ice) (2)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	PEST+ARO(21)	1435 (Ice) (2)	011	06/02/2015 08:20	
WO-011-002-24-52	F9M24	Soil/ START	Composite	PEST+ARO(21)	1445 (Ice) (2)	011	06/02/2015 08:30	
WO-011-004-06-51	F9M31	Soil/ START	Composite	PEST+ARO(21)	1480 (Ice) (2)	011	06/02/2015 09:50	
WO-011-004-12-51	F9M32	Soil/ START	Composite	PEST+ARO(21)	1485 (Ice) (2)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	PEST+ARO(21)	1490 (Ice) (2)	011	06/02/2015 10:00	
WO-002-002-00-51	F9M36	Soil/ START	Composite	PEST+ARO(21)	1505 (Ice) (4)	002	06/02/2015 11:45	

Sample(s) to be used for Lab QC: WO-002-002-00-51 Tag 1505

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
			Meredith Edwards TOTAL	6/3/2015/1007	good

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773732640238

copy original in SDG F9M21

CHAIN OF CUSTODY RECORD F9M36

Case #: 45316
Cooler #:

No: 6-060215-190153-0086

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-011-003-24-51	F9M30	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1475 (Ice), 1476 (Ice) (3)	011	06/02/2015 09:20	
WO-002-001-00-51	F9M34	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1495 (Ice), 1496 (Ice) (3)	011	06/02/2015 11:20	
WO-002-002-06-51	F9M44	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1545 (Ice), 1546 (Ice) (3)	002	06/02/2015 16:30	
WO-002-004-06-51	F9M45	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1550 (Ice), 1551 (Ice) (3)	002	06/02/2015 16:45	Final Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO, CLP Moisture=CLP % Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
4/samples	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

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737121790

copy original in SDG F9M21

CHAIN OF CUSTODY RECORD F9M36

Case #: 45316
Cooler #:

No: 6-060215-152803-0075

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-011-002-06-51	F9M21	Soil/ START	Composite	SVOA/SVOASIM(21)	1429 (Ice) (2)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	SVOA/SVOASIM(21)	1434 (Ice) (2)	011	06/02/2015 08:20	
WO-011-002-24-51	F9M23	Soil/ START	Composite	SVOA/SVOASIM(21)	1439 (Ice) (2)	011	06/02/2015 08:25	Recd Form 4
WO-011-004-06-51	F9M31	Soil/ START	Composite	SVOA/SVOASIM(21)	1479 (Ice) (2)	011	06/02/2015 09:50	6/3/2015
WO-011-004-12-51	F9M32	Soil/ START	Composite	SVOA/SVOASIM(21)	1484 (Ice) (2)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	SVOA/SVOASIM(21)	1489 (Ice) (2)	011	06/02/2015 10:00	
WO-002-002-00-51	F9M36	Soil/ START	Composite	SVOA/SVOASIM(21)	1504 (Ice) (2)	002	06/02/2015 11:45	

Special Instructions: No lab QC for SVOA/SVOASIM Samples

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	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATA	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737001074

copy original in SDA F9M21

CHAIN OF CUSTODY RECORD F9M30

Case #: 45316
Cooler #:

No: 6-060215-185026-0034

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-011-003-24-51	F9M30	Soil/ START	Composite	SVOA/SVOASIM(21)	1474 (Ice) (2)	011	06/02/2015 09:20	
WO-002-001-00-51	F9M34	Soil/ START	Composite	SVOA/SVOASIM(21)	1494 (Ice) (2)	011	06/02/2015 11:20	
WO-002-002-06-51	F9M44	Soil/ START	Composite	SVOA/SVOASIM(21)	1544 (Ice) (2)	002	06/02/2015 16:30	
WO-002-004-06-51	F9M45	Soil/ START	Composite	SVOA/SVOASIM(21)	1549 (Ice) (2)	002	06/02/2015 16:45	Split Final Sample

Special Instructions: No Lab QC on SVIA/SVOASIM Samples

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
4/ samples	Weston	6/2/15 2100	Fedex	6/2/15 2100	
	FedEx	6/3/2015/10:07	Meredith Edwards DATAC	6/3/2015/10:07	good

000023

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737027052

CHAIN OF CUSTODY RECORD F9M36

Case #: 45316
Cooler #:

No: 6-060215-175849-0081

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-011-003-06-51	F9M28	Soil/ START	Composite	SVOA/SVOASIM(21)	1464 (Ice) (2)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	SVOA/SVOASIM(21)	1469 (Ice) (2)	011	06/02/2015 09:15	
WO-002-003-00-51	F9M37	Soil/ START	Composite	SVOA/SVOASIM(21)	1509 (Ice) (2)	002	06/02/2015 13:30	
WO-002-003-06-51	F9M40	Soil/ START	Composite	SVOA/SVOASIM(21)	1524 (Ice) (2)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	SVOA/SVOASIM(21)	1529 (Ice) (2)	002	06/02/2015 13:45	
WO-002-001-06-51	F9M42	Soil/ START	Composite	SVOA/SVOASIM(21)	1534 (Ice) (2)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	SVOA/SVOASIM(21)	1539 (Ice) (2)	002	06/02/2015 14:35	

MS 6/3/2015

Special Instructions: No Lab QC on SVOA/SVOASIM samples

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	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 / 10:07	Meredith Edwards DATAC	6/3/2015 / 10:07	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

FORM-DC-1

MPM original in SDG F9M21

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.: F9M36
	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*	F9M21	n/a		VOA 8021
	Intact/Broken*	22			
2. Custody Seal Nos.	n/a	23			
	1	24			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	25			
4. Airbill	Airbill/Sticker Present/Absent*	26			
		27			
5. Airbill No.	7737705572	28			
	n/a	29			
6. Sample Tags	Present/Absent*	30			
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	31			
7. Sample Condition	Intact/Broken*/Leaking*	32			
8. Cooler Temperature Indicator Bottle	Present/Absent*	33			
9. Cooler Temperature	4.	34			
10. Does information on TR/COCs, and sample tags agree?	Yes/No*	35			
11. Date Received at Laboratory	6/3/2015	36		1517352001	
12. Time Received	10:07	37			
Sample Transfer		38			
Fraction: VOA	Fraction:	39			
Area #: Stage 3	Area #:	40			
By: MC	By:	41			
On: 6/3/2015	On:	42		1 004	

* Contact SMO and attach record of resolution

Reviewed By: Joanne Alba	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

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.:
	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	1515152005	VOA 8011
	Intact/Broken*	44		006	
2. Custody Seal Nos. n/a		45		007	
		46			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 3705 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 MR	By MR
On 6/3/2015	On 6/3/2015

MR 6/3/2015

* Contact SMO and attach record of resolution

Reviewed By [signature]	Logbook No. Not Applicable
Date 6/4/15	Logbook Page No. Not Applicable

Copy original in SDG FAM21

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: FAM316
	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*	FAM21	n/a		Ok moisture seal
	Intact/Broken*	22			
2. Custody Seal Nos.	n/a	23			
	1	24			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	25			
4. Airbill	Airbill/Sticker Present/Absent*	26			
		27			
5. Airbill No.	7737 3700 6238	28			
	n/a	29			
6. Sample Tags	Present/Absent*	31			
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	32			
7. Sample Condition	Intact/Broken*/Leaking*	33			
8. Cooler Temperature Indicator Bottle	Present/Absent*	35			
9. Cooler Temperature	4.	36		1515552 001	
10. Does information on TR/COCs, and sample tags agree?	Yes/No*	37			
11. Date Received at Laboratory	6/3/2015	38			
12. Time Received	10:07	39			
Sample Transfer		40			
Fraction: Ok moisture	Fraction: ME 6/3/2015	41			
Area #: R33.1	Area #	42		004	
By: ME	By	43		005	
On: 6/3/2015	On			ME 6/3/2015	

* Contact SMO and attach record of resolution

Reviewed By: Joanne Olsa	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

Copy original in SDG FAM21

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: FAM36
	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*	FAM 28	n/a		PEST/ARO Soil
	Intact/Broken*	29			
2. Custody Seal Nos.	n/a	37			
	1	40			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	41			
4. Airbill	Airbill/Sticker	42		1519752-0024	
	Present/Absent*	43		1 005	
5. Airbill No.	7737370360285				
	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				

MEE 6/3/2015

Sample Transfer	
Fraction: PEST/ARO	Fraction: n/a
Area #: R-33.1	Area #: 6/3/2015
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

: 00931

Copy original in SDG F9M21

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9M34
	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*	F9M21	n/a		PEST/ARO Soil
	Intact/Broken*	22			
2. Custody Seal Nos.	n/a	24			
	1	31			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	32			
4. Airbill	Airbill/Sticker Present/Absent*	33			
		36		1515552001,002,003	MS/MSD
5. Airbill No.	7737371409995				
	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				

MR 6/3/2015

Sample Transfer	
Fraction: PEST/ARO	Fraction:
Area #: R.33.1	Area #:
By: MR	By:
On: 6/3/2015	On:

MR 6/3/2015

* 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)

SAMPLE LOG-IN SHEET

Copy original in 8/27 F9M21

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9M36
	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*	F9M30	n/a		PEST/ARO/OC MIST SOIL
	Intact/Broken*	34			
2. Custody Seal Nos.	n/a	44		1515552006	
	1	45		1 007	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker				
	Present/Absent*				
5. Airbill No.	7737 3204 0238				
	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: PEST/ARO/OC MIST	Fraction:
Area #: R-33.1	Area #:
By: MEE	By: MEE 6/3/2015
On: 6/3/2015	On:

* Contact SMO and attach record of resolution

Reviewed By: Johanne Cola	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 F9M21

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9M316
	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*	F9M21	n/a		SVOA/SVOM Soil
	Intact/Broken*	22			
2. Custody Seal Nos.	n/a	24			
	1	31			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	32			
4. Airbill	Airbill/Sticker	33			
	Present/Absent*	36		1515552001	
5. Airbill No.	FB7371217790				
	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: SVOA/SVOM	Fraction:				
Area #: R33.1	Area #:				
By: ME	By:				
On: 6/3/2015	On:				

ME 6/3/2015

* 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 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9M36
	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*	F9M30	n/a		SVOA/SVOM soil
	Intact/Broken*	34			
2. Custody Seal Nos.	n/a	44		1515552046	
	1	45		1 007	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	7737 3700 1074				
	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: SVOA/SVOM	Fraction:
Area #: P331	Area #:
By: MEE	By: MEE 6/3/2015
On: 6/3/2015	On:

* Contact SMO and attach record of resolution

Reviewed By: Joanne Olsen	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

Copy original in SDG FQM21

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: HS31e	Sample Delivery Group No.: FQM31e
	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*	FQM28	n/a		SVOA/SVSIM Soil
	Intact/Broken*	29			
2. Custody Seal Nos.	n/a	37			
		40			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	41			
4. Airbill	Airbill/Sticker Present/Absent*	42		1515552 0004	
		43		1 0005	
5. Airbill No.	7137370270 52				
	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	10:05				

Sample Transfer

Fraction: SVOA/SVSIM	Fraction:
Area #: R33.1	Area #:
By: ME	By: ME 6/3/2015
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

ME 6/8/2015

SOM01.2 (6/2014)

EPA-CLP CHECKING DOCUMENTATION FORM
FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9M36 Fraction VLM

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 6.20.15

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 6.20.15

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 Debra Hall Date 06/23/15

EPA-CLP CHECKING DOCUMENTATION FORM FOR GC/MS ORGANICS ANALYSIS

Case 45326 SDG F9M36 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 6/22/15

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 6/22/15

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 [illegible] 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 [illegible] 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 Desiree Hill Date 06/23/2015

EPA-CLP CHECKING DOCUMENTATION FORM

Case 45316 SDG F9M36 Fraction Pest

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports and chromatograms are included and are in the correct order.

Signature _____ Date 06/21/15

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 06/21/15

CHEMIST CHECK or PEER REVIEW – The entire data package has been reviewed for completeness and accuracy, including a deliverables check as well as review of the QC data. Target compounds reported have been verified against the retention time windows for both columns. All target compounds present are reported on the Form I and the reported values are correct.

Signature _____ Date 06/22/15

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 _____ Date 06/22/15

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, Air bills, etc.) are also included.

Signature Desiree Hill Date 06/23/2015

EPA-CLP CHECKING DOCUMENTATION FORM

Case 45316 SDG F9M36 Fraction AROCLORS

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports and chromatograms are included and are in the correct order.

Signature _____ Date 06/18/15

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 06/18/15

CHEMIST CHECK or PEER REVIEW – The entire data package has been reviewed for completeness and accuracy, including a deliverables check as well as review of the QC data. Target compounds reported have been verified against the retention time windows for both columns. All target compounds present are reported on the Form I and the reported values are correct.

Signature _____ Date 06/21/15

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 06/21/15

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, Air bills, etc.) are also included.

Signature Desiree Hell Date 06/23/2015

U.S. EPA Region 6 Laboratory
ESB FILE REQUEST / IN-FILING FORM

CONTACT NAME ____Raymond Flores_____ PHONE __281 983 2139_____

DATE____8/14/2015_____

_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/F9M36__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

12:58 Mon, Jun 29, 2015

SDG F9M36 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 216734 **Version** 8.6

DRD 06/24/2015 **LRD** 06/03/2015 **Mailed** 06/29/2015 **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
F9M36			06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015		
F9M36MS						06/03/2015	06/03/2015		
F9M36MSD						06/03/2015	06/03/2015		
F9M42			06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015	X	
F9M43			06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015		
F9M44			06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015		
F9M45			06/03/2015	06/03/2015	06/03/2015	06/03/2015	06/03/2015		
Totals	**0**	**0**	**5**	**5**	**5**	**7**	**7**		

Regional CCS Defect Report

12:58 Mon, Jun 29, 2015

SDG F9M36 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 216734 **Version** 8.6

DRD 06/24/2015 **LRD** 06/03/2015 **Mailed** 06/29/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

Regional Defect Summary

Method	Defect Message	Samples with defect
BNA_SIM	Soil sample was not extracted within 10 days of validated time of sample receipt (VTSR).	1
		1

Regional CCS Defect Report

12:58 Mon, Jun 29, 2015

SDG F9M36 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 216734 **Version** 8.6

DRD 06/24/2015 **LRD** 06/03/2015 **Mailed** 06/29/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

Regional Defect Detail

METHOD = BNA_SIM

Defect **Soil sample was not extracted within 10 days of validated time of sample receipt (VTSR).**

Associated Samples: **F9M42**

Comments:

Regional CCS Defect Report

12:58 Mon, Jun 29, 2015

SDG F9M36 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 216734 **Version** 8.6

DRD 06/24/2015 **LRD** 06/03/2015 **Mailed** 06/29/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

General Comments

NONE FOUND