SHEALY ENVIRONMENTAL SERVICES

SOM02.3 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

This Sample Data Package includes data of all analysis requested For each particular Case/SDG.

The Sample Data Package will include:

- SDG Cover Page
- Traffic Report/Chain of Custody
- Sample Log-In Sheet (DC-1)
- CSF Inventory Sheet (DC-2)
- SDG Narrative

The following analysis are included in this package, if applicable:

- Trace Volatile Data
- Volatile Data
- Semivolatile Data
- Semivolatile-sim Data
- Pesticide Data
- Aroclors (PCB) Data
- Herbicide Data
- Miscellaneous Data

9754867

SDG Cover Sheet, TR/COC, DC-1, DC-2

SDG COVER PAGE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

SOW No.: SOM02.3

EPA Sample No.	Lab Sample ID	Analysis Method					
		Trace VOA	Low Med VOA	SVOA	SVOA SIM	PEST	ARO
F6R18	QL12004-001			X	X		
F6R20	QL12004-002			X	X		
F6R21	QL12004-003			X	X		
F6R23	QL12004-004			X	X		
F6R24	QL12004-005		X	X	X		
F6R25	QL12004-006		X	X	X		
F6R26	QL12004-007		X	X	X		
F6R27	QL12004-008		X	X	X		
F6R28	QL12004-009		X	X	X		

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Robert Name: Robert Zhu

Date: 01/04/2016 Title: Technical Director

Contract Laboratory Program

Sample Delivery Group (SDG) Definition Sheet

SDG Number	F6R18	Case Number	45671	Contract Number	EPW14035
Lab Code	EQI	SDG Turnaround	21 days	Delivery CLIN(s)	n/a

First Sample Received in SDG	F6R18	Last Sample Received in SDG	F6R23
First Sample Receipt Date	12/08/2015	Last Sample Receipt Date	12/11/2015

USEPA Sample Numbers in SDG (Listed in Numerical Order)

CLP Sample ID		Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
1	F6R18	Soil	SVOA, SVSIM	2655A	2544.1
2	F6R20	Soil	SVOA, SVSIM	2655A	2544.1
3	F6R21	Soil	SVOA, SVSIM	2655A	2544.1
4	F6R23	Soil	SVOA, SVSIM	2655A	2544.1
5	F6R24	Soil	VOA, SVOA, SVSIM	2655A	2544.1
6	F6R25	Soil	VOA, SVOA, SVSIM	2655A	2544.1
7	F6R26	Soil	VOA, SVOA, SVSIM	2655A	2544.1
8	F6R27	Soil	VOA, SVOA, SVSIM	2655A	2544.1
9	F6R28	Soil	VOA, SVOA, SVSIM	2655A	2544.1
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

12/18/15

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

Signature _____ Date 12/18/15

F6R18

USEPA CLP COC (LAB COPY)

DateShipped: 12/11/2015
CarrierName: FedEx
AirbillNo: 859483220318

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: EPW14035

No: 6-121115-162946-0014

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0019	F6R18	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1137 (4 C), 1138 (4 C) (2)	P-03-SAND	12/09/2015 12:10	
277-0021	F6R20	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1151 (4 C), 1152 (4 C) (2)	WIL-AA-10	12/10/2015 12:50	
277-0022	F6R21	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1158 (4 C), 1159 (4 C) (2)	WIL-AA-11	12/10/2015 13:55	
277-0024	F6R23	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1172 (4 C), 1173 (4 C) (2)	WIL-41	12/10/2015 10:50	
277-0025	F6R24	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1179 (4 C), 1180 (4 C) (2)	TF-34-01	12/11/2015 10:05	
277-0026	F6R25	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1186 (4 C), 1187 (4 C) (2)	LOR-18	12/11/2015 11:20	
277-0027	F6R26	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1193 (4 C), 1194 (4 C) (2)	FD-03	12/11/2015 11:55	
277-0028	F6R27	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1200 (4 C), 1201 (4 C) (2)	LOR-25A	12/11/2015 13:55	
277-0029	F6R28	Soil/ SERAS	Discrete Interval	SVOAs/SVOASIMs(21)	1207 (4 C), 1208 (4 C) (2)	LOR-25A	12/11/2015 14:45	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOAs/SVOASIMs=SVOA/SVOASIM by SOM02.3 and MA#2544.1 (Soils)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AW/ANALYSIS	LM SERAS	12/11/15 15:55			
				12/12/15 0840	OK

T= 5.9 °C

F6R18

USEPA CLP COC (LAB COPY)

DateShipped: 12/11/2015
CarrierName: FedEx
AirbillNo: 859483220329

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: EPW14035

No: 6-121115-161914-0012

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0025	F6R24	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1175 (4 C), 1176 (4 C), 1177 (4 C), 1178 (4 C) (4)	TF-34-01	12/11/2015 10:05	
277-0026	F6R25	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1182 (4 C), 1183 (4 C), 1184 (4 C), 1185 (4 C) (4)	LOR-18	12/11/2015 11:20	
277-0027	F6R26	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1189 (4 C), 1190 (4 C), 1191 (4 C), 1192 (4 C) (4)	FD-03	12/11/2015 11:55	
277-0028	F6R27	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1196 (4 C), 1197 (4 C), 1198 (4 C), 1199 (4 C) (4)	LOR-25A	12/11/2015 13:55	
277-0029	F6R28	Soil/ SERAS	Discrete Interval	VOAs(21), %Moist(21)	1203 (4 C), 1204 (4 C), 1205 (4 C), 1206 (4 C) (4)	LOR-25A	12/11/2015 14:45	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOAs=VOA by SOM02.3 (soils), %Moist=Percent Moisture Determination

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AK/ANALYSIS	LM SERAS	12/11/15 15:30			
				12/12/15 0840	OK

T = 6.7°C

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy Environmental		Page 1 of 1
Received By (Print Name) Lacey Goulding		Log-in Date 12/12/15
Received By (Signature) Lacey Goulding		
Case Number 45671	SDG No. FGR18	MA No. 2544.1

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8594 8322 0318
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	5.9 °C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	12/12/15
12. Time Received	0840

	EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	FGR18	NA	QL12004-001	OK
2	FGR20		-002	
3	FGR21		-003	
4	FGR23		-004	
5	FGR24		-005	
6	FGR25		-006	
7	FGR26		-007	
8	FGR27		-008	
9	FGR28		-009	
10				
11				
12				
13				
14				
15			LGG	
16			12/12/15	
17				
18				
19				
20				
21				
22				

* Contact SMO and attach record of resolution

Reviewed By [illegible]	Logbook No. NA
Date 12/14/15	Logbook Page No. NA

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy Environmental		Page 1 of 1
Received By (Print Name) Lacey Goulding		Log-in Date 12/12/15
Received By (Signature) Lacey Goulding		
Case Number 45671	SDG No. FGR18	MA No.

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8594 8322 0329
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	6.7°C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	12/12/15
12. Time Received	0840

	EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	FGR24	NA	QL12004-005	OK
2	FGR25		-006	
3	FGR26		-007	
4	FGR27		-008	
5	FGR28		-009	
6				
7				
8				
9				
10			LGG	
11			12/12/15	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

* Contact SMO and attach record of resolution

Reviewed By MMN	Logbook No. MA
Date 12/14/15	Logbook Page No. MA

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME Shealy Environmental Services

LAB CODE EQI

CONTRACT NO. EPW-14-035

CASE NO. 45671 SDG NO. F6R18

MA NO. 2544.1

SOW NO. SOM02.3

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

		PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
1.	SDG Cover Page	1	4		
2.	Traffic Report/Chain of Custody Record(s)	5	6		
3.	Sample Log-In Sheet (DC-1)	7	8		
4.	CSF Inventory Sheet (DC-2)	9	15		
5.	SDG Narrative	16	29		
Organic Analysis					
Trace Volatiles					
	Quality Control Summary	N/A	N/A	X	
6.	Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR)	N/A	N/A	X	
7.	Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by the EPA Region)	N/A	N/A	X	
8.	Method Blank Summary (Form 4-OR)	N/A	N/A	X	
9.	GC/MS Instrument Performance Check (Form 5-OR)	N/A	N/A	X	
10.	Internal Standard Area and Retention Summary (Form 8A-OR)	N/A	N/A	X	
	Sample Data	N/A	N/A	X	
11.	TAL Results – Organic Analysis Data Sheet (Form 1A-OR)	X	X		
12.	Tentatively Identified Compounds (Form 1B-OR)	X	X		
13.	Raw Data for Each Sample:	X	X		
	Reconstructed total ion chromatograms (RICs) for each sample	X	X		
	Raw Spectra and background-subtracted mass spectra of target analytes identified	X	X		
	Quantitation Reports	X	X		

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
Mass Spectra of all reported TICs with three best library matches	X	X		
Standards Data (All Instruments)	N/A	N/A	X	
14. GC/MS Initial Calibration Data (Form 6A-OR)	X	X		
15. RICs and Quantitation Reports for all Standards	X	X		
16. Continuing Calibration Verification for GC/MS (Form 7A-OR)	X	X		
17. RICs and Quantitation Reports for all Standards	X	X		
Quality Control Data	N/A	N/A	X	
18. Performance Check	N/A	N/A	X	
19. Blank Data	N/A	N/A	X	
20. Matrix Spike/Matrix Spike Duplicate Data (Form 3A-OR) (if requested by the EPA Region)	N/A	N/A	X	
21. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including screening records if applicable)	N/A	N/A	X	
Low-Medium Volatiles				
Quality Control Summary	30	49	X	
22. Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR)	32	36	X	
23. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by the EPA Region)	N/A	N/A	X	
24. Method Blank Summary (Form 4-OR)	37	40	X	
25. GC/MS Instrument Performance Check (Form 5-OR)	41	45	X	
26. Internal Standard Area and Retention Time Summary (Form 8A-OR)	46	49	X	
Sample Data	50	267	X	
27. TAL Results – Organic Analysis Data Sheet (Form 1A-OR)	X	X		
28. Tentatively Identified Compounds (Form 1B-OR)	X	X		
29. Raw Data for Each Sample:	X	X		
Reconstructed total ion chromatograms (RICs) for each sample	X	X		
Raw Spectra and background-subtracted mass spectra of target analytes identified	X	X		
Quantitation Reports	X	X		
Mass Spectra of all reported TICs with three best library matches	X	X		

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
	Standards Data (All Instruments)	268	399	X	
30.	GC/MS Initial Calibration Data (Form 6A-OR)	X	X		
31.	RICs and Quantitation Reports for all Standards	X	X		
32.	Continuing Calibration Verification for GC/MS (Form 7A-OR)	X	X		
33.	RICs and Quantitation Reports for all Standards	X	X		
	Quality Control Data	400	503	X	
34.	Performance Check	401	413	X	
35.	Blank Data	414	482	X	
36.	Matrix Spike/Matrix Spike Duplicate Data (if requested by the EPA Region)	N/A	N/A	X	
37.	Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable)	483	503	X	
Semivolatiles					
	Quality Control Summary	504	519	X	
38.	Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR)	506	508	X	
39.	Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by the EPA Region)	N/A	N/A	X	
40.	Method Blank Summary (Form 4-OR)	509	510	X	
41.	GC/MS Instrument Performance Check (Form 5-OR)	511	514	X	
42.	Internal Standard Area and Retention Time Summary (Form 8A-OR)	515	519	X	
	Sample Data	520	834	X	
43.	TAL Results – Organic Analysis Data Sheet (Form 1A-OR)	X	X		
44.	Tentatively Identified Compounds (Form 1B-OR)	X	X		
45.	Raw Data for Each Sample:	X	X		
	Reconstructed total ion chromatograms (RICs) for each sample	X	X		
	Raw Spectra and background-subtracted mass spectra of target analytes identified	X	X		
	Quantitation Reports	X	X		
	Mass Spectra of all reported TICs with three best library matches	X	X		
	GPC chromatograms (if GPC is required)	X	X		

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
	Standards Data (All Instruments)	835	900	X	
46.	GC/MS Initial Calibration Data (Form 6A-OR)	X	X		
47.	RICs and Quantitation Reports for all Standards	X	X		
48.	Continuing Calibration Verification for GC/MS (Form 7A-OR)	X	X		
49.	RICs and Quantitation Reports for all Standards	X	X		
	Quality Control Data	901	945	X	
50.	Performance Check	902	917	X	
51.	Blank Data	918	936	X	
52.	Matrix Spike/Matrix Spike Duplicate Data (if requested by the EPA Region)	N/A	N/A	X	
53.	Raw GPC Data	N/A	N/A	X	
54.	For SIM analysis (if requested), at the same sequence as listed above, except for that Form 1B-OR and TIC spectra data which are not required for SIM method.	946	1302	X	
55.	Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable)	937	945	X	
Pesticides					
	Quality Control Summary	N/A	N/A	X	
56.	Surrogate Recovery (Form 2C-OR)	N/A	N/A	X	
57.	Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR each columns)	N/A	N/A	X	
58.	Laboratory Control Sample Recovery (Form 3B-OR for each column)	N/A	N/A	X	
59.	Method Blank Summary (Form 4-OR)	N/A	N/A	X	
	Sample Data	N/A	N/A	X	
60.	TAL Results – Organic Analysis Data Sheet (Form 1A-OR)	X	X		
61.	Raw Data for Each Sample:	X	X		
	Chromatograms (Primary Column)	X	X		
	Chromatograms (Secondary Column)	X	X		
	Quantitation Reports	X	X		
	Manual Worksheets	X	X		
62.	For Pesticides by GC/MS Confirmation:	X	X		
	Copies of raw spectra and copies of background-subtracted mass spectra of target analytes (samples & standards)	X	X		

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
	Standards Data	N/A	N/A	X	
63.	Initial Calibration of Single Component Analytes (Form 6B-OR and 6C-OR)	X	X		
64.	Initial Calibration of Multicomponent Analytes (Form 6D-OR and 6E-OR)	X	X		
65.	Analyte Resolution Summary (Form 6G-OR)	X	X		
66.	Pesticide Performance Evaluation Mixture Calibration Verification Summary (Form 7B-OR)	X	X		
67.	Continuing Calibration Verification Summary (Form 7C-OR)	X	X		
68.	Multicomponent Continuing Calibration Verification Summary (Form 7D-OR)	X	X		
69.	Analytical Sequence (Form 8B-OR)	X	X		
70.	Florisil Cartridge Check (Form 9A-OR)	X	X		
71.	GPC Calibration Verification (Form 9B-OR)	X	X		
72.	Identification Summary for Single Component Analytes (Form 10A-OR)	X	X		
73.	Identification Summary for Multicomponent Analytes (Form 10B-OR)	X	X		
74.	Chromatograms and Quantitation Reports:	X	X		
	A printout of Retention Times and corresponding peak areas or peak heights	X	X		
	Quality Control Data	N/A	N/A	X	
75.	Blank Data	N/A	N/A	X	
76.	Matrix Spike/Matrix Spike Duplicate Data	N/A	N/A	X	
77.	Laboratory Control Sample	N/A	N/A	X	
78.	Raw GPC Data	N/A	N/A	X	
79.	Raw Florisil Data	N/A	N/A	X	
80.	Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable)	N/A	N/A	X	
Aroclors					
	Quality Control Summary	N/A	N/A	X	
81.	Surrogate Recovery (Form 2C-OR)	N/A	N/A	X	
82.	Matrix Spike/Matrix Spike Duplicate Summary (Form 3A-OR)	N/A	N/A	X	
83.	Laboratory Control Sample Recovery (Form 3B-OR for each column)	N/A	N/A	X	
84.	Method Blank Summary (Form 4-OR)	N/A	N/A	X	

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
	Sample Data	N/A	N/A	X	
85.	TAL Results – Organic Analysis Data Sheet (Form 1A-OR)	X	X		
86.	Raw Data for Each Sample:	X	X		
	Chromatograms (Primary Column)	X	X		
	Chromatograms (Secondary Column)	X	X		
	Quantitation Reports	X	X		
	Manual Worksheets	X	X		
87.	For Aroclors by GC/MS Confirmation:	X	X		
	Copies of raw spectra and copies of background-subtracted mass spectra of target analytes (samples & standards)	X	X		
	Standards Data	N/A	N/A	X	
88.	Initial Calibration of Multicomponent Analytes (Form 6D-OR, Form 6E-OR, and Form 6F-OR)	X	X		
89.	Multicomponent Continuing Calibration Verification Summary (Form 7D-OR)	X	X		
90.	Analytical Sequence (Form 8B-OR)	X	X		
91.	Identification Summary for Multicomponent Analytes (Form 10B-OR)	X	X		
92.	Chromatograms and data system printouts:	X	X		
	A printout of Retention Times and corresponding peak areas or peak heights	X	X		
	Quality Control Data	N/A	N/A	X	
93.	Blank Data	N/A	N/A	X	
94.	Matrix Spike/Matrix Spike Duplicate Data	N/A	N/A	X	
95.	Laboratory Control Sample (LCS) Data	N/A	N/A	X	
96.	Raw GPC Data (if performed)	N/A	N/A	X	
97.	Original preparation and analysis forms or copies of preparation and analysis logbook pages (including Percent Solid Determinations logs and screening records if applicable)	N/A	N/A	X	
Additional					
98.	EPA Shipping/Receiving Documents	1303	1307		
	Airbill (No. of Shipments 2)	1304	1305		
	Sample Tags	N/A	N/A		
	Sample Log-In Sheet (Lab)	1306	1307		

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
99. Misc. Shipping/Receiving Records (list all individual records)				
Communication Logs				
	N/A	N/A		
100. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	N/A	N/A		
101. PE/PT Instruction Forms	N/A	N/A		
102. Other Records (describe or list)	N/A	N/A		
Communication Logs				
	N/A	N/A		
103. Comments:				

Completed by:
(CLP Lab) (Signature) Robert Zhu, Technical Director (Print Name & Title) (Date)

Audited by:
(EPA) (Signature) (Print Name & Title) (Date)

Narrative

Narrative

Manual Integration Form for each analysis

Calculation Sheets

Modified Analysis Instructions (if applicable)

Shealy Environmental Services, Inc.

SDG Narrative
01/04/2016
Case 45671
SDG F6R18
SOW: SOM02.3
Contract Number: EPW14035
Solicitation: 2655A
MA: 2544.1

Columns	TVOA/TVOA SIM/VOA DB-624, 30m x 0.25mm x 1.4um SVOA/SVOA SIM ZEBRON ZB-SV, 30m x 0.25mm x 0.5um
VOA Trap	OI #10

TVOA/VOA Equation	Water sample concentration (ug/L) = $\frac{(A_x)(I_s)(DF)}{(A_{is})(\overline{RRF})(V_o)}$ Soil sample concentration (ug/Kg) = $\frac{(A_x)(I_s)(DF)}{(A_{is})(\overline{RRF})(W_s)(D)}$ Where A_x is the area of the characteristic ion (EICP) for the compound to be measured. A_{is} is the area of the characteristic ion (EICP) for the internal standard. I_s is the amount of internal standard added, in ng. $\overline{RRF}$ is the mean relative response factor from the initial calibration. DF is the dilution factor. V_o is total volume of water purged, in mL. Ws is the weight of sample added to the purge tube in g. D = $\frac{100 - \%moisture}{100}$
SVOA/SVOA SIM Equation	Water sample concentration ug/L = $\frac{(A_x)(I_s)(V_t)(DF)(GPC)}{(A_{is})(\overline{RRF})(V_o)(V_i)}$ Soil sample concentration (ug/Kg) = $\frac{(A_x)(I_s)(V_t)(DF)(GPC)}{(A_{is})(\overline{RRF})(V_i)(W_s)(D)}$ Where A_x is the area of the characteristic ion (EICP) for the compound to be measured. A_{is} is the area of the characteristic ion (EICP) for the internal standard. I_s is the amount of internal standard added, in ng. $\overline{RRF}$ is the mean relative response factor from the initial calibration. DF is the dilution factor. GPC = V_{in}/V_{out}: GPC factor. V_{in} is the volume of extract loaded onto GPC column. V_{out} is the volume of extract collected after GPC cleanup. V_t is volume of the concentrated extract in uL. (If no GPC cleanup is performed, then V_t = 1000uL. If GPC cleanup is performed, then $V_t = V_{out}$.). V_i is the volume of the extract injected in uL. V_o: Volume of water extracted in mL W_s is the weight of sample extracted in g. D= $\frac{100 - \%Moisture}{100}$

Sample Receiving

The nine soil samples in this SDG were received in sealed shipping containers on December 12, 2015. The cooler temperatures associated with these samples were 5.9 and 6.7˚C.

The temperature was determined using a calibrated Fluke 66 IR thermometer.

VOA Fraction

VOA samples F6R24, F6R25 and F6R26 were analyzed by medium method only, due to over calibration range target analytes.

VOA samples F6R27 were analyzed by medium method only, due to the presence of hydrocarbon envelop in screening data.

The peak eluting at ~6.0min on MSD5 in all analyses is Pentafluorobenzene. This is an internal standard compound that is not being used for quantitation. This compound is not being identified as a TIC.

The peak eluting at ~8.3min on MSD5 in all analyses is an extra DMC in the standard that is not being used for quantitation. This compound is not being identified as a TIC.

See the attached Manual Integration Report for a listing of all manual integrations associated with the samples and standards in this SDG. Unless otherwise noted manual integrations were performed due to incorrect auto integration.

As per the SOW, an example calculation is attached for Vinyl Chloride-d_3 in samples F6R24 and F6R28.

BNA Fraction

Samples F6R20, F6R21, F6R23, F6R24, F6R25, F6R26 and F6R27 were only analyzed at dilutions, due to sample matrix.

See the attached Manual Integration Report for a listing of all manual integrations associated with the samples and standards in this SDG. Unless otherwise noted manual integrations were performed due to incorrect auto integration.

As per the SOW, an example calculation is attached for Phenol-d_5 in sample F6R18.

BNA SIM Fraction

To meet the requirement of MA 2544.1, 2uL injections were used. A 6-point calibration was performed.

Samples F6R23, F6R24 and F6R26 required medium level analysis. The medium level extraction was performed outside contract required holding time.

All samples were analyzed at dilutions due to sample matrix.

See the attached Manual Integration Report for a listing of all manual integrations associated with the samples and standards in this SDG. Unless otherwise noted manual integrations were performed due to incorrect auto integration.

As per the SOW, an example calculation is attached for 2-Methylnaphthalene in sample F6R23.

MANUAL INTEGRATION REPORT
VOA_LOW_MED

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R18

EPA SAMPLE NO.	Column 1 DB-624 0.25(mm)	
F6R24DL	Benzene	
VSTD005PE	Trichlorofluoromethane	
	Acetone	
	Methyl acetate	
	1,2-Dichloroethane	
	1,2-Dichloropropane	
	Bromoform	
	2-Butanone-d5	
	Toluene-d8	
VSTD010PE	Dichlorodifluoromethane	
	Trichlorofluoromethane	
	1,2-Dichloropropane	
VSTD050PE	Trichlorofluoromethane	
VSTD100PE	Trichlorofluoromethane	
VSTD200PE	Trichlorofluoromethane	
VSTD050QA	Trichlorofluoromethane	
VSTD005ZB	Dichlorodifluoromethane	
	Trichlorofluoromethane	
	1,2-Dichloroethane	
	1,2-Dichloropropane	
	Bromoform	
	1,4-Dichlorobenzene	
	Chloroethane-d5	
	2-Butanone-d5	
	Toluene-d8	
VSTD010ZB	Dichlorodifluoromethane	
	Trichlorofluoromethane	
VSTD050ZB	Trichlorofluoromethane	
VSTD100ZB	Trichlorofluoromethane	
VSTD200ZB	Trichlorofluoromethane	
VSTD050SA	Trichlorofluoromethane	
VSTD050SB	Trichlorofluoromethane	
VSTD005SC	Dichlorodifluoromethane	
	Trichlorofluoromethane	
	1,2-Dichloroethane	
	1,2-Dichloropropane	

MANUAL INTEGRATION REPORT
VOA_LOW_MED

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R18

EPA SAMPLE NO.	Column 1 DB-624 0.25(mm)	
	Bromodichloromethane	
	Bromoform	
	1,1,2,2-Tetrachloroethane	
	1,4-Dichlorobenzene	
	1,2-Dichlorobenzene	
	1,2,4-Trichlorobenzene	
	1,2,3-Trichlorobenzene	
	Chloroethane-d5	
	2-Butanone-d5	
	Toluene-d8	
VSTD010SC	Dichlorodifluoromethane	
	1,2-Dichloroethane	
	1,2-Dichloropropane	
	Bromoform	
	1,2-Dichloropropane-d6	

CASE: **45671**
SDG: **F6R18**

Example Calculation for the Volatile Fraction

RRF Calculation

RRF=(Ax*Cis)/(Ais*Cx)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Concentration of the internal standard
Cx=Concentration of the compound to be measured

Example: Vinyl Chloride-d3 from VSTD050S1

Ax=	31005
Ais=	190487
Cis=	250
Cx=	250
RRF=	0.1628

Mean RRF from ICAL 0.1670

Concentration Calculation

Concentration (ug/kg)=(Ax*Is*Df)/(Ais*RRF*Ws*D)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Is=Amount of the internal standard added, in nanograms
Mean RRF=Mean Relative response factor from initial calibration
Ws=sample wt (in gms)
Df=Dilution factor
D=(100-%Moisture)/100
P=Percent moisture

Example: Vinyl Chloride-d3 from F6R28

Ax=	29468
Ais=	180692
Is=	250
Mean RRF=	0.16701
Ws=	4.72
Df=	1
P=	15.5
D=	0.845

Concentration (ug/kg)= 61.207

CASE: **45671**
SDG: **F6R18**

Example Calculation for the Volatile Fraction

RRF Calculation

RRF=(Ax*Cis)/(Ais*Cx)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Concentration of the internal standard
Cx=Concentration of the compound to be measured

Example: Vinyl Chloride-d3 from VSTD050QA

Ax=	134981
Ais=	306068
Cis=	250
Cx=	250
RRF=	0.44102

Mean RRF from ICAL **0.39419**

Concentration Calculation

Concentration (ug/kg)=(Ax*Is*Df)/(Ais*RRF*Ws*D)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Is=Amount of the internal standard added, in nanograms
Mean RRF=Mean Relative response factor from initial calibration
Ws=sample wt (in gms)
Df=Dilution factor
D=(100-%Moisture)/100
P=Percent moisture

Example: Vinyl Chloride-d3 from F6R24

Ax=	111146
Ais=	244847
Is=	250
Mean RRF=	0.39419
Ws=	5.74
Df=	1
P=	22.2
D=	0.778
On-column Concentration (ug/L)	**57.580**
Final Concentration (ug/Kg)	4044.93

CASE: **45671**
SDG: **F6R18**

Example Calculation for the BNA Fraction

RRF Calculation

RRF= (Ax*Cis)/(Ais*Cx)

Where:
Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Concentration of the internal standard
Cx=Concentration of the compound to be measured

Example:	**Phenol-d_5 from**	**SSTD020OZ**
	Ax=	984335
	Ais=	535083
	Cis=	20
	Cx=	20
	RF=	1.840
Mean RRF from ICAL		**1.832**

Concentration Calculation

Concentration(ug/Kg)= (Ax*Is*Vt*Df*GPC)/(Ais*RRF*Vi*Ws*D)

Where:
A_x is the area of the characteristic ion (EICP) for the compound to be measured.
A_{is} is the area of the characteristic ion (EICP) for the internal standard.
I_s is the amount of internal standard added, in ng.
Mean RRF=Relative response factor from the Initial calibration standard
DF is the dilution factor.
GPC factor= V_{in}/V_{out} : GPC
V_{in} is the volume of extract loaded onto GPC column.
V_{out} is the volume of extract collected after GPC cleanup.
V_t is volume of the concentrated extract in uL.
(If no GPC cleanup is performed, then V_t = 1000uL).
(If GPC cleanup is performed, then $V_t = V_{out}$.).
V_i is the volume of the extract injected in uL.
W_s is the weight of sample extracted in g..

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

Example:	**Phenol-d_5 from**	**F6R18**
	Ax=	796514
	Ais=	397240
	Vt	500
	Df=	1
	GPC	2
	Mean RRF=	1.83193
	Is=	20
	Vi	1.0000
	Ws=	30.4
	%Moisture	13
	D= (100-%M/100)	0.87
Concentration(ug/Kg)=		**827.69**

CASE: **45671**
SDG: **F6R18**

Example Calculation for the BNA SIM Fraction

RRF Calculation

RRF= (Ax*Cis)/(Ais*Cx)

Where:
Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Amount of the internal standard (ng)
Cx=Amount of the compound to be measured (ng)

Example:	**2-Methylnaphthalene from**	**SSTD0.2OP**
	Ax=	224733
	Ais=	371838
	Cis=	0.8
	Cx=	0.8
	RF=	0.604
Mean RRF from ICAL		**0.613**

Concentration Calculation

Concentration (ug/Kg)= (Ax*Is*Vt*Df*GPC)/(Ais*RRF*Vi*Ws*D)

Where:
A_x is the area of the characteristic ion (EICP) for the compound to be measured.
A_{is} is the area of the characteristic ion (EICP) for the internal standard.
I_s is the amount of internal standard added, in ng.
Mean RRF=Relative response factor from the Initial calibration standard
DF is the dilution factor.
GPC factor= V_{in}/V_{out} : GPC
V_{in} is the volume of extract loaded onto GPC column.
V_{out} is the volume of extract collected after GPC cleanup.
V_t is volume of the concentrated extract in uL.
(If no GPC cleanup is performed, then V_t = 1000uL).
(If GPC cleanup is performed, then $V_t = V_{out}$.).
V_i is the volume of the extract injected in uL.
W_s is the weight of sample extracted in g..

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

Example:	**2-Methylnaphthalene from**	**F6R23**
	Ax=	19866282
	Ais=	460012
	Vt	500
	Df=	20
	GPC	2
	Mean RRF=	0.61254
	Is=	0.8
	Vi	2.0000
	Ws=	30.2
	%Moisture	15.9
	D= (100-%M/100)	0.841
Concentration (ug/Kg)=		**22207.55**

Date: 11/09/2015	**MA:** 2544.1	**Title:** SVOA SIM Analysis with Additional Analytes and at Lower CRQLs
Method Source: SOM02.3	**Method:** Semivolatiles by SIM	
Matrix: Soil and Water		

Summary of Modification

The purpose of this modified analysis is to analyze soil and water samples using Selective Ion Monitoring (SIM) for the complete target analyte list (TAL) specified for SVOA SIM in Exhibit C with additional SVOA SIM target analytes at the specified CRQLs in Section I. The Laboratory shall proceed to the SVOA SIM analysis for any sample analyzed by the full scan analysis with any of the analytes in Section I that is either not detected or detected at concentration below the adjusted CRQL in the full scan analysis (reported with either "U" or "J" Lab Qualifier). Unless specified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications **Not applicable** ☐

Analyte	CAS Number	Water CRQL (ug/L)	Soil CRQL (ug/kg)
Naphthalene	91-20-3	0.050	1.7
2-Methylnaphthalene	91-57-6	0.050	1.7
Acenaphthylene	208-96-8	0.050	1.7
Acenaphthene	83-32-9	0.050	1.7
Fluorene	86-73-7	0.050	1.7
Pentachlorophenol	87-86-5	0.10	3.3
Phenanthrene	85-01-8	0.050	1.7
Anthracene	120-12-7	0.050	1.7
Fluoranthene	206-44-0	0.050	1.7
Pyrene	129-00-0	0.050	1.7
Benzo (a) anthracene	56-55-3	0.050	1.7
Chrysene	218-01-9	0.050	1.7
Benzo (b) fluoroanthene	205-99-2	0.050	1.7
Benzo (k) fluoroanthene	207-08-9	0.050	1.7
Benzo (a) pyrene	50-32-8	0.050	1.7
Indeno (1,2,3-cd) pyrene	193-39-5	0.050	1.7

Dibenzo(a,h)anthracene	53-70-3	0.050	1.7
Benzo(g,h,i)perylene	191-24-2	0.050	1.7
1, 4-Dioxane*	123-91-1	0.10	3.3
Bis (2-chloroethyl) ether*	111-44-4	0.10	3.3
2,2'-Oxybis (1-chloropropane)*	108-60-1	0.10	3.3
N-Nitroso-di-n propylamine*	621-64-7	0.050	1.7
Hexachloroethane*	67-72-1	0.10	3.3
Nitrobenzene*	98-95-3	0.10	3.3
4-Chloroaniline*	106-47-8	0.10	3.3
Hexachlorobutadiene*	87-68-3	0.10	3.3
2,4,6-Trichlorophenol*	88-06-2	0.10	3.3
1,1'-Biphenyl*	92-52-4	0.050	1.7
2,6-Dinitrotoluene*	606-20-2	0.050	1.7
2,4-Dinitrophenol*	51-28-5	1.0	33
Dibenzofuran*	132-64-9	0.050	1.7
2,4-Dinitrotoluene*	121-14-2	0.050	1.7
4,6-Dinitro-2-methylphenol*	534-52-1	0.10	3.3
1,2,4,5-Tetrachlorobenzene*	95-94-3	0.10	3.3
Hexachlorobenzene*	118-74-1	0.050	1.7
Atrazine*	1912-24-9	0.10	3.3
3,3'-Dichlorobenzidine*	91-94-1	0.10	3.3

**Designated as additional target analyte.*

II. Calibration and QC Requirements	Not applicable ☐

The Laboratory shall:

- Perform a five-point initial calibration to establish the linear calibration ranges on GC/MS for the target analytes in Section I. The recommended lowest ICAL standard concentrations are the same as specified for SVOA SIM analysis in the SOW with exceptions mentioned below.
- Add the additional target analytes, N-Nitroso-di-n-propylamine, 1,1'-Biphenyl, 2,6-Dinitrotoluene, Dibenzofuran, 2,4-Dinitrotoluene, and Hexachlorobenzene, at concentrations 0.10, 0.20, 0.40, 0.80, and 1.6 ng/uL to the original SVOA SIM ICAL standards.
- Add the additional target analytes, 1,4-Dioxane, Bis(2-chloroethyl)ether, 2,2'-Oxybis(1-chloropropane), Hexachloroethane, Nitrobenzene, 4-Chloroaniline, Hexachlorobutadiene, 2,4,6-Trichlorophenol, 4,6-Dinitro-2-methylphenol, 1,2,4,5-Tetrachlorobenzene, Atrazine, and 3,3'-Dichlorobenzidine, at concentrations 0.20, 0.40, 0.80, 1.6, and 3.2 ng/uL to the original SVOA SIM ICAL standards.
- Add the additional target analyte, 2,4-Dinitrophenol, at concentrations 2.0, 4.0, 8.0, 16, and 32 ng/uL to the original SVOA SIM ICAL standards.
- Perform the Continuing Calibration Verification (CCV) consisting at mid-point ICAL standard (CS3) at the same frequency as specified in the SOW.
- Optionally, analyze separate ICAL and CCV standards containing only the additional target analytes and the associated DMCs and IS's at the specified concentrations.
- Add the same DMC solution for the SVOA SIM analysis specified in the SOW at 0.10, 0.20, 0.40, 0.80 and 1.6 ng/uL to the separate ICAL standards.
- Add the additional DMCs, 1,4-Dioxane-d8, Bis(2-chloroethyl)ether-d8, 2,4-Dichlorophenol-d3, and Nitrobenzene-d5, at concentrations 0.20, 0.40, 0.80, 1.6, and 3.2 ng/uL to the separate ICAL standards.
- Add the IS solution, Including 1,4-Dichlorobenzene-d4 as IS1, for the SVOA SIM analysis at 0.40 ng/uL concentration to the separate ICAL and CCV standards.
- Note that ICAL/CCV RRF, ICAL Percent Relative Standard Deviation (%RSD) and CCV %D for the target analytes in Section I and the associated DMCs shall remain the same as specified for SVOA SIM analysis in the SOW.
- Note that the RRF for the additional analytes and DMCs shall be 0.010 or greater in all ICAL and CCV standards. ICAL %RSD for the additional analytes and DMCs shall not exceed 40.0%. For CCVs, the opening CCV % Difference (%D) for the additional analytes and DMCs shall not exceed +/-50.0%; for the closing CCV, the %D criteria shall be advisory.
- Use the specified IS's in Table 9 for the quantitation of the additional target analytes and DMCs. Use the Primary Quantitation Ions and one of the Secondary Ions listed in Table 8 for additional target analytes and DMCs.
- For the additional target analytes, refer to Table 3 for associated DMCs with the following exceptions: 4-Chloroaniline is associated with Nitrobenzene-d5; 1,1-Biphenyl, Dibenzofuran, Hexachlorobenzene, and Atrazine are associated with 2-Methylnaphthalene-d10; 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol are associated with 2,4-Dichlorophenol-d3; and 3,3'-Dichlorobenzidine is associated with Fluoranthene-d10.
- Note that the technical acceptance criteria for IS's associated to the additional analytes and DMCs in Section I shall remain as specified for SVOA SIM analysis in the SOW.
- The percent recovery limits for additional DMCs (1,4-Dioxane-d8, Bis (2-chloroethyl) ether-d8,

2,4-Dichlorophenol-d3, Nitrobenzene-d5) are 10 to 150 for both water and soil samples. Besides these criteria, the technical acceptance criteria for DMCs associated to the additional analytes in Section I shall remain as specified for SVOA SIM analysis in the SOW.

- Prepare and analyze the method blank at the same frequency and sequence as specified in the SOW. The concentration of any analyte in Section I shall not exceed the CRQL in the method blank.
- Add the DMC solution including Bis (2-chloroethyl) ether-d8 and 2,4-Dichlorophenol-d3 to samples and blanks at the same concentration (0.40 ug) specified in the SOW. Add the DMC solution including 2-Methylnaphthalene-d10, Fluoranthene-d10, 1,4-Dioxane-d8, and Nitrobenzene-d5 to samples and blanks at ½ (0.20 ug) of the concentrations specified in the SOW.
- Add the IS solution, Including 1,4-Dichlorobenzene-d4 as IS1, to sample and blank extracts at the specified level in the SOW.
- Perform any required dilutions as specified in SOW.
- Note that all other technical acceptance criteria for ICALs, CCVs, blanks and samples remain the same as specified in the SOW.

III. Preparation and Method Modifications **Not applicable** ☐

The Laboratory shall:

- Perform an MDL study for the target analytes in Section I.
- Proceed to SVOA SIM analysis for any sample that are analyzed by the full scan analysis and with any of the analyte in Section I that is either not detected or detected at concentration below the adjusted CRQL in the full scan analysis (reported with either "U" or "J" Lab Qualifier).
- Note that the samples may be high in PAH analytes, which may cause interference. However, the Laboratory should make every effort to meet the CRQL, at least in the initial run. If this is not possible, the Laboratory shall contact SMO.
- Reduce the final extract volume to 0.50 mL (500 uL) instead of 1.0 mL specified in the SOW.
- Perform GPC clean up procedure as specified in the SOW.

IV. Special Reporting Requirements **Not applicable** ☐

The Laboratory shall:

- **Report the CRQLs listed in Section I, adjusted according to the equation listed in Exhibit D, even if the level of the corresponding target analytes in the low-point calibration standard is below the CRQLs listed in Section I.**
- Submit the MDL study results for all SOW target analytes and the additional target analytes in Section I as specified in the SOW. If the Laboratory has not previously submitted MDL results during the current contract year for the additional target analytes in Section I above, compliant MDL study results shall be submitted concurrently with the deliverables for this MA to the recipients specified in SOW Exhibit B, Table 1, Row G.
- Modify all applicable hardcopy forms to include the additional target analytes in Section I and DMCs. This includes Forms 1, 2, 6, and 7.

- Include the same information on the EDD as in the hardcopy.
- Note that TICs are not required to be reported.

VOLATILES (low/medium)

QC Summary

- Deuterated Monitoring Compound Recovery (Form 2)
- Matrix Spike/Matrix Spike Duplicate Recovery (Form 3) optional
- Laboratory Control Sample Recovery (Form 3) optional
- Method Blank Summary (Form 4)
- GC/MS Instrument Performance Check (Form 5)
- Internal Standard Area & RT Summary (Form 8)

Sample Data

Standards Data

- Initial Calibration (Form 6)
- Continuing Calibration Verification Data (Form 7)

Raw QC Data

- Blank Data
- MS/MSD Data (optional)
- LCS Data (optional)

Miscellaneous Data

- Run Logs
- Standard Preparation Logs

VOLATILE
QC SUMMARY

Includes:

Deuterated Monitoring Compound Recovery (Form 2)

Matrix Spike/Matrix Spike Duplicate (Form 3A)

Laboratory Control Sample Recovery (From 3B)

Method Blank Summary (Form 4)

GC/MS Instrument Performance Check (Form 5)

Internal Standard Area and RT Summary (Form 8)

Deuterated Monitoring Compound Recovery

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R18

AnalyticalMethod: VOA Level: LOW

Matrix: Soil

EPA SAMPLE NO.	DMC1	DMC2	DMC3	DMC4	DMC5	DMC6	DMC7	DMC8	DMC9
F6R28	98	97	72	71	91	94	94	91	92
VHBLK01	111	113	86	80	107	109	110	108	110
VBLKSC	119	116	88	103	109	110	115	113	113

	QC LIMITS
DMC1 = Vinyl Chloride-d3	30-150
DMC2 = Chloroethane-d5	30-150
DMC3 = 1,1-Dichloroethene-d2	45-110
DMC4 = 2-Butanone-d5	20-135
DMC5 = Chloroform-d	40-150
DMC6 = 1,2-Dichloroethane-d4	70-130
DMC7 = Benzene-d6	30-130
DMC8 = 1,2-Dichloropropane-d6	70-120
DMC9 = Toluene-d8	30-130

* Values outside of contract required QC limits
D DMC diluted out

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R18

AnalyticalMethod: VOA Level: MED

Matrix: Soil

EPA SAMPLE NO.	DMC1	DMC2	DMC3	DMC4	DMC5	DMC6	DMC7	DMC8	DMC9
F6R24	115	105	80	82	97	113	148 *	200 *	135 *
F6R24DL	115	125	89	115	105	107	112	112	113
F6R25	148	140	163 *	127	106	111	105	119	118
F6R26	70	77	50	97	67	77	127	147 *	113
F6R27	115	126	86	104	90	94	83	84	88
VBLKPE	99	104	78	69	78	86	111	115	103
VIBLK60	109	136	103	186 *	177 *	105	122	96	104
VIBLK61	109	143	85	152 *	127	107	100	97	102
VIBLK62	124	131	131 *	140 *	94	100	98	97	104
VIBLK63	134	177 *	115 *	122	129	128	132 *	104	108
VBLKSA	116	113	86	79	105	106	112	107	109
VIBLK64	110	121	87	113	103	104	108	105	106

	QC LIMITS
DMC1 = Vinyl Chloride-d3	30-150
DMC2 = Chloroethane-d5	30-150
DMC3 = 1,1-Dichloroethene-d2	45-110
DMC4 = 2-Butanone-d5	20-135
DMC5 = Chloroform-d	40-150
DMC6 = 1,2-Dichloroethane-d4	70-130
DMC7 = Benzene-d6	30-130
DMC8 = 1,2-Dichloropropane-d6	70-120
DMC9 = Toluene-d8	30-130

* Values outside of contract required QC limits
D DMC diluted out

FORM 2B-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R18

AnalyticalMethod: VOA Level: LOW

Matrix: Soil

EPA SAMPLE NO.	DMC10	DMC11	DMC12	DMC13	DMC14	DMC15	DMC16	DMC17	TOT OUT
F6R28	89	60	83	85					0
VHBLK01	107	65	103	107					0
VBLKSC	110	86	104	105					0

	QC LIMITS
DMC10 = trans-1,3-Dichloropropene-d4	30-135
DMC11 = 2-Hexanone-d5	20-135
DMC12 = 1,1,2,2-Tetrachloroethane-d2	45-120
DMC13 = 1,2-Dichlorobenzene-d4	75-120

* Values outside of contract required QC limits
D DMC diluted out

FORM 2B-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R18

AnalyticalMethod: VOA Level: MED

Matrix: Soil

EPA SAMPLE NO.	DMC10	DMC11	DMC12	DMC13	DMC14	DMC15	DMC16	DMC17	TOT OUT
F6R24	125	84	93	123 *					4
F6R24DL	115	99	110	105					0
F6R25	105	93	131 *	137 *					3
F6R26	104	90	112	101					1
F6R27	95	86	109	100					0
VBLKPE	97	85	103	100					0
VIBLK60	99	80	106	105					2
VIBLK61	97	82	130 *	108					2
VIBLK62	100	81	101	101					2
VIBLK63	99	76	114	110					3
VBLKSA	107	83	100	106					0
VIBLK64	104	92	106	102					0

	QC LIMITS
DMC10 = trans-1,3-Dichloropropene-d4	30-135
DMC11 = 2-Hexanone-d5	20-135
DMC12 = 1,1,2,2-Tetrachloroethane-d2	45-120
DMC13 = 1,2-Dichlorobenzene-d4	75-120

* Values outside of contract required QC limits
D DMC diluted out

Method Blank Summary

EPA SAMPLE NO.

VBLKPE

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-001
Instrument ID: Agilent MSD5
Lab File ID: 51216A10
Extraction Type: PT
Date Extracted:
GC Column(1): DB-624 ID: 0.25 (mm)
Date Analyzed: 12/16/2015
GC Column(2): ID: (mm)
Time Analyzed: 11:09
Heated Purge:(Y/N) N Cleanup:(Y/N)
Cleanup Types:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R24	QL12004-005	51216A16	12/16/2015
F6R25	QL12004-006	51216A18	12/16/2015
F6R26	QL12004-007	51216A20	12/16/2015
F6R27	QL12004-008	51216A22	12/16/2015

EPA SAMPLE NO.

VBLKSA

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92730-001
Instrument ID: Agilent MSD5
Lab File ID: 51221A05A
Extraction Type: PT
Date Extracted:
GC Column(1): DB-624 ID: 0.25 (mm)
Date Analyzed: 12/21/2015
GC Column(2): ID: (mm)
Time Analyzed: 10:22
Heated Purge:(Y/N) N Cleanup:(Y/N)
Cleanup Types:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R24DL	QL12004-005	51221A08	12/21/2015

EPA SAMPLE NO.

VBLKSC

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No: SDG No.: F6R18
Analytical Method: VOA
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92741-001
Instrument ID: Agilent MSD5
Lab File ID: 51221B08
Extraction Type: PT
Date Extracted:
GC Column(1): DB-624 ID: 0.25 (mm)
Date Analyzed: 12/21/2015
GC Column(2): ID: (mm)
Time Analyzed: 17:18
Heated Purge:(Y/N) Y Cleanup:(Y/N)
Cleanup Types:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R28	QL12004-009	51221B13	12/21/2015
VHBLK01	QL12004-010	51221B19	12/21/2015

Instrument Performance Check

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

BFBPE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Lab File ID: 51216A01

Instrument ID: Agilent MSD5 BFB/DFTPP: BFB

GC Column: DB-624 ID: 0.25 (mm)

Injection Date: 12/16/2015 Injection Time: 0752

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	17.8	
75	30.0 - 80.0% of mass 95	47.0	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120% of mass 95	111.4	
175	5.0 - 9.0% of mass 174	8.5	(7.7) 1
176	95.0 - 101% of mass 174	109.6	(98.4) 1
177	5.0 - 9.0% of mass 176	7.2	(6.5) 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD010PE	VSTD010PE	51216A04	12/16/2015	0855
VSTD050PE	VSTD050PE	51216A05	12/16/2015	0916
VSTD100PE	VSTD100PE	51216A06	12/16/2015	0938
VSTD200PE	VSTD200PE	51216A07	12/16/2015	0959
VSTD005PE	VSTD005PE	51216A09	12/16/2015	1048
VBLKPE	QQ92333-001	51216A10	12/16/2015	1109
VIBLK60	QQ92333-018	51216A13	12/16/2015	1237
F6R24	QL12004-005	51216A16	12/16/2015	1515
VIBLK61	QQ92333-018C	51216A17	12/16/2015	1536
F6R25	QL12004-006	51216A18	12/16/2015	1558
VIBLK62	QQ92333-018D	51216A19	12/16/2015	1619
F6R26	QL12004-007	51216A20	12/16/2015	1641
VIBLK63	QQ92333-018E	51216A21	12/16/2015	1702
F6R27	QL12004-008	51216A22	12/16/2015	1726
VSTD050QA	VSTD050QA	51216A24	12/16/2015	1809

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

BFBQN

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Lab File ID: 51220A01

Instrument ID: Agilent MSD5 BFB/DFTPP: BFB

GC Column: DB-624 ID: 0.25 (mm)

Injection Date: 12/20/2015 Injection Time: 1236

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	19.2	
75	30.0 - 80.0% of mass 95	46.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120% of mass 95	94.2	
175	5.0 - 9.0% of mass 174	7.1	(7.5) 1
176	95.0 - 101% of mass 174	93.0	(98.8) 1
177	5.0 - 9.0% of mass 176	6.1	(6.6) 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD005ZB	VSTD005ZB	51220A08	12/20/2015	1510
VSTD010ZB	VSTD010ZB	51220A09	12/20/2015	1531
VSTD050ZB	VSTD050ZB	51220A10	12/20/2015	1553
VSTD100ZB	VSTD100ZB	51220A11	12/20/2015	1615
VSTD200ZB	VSTD200ZB	51220A12	12/20/2015	1636

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

BFBSA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Lab File ID: 51221A01

Instrument ID: Agilent MSD5 BFB/DFTPP: BFB

GC Column: DB-624 ID: 0.25 (mm)

Injection Date: 12/21/2015 Injection Time: 0847

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	18.6	
75	30.0 - 80.0% of mass 95	46.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120% of mass 95	98.2	
175	5.0 - 9.0% of mass 174	7.5	(7.7) 1
176	95.0 - 101% of mass 174	97.6	(99.5) 1
177	5.0 - 9.0% of mass 176	6.2	(6.4) 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD050SA	VSTD050SA	51221A03	12/21/2015	0923
VBLKSA	QQ92730-001	51221A05A	12/21/2015	1022
VIBLK64	QQ92730-018	51221A07	12/21/2015	1157
F6R24DL	QL12004-005	51221A08	12/21/2015	1218
VSTD050SB	VSTD050SB	51221A10	12/21/2015	1304

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

BFBSC

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Lab File ID: 51221B01

Instrument ID: Agilent MSD5 BFB/DFTPP: BFB

GC Column: DB-624 ID: 0.25 (mm)

Injection Date: 12/21/2015 Injection Time: 1442

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 80.0% of mass 95	46.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120% of mass 95	99.2
175	5.0 - 9.0% of mass 174	7.5 (7.6) 1
176	95.0 - 101% of mass 174	99.6 (100.4) 1
177	5.0 - 9.0% of mass 176	6.4 (6.4) 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD005SC	VSTD005SC	51221B02	12/21/2015	1504
VSTD010SC	VSTD010SC	51221B03	12/21/2015	1526
VSTD050SC	VSTD050SC	51221B04	12/21/2015	1549
VSTD100SC	VSTD100SC	51221B05	12/21/2015	1611
VSTD200SC	VSTD200SC	51221B06	12/21/2015	1633
VBLKSC	QQ92741-001	51221B08	12/21/2015	1718
F6R28	QL12004-009	51221B13	12/21/2015	1915
VHBLK01	QL12004-010	51221B19	12/21/2015	2129
VSTD050S1	VSTD050S1	51221B20	12/21/2015	2152

Internal Standard & RT Summary

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: Low
EPA Sample No.: VSTD050PE
Lab File ID (Standard): 51216A05
Instrument ID: Agilent MSD5
Init. Calib. Date(s): 12/16/2015 12/16/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Analyzed: 12/16/2015
Heated Purge: (Y/N) N
Time Analyzed: 0916

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	246183	10.51	269186	7.43	144643	12.36
UPPER LIMIT	492366	10.68	538372	7.60	289286	12.53
LOWER LIMIT	123092	10.34	134593	7.26	72322	12.19
EPA SAMPLE NO.						
F6R24	182771	10.51	244847	7.43	124944	12.36
F6R25	185686	10.51	200975	7.43	192598	12.36
F6R26	208462	10.51	403629	7.43	139958	12.37
F6R27	242896	10.51	237411	7.43	129629	12.36
VBLKPE	173333	10.51	258475	7.43	110797	12.36
VIBLK60	182145	10.51	248027	7.43	111419	12.36
VIBLK61	203181	10.51	218316	7.43	123092	12.36
VIBLK62	213921	10.51	231639	7.43	122707	12.36
VIBLK63	201115	10.51	223541	7.43	126641	12.36

IS1 = Chlorobenzene-d5
IS2 = 1,4-Difluorobenzene
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.17 minutes of internal standard RT
RT LOWER LIMIT = - 0.17 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: Low
EPA Sample No.: VSTD050SA
Lab File ID (Standard): 51221A03
Instrument ID: Agilent MSD5
Init. Calib. Date(s): 12/20/2015 12/20/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Analyzed: 12/21/2015
Heated Purge: (Y/N) N
Time Analyzed: 0923

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	192405	10.43	224758	7.31	99097	12.29
UPPER LIMIT	384810	10.60	449516	7.48	198194	12.46
LOWER LIMIT	96203	10.26	112379	7.14	49549	12.12
EPA SAMPLE NO.						
F6R24DL	198703	10.43	227604	7.31	104552	12.29
VBLKSA	193342	10.43	219603	7.31	99832	12.29
VIBLK64	205869	10.43	231006	7.31	106861	12.29

IS1 = Chlorobenzene-d5
IS2 = 1,4-Difluorobenzene
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.17 minutes of internal standard RT
RT LOWER LIMIT = - 0.17 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: Low
EPA Sample No.: VSTD050SC
Lab File ID (Standard): 51221B04
Instrument ID: Agilent MSD5
Init. Calib. Date(s): 12/21/2015 12/21/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Analyzed: 12/21/2015
Heated Purge: (Y/N) Y
Time Analyzed: 1549

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	179919	10.43	189231	7.31	98166	12.29
UPPER LIMIT	359838	10.60	378462	7.48	196332	12.46
LOWER LIMIT	89960	10.26	94616	7.14	49083	12.12
EPA SAMPLE NO.						
F6R28	174855	10.43	180692	7.31	95544	12.29
VHBLK01	185128	10.43	189669	7.31	102022	12.29
VBLKSC	177377	10.43	185708	7.32	95650	12.29

IS1 = Chlorobenzene-d5
IS2 = 1,4-Difluorobenzene
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.17 minutes of internal standard RT
RT LOWER LIMIT = - 0.17 minutes of internal standard RT

VOLATILE SAMPLE DATA

Sample data shall be arranged in packets with the Volatile Analysis Data Sheet (Form 1A-OR, 1B-OR), followed by the raw data for the VOA samples. These sample packets shall be placed in increasing EPA sample number order, considering both letters and numbers.

-Target Compound Results (Form 1A-OR)
-Tentatively Identified Compounds (Form 1B-OR)
List up to 30 TICs
-Quantitation Report showing calculation for TCL Analytes
-Quantitation Report showing calculation for TICs
-Reconstructed Total Ion Chromatograms
-Raw Spectra & background subtracted mass spectra of TCL Analytes identified in the sample
-Mass Spectra of organic compounds not listed in Exhibit C with associated best match spectra
-Printout of Manual Integrations

Spectra shall be labeled as follows:

EPA Sample ID number, Sample ID number, Lab file ID, Date & Time of analysis and Instrument ID.
The compound name must be clearly marked.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R24

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 5.74 (g/mL) g
Lab File ID: 51216A16
% Solids: 77.8
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	350	U
74-87-3	Chloromethane	350	U
75-01-4	Vinyl chloride	350	U
74-83-9	Bromomethane	350	U
75-00-3	Chloroethane	350	U
75-69-4	Trichlorofluoromethane	350	U
75-35-4	1,1-Dichloroethene	350	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	350	U
67-64-1	Acetone	700	U
75-15-0	Carbon disulfide	350	U
79-20-9	Methyl acetate	350	U
75-09-2	Methylene chloride	350	U
156-60-5	trans-1,2-Dichloroethene	350	U
1634-04-4	Methyl tert-butyl ether	350	U
75-34-3	1,1-Dichloroethane	350	U
156-59-2	cis-1,2-Dichloroethene	350	U
78-93-3	2-Butanone	700	U
74-97-5	Bromochloromethane	350	U
67-66-3	Chloroform	1200	
71-55-6	1,1,1-Trichloroethane	350	U
110-82-7	Cyclohexane	13000	
56-23-5	Carbon tetrachloride	350	U
71-43-2	Benzene	750	
107-06-2	1,2-Dichloroethane	350	U
79-01-6	Trichloroethene	350	U
108-87-2	Methylcyclohexane	55000	E
78-87-5	1,2-Dichloropropane	350	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R24

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI
Case No.: 45671
MA No.:
SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 5.74 (g/mL) g
Lab File ID: 51216A16
% Solids: 77.8
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	350	U
10061-01-5	cis-1,3-Dichloropropene	350	U
108-10-1	4-Methyl-2-pentanone	700	U
108-88-3	Toluene	4100	
10061-02-6	trans-1,3-Dichloropropene	350	U
79-00-5	1,1,2-Trichloroethane	350	U
127-18-4	Tetrachloroethene	350	U
591-78-6	2-Hexanone	700	U
124-48-1	Dibromochloromethane	350	U
106-93-4	1,2-Dibromoethane	350	U
108-90-7	Chlorobenzene	350	U
100-41-4	Ethylbenzene	9200	
179601-23-1	m, p-Xylene	33000	E
95-47-6	o-Xylene	15000	E
100-42-5	Styrene	350	U
75-25-2	Bromoform	350	U
98-82-8	Isopropylbenzene	3300	
79-34-5	1,1,2,2-Tetrachloroethane	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
96-12-8	1,2-Dibromo-3-chloropropane	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
87-61-6	1,2,3-Trichlorobenzene	350	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R24

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 5.74 (g/mL) g
Lab File ID: 51216A16
% Solids: 77.8
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/16/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05		Unknown-01	10.28	8100	J
06		Unknown-02	10.38	7600	J
07		Unknown-03	11.25	11000	J
08		Unknown-04	11.41	8200	J
09	620-14-4	Benzene, 1-ethyl-3-methyl-	11.75	3900	NJ
10	124-18-5	Decane	11.78	6900	NJ
11	611-14-3	Benzene, 1-ethyl-2-methyl-	11.97	5000	NJ
12	526-73-8	Benzene, 1,2,3-trimethyl-	12.09	6300	NJ
13		Unknown-05	12.27	8600	J
14	1074-43-7	Benzene, 1-methyl-3-propyl-	12.55	3700	NJ
15	105-05-5	Benzene, 1,4-diethyl-	12.59	5000	NJ
16	1074-55-1	Benzene, 1-methyl-4-propyl-	12.73	1900	NJ
17	1758-88-9	Benzene, 2-ethyl-1,4-	12.79	4700	NJ
18	874-41-9	Benzene, 1-ethyl-2,4-	12.86	3500	NJ
19	767-58-8	Indan, 1-methyl-	12.97	8700	NJ
20	527-84-4	o-Cymene	13.09	2400	NJ
21	95-93-2	Benzene, 1,2,4,5-tetramethyl-	13.13	1900	NJ
22	488-23-3	Benzene, 1,2,3,4-tetramethyl-	13.18	2400	NJ
23	934-80-5	Benzene, 4-ethyl-1,2-	13.22	5600	NJ
24		Unknown-06	13.34	2000	J
25		Unknown-07	13.38	2500	J
26		Unknown-08	13.42	2800	J
27	933-98-2	Benzene, 1-ethyl-2,3-	13.48	15000	NJ
28	1559-81-5	Naphthalene, 1,2,3,4-	13.69	5700	NJ
29	17059-48-2	1H-Indene, 2,3-dihydro-1,6-	13.81	4700	NJ
30	91-20-3	Naphthalene	13.95	3600	NJ
	E966796[2]	Total Alkanes	N/A	78800	J

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Lab Sample ID:	QL12004-005	Client Sample ID:	F6R24
Injection Date:	16-Dec-2015 15:15:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, QL12004-005		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	16
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.7400	Weight of sample extracted (g)
M	22.200	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 12:36:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.105		ND			
2 Chloromethane	50.0		2.330		ND			
$ 3 Vinyl Chloride-d3	65.0	2.472	2.460	0.012	111146	57.580	4044.93	R
4 Vinyl Chloride	62.0		2.472		ND			
5 Bromomethane	94.0		2.852		ND			
$ 6 Chloroethane-d5	69.0	2.947	2.935	0.012	46172	52.605	3695.44	R
7 Chloroethane	64.0		2.970		ND			
8 Trichlorofluoromethane	101.0		3.267		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.884	3.883	0.001	106981	39.835	2798.37	R
10 1,1-Dichloroethene	96.0		3.907		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.931		ND			
12 Acetone	43.0		3.943		ND			
13 Carbon Disulfide	76.0		4.180		ND			
14 Methyl Acetate	43.0		4.322		ND			
15 Methylene Chloride	84.0		4.453		ND			
16 Methyl tert-Butyl Ether	73.0		4.773		ND			
17 trans-1,2-Dichloroethene	96.0		4.785		ND			
18 1,1-Dichloroethane	63.0		5.271		ND			
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	31722	82.180	5773.09	QR
20 2-Butanone	43.0		5.935		ND			
21 cis-1,2-Dichloroethene	96.0		5.935		ND			
22 Bromochloromethane	128.0		6.220		ND			
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	131699	48.486	3406.09	QR
24 Chloroform	83.0	6.315	6.303	0.011	46906	17.301	1215.37	Q
25 1,1,1-Trichloroethane	97.0		6.552		ND			

Report Date: 20-Dec-2015 12:53:21 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A16.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0	6.635	6.635	0.000	378613	178.00	12504	Q
27 Carbon Tetrachloride	117.0		6.753		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	92604	56.547	3972.42	R
$ 29 Benzene-d6	84.0	6.943	6.943	0.000	337823	74.166	5210.09	R
30 Benzene	78.0	6.990	6.990	0.000	48930	10.718	752.93	
31 1,2-Dichloroethane	62.0		6.990		ND			
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	244847	50.000	3512.47	
33 Trichloroethene	95.0		7.761		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	116168	100.17	7036.82	R
35 Methylcyclohexane	83.0	8.022	8.022	0.000	1697997	785.02	55147	E
36 1,2-Dichloropropane	63.0		8.034		ND			
39 Bromodichloromethane	83.0		8.354		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	100436	62.289	4375.80	R
41 cis-1,3-Dichloropropene	75.0		8.852		ND			
42 4-Methyl-2-pentanone	43.0		8.994		ND			
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	289040	67.383	4733.61	QR
44 Toluene	91.0	9.208	9.208	0.000	285541	58.154	4085.29	
45 trans-1,3-Dichloropropene	75.0		9.409		ND			
46 1,1,2-Trichloroethane	97.0		9.599		ND			
47 Tetrachloroethene	164.0		9.765		ND			
$ 48 2-Hexanone-d5	63.0	9.777	9.777	0.000	34508	83.696	5879.58	R
49 2-Hexanone	43.0		9.825		ND			
50 Dibromochloromethane	129.0		9.979		ND			
51 1,2-Dibromoethane	107.0		10.109		ND			
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	182771	50.000	3512.47	Q
53 Chlorobenzene	112.0		10.536		ND			
54 Ethylbenzene	91.0	10.619	10.619	0.000	701915	130.93	9197.87	
55 m+p-Xylenes	106.0	10.726	10.726	0.000	1048816	471.17	33099	E
56 o-Xylene	106.0	11.058	11.058	0.000	457216	210.03	14755	E
57 Styrene	104.0		11.070		ND			
58 Bromoform	173.0		11.236		ND			
59 Isopropylbenzene	105.0	11.354	11.354	0.000	273321	47.207	3316.29	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	49546	46.744	3283.75	R
61 1,1,2,2-Tetrachloroethane	83.0		11.580		ND			
62 1,3-Dichlorobenzene	146.0		12.327		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	124944	50.000	3512.47	
64 1,4-Dichlorobenzene	146.0		12.386		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	129476	61.406	4313.74	R
66 1,2-Dichlorobenzene	146.0		12.659		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.192		ND			
68 1,2,4-Trichlorobenzene	180.0		13.762		ND			
69 1,2,3-Trichlorobenzene	180.0		14.117		ND			

QC Flag Legend

Processing Flags

E - Compound Concentration Exceeds Max. Calibration Range
Q - Qualifier Signal(s) Fails Ratio Test
R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Lab Sample ID:	QL12004-005	Client Sample ID:	F6R24
Injection Date:	16-Dec-2015 15:15:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, QL12004-005		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	16
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.7400	Weight of sample extracted (g)
M	22.200	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 12:36:30

Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown Alkane						
7.287	6406229	377.18	26497	32				
		Unknown Alkane						
8.485	4419885	260.23	18281	32				
		Unknown Alkane						
8.698	6662242	392.26	27556	32				
		Unknown Alkane						
10.026	3620735	96.179	6756.48	52				
		Unknown						
10.275	4342579	115.35	8103.48	52				
		Unknown						
10.382	4061112	107.88	7578.24	52				
		Unknown						
11.248	6075828	161.39	11338	52				
		Unknown						
11.414	4390665	116.63	8193.21	52				
620-14-4		Benzene, 1-ethyl-3-methyl-						
11.746	6841439	55.715	3913.93	63	97	9423	C9H12	120
124-18-5		Decane						
11.781	12102891	98.563	6923.96	63	89	19156	C10H22	142
611-14-3		Benzene, 1-ethyl-2-methyl-						
11.971	8729875	71.094	4994.29	63	94	9425	C9H12	120
526-73-8		Benzene, 1,2,3-trimethyl-						
12.090	11091550	90.327	6345.38	63	97	9418	C9H12	120

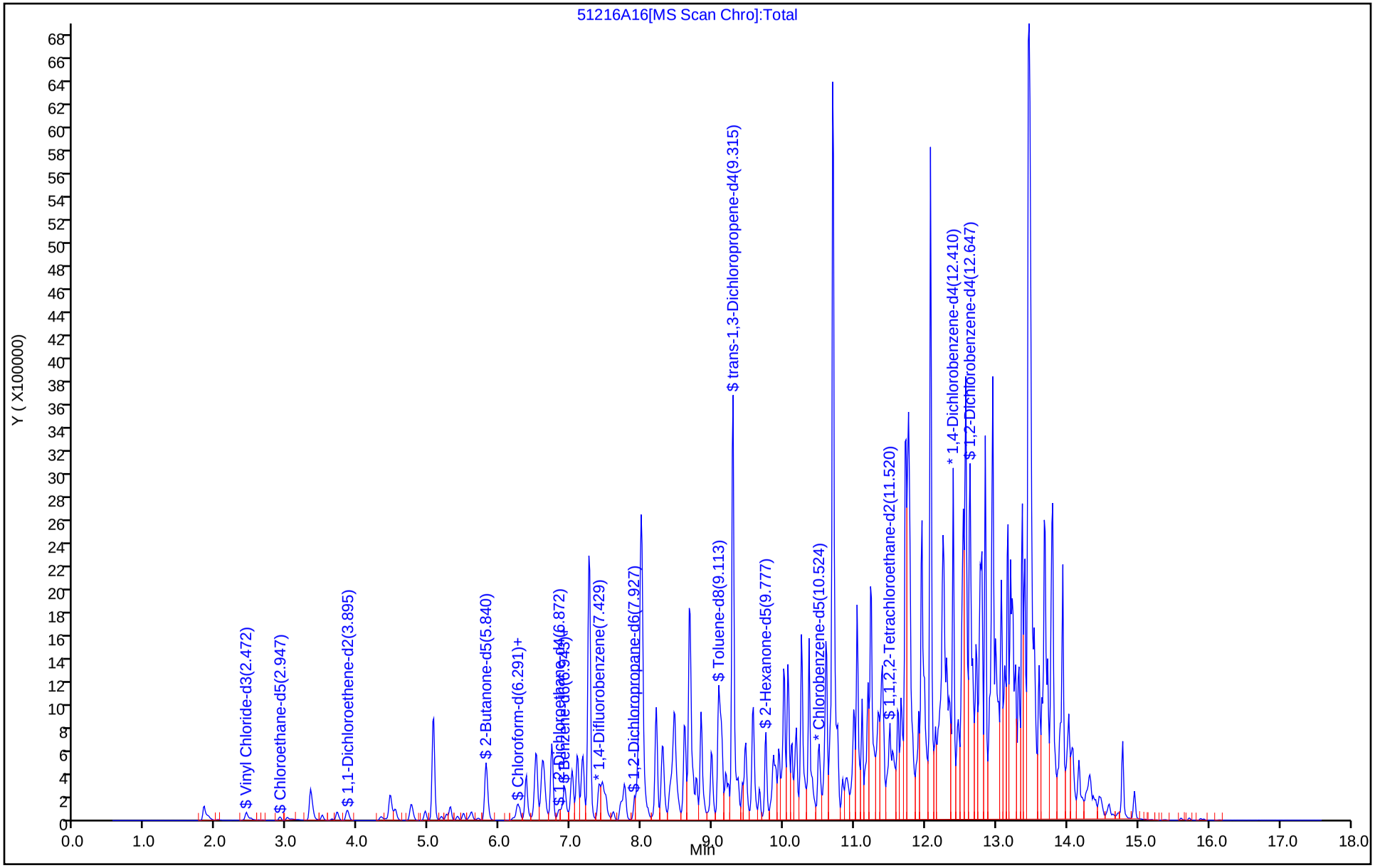
RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
12.267	15102928	122.99	8640.26	63				
1074-43-7		Benzene, 1-methyl-3-propyl-						
12.552	6384512	51.994	3652.53	63	93	14856	C10H14	134
105-05-5		Benzene, 1,4-diethyl-						
12.588	8716730	70.987	4986.77	63	94	14840	C10H14	134
1074-55-1		Benzene, 1-methyl-4-propyl-						
12.730	3408367	27.757	1949.90	63	92	14857	C10H14	134
1758-88-9		Benzene, 2-ethyl-1,4-dimethyl-						
12.789	8242283	67.123	4715.34	63	97	14876	C10H14	134
874-41-9		Benzene, 1-ethyl-2,4-dimethyl-						
12.860	6105391	49.721	3492.84	63	97	14877	C10H14	134
767-58-8		Indan, 1-methyl-						
12.967	15124910	123.17	8652.84	63	94	14031	C10H12	132
527-84-4		o-Cymene						
13.086	4255949	34.659	2434.79	63	92	14811	C10H14	134
95-93-2		Benzene, 1,2,4,5-tetramethyl-						
13.133	3282932	26.735	1878.14	63	94	14872	C10H14	134
488-23-3		Benzene, 1,2,3,4-tetramethyl-						
13.181	4250150	34.612	2431.48	63	97	14868	C10H14	134
934-80-5		Benzene, 4-ethyl-1,2-dimethyl-						
13.216	9833866	80.084	5625.87	63	86	14888	C10H14	134
		Unknown						
13.335	3504072	28.536	2004.65	63				
		Unknown						
13.382	4349121	35.418	2488.10	63				
		Unknown						
13.418	4859976	39.578	2780.35	63				
933-98-2		Benzene, 1-ethyl-2,3-dimethyl-						
13.477	26991743	219.81	15442	63	93	14880	C10H14	134
1559-81-5		Naphthalene, 1,2,3,4-tetrahydro-1-methyl						
13.690	9967059	81.169	5702.07	63	87	21672	C11H14	146
17059-48-2		1H-Indene, 2,3-dihydro-1,6-dimethyl-						
13.809	8212902	66.884	4698.53	63	93	21648	C11H14	146
91-20-3		Naphthalene						
13.951	6295752	51.271	3601.75	63	95	11942	C10H8	128

Quant. Compounds	RT	Response	Amount ug/L
* 32 1,4-Difluorobenzene	7.429	849223	50.000
* 52 Chlorobenzene-d5	10.512	1882299	50.000
* 63 1,4-Dichlorobenzene-d4	12.362	6139694	50.000

Report Date: 20-Dec-2015 12:53:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D				
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	F6R24	Lab ID:	QL12004-005		
Sample Info:	5121615.b, QL12004-005				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

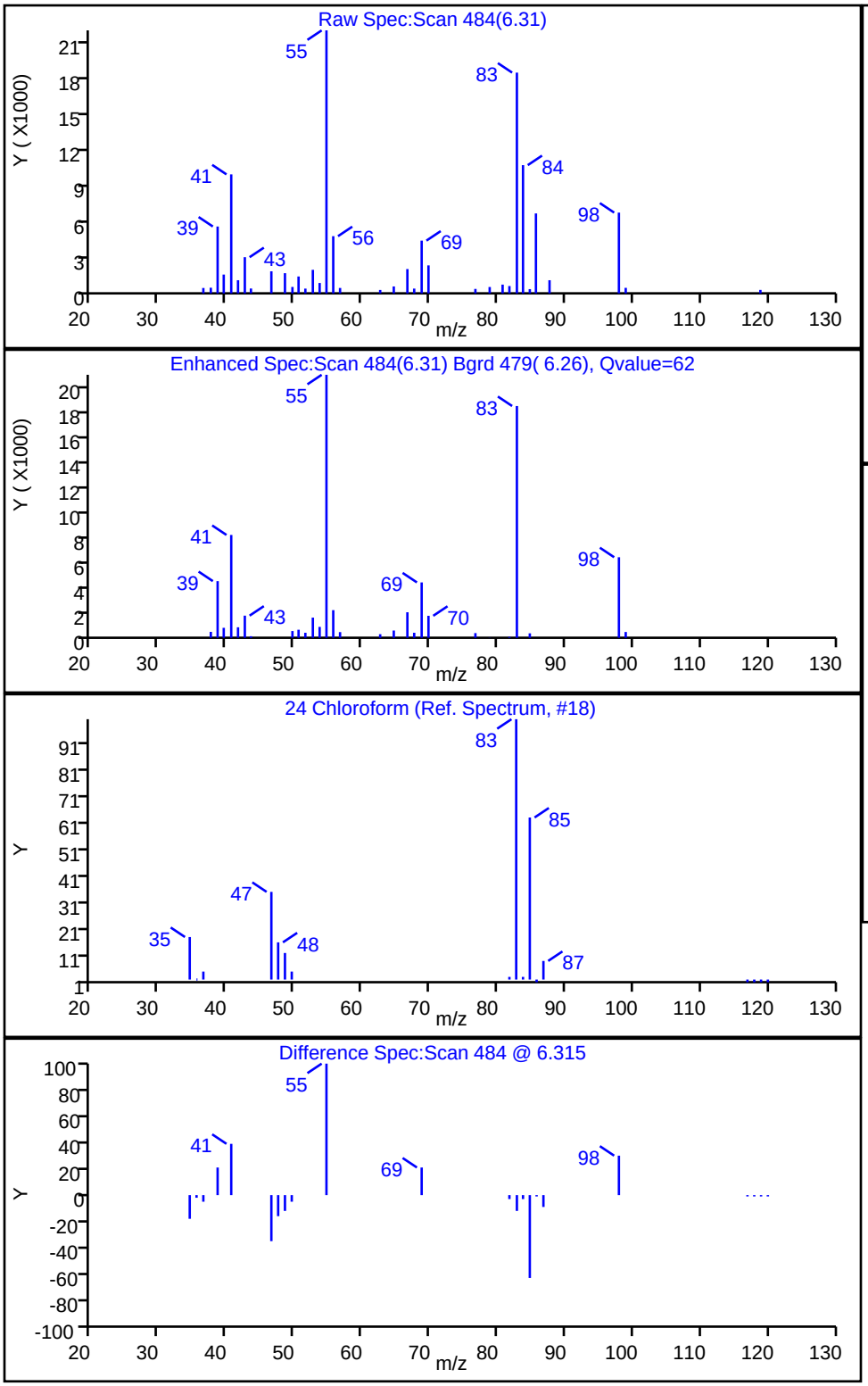


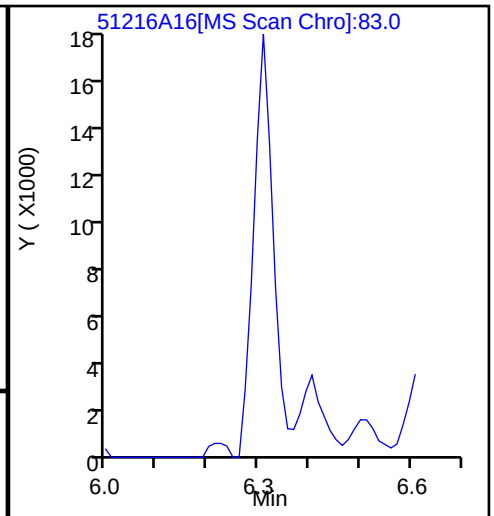
Report Date: 20-Dec-2015 12:53:21 AIM Revision: 1.0 26-May-2015 13:41:26

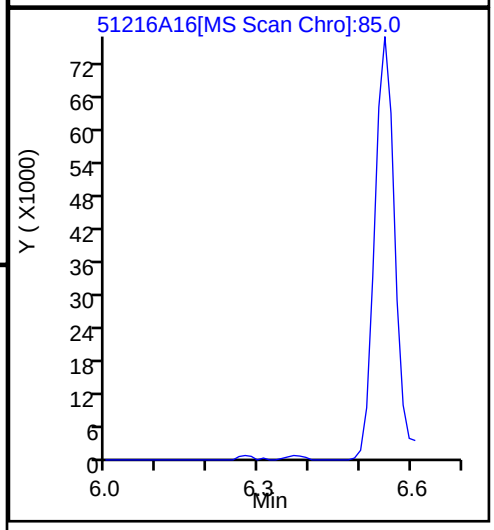
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

24 Chloroform





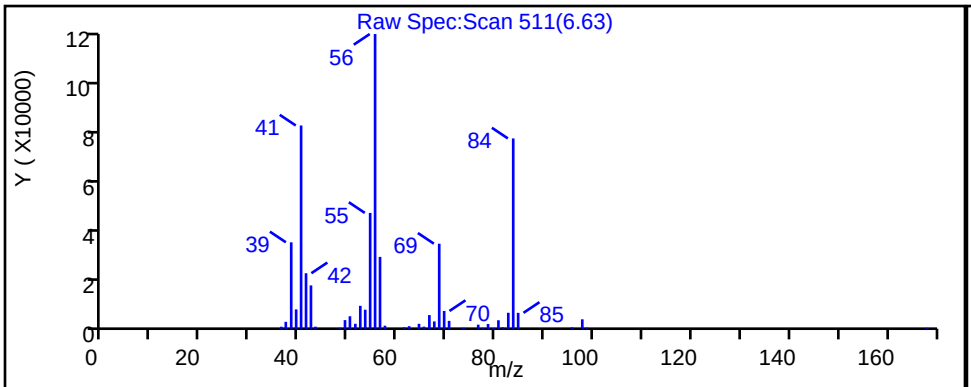


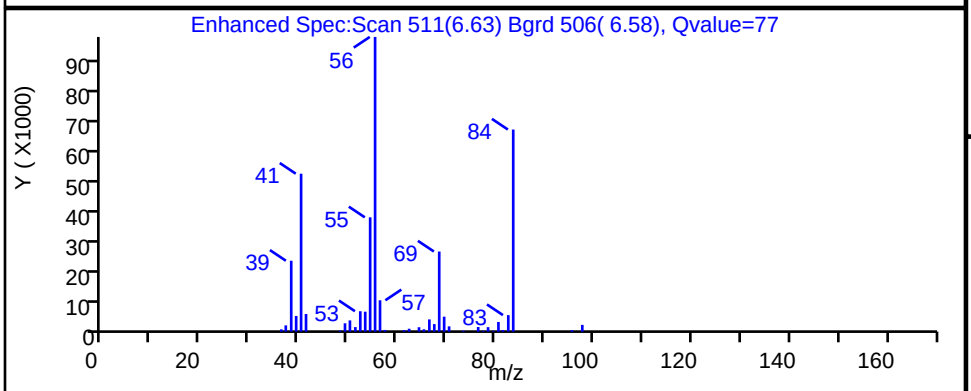
Report Date: 20-Dec-2015 12:53:21 AIM Revision: 1.0 26-May-2015 13:41:26

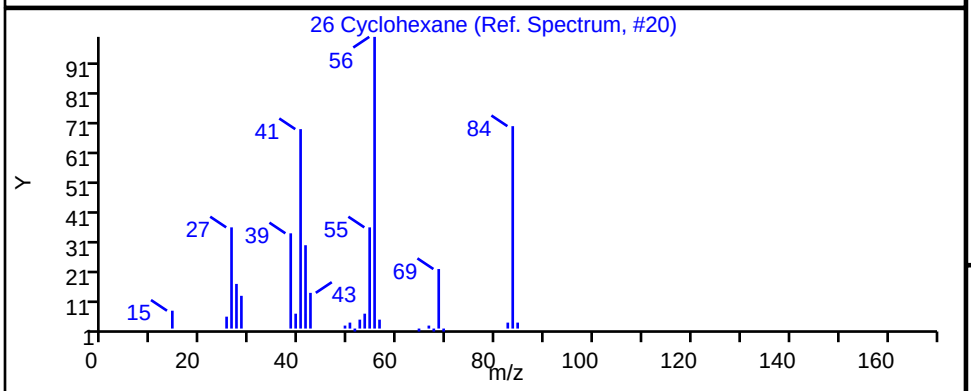
Shealy Environmental Services

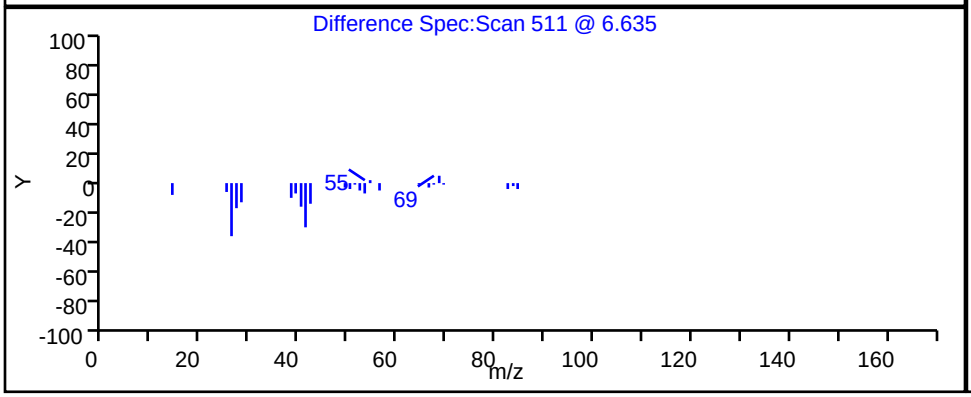
Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

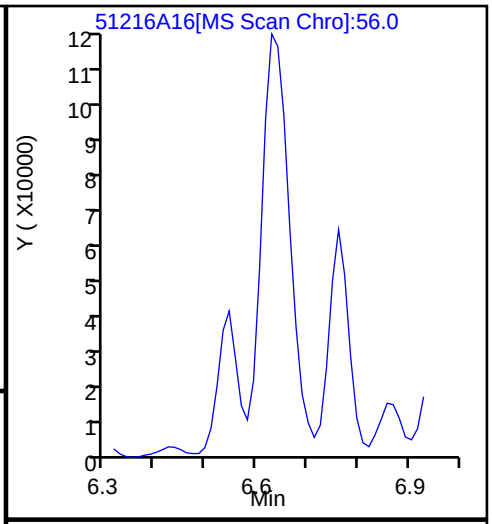
26 Cyclohexane

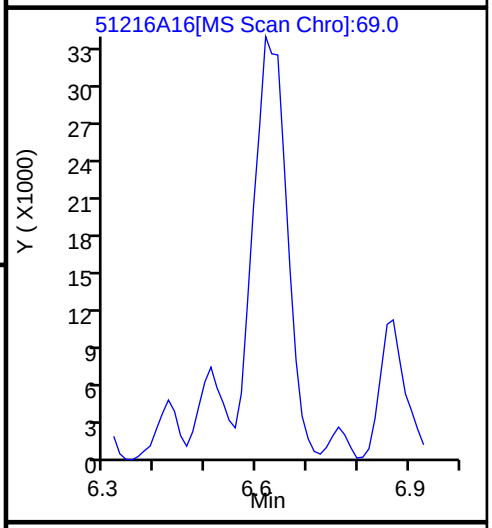


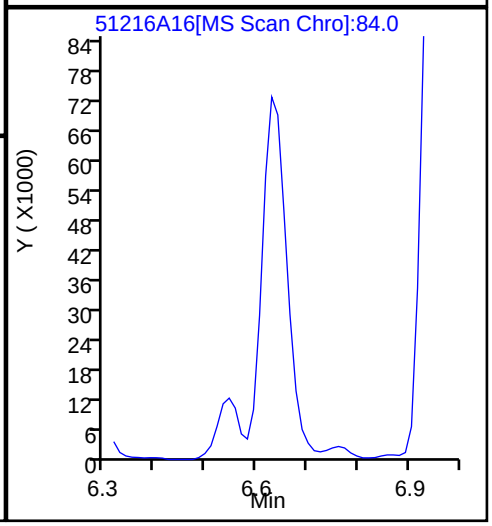










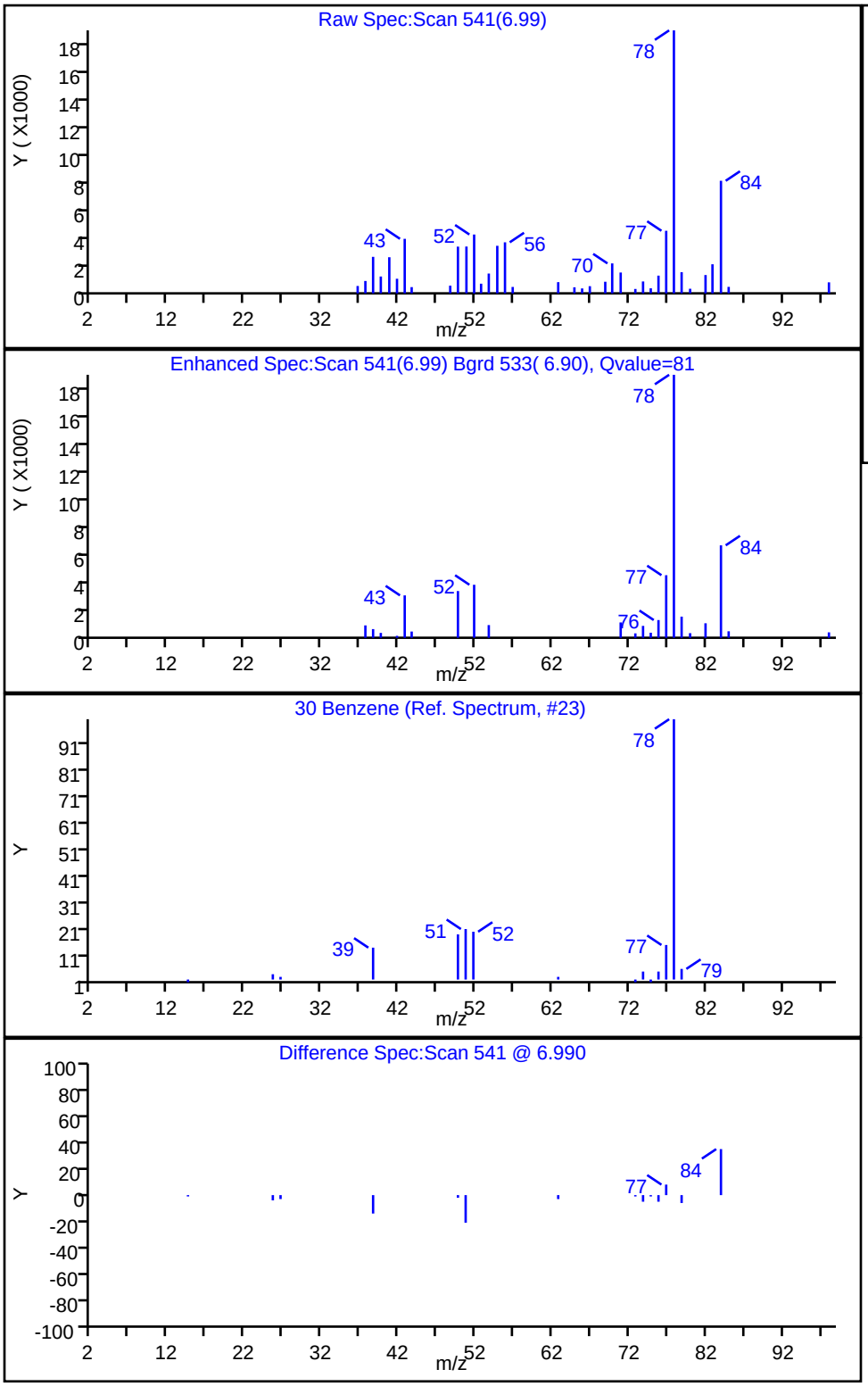


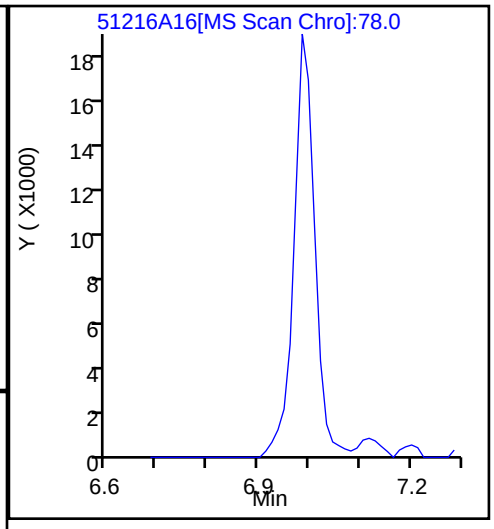
Report Date: 20-Dec-2015 12:53:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

30 Benzene



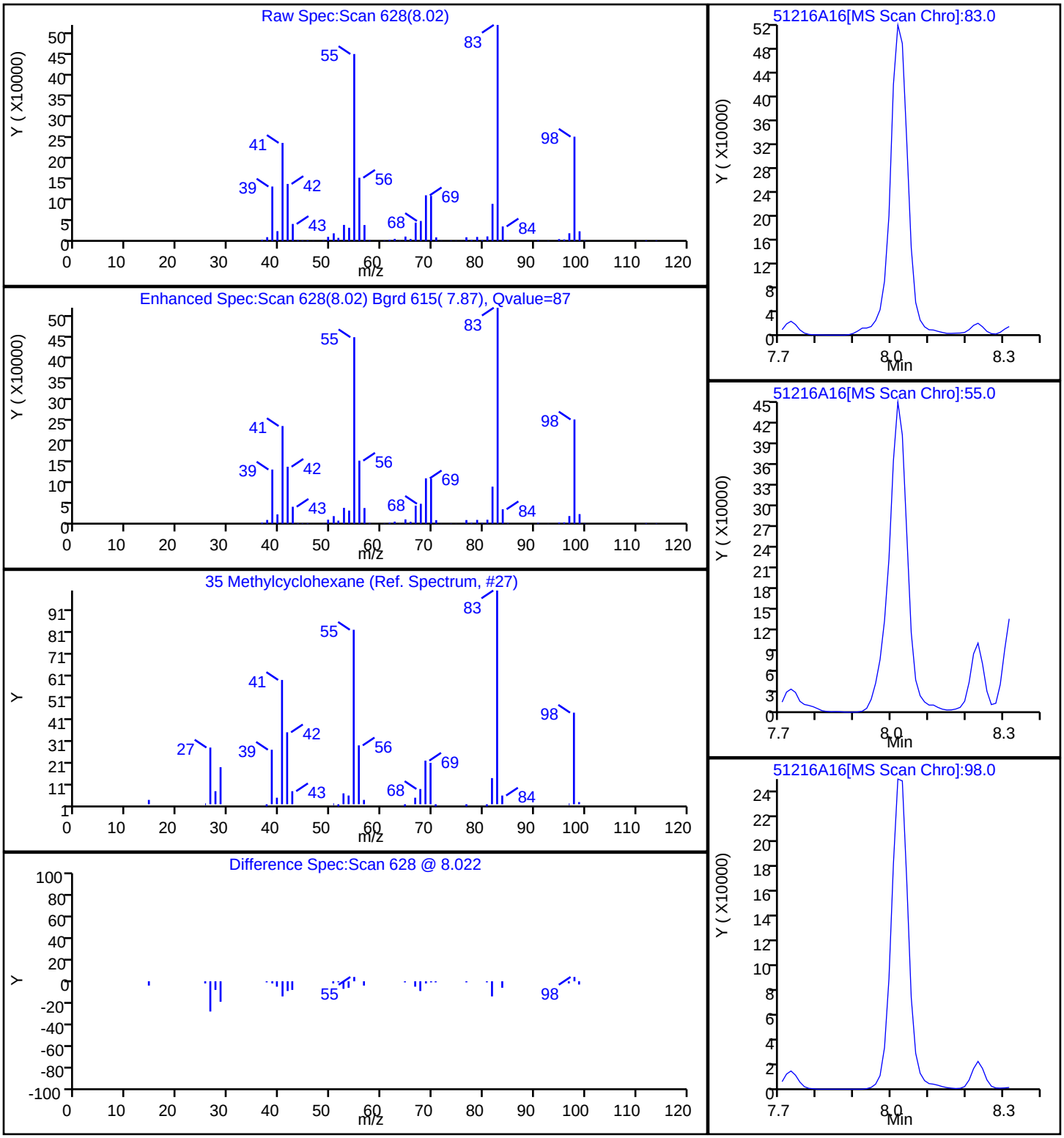


Report Date: 20-Dec-2015 12:53:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

35 Methylcyclohexane

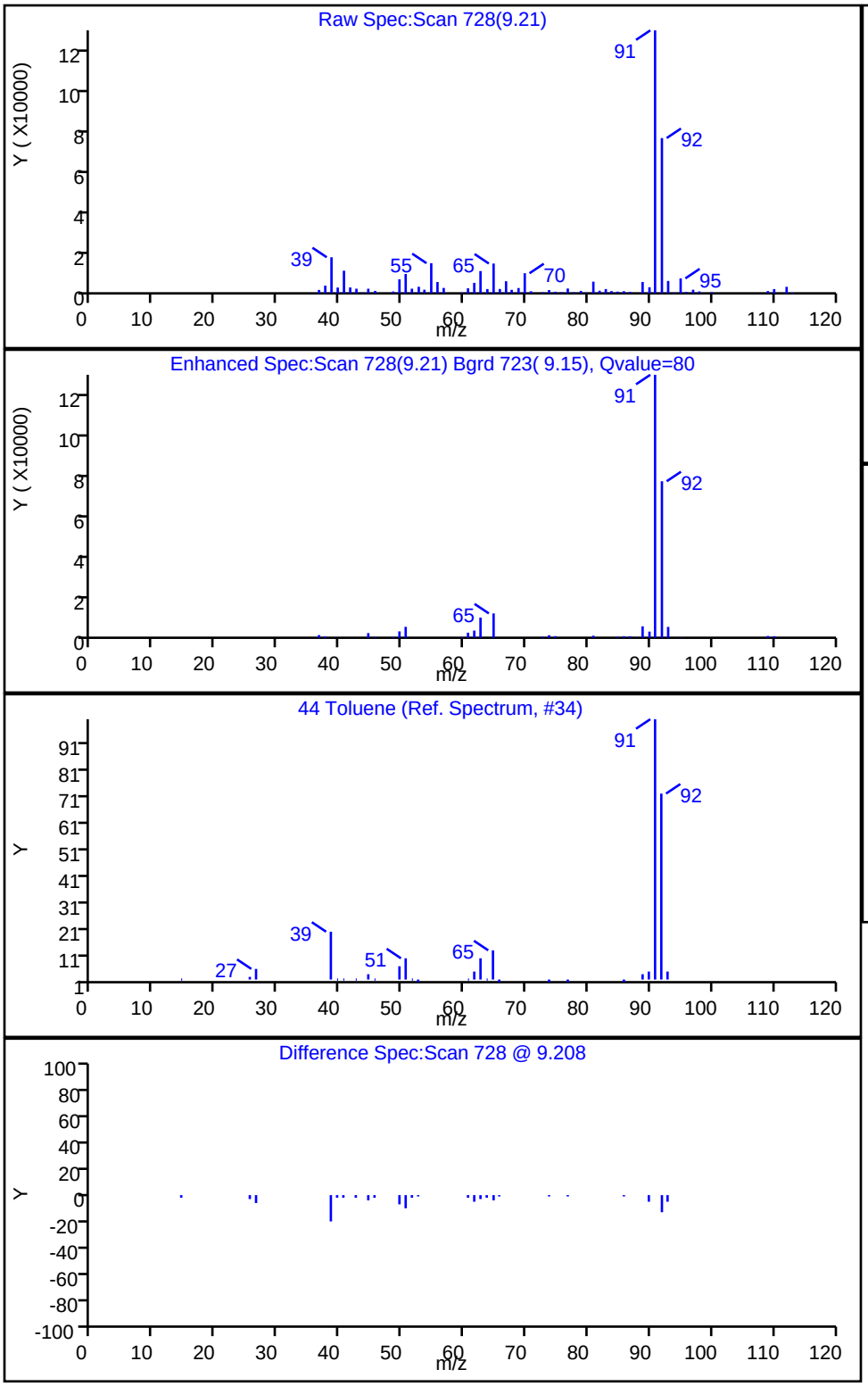


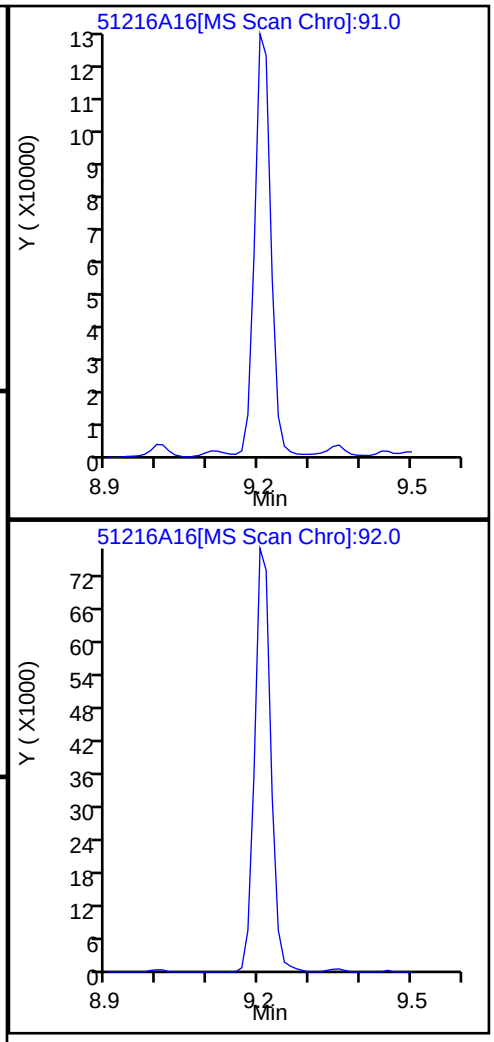
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

44 Toluene



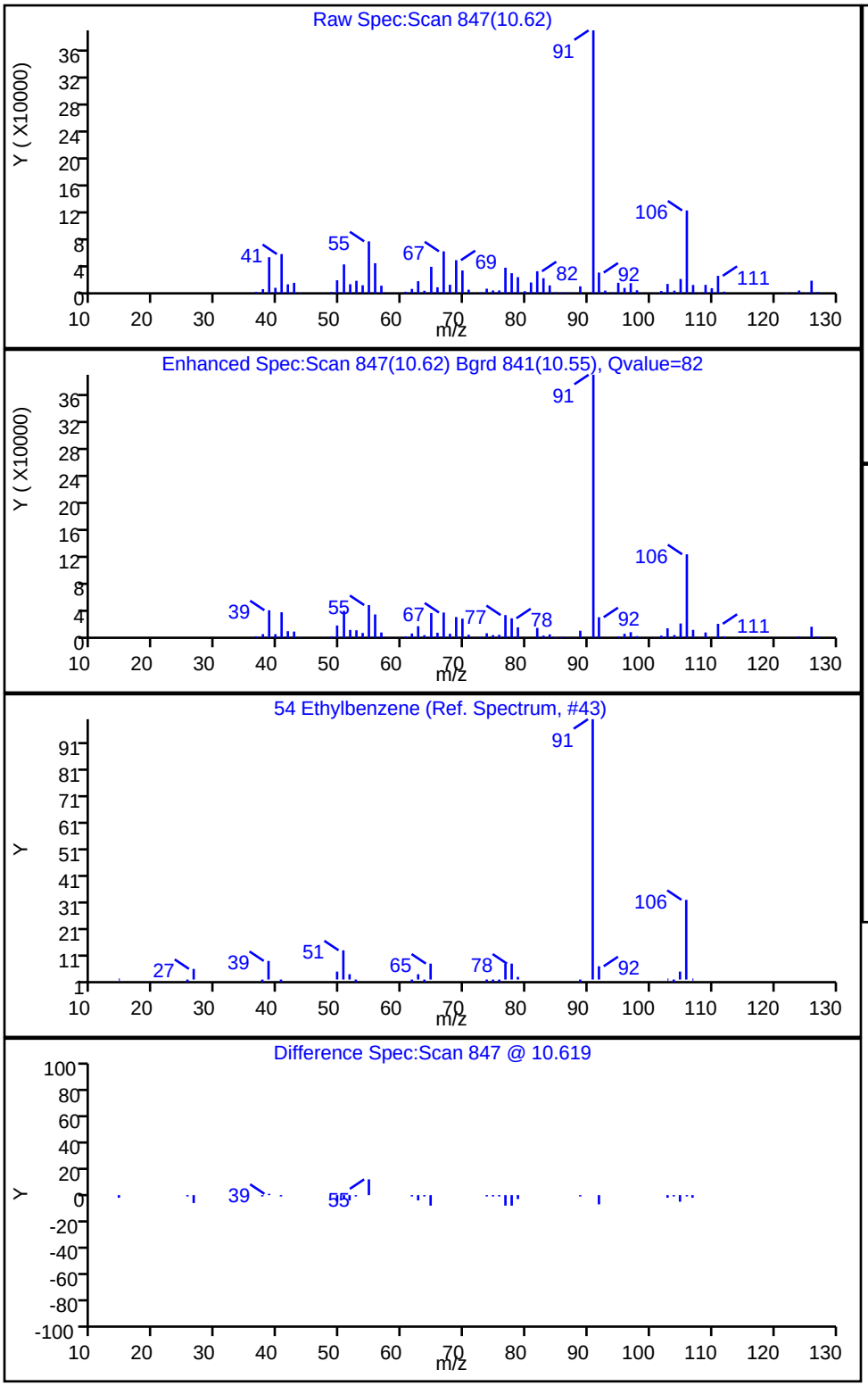


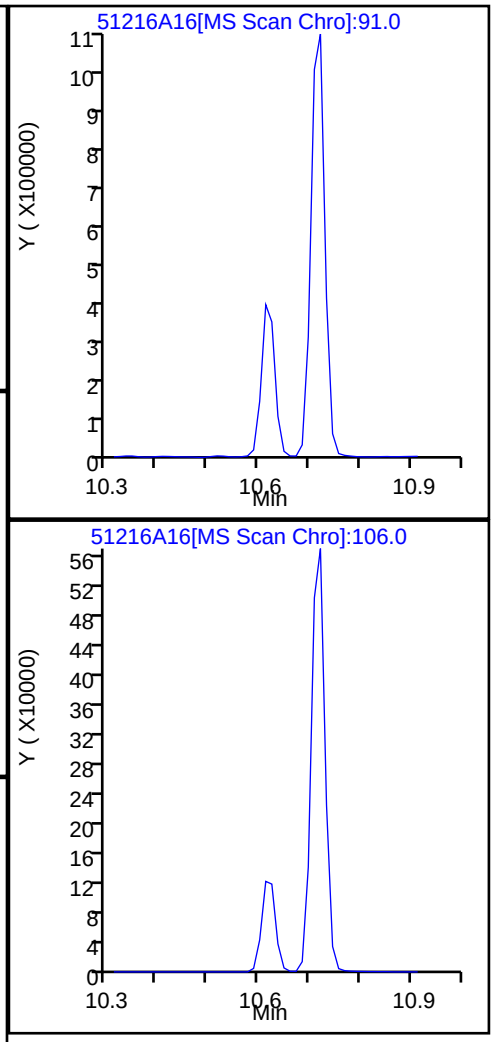
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

54 Ethylbenzene





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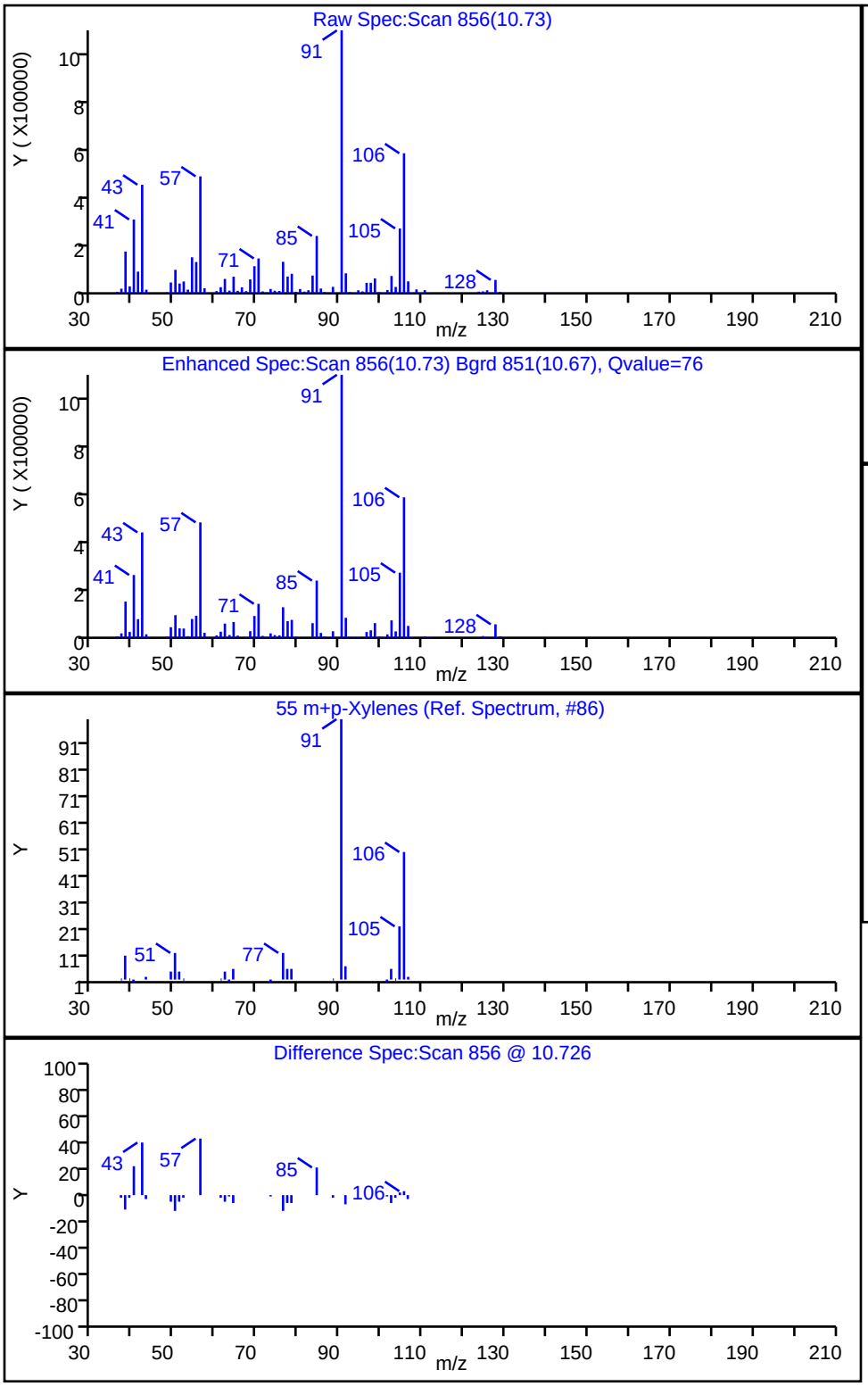
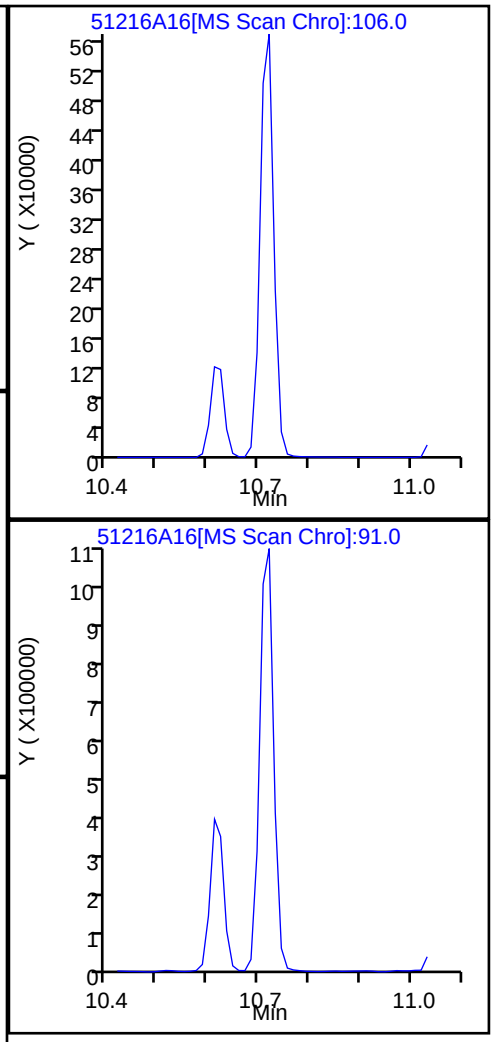
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

55 m+p-Xylenes





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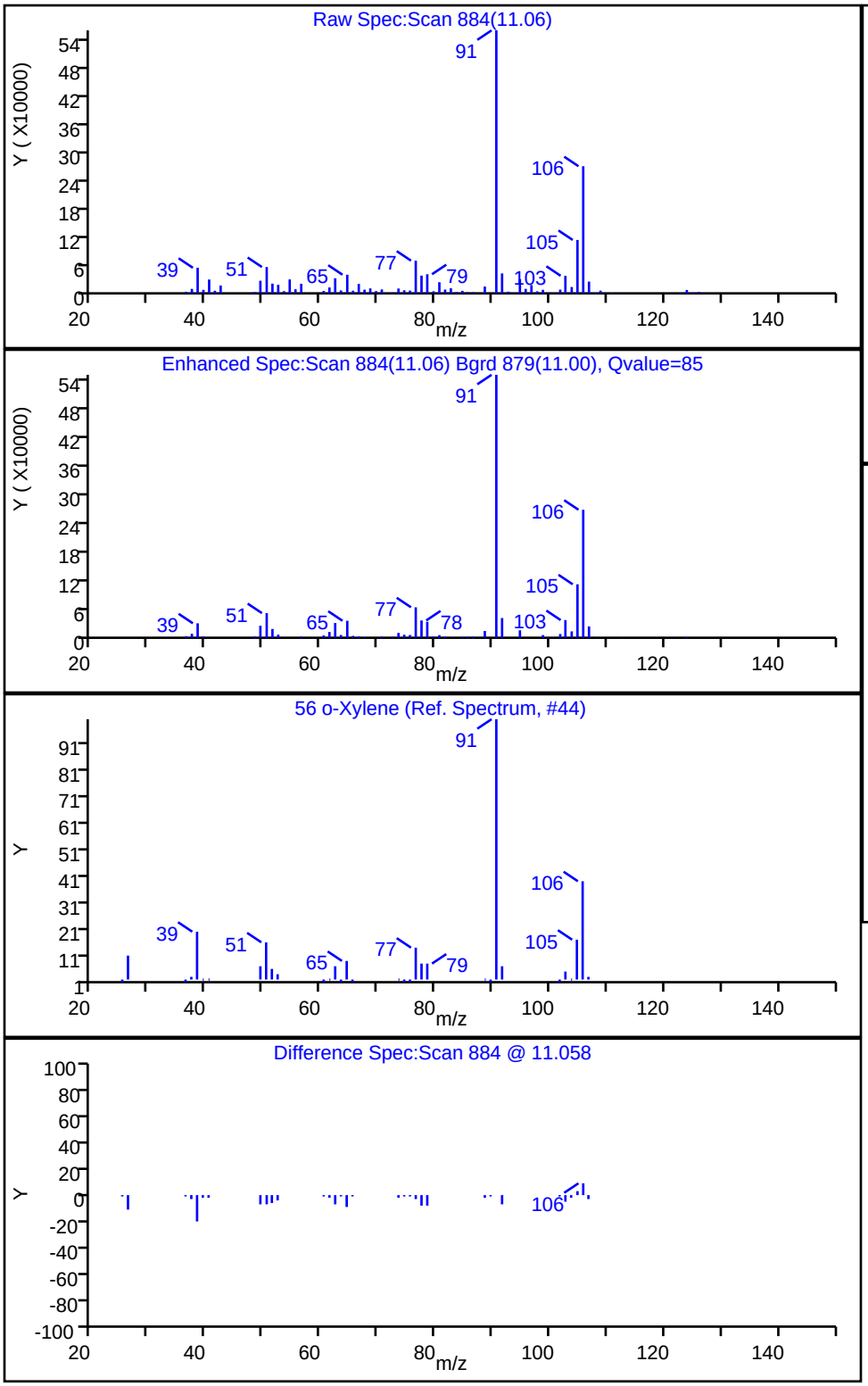
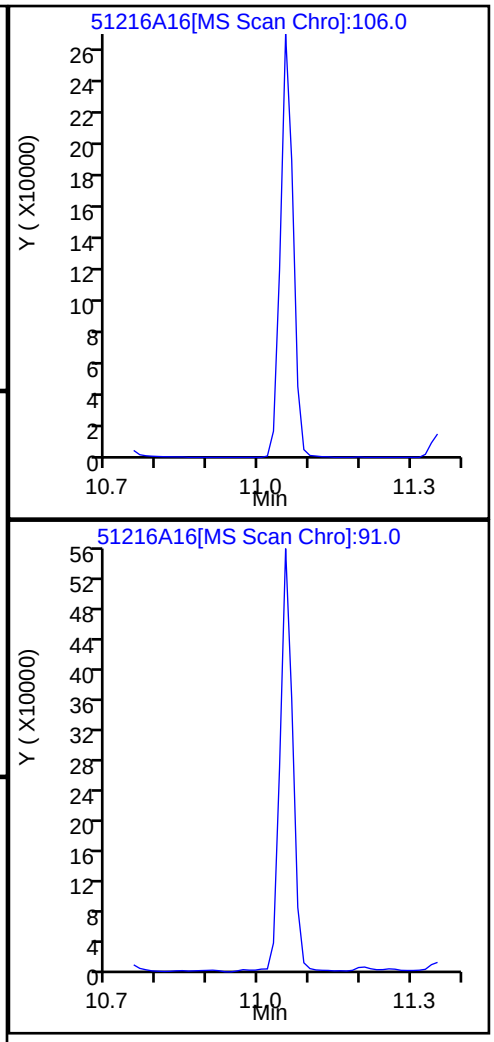
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

56 o-Xylene





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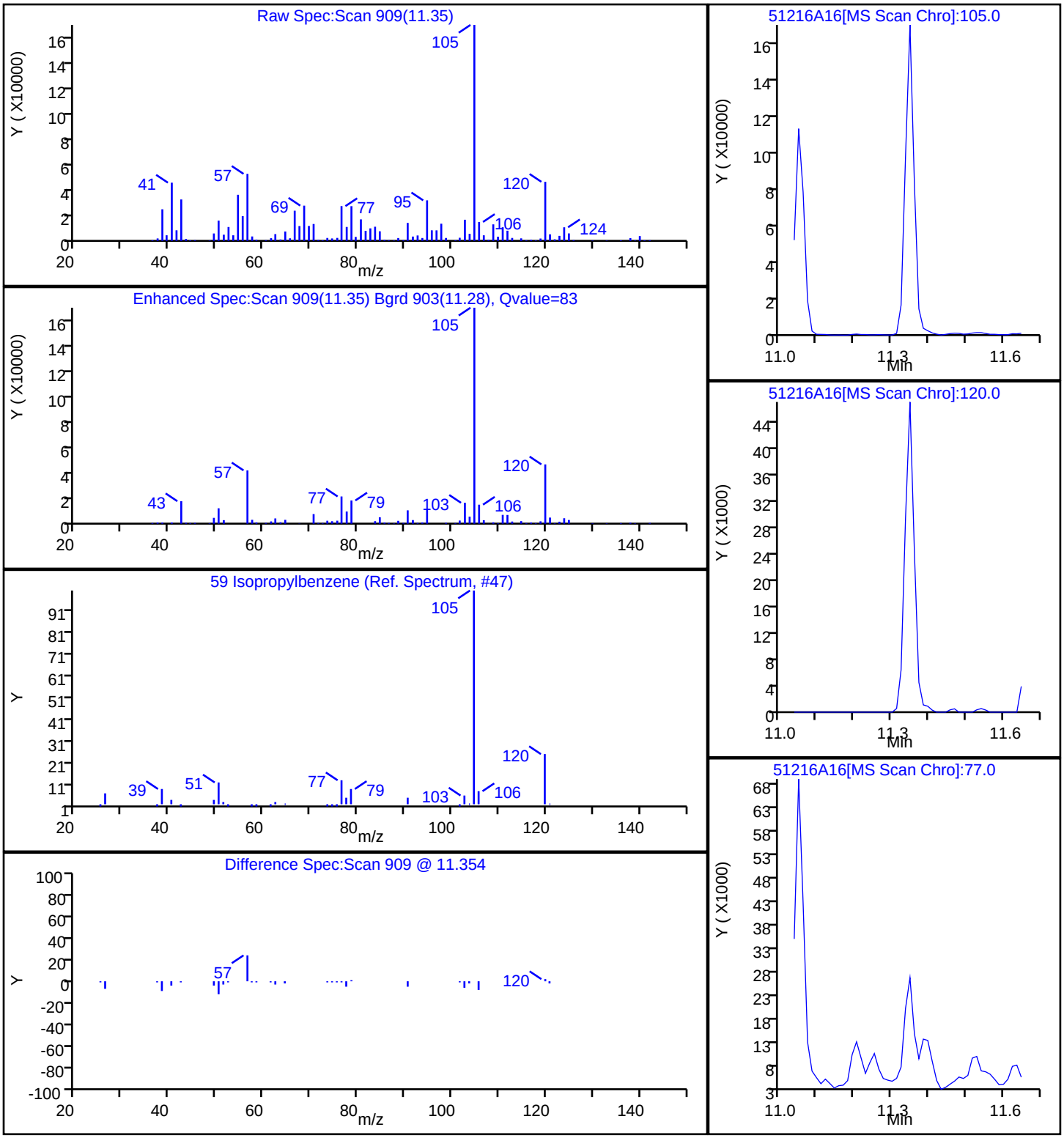
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

59 Isopropylbenzene



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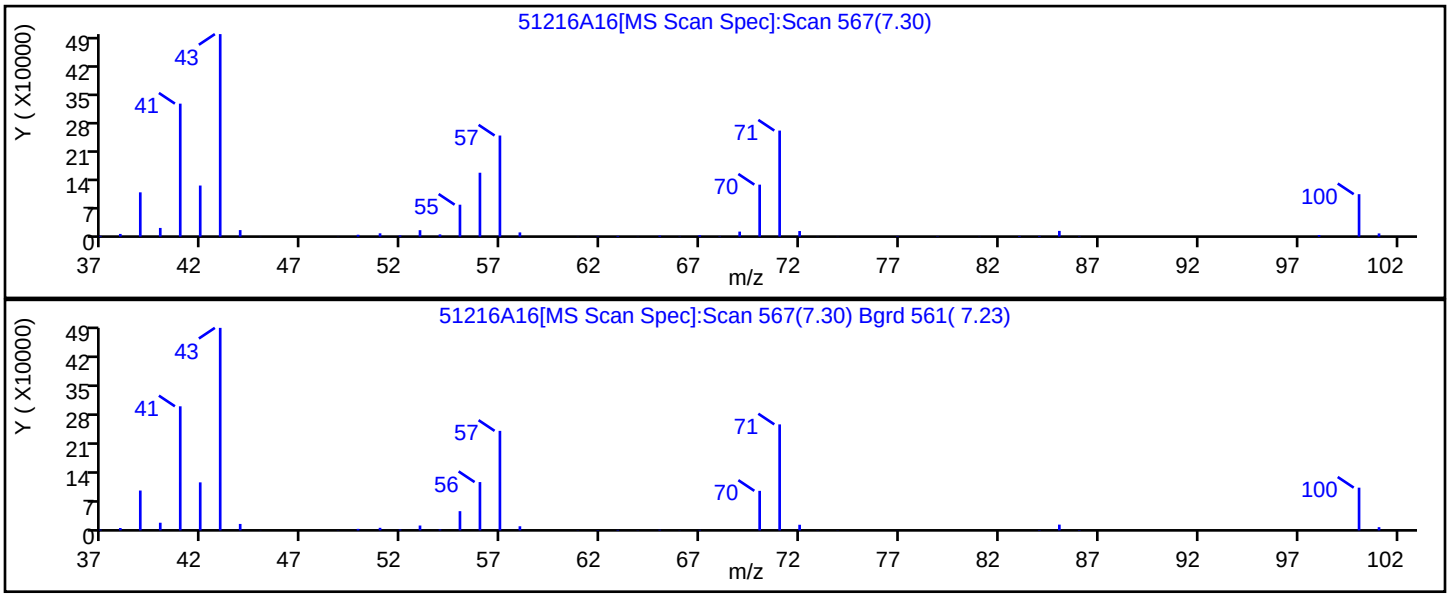
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 7.287

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



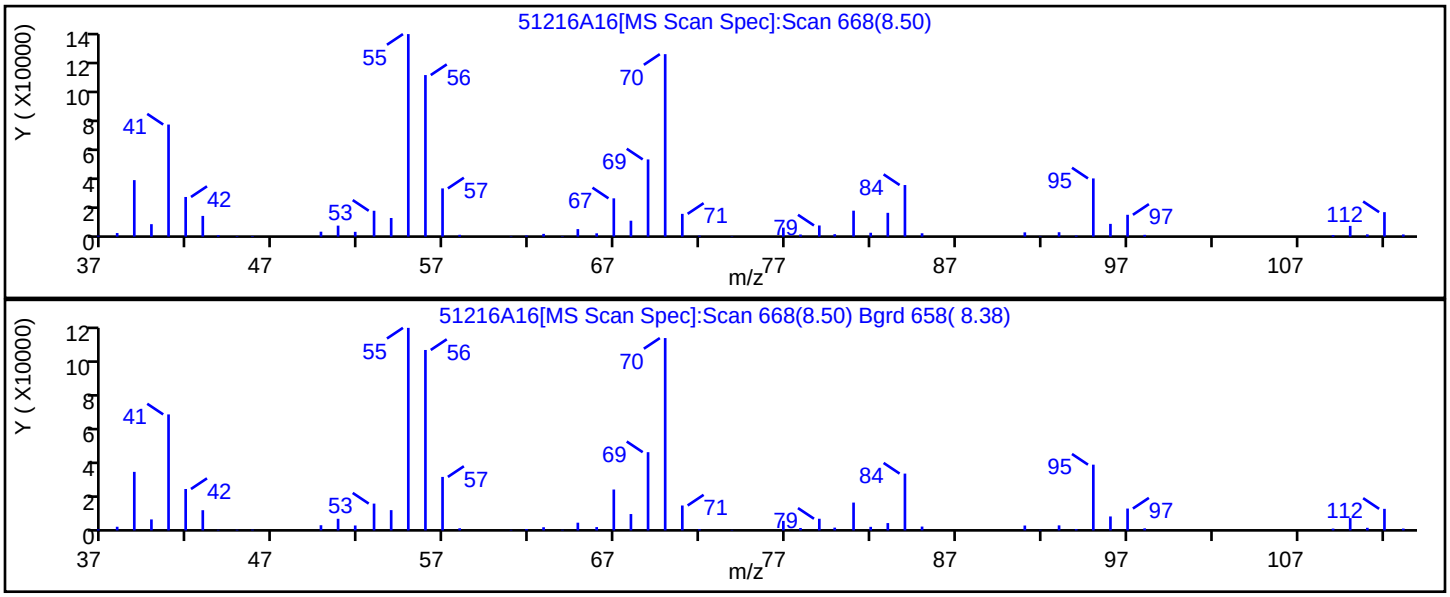
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 8.485

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



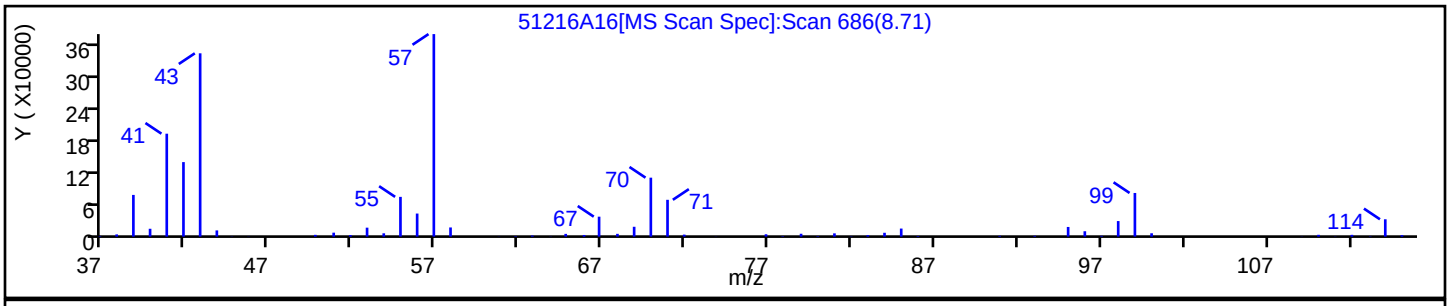
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

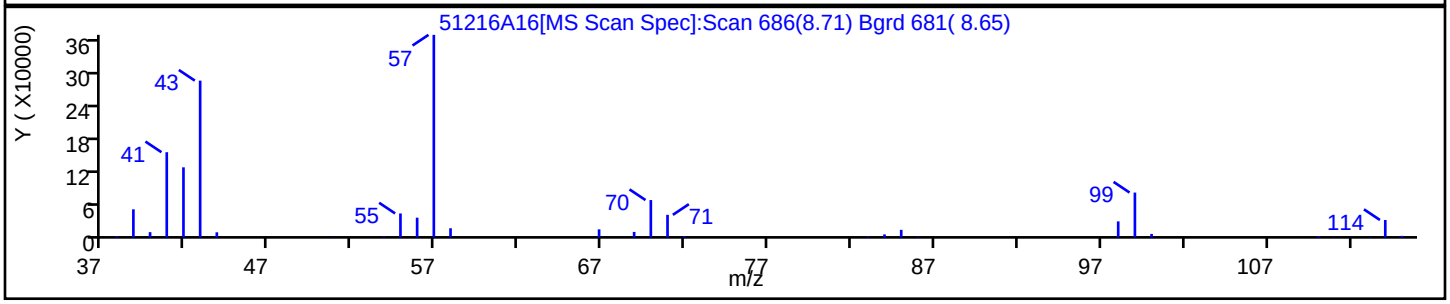
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 8.698

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





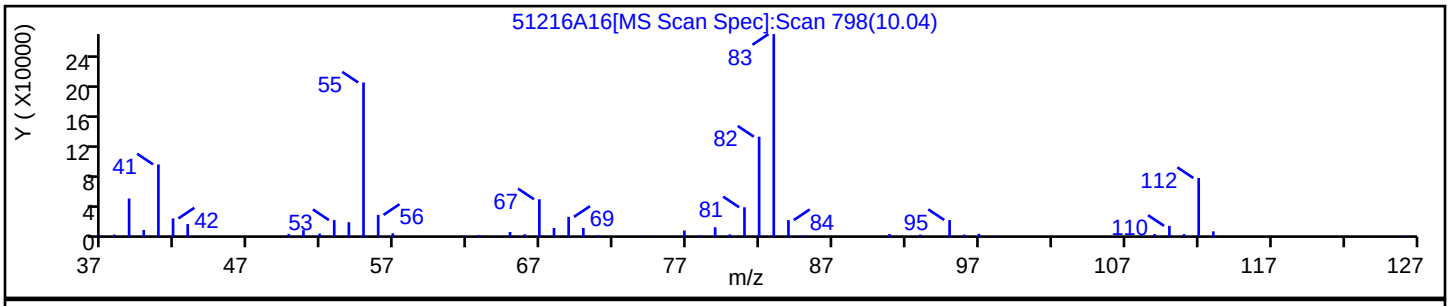
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

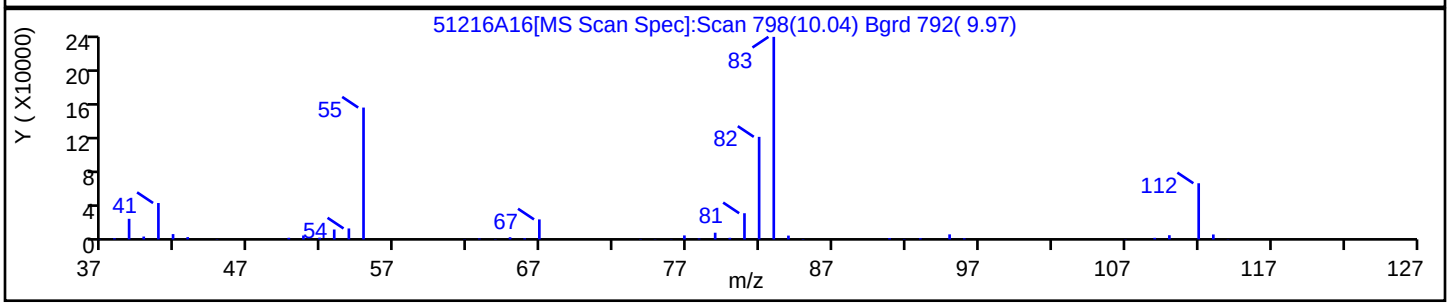
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.026

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





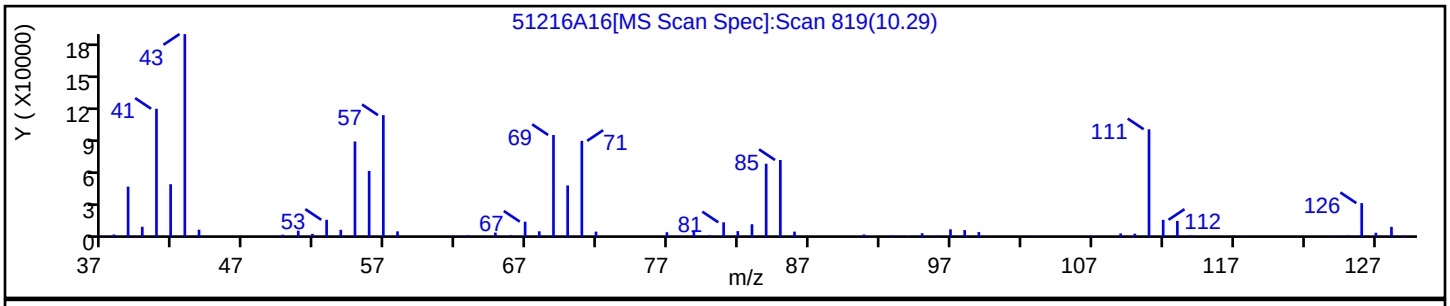
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

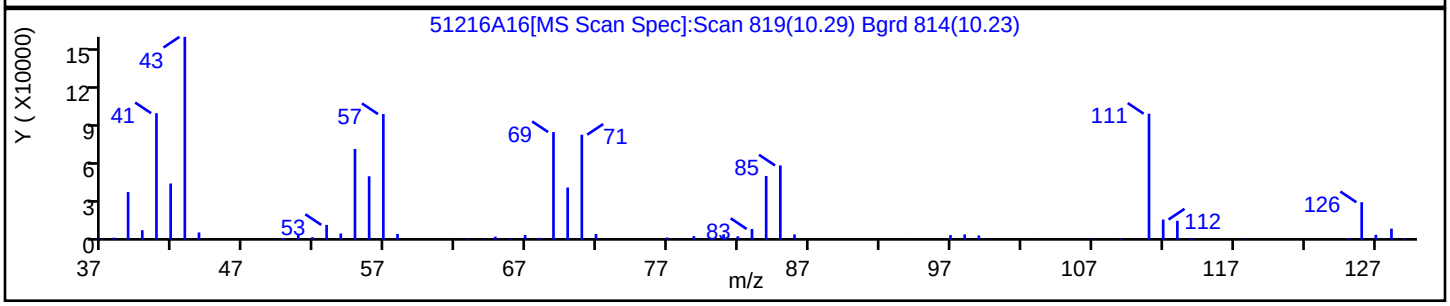
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.275

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





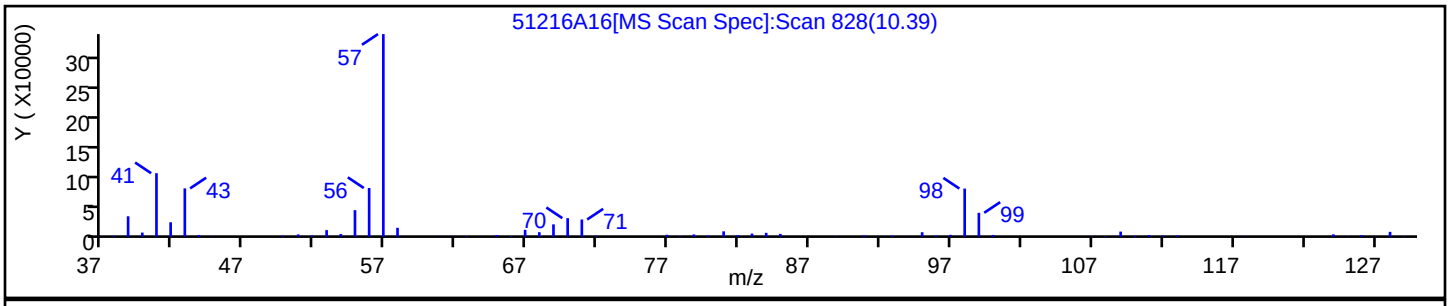
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

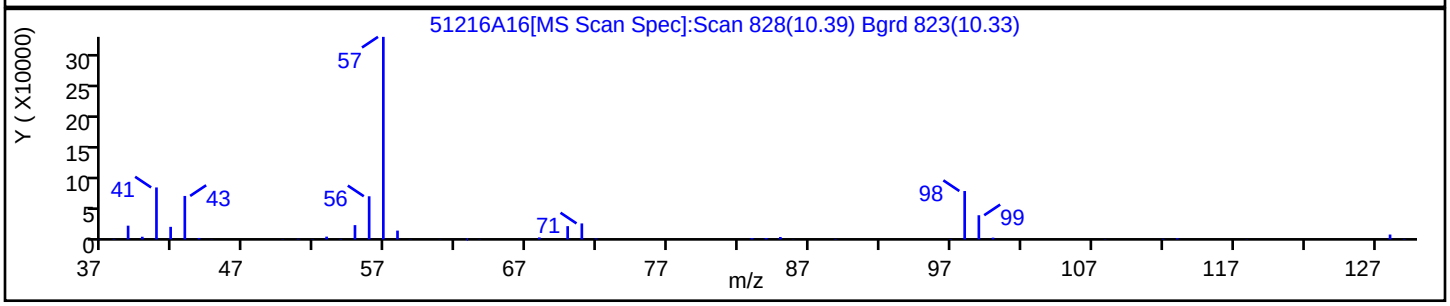
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.382

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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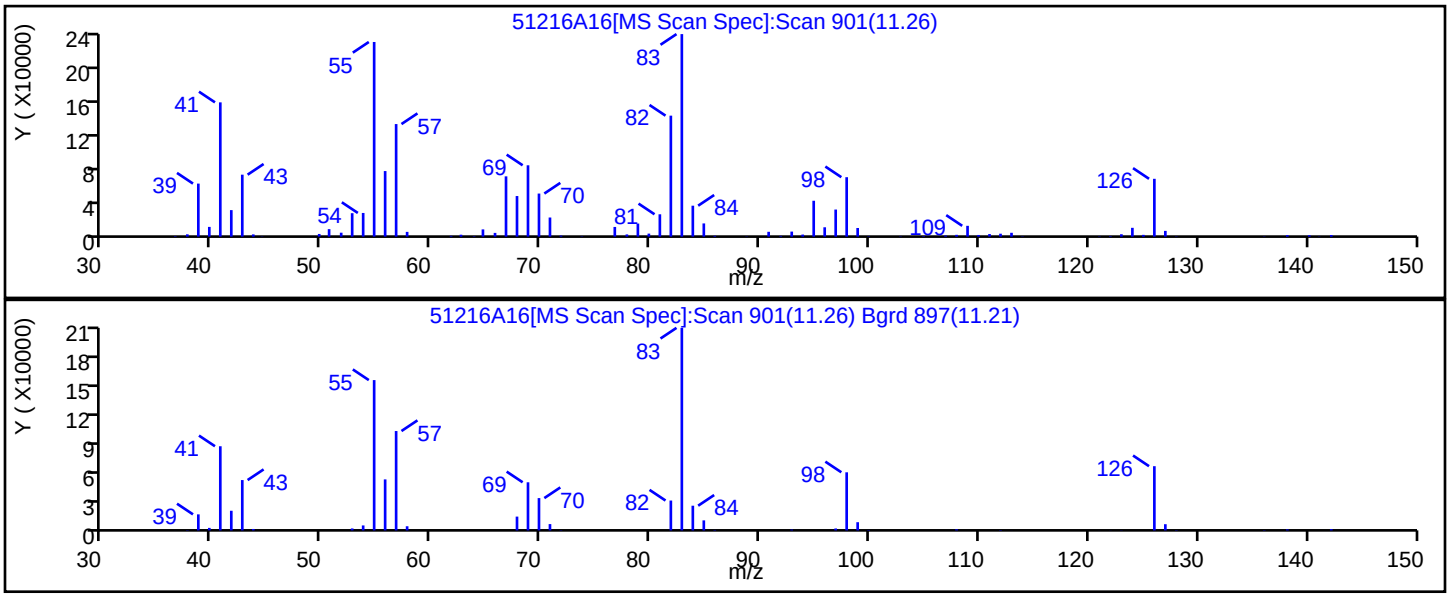
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.248

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



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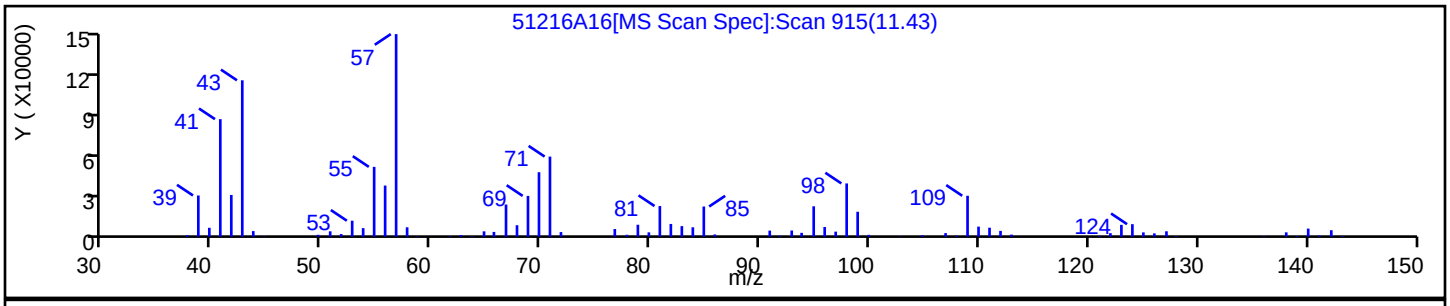
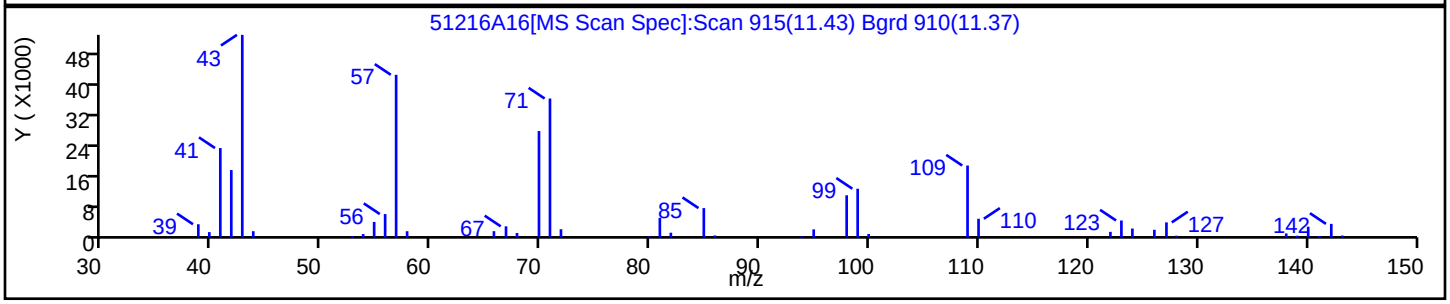
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.414

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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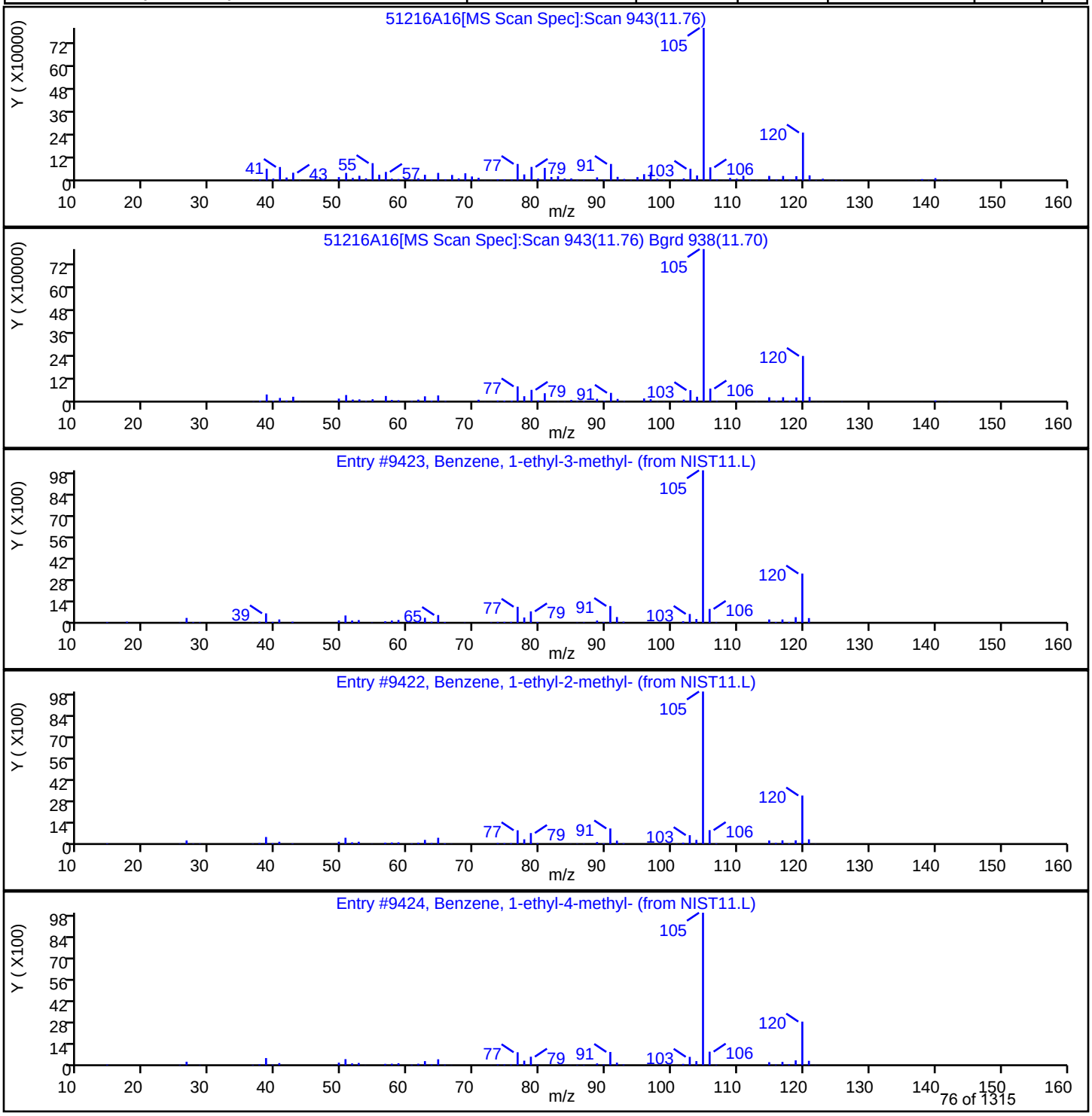
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.746

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST11	9423	C9H12	120	97
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST11	9422	C9H12	120	95
Benzene, 1-ethyl-4-methyl-	622-96-8	NIST11	9424	C9H12	120	91



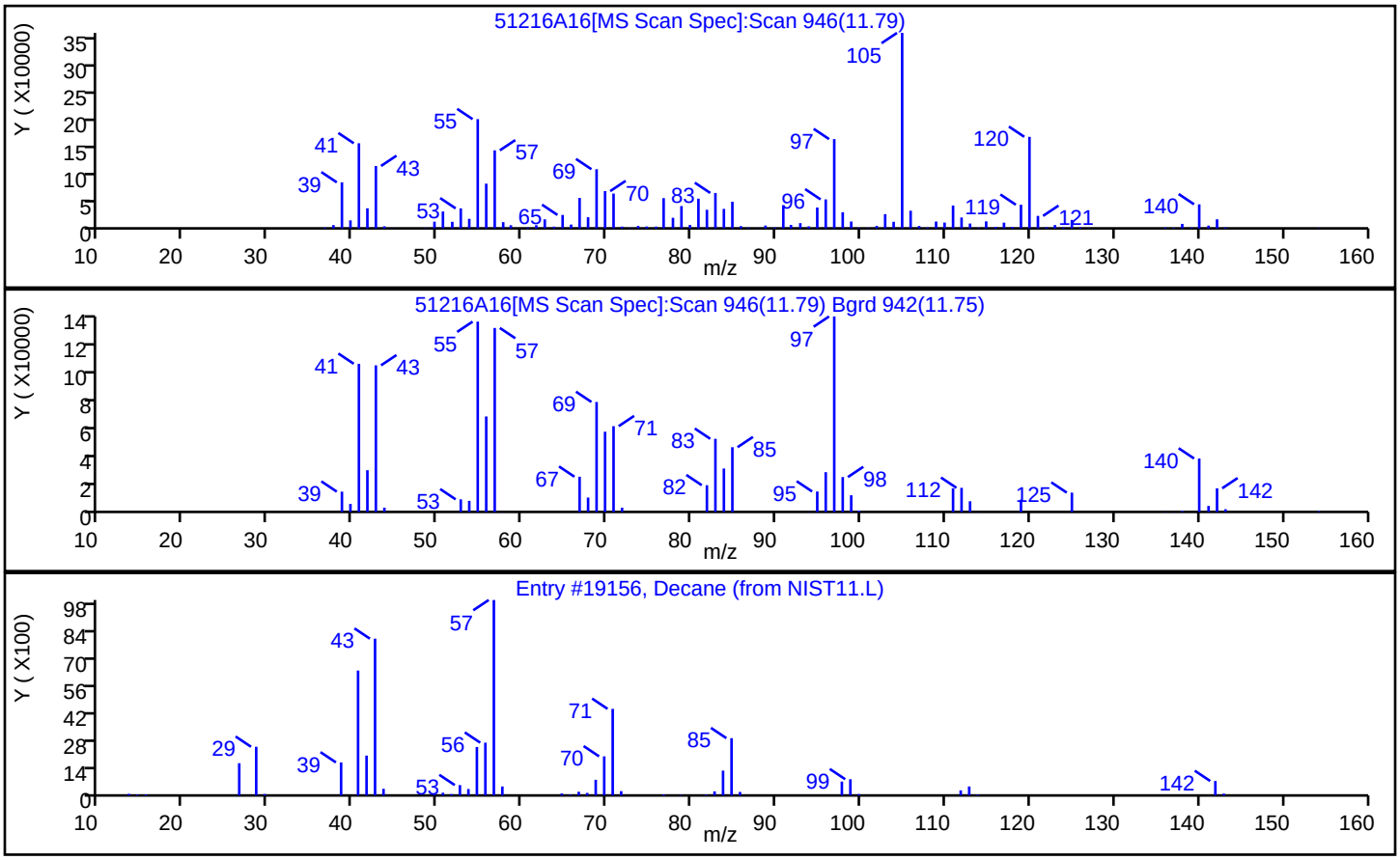
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.781

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Decane	124-18-5	NIST11	19156	C10H22	142	89



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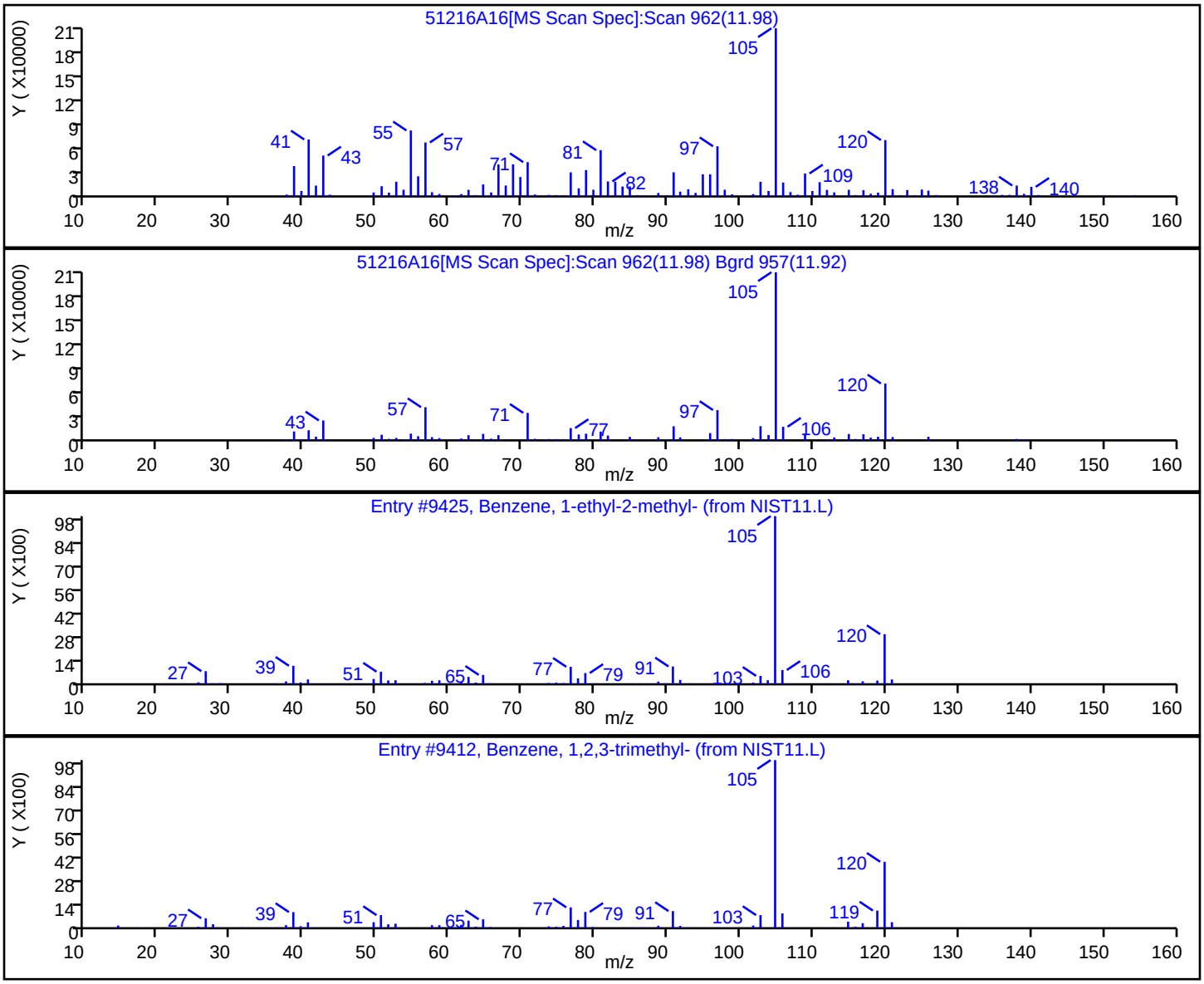
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.971

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST11	9425	C9H12	120	94
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9412	C9H12	120	93



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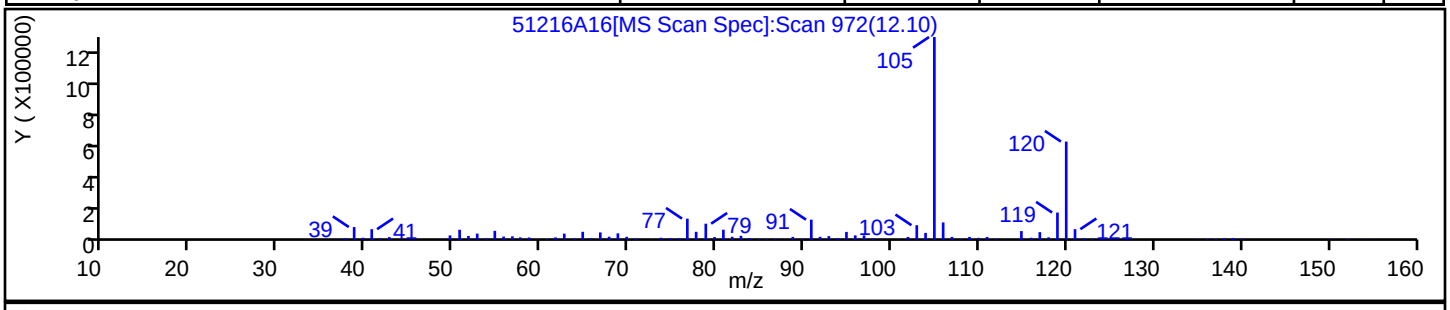
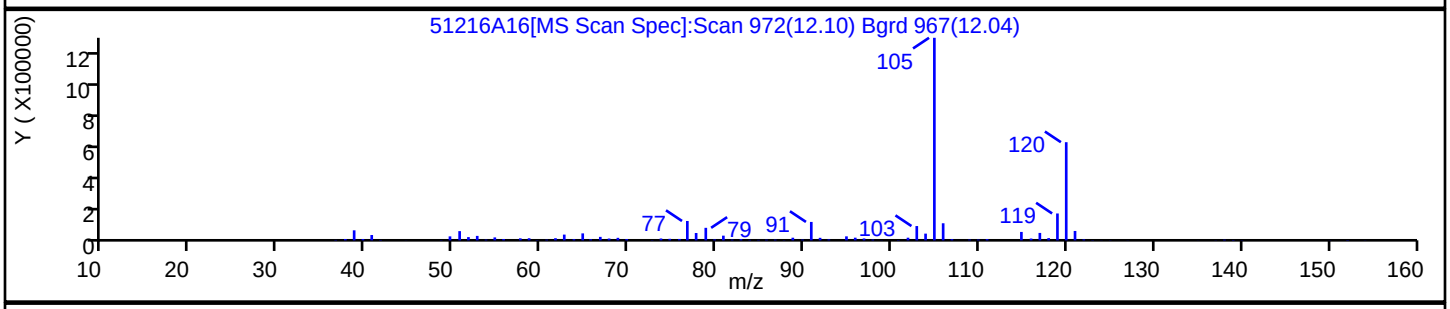
Shealy Environmental Services

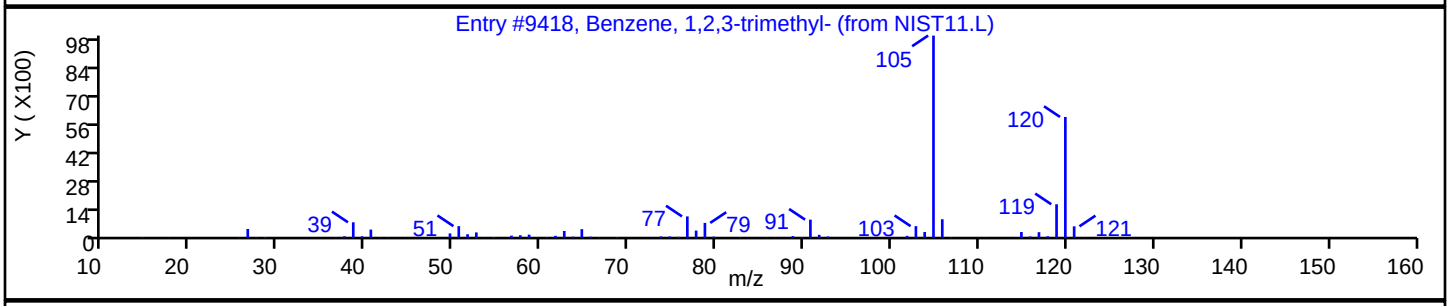
Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

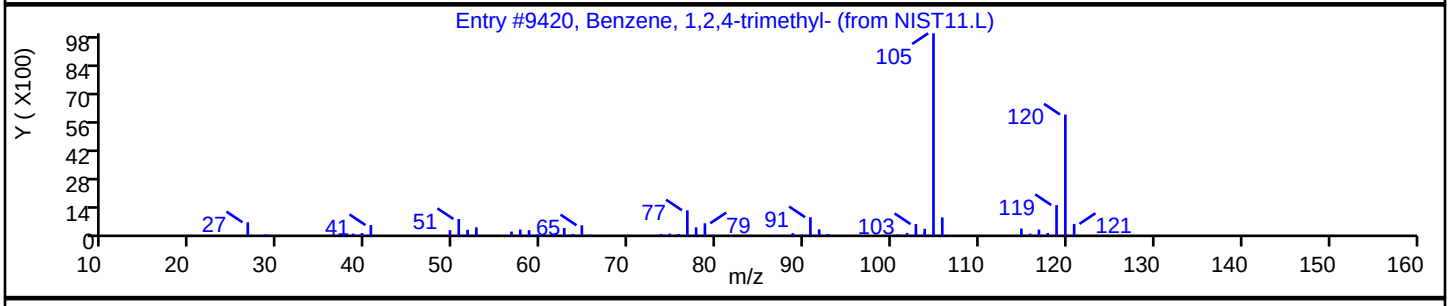
TIC @ 12.090

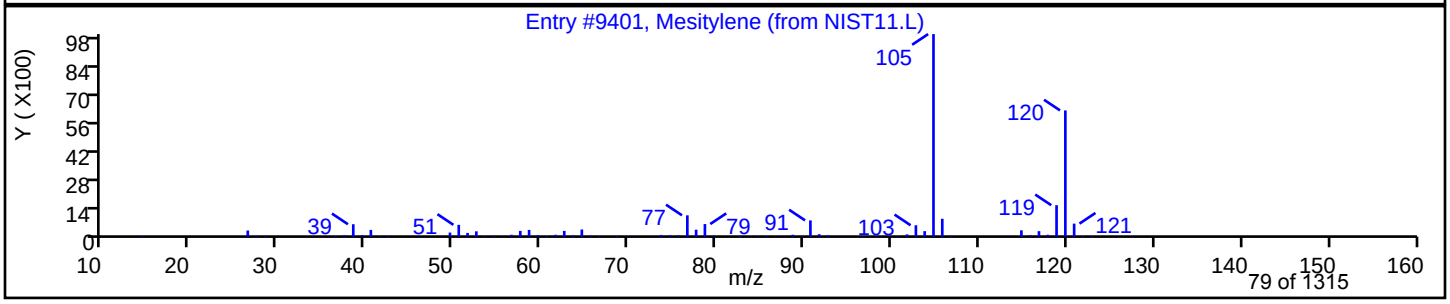
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9418	C9H12	120	97
Benzene, 1,2,4-trimethyl-	95-63-6	NIST11	9420	C9H12	120	95
Mesitylene	108-67-8	NIST11	9401	C9H12	120	95











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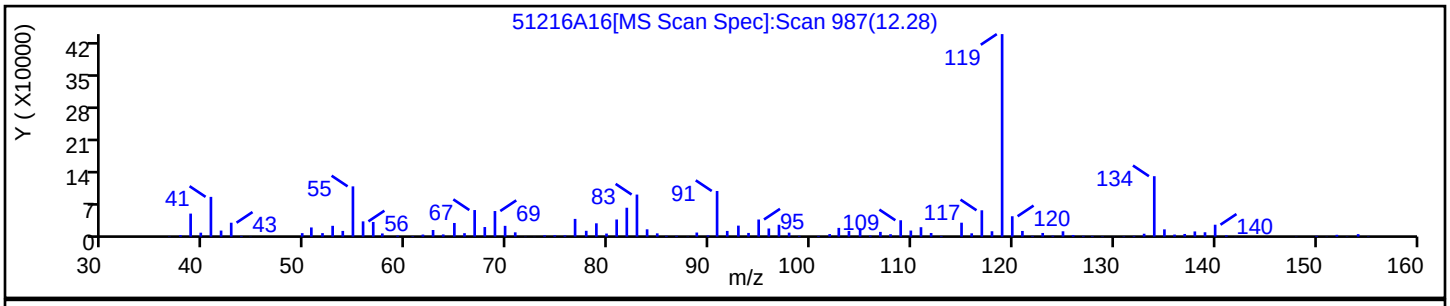
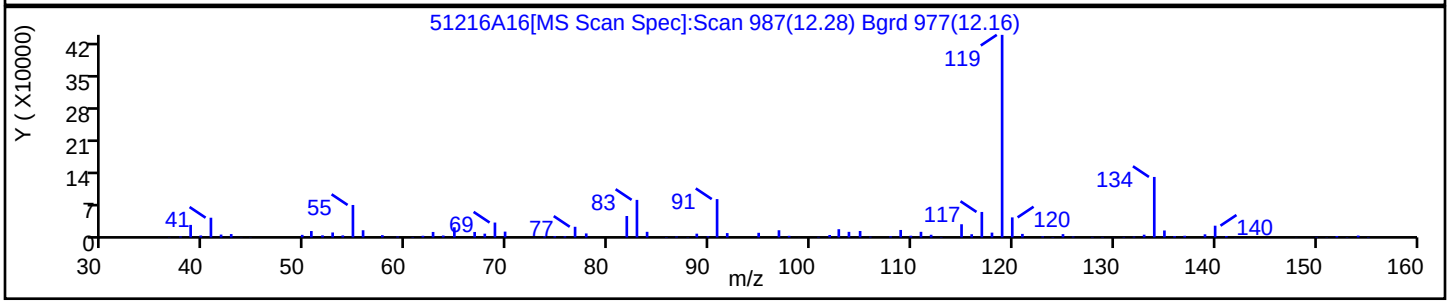
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.267

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





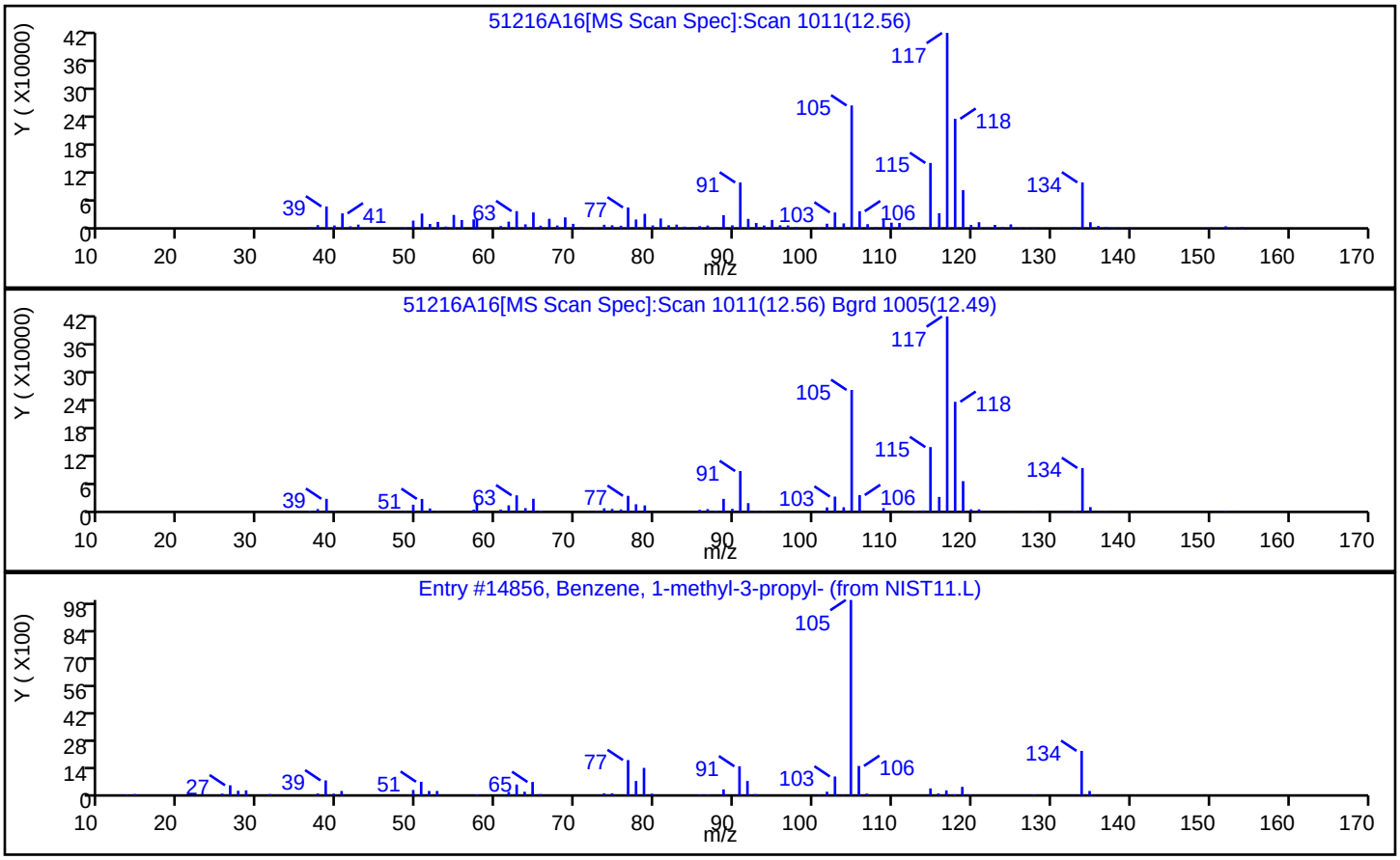
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.552

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-methyl-3-propyl-	1074-43-7	NIST11	14856	C10H14	134	93



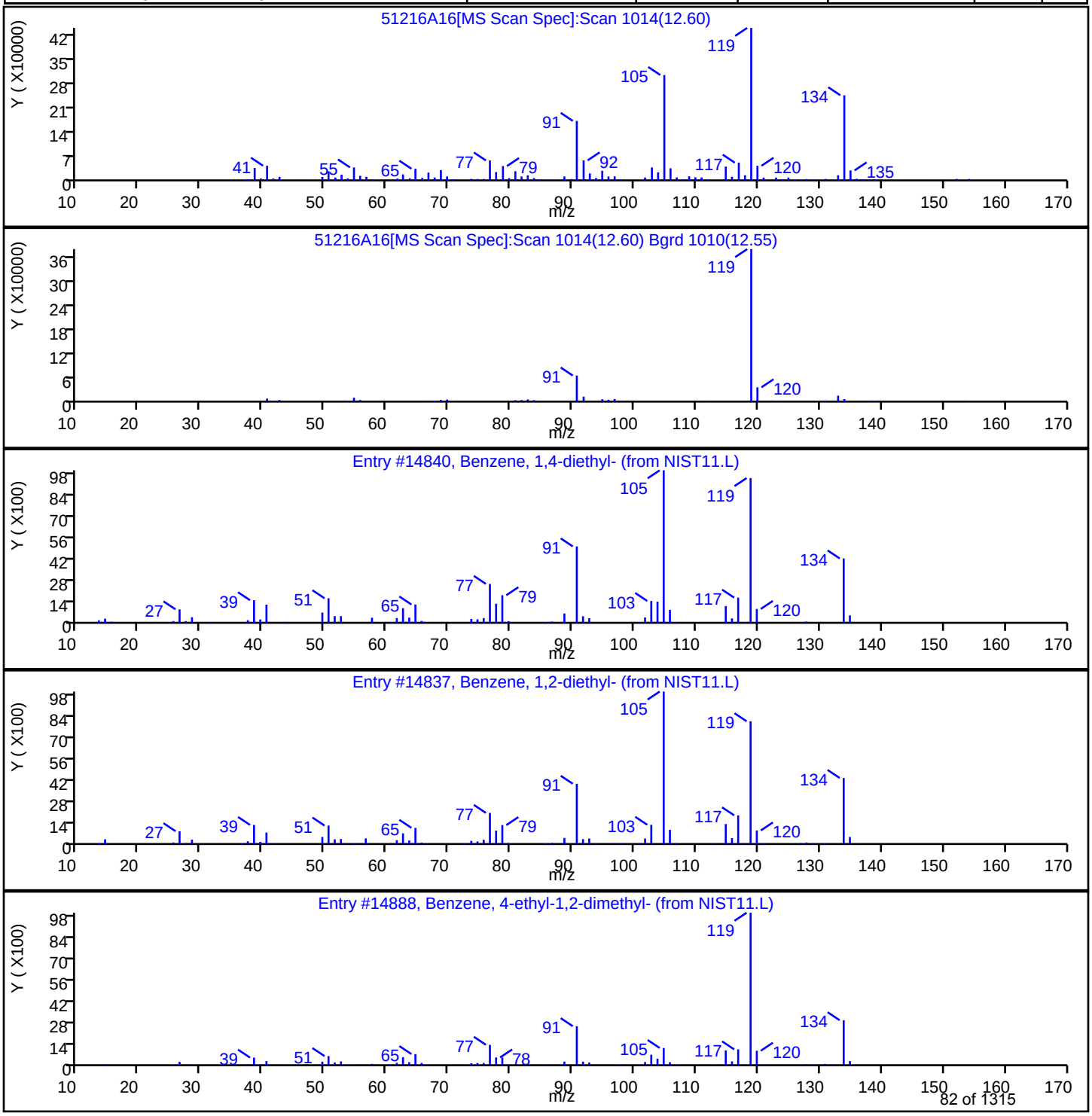
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.588

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,4-diethyl-	105-05-5	NIST11	14840	C10H14	134	94
Benzene, 1,2-diethyl-	135-01-3	NIST11	14837	C10H14	134	93
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST11	14888	C10H14	134	91



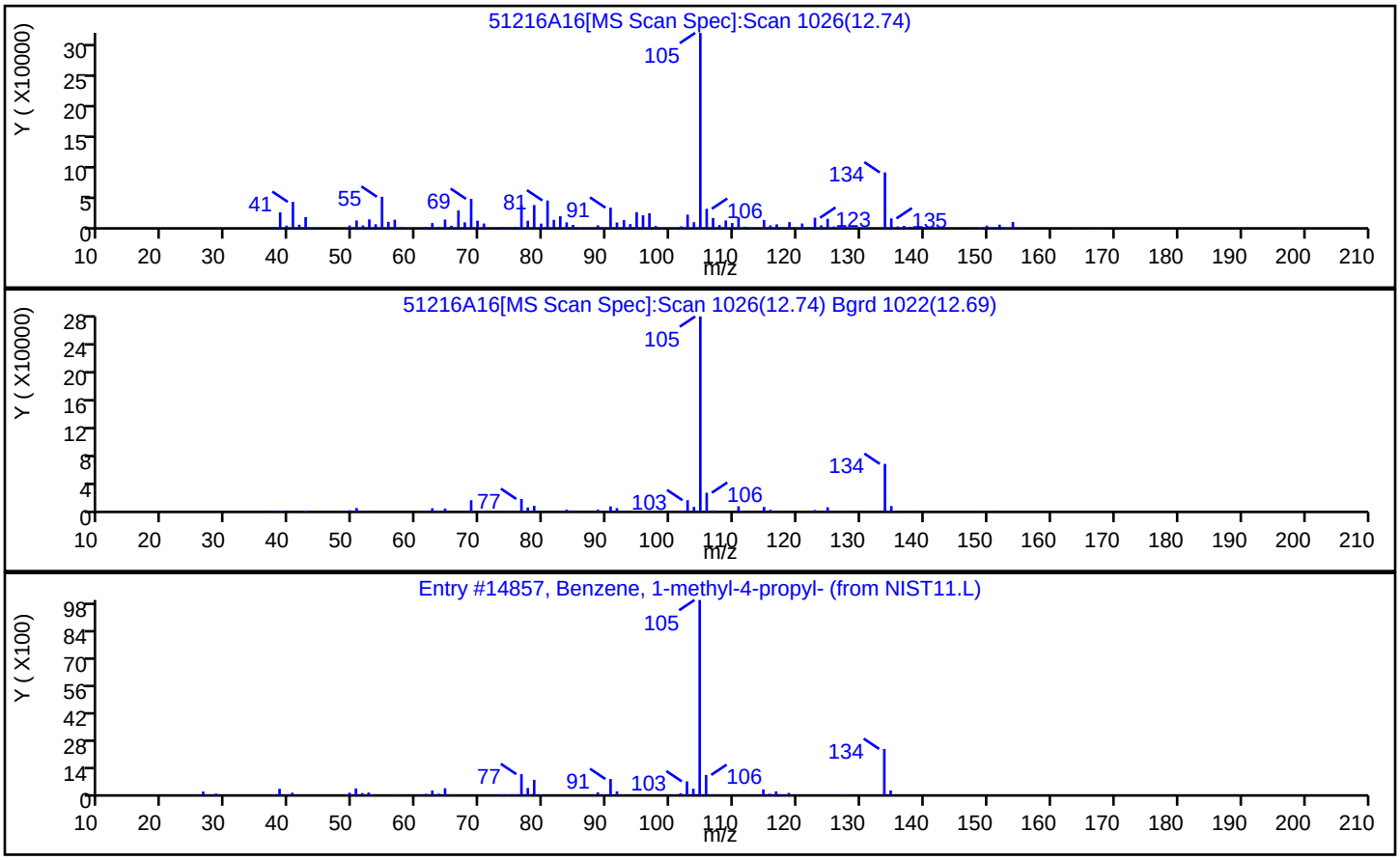
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.730

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-methyl-4-propyl-	1074-55-1	NIST11	14857	C10H14	134	92



Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

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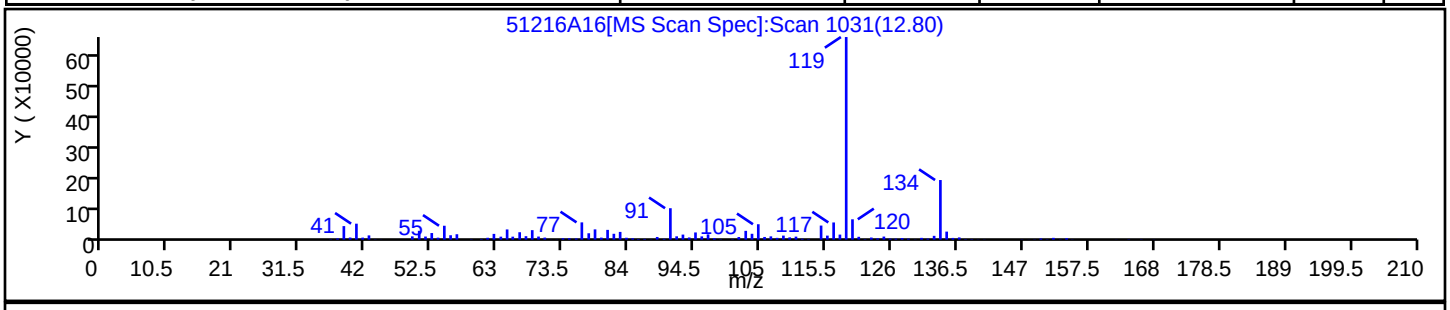
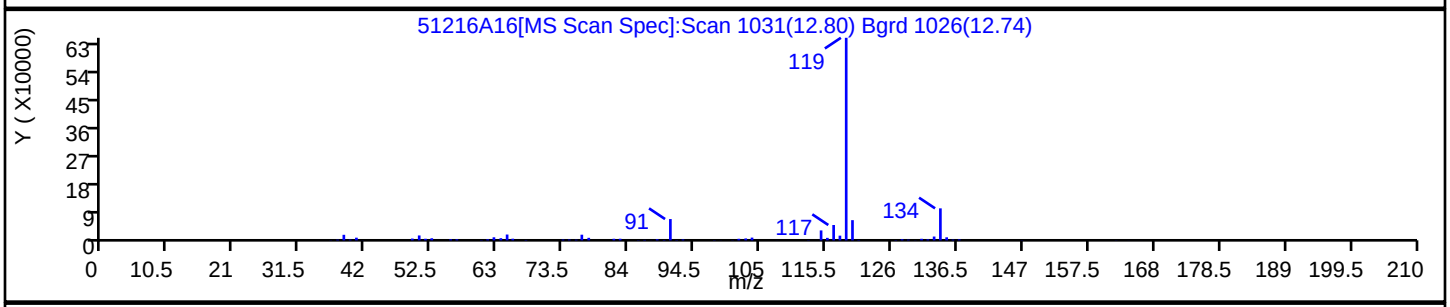
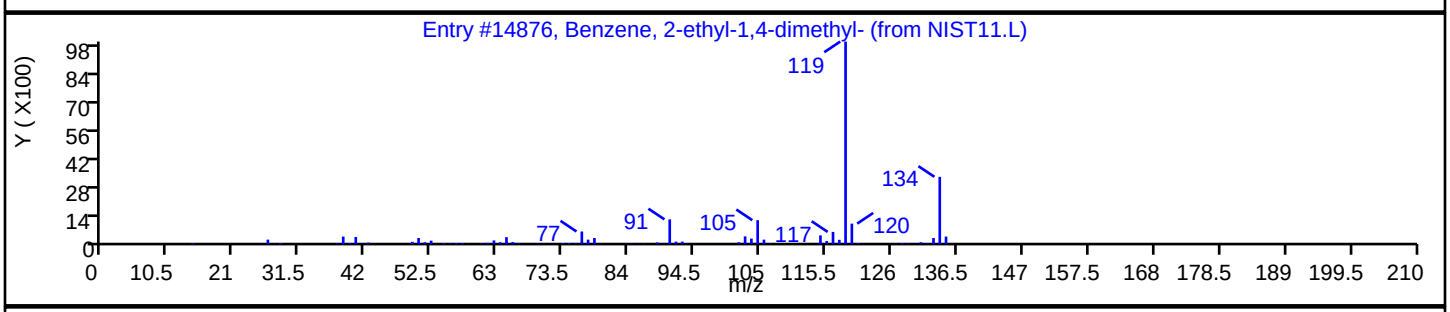
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

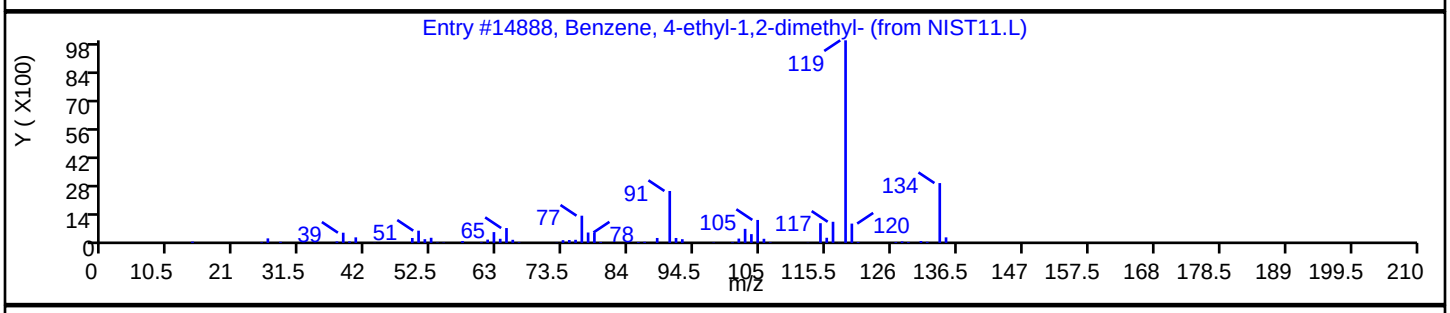
TIC @ 12.789

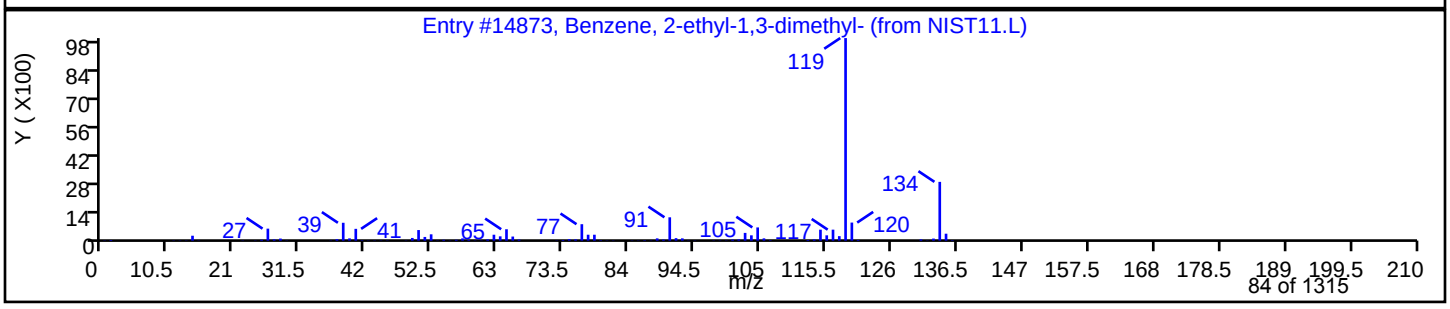
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIST11	14876	C10H14	134	97
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST11	14888	C10H14	134	96
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NIST11	14873	C10H14	134	95











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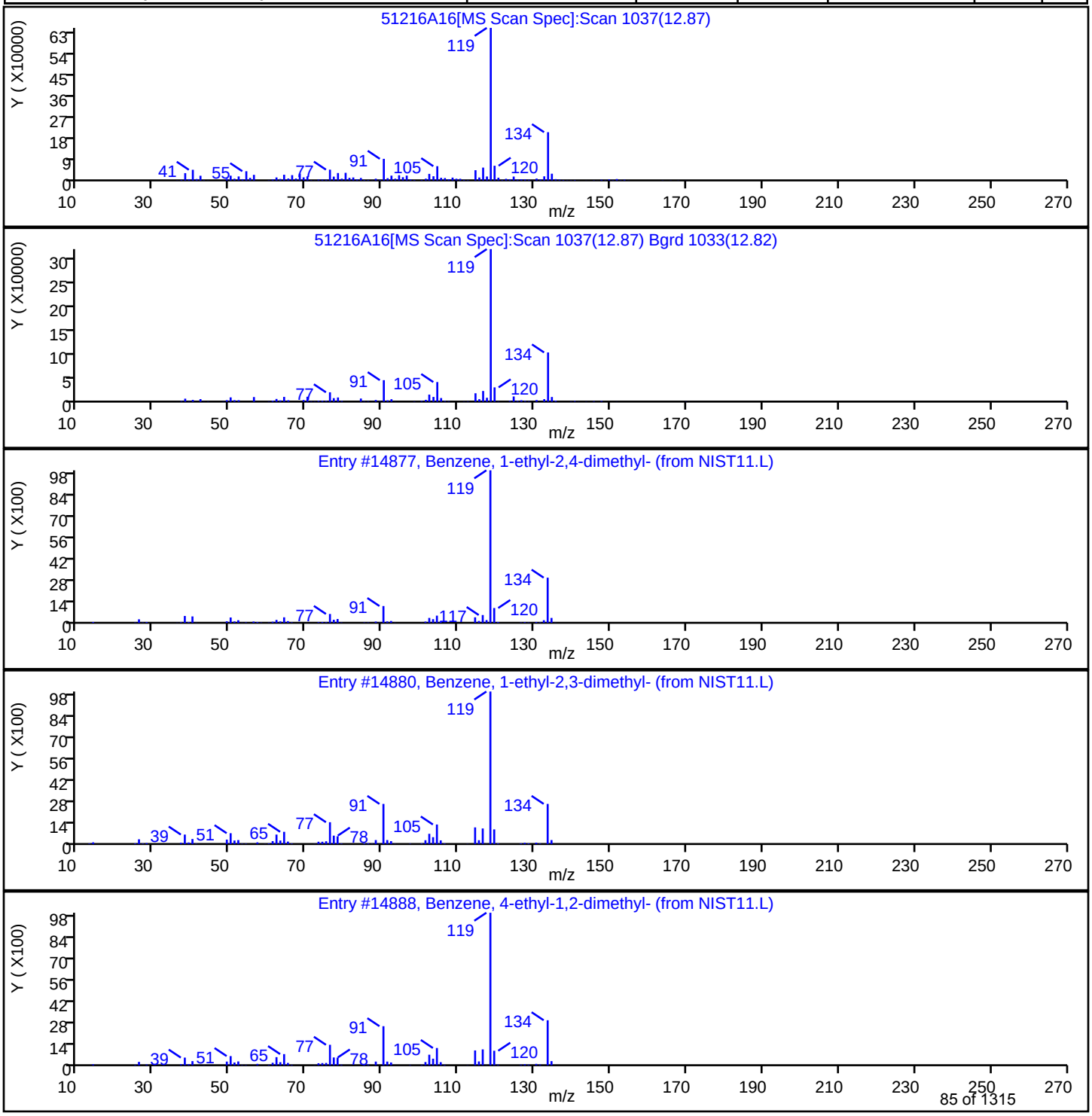
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.860

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIST11	14877	C10H14	134	97
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST11	14880	C10H14	134	96
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST11	14888	C10H14	134	96



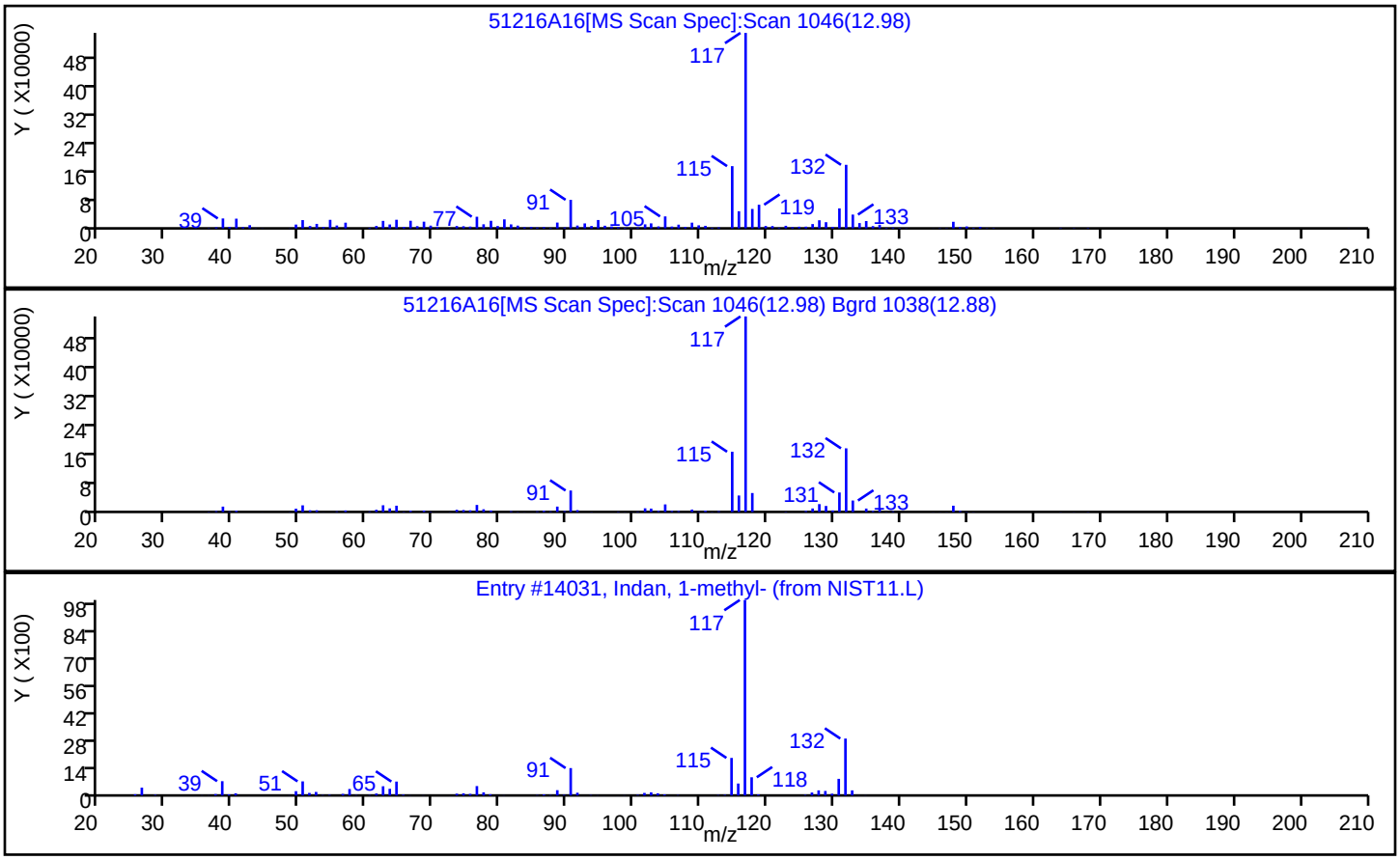
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.967

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Indan, 1-methyl-	767-58-8	NIST11	14031	C10H12	132	94



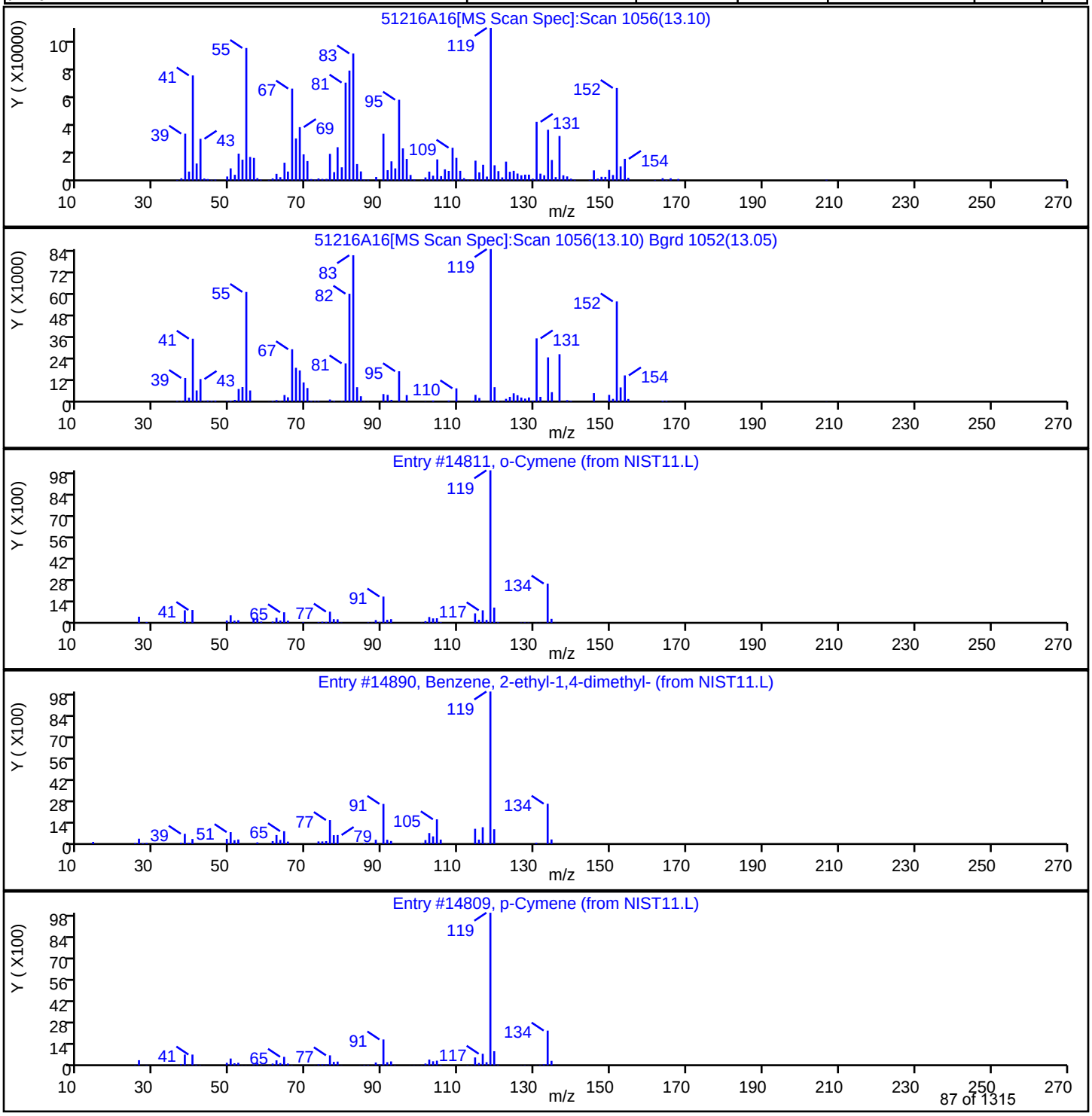
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.086

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
o-Cymene	527-84-4	NIST11	14811	C10H14	134	92
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIST11	14890	C10H14	134	93
p-Cymene	99-87-6	NIST11	14809	C10H14	134	92



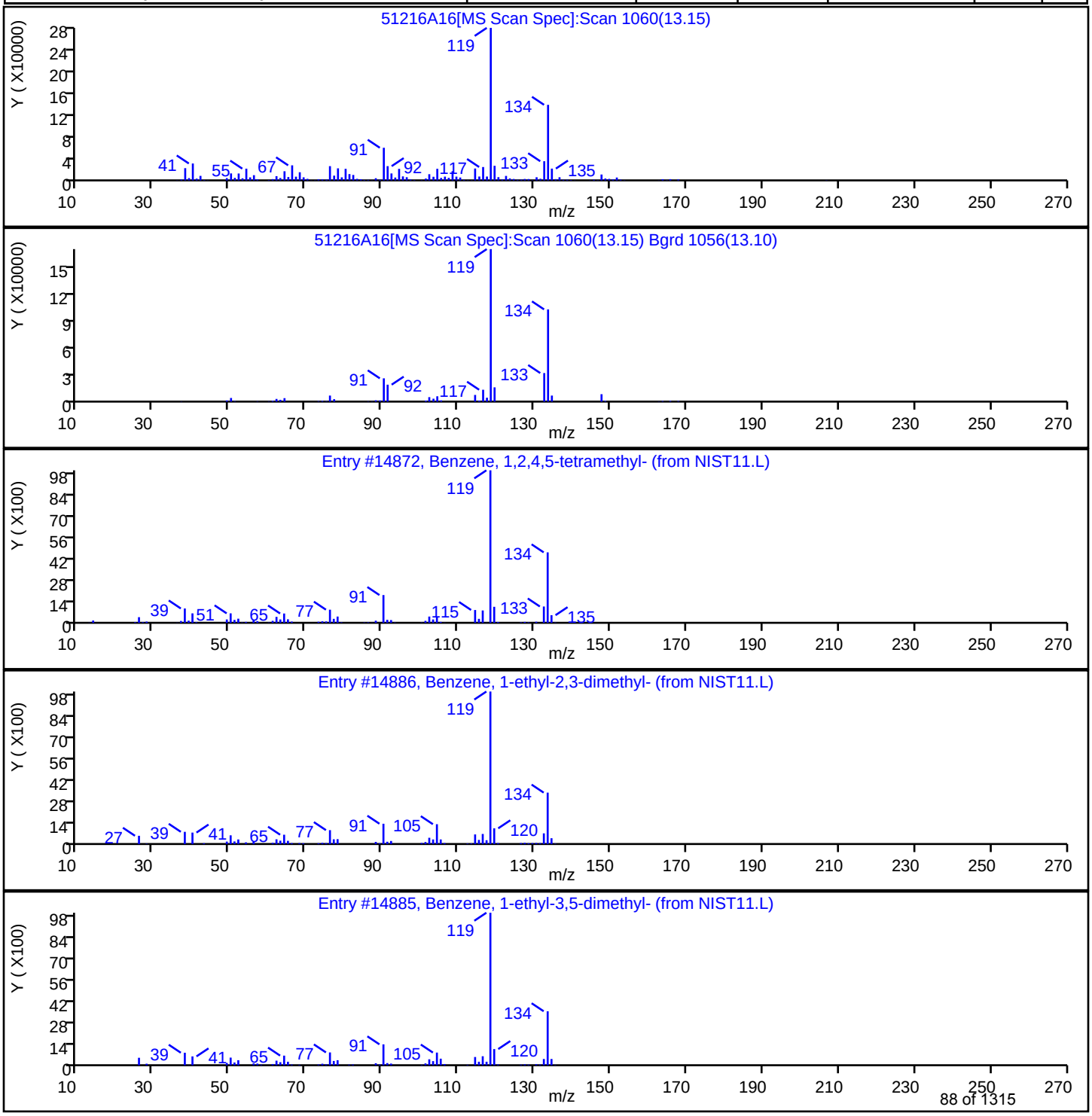
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.133

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14872	C10H14	134	94
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST11	14886	C10H14	134	93
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NIST11	14885	C10H14	134	93



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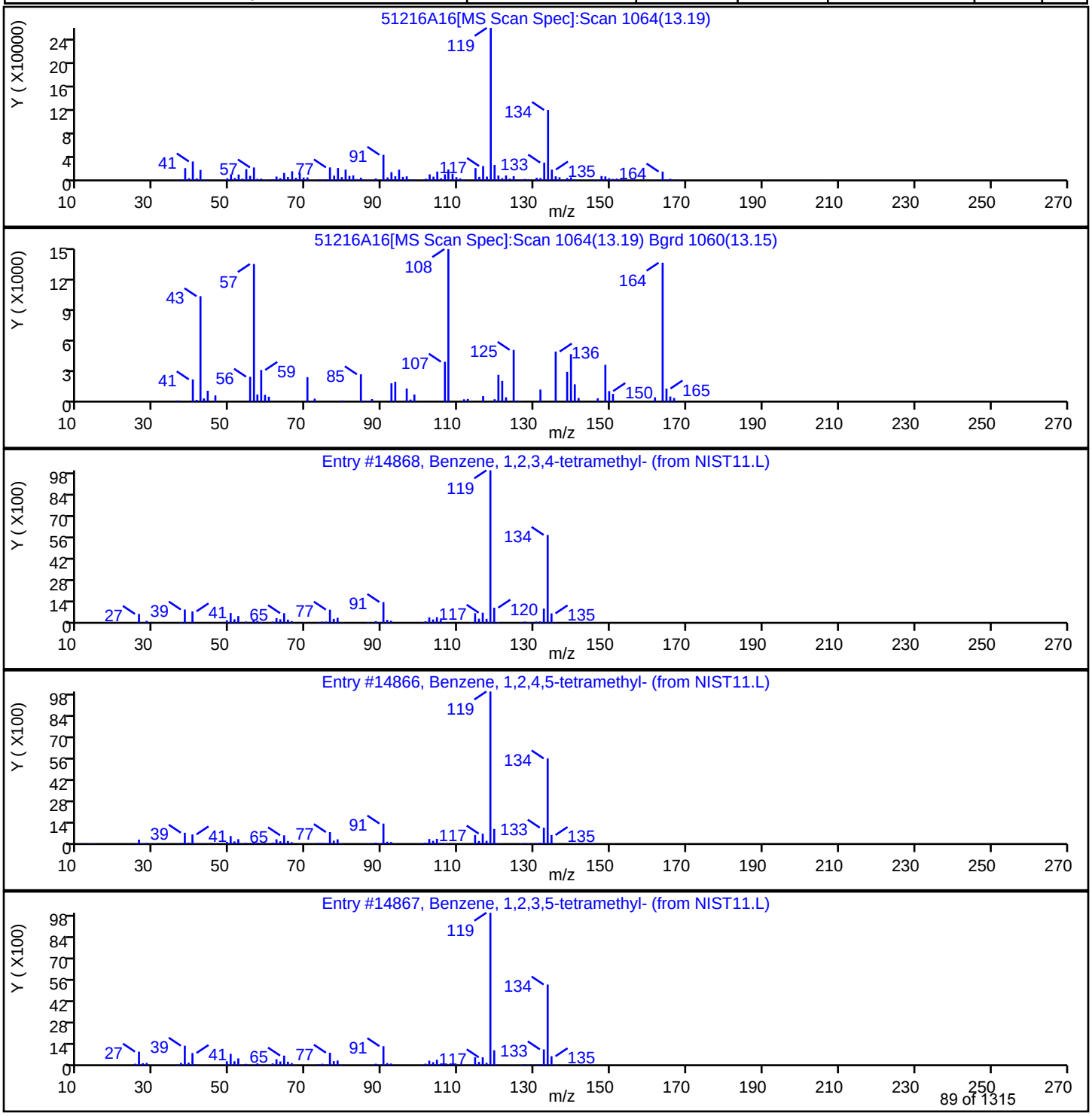
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.181

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST11	14868	C10H14	134	97
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14866	C10H14	134	97
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NIST11	14867	C10H14	134	97



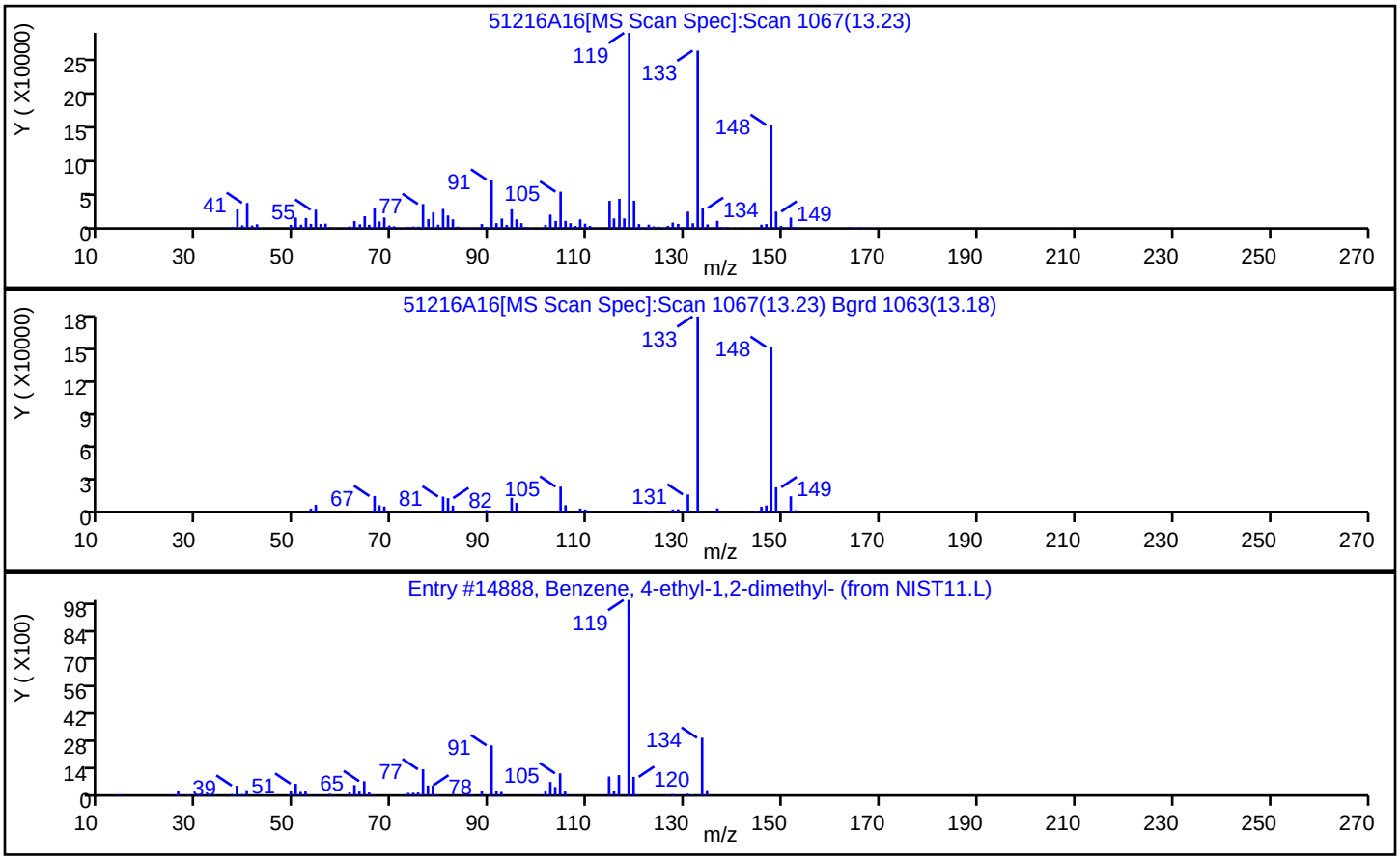
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.216

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST11	14888	C10H14	134	86



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Shealy Environmental Services

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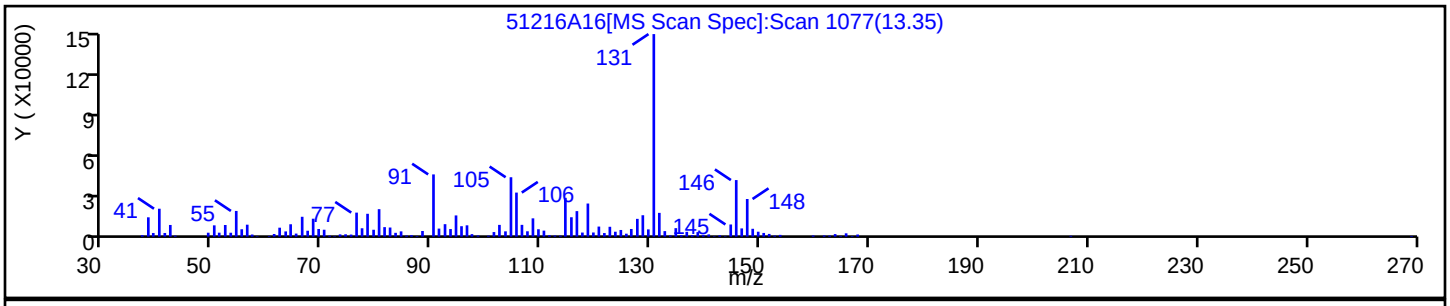
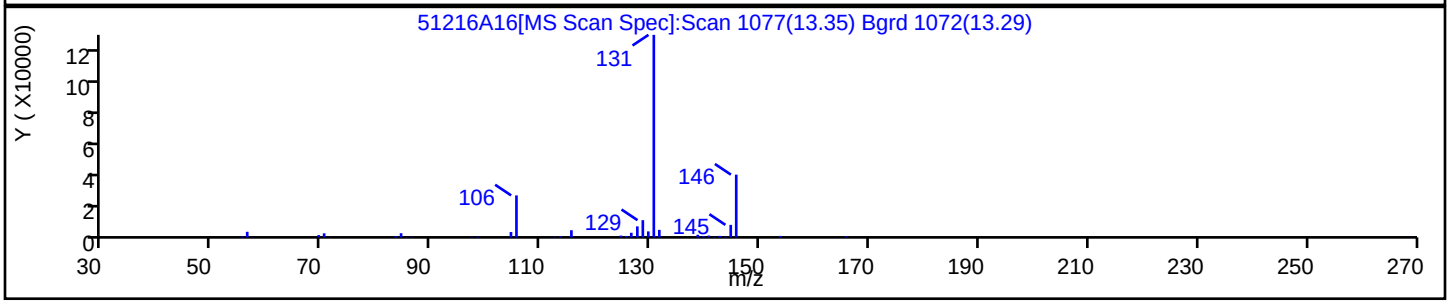
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.335

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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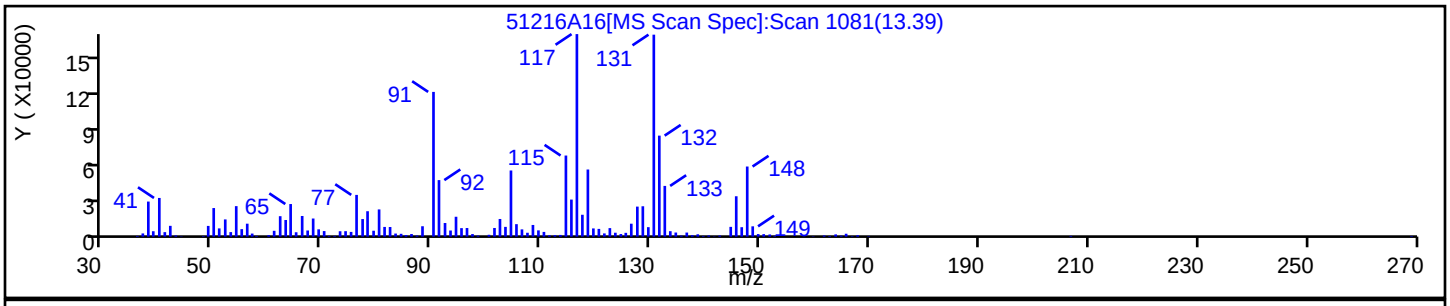
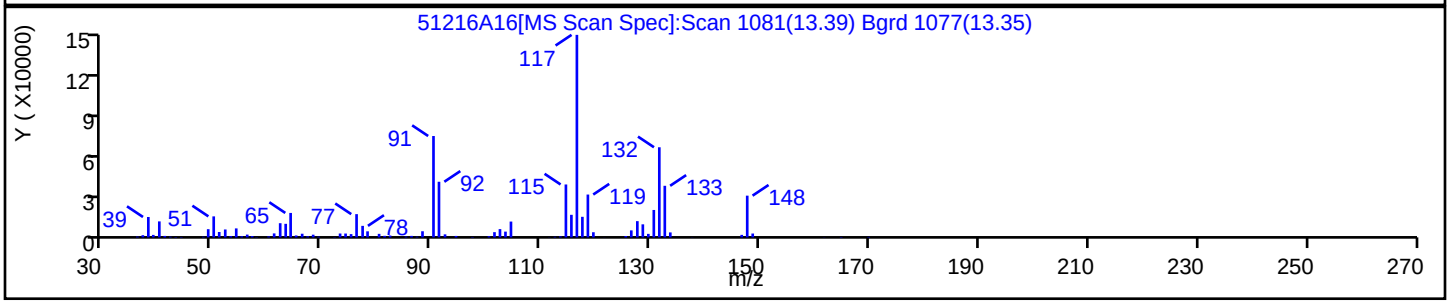
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.382

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





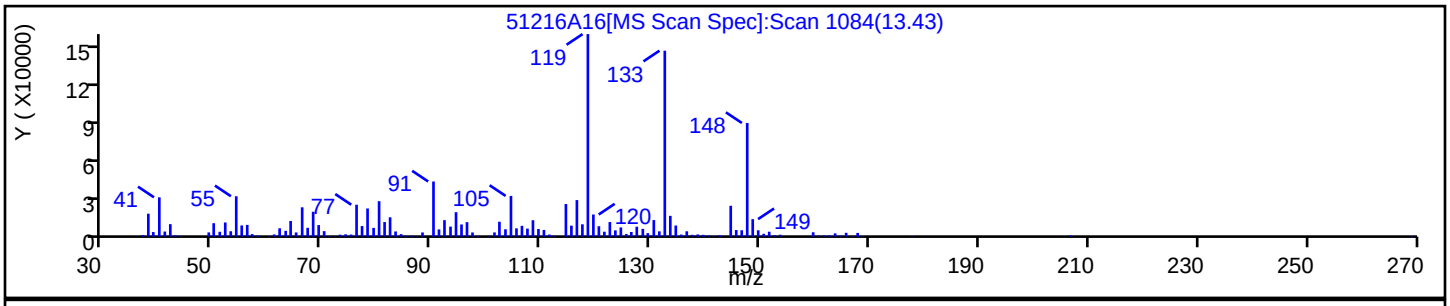
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

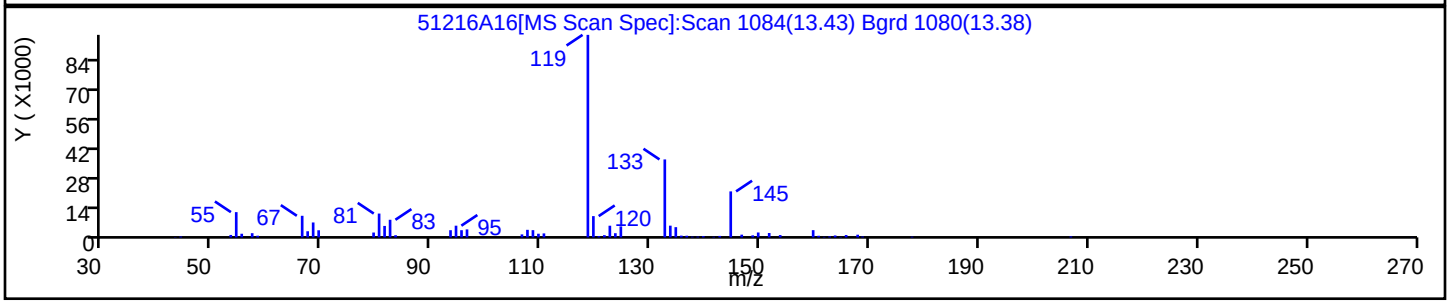
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.418

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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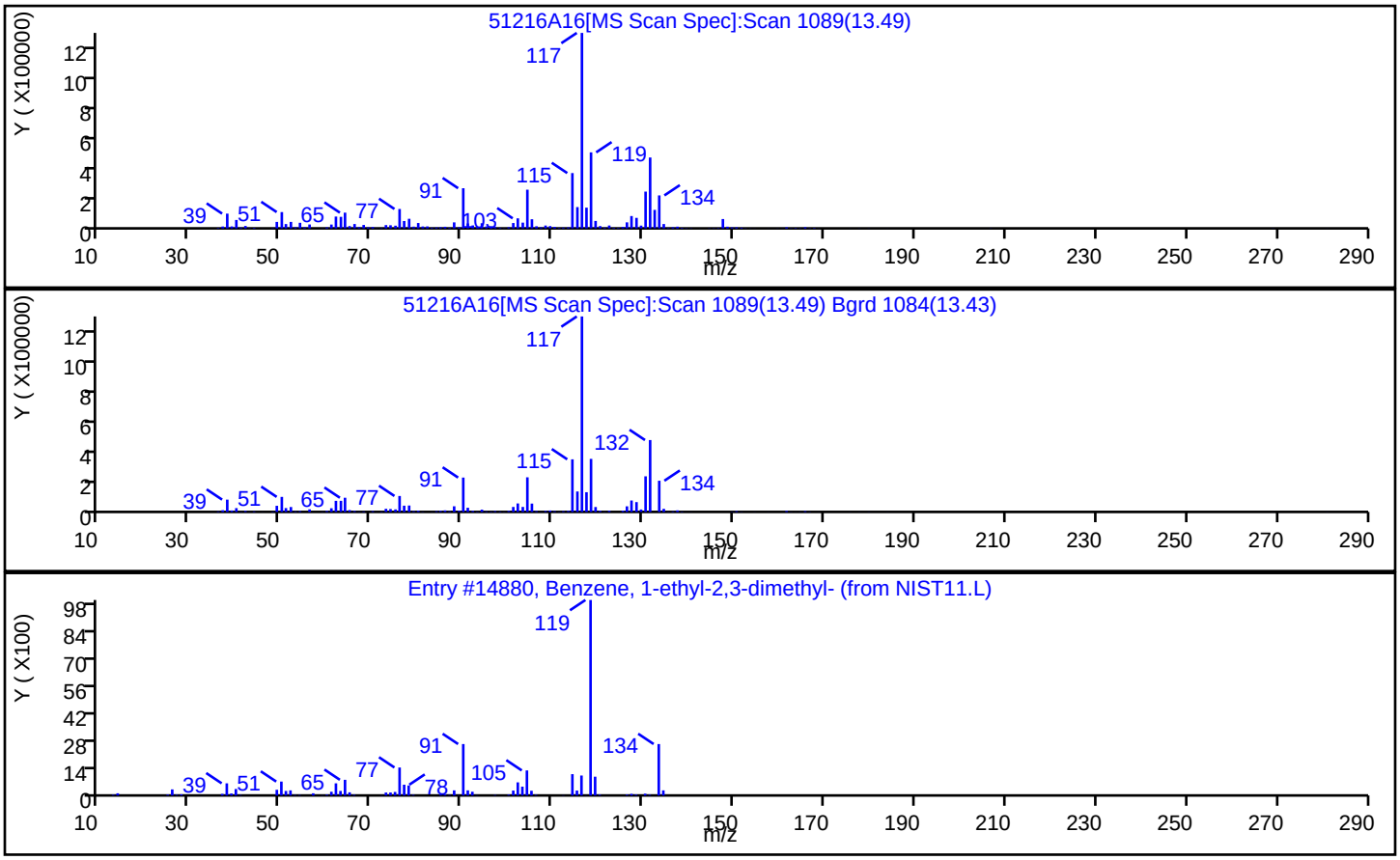
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.477

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST11	14880	C10H14	134	93



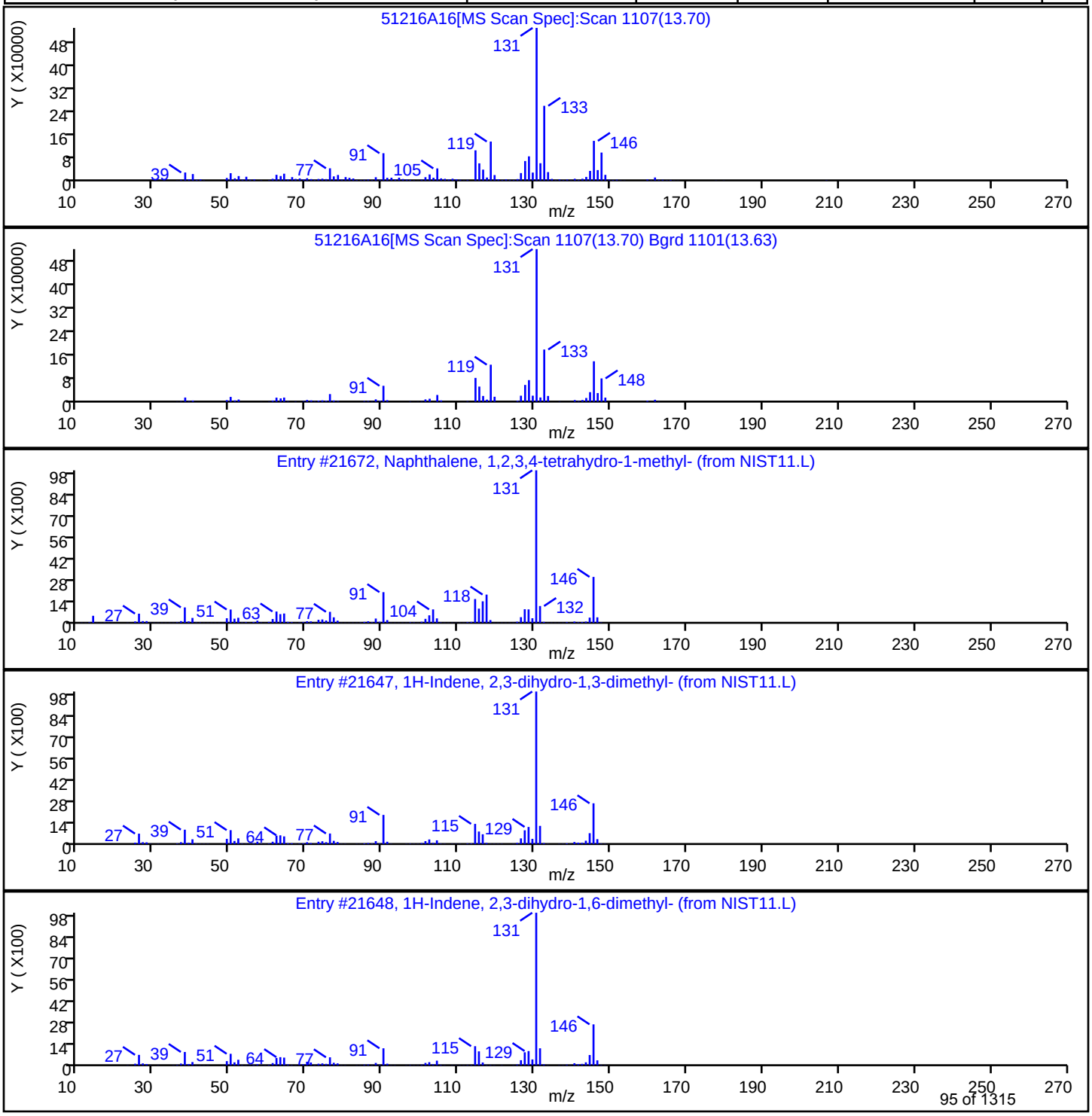
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.690

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2,3,4-tetrahydro-1-methyl	1559-81-5	NIST11	21672	C11H14	146	87
1H-Indene, 2,3-dihydro-1,3-dimethyl-	4175-53-5	NIST11	21647	C11H14	146	87
1H-Indene, 2,3-dihydro-1,6-dimethyl-	17059-48-2	NIST11	21648	C11H14	146	87



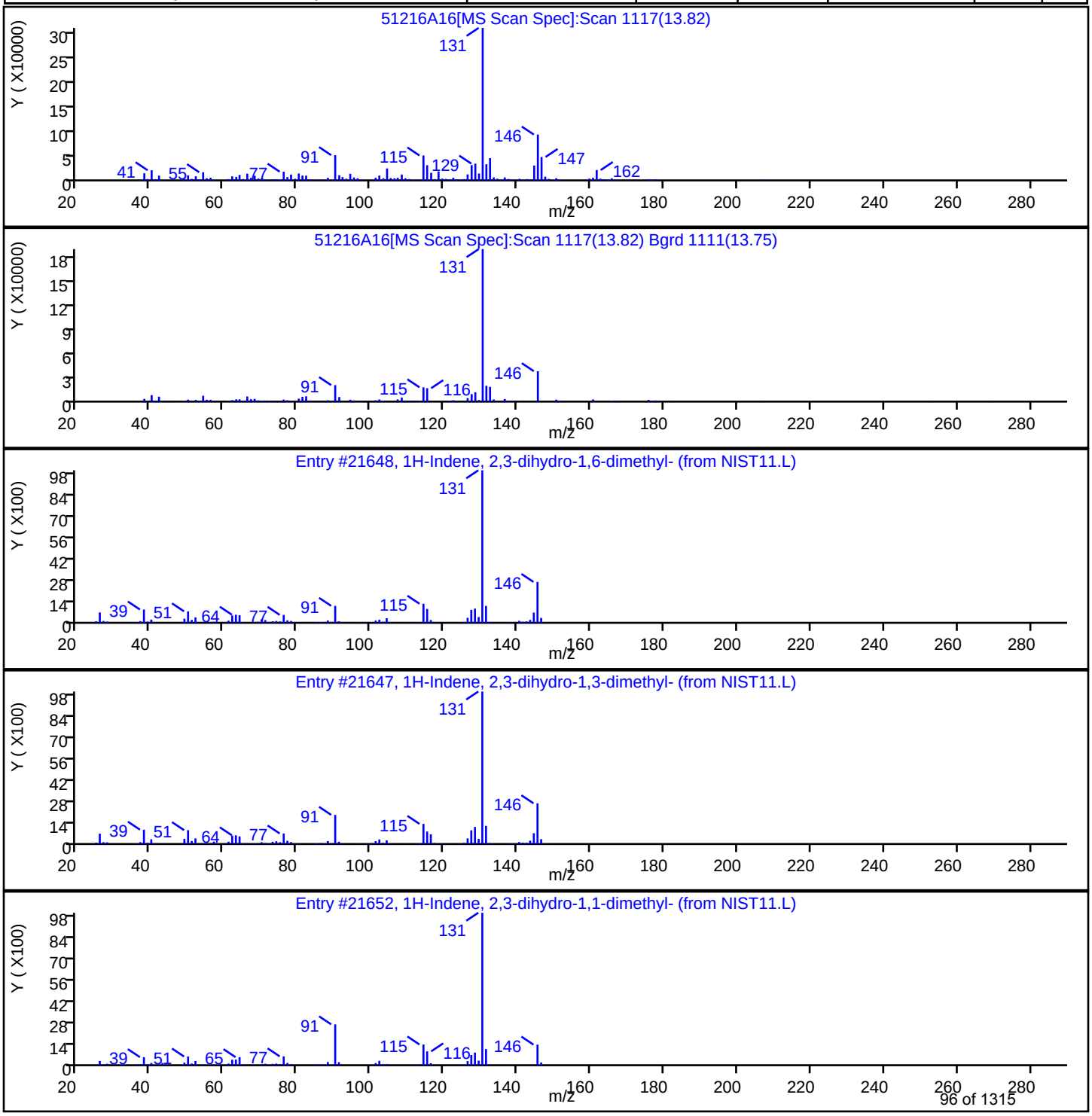
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.809

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1H-Indene, 2,3-dihydro-1,6-dimethyl-	17059-48-2	NIST11	21648	C11H14	146	93
1H-Indene, 2,3-dihydro-1,3-dimethyl-	4175-53-5	NIST11	21647	C11H14	146	90
1H-Indene, 2,3-dihydro-1,1-dimethyl-	4912-92-9	NIST11	21652	C11H14	146	90



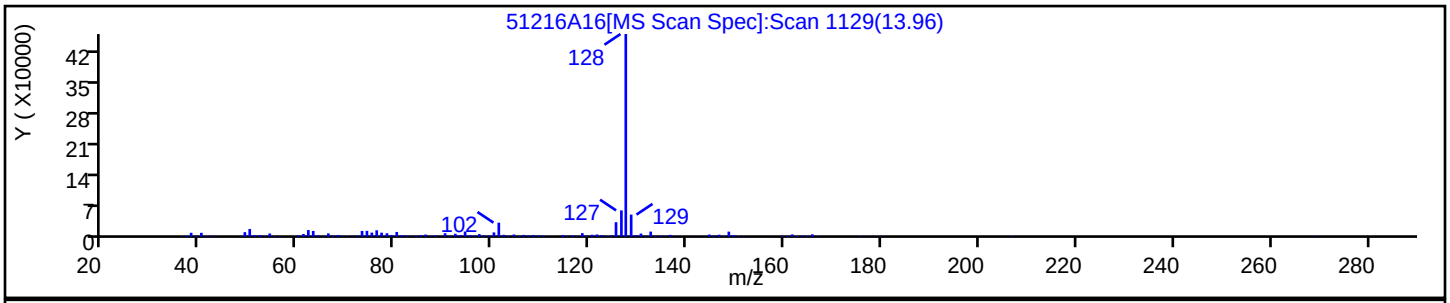
Report Date: 20-Dec-2015 12:53:22 AIM Revision: 1.0 26-May-2015 13:41:26

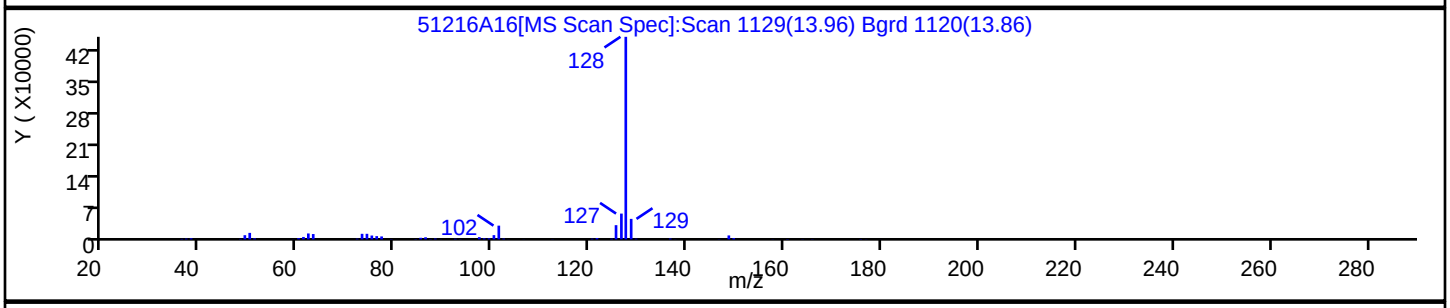
Shealy Environmental Services

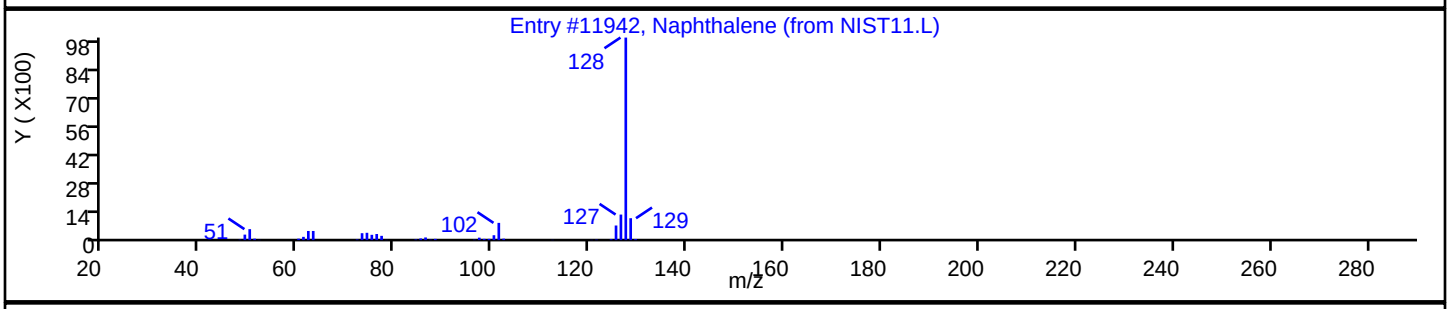
Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A16.D		
Injection Date:	16-Dec-2015 15:15:30	Inst. ID:	msd5.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	5121615.b, QL12004-005		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

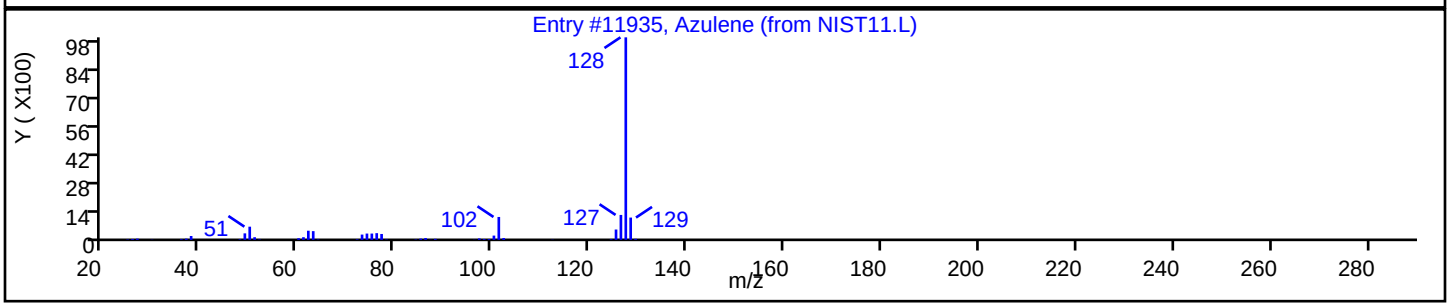
TIC @ 13.951

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene	91-20-3	NIST11	11942	C10H8	128	95
Azulene	275-51-4	NIST11	11935	C10H8	128	94









FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R24DL

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 5.74 (g/mL) g
Lab File ID: 51221A08
% Solids: 77.8
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 10.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	3500	U
74-87-3	Chloromethane	3500	U
75-01-4	Vinyl chloride	3500	U
74-83-9	Bromomethane	3500	U
75-00-3	Chloroethane	3500	U
75-69-4	Trichlorofluoromethane	3500	U
75-35-4	1,1-Dichloroethene	3500	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	3500	U
67-64-1	Acetone	7000	U
75-15-0	Carbon disulfide	3500	U
79-20-9	Methyl acetate	3500	U
75-09-2	Methylene chloride	3500	U
156-60-5	trans-1,2-Dichloroethene	3500	U
1634-04-4	Methyl tert-butyl ether	3500	U
75-34-3	1,1-Dichloroethane	3500	U
156-59-2	cis-1,2-Dichloroethene	3500	U
78-93-3	2-Butanone	7000	U
74-97-5	Bromochloromethane	3500	U
67-66-3	Chloroform	3500	U
71-55-6	1,1,1-Trichloroethane	3500	U
110-82-7	Cyclohexane	12000	D
56-23-5	Carbon tetrachloride	3500	U
71-43-2	Benzene	740	J D
107-06-2	1,2-Dichloroethane	3500	U
79-01-6	Trichloroethene	3500	U
108-87-2	Methylcyclohexane	32000	D
78-87-5	1,2-Dichloropropane	3500	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R24DL

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 5.74 (g/mL) g
Lab File ID: 51221A08
% Solids: 77.8
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 10.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	3500	U
10061-01-5	cis-1,3-Dichloropropene	3500	U
108-10-1	4-Methyl-2-pentanone	7000	U
108-88-3	Toluene	4100	D
10061-02-6	trans-1,3-Dichloropropene	3500	U
79-00-5	1,1,2-Trichloroethane	3500	U
127-18-4	Tetrachloroethene	3500	U
591-78-6	2-Hexanone	7000	U
124-48-1	Dibromochloromethane	3500	U
106-93-4	1,2-Dibromoethane	3500	U
108-90-7	Chlorobenzene	3500	U
100-41-4	Ethylbenzene	9200	D
179601-23-1	m, p-Xylene	32000	D
95-47-6	o-Xylene	15000	D
100-42-5	Styrene	3500	U
75-25-2	Bromoform	3500	U
98-82-8	Isopropylbenzene	3300	J D
79-34-5	1,1,2,2-Tetrachloroethane	3500	U
541-73-1	1,3-Dichlorobenzene	3500	U
106-46-7	1,4-Dichlorobenzene	3500	U
95-50-1	1,2-Dichlorobenzene	3500	U
96-12-8	1,2-Dibromo-3-chloropropane	3500	U
120-82-1	1,2,4-Trichlorobenzene	3500	U
87-61-6	1,2,3-Trichlorobenzene	3500	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R24DL

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 5.74 (g/mL) g
Lab File ID: 51221A08
% Solids: 77.8
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 10.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03		Unknown-01	8.71	40000	J D
04					
05		Unknown-02	10.19	24000	J D
06		Unknown-03	11.18	29000	J D
07		Unknown-04	11.33	30000	J D
08	620-14-4	Benzene, 1-ethyl-3-methyl-	11.66	16000	NJ D
09		Unknown-05	11.70	38000	J D
10	611-14-3	Benzene, 1-ethyl-2-methyl-	11.89	19000	NJ D
11	526-73-8	Benzene, 1,2,3-trimethyl-	12.01	25000	NJ D
12	99-87-6	p-Cymene	12.20	28000	NJ D
13		Unknown-06	12.47	33000	J D
14	874-41-9	Benzene, 1-ethyl-2,4-	12.73	17000	NJ D
15	933-98-2	Benzene, 1-ethyl-2,3-	12.79	14000	NJ D
16		Unknown-07	12.88	25000	J D
17		Unknown-08	13.01	16000	J D
18	2050-24-0	Benzene, 1,3-diethyl-5-	13.15	20000	NJ D
19	874-35-1	1H-Indene, 2,3-dihydro-5-	13.30	21000	NJ D
20	95-93-2	Benzene, 1,2,4,5-tetramethyl-	13.39	41000	NJ D
21	769-57-3	Benzene, (1,2-dimethyl-1-	13.62	24000	NJ D
22	17057-82-8	1H-Indene, 2,3-dihydro-1,2-	13.71	29000	NJ D
23	91-20-3	Naphthalene	13.87	24000	NJ D
24		Unknown-09	13.95	15000	J D
25		Unknown-10	14.01	13000	J D
26	1685-82-1	1H-Indene, 2,3-dihydro-4,6-	14.24	19000	NJ D
27		Unknown-11	14.38	15000	J D
28	90-12-0	Naphthalene, 1-methyl-	14.70	50000	NJ D
29	91-57-6	Naphthalene, 2-methyl-	14.85	31000	NJ D
30					
	E966796[2]	Total Alkanes	N/A	78800	J

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Lab Sample ID:	QL12004-005DL	Client Sample ID:	F6R24DL
Injection Date:	21-Dec-2015 12:18:30	Dil. Factor:	10.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, QL12004-005,10		
Method:	\\Organics\DD\chem\msd5.i\5122115.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 10:25:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	Client	ALS Bottle:	8
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Ws	5.7400	Weight of sample extracted (g)
M	22.200	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 17:10:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.057		ND			
2 Chloromethane	50.0		2.271		ND			
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	58684	57.324	4026.97	R
4 Vinyl Chloride	62.0		2.413		ND			
5 Bromomethane	94.0		2.781		ND			
$ 6 Chloroethane-d5	69.0	2.887	2.852	0.035	51860	62.686	4403.62	R
7 Chloroethane	64.0		2.887		ND			
8 Trichlorofluoromethane	101.0		3.184		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.800	3.801	-0.001	105023	44.579	3131.65	R
10 1,1-Dichloroethene	96.0		3.812		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.836		ND			
12 Acetone	43.0		3.848		ND			
13 Carbon Disulfide	76.0		4.085		ND			
14 Methyl Acetate	43.0		4.216		ND			
15 Methylene Chloride	84.0		4.358		ND			
16 Methyl tert-Butyl Ether	73.0		4.666		ND			
17 trans-1,2-Dichloroethene	96.0		4.678		ND			
18 1,1-Dichloroethane	63.0		5.152		ND			
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	55224	115.43	8108.59	R
20 2-Butanone	43.0		5.828		ND			
21 cis-1,2-Dichloroethene	96.0		5.828		ND			
22 Bromochloromethane	128.0		6.113		ND			
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	119070	52.684	3701.03	QR
24 Chloroform	83.0		6.196		ND			
25 1,1,1-Trichloroethane	97.0		6.433		ND			

Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115.b\51221A08.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0	6.528	6.516	0.012	39536	16.571	11641	Q
27 Carbon Tetrachloride	117.0		6.635		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.789	0.012	74326	53.715	3773.47	R
$ 29 Benzene-d6	84.0	6.836	6.824	0.012	264763	55.849	3923.34	R
30 Benzene	78.0	6.884	6.872	0.012	5745	1.0469	735.41	eM
31 1,2-Dichloroethane	62.0		6.884		ND			
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	-0.001	227604	50.000	35125	
33 Trichloroethene	95.0		7.643		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.820	7.809	0.011	80519	55.908	3927.53	R
35 Methylcyclohexane	83.0	7.903	7.904	-0.001	105937	44.983	31600	
36 1,2-Dichloropropane	63.0		7.915		ND			
39 Bromodichloromethane	83.0		8.236		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	101742	57.592	4045.80	R
41 cis-1,3-Dichloropropene	75.0		8.746		ND			
42 4-Methyl-2-pentanone	43.0		8.900		ND			
$ 43 Toluene-d8	98.0	9.054	9.042	0.012	255102	56.300	3955.02	R
44 Toluene	91.0	9.125	9.113	0.012	33261	5.8067	4079.17	
45 trans-1,3-Dichloropropene	75.0		9.315		ND			
46 1,1,2-Trichloroethane	97.0		9.504		ND			
47 Tetrachloroethene	164.0		9.671		ND			
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	52776	99.159	6965.86	QR
49 2-Hexanone	43.0		9.730		ND			
50 Dibromochloromethane	129.0		9.896		ND			
51 1,2-Dibromoethane	107.0		10.014		ND			
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	198703	50.000	35125	
53 Chlorobenzene	112.0		10.453		ND			
54 Ethylbenzene	91.0	10.536	10.536	0.000	82670	13.102	9204.15	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	114560	45.217	31765	
56 o-Xylene	106.0	10.975	10.975	0.000	52129	21.470	15083	
57 Styrene	104.0		10.987		ND			
58 Bromoform	173.0		11.153		ND			
59 Isopropylbenzene	105.0	11.271	11.271	0.000	29724	4.6654	3277.43	Qe
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	69783	54.922	3858.25	R
61 1,1,2,2-Tetrachloroethane	83.0		11.497		ND			
62 1,3-Dichlorobenzene	146.0		12.244		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	104552	50.000	35125	
64 1,4-Dichlorobenzene	146.0		12.303		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	90345	52.334	3676.42	R
66 1,2-Dichlorobenzene	146.0		12.588		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.121		ND			
68 1,2,4-Trichlorobenzene	180.0		13.679		ND			
69 1,2,3-Trichlorobenzene	180.0		14.034		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Lab Sample ID:	QL12004-005DL	Client Sample ID:	F6R24DL
Injection Date:	21-Dec-2015 12:18:30	Dil. Factor:	10.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, QL12004-005,10		
Method:	\\Organics\DD\chem\msd5.i\5122115.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 10:25:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	Client	ALS Bottle:	8
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Ws	5.7400	Weight of sample extracted (g)
M	22.200	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 17:10:30

Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown Alkane						
7.180	580188	52.797	37090	32				
		Unknown Alkane						
8.603	456208	41.515	29164	32				
		Unknown						
8.710	631387	57.456	40363	32				
		Unknown Alkane						
9.220	889799	66.420	46659	52				
		Unknown						
10.192	451771	33.723	23690	52				
		Unknown						
11.176	545851	40.745	28623	52				
		Unknown						
11.331	564181	42.114	29585	52				
620-14-4		Benzene, 1-ethyl-3-methyl-						
11.663	630507	23.053	16195	63	97	9423	C9H12	120
		Unknown						
11.698	1475504	53.948	37898	63				
611-14-3		Benzene, 1-ethyl-2-methyl-						
11.888	724421	26.487	18607	63	94	9425	C9H12	120
526-73-8		Benzene, 1,2,3-trimethyl-						
12.006	974783	35.641	25037	63	97	9418	C9H12	120
99-87-6		p-Cymene						
12.196	1095221	40.044	28131	63	93	14809	C10H14	134

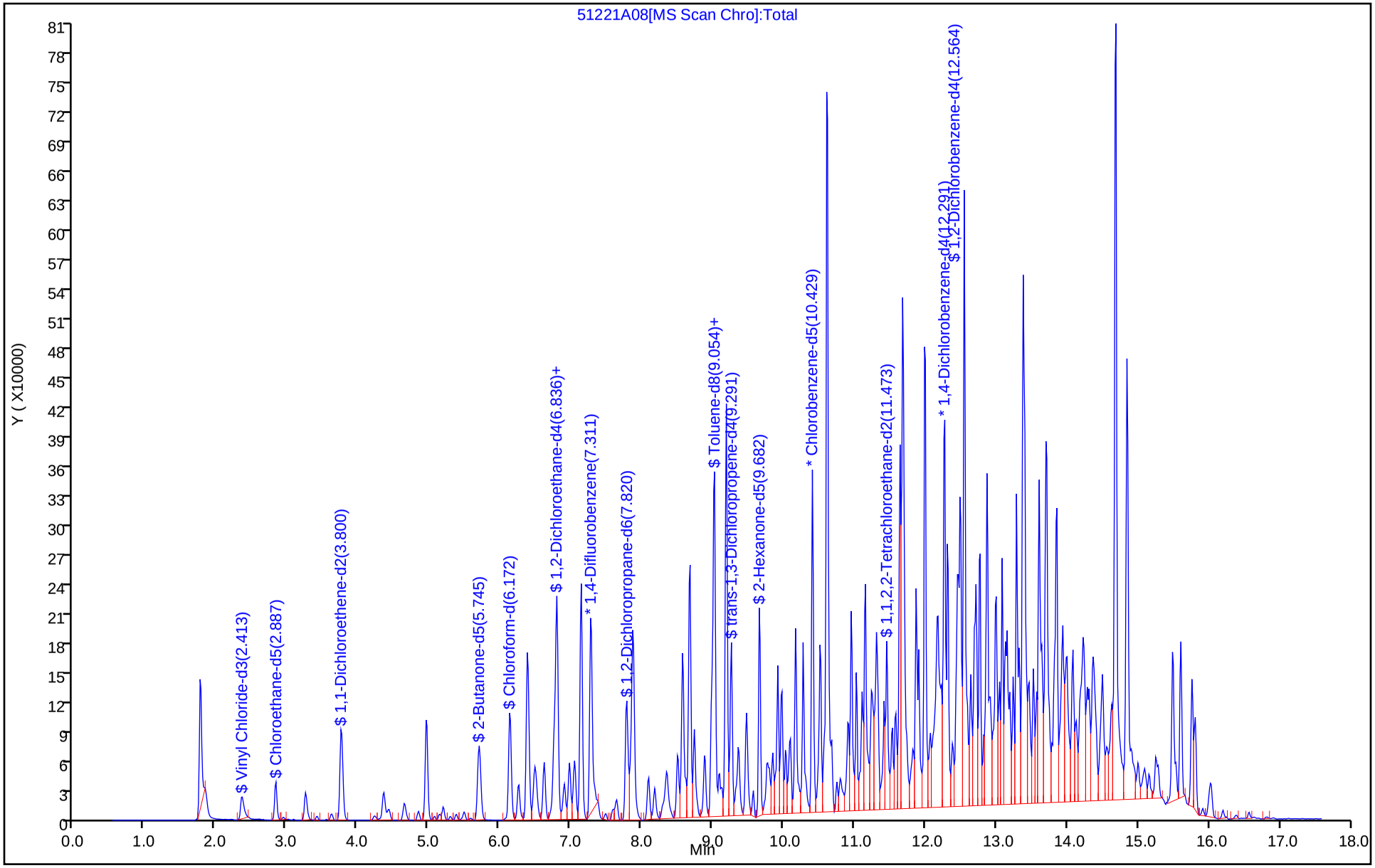
RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
12.469	1301082	47.571	33418	63				
874-41-9		Benzene, 1-ethyl-2,4-dimethyl-						
12.730	662524	24.224	17017	63	97	14877	C10H14	134
933-98-2		Benzene, 1-ethyl-2,3-dimethyl-						
12.789	533023	19.489	13691	63	96	14880	C10H14	134
		Unknown						
12.884	969818	35.459	24910	63				
		Unknown						
13.014	621089	22.709	15953	63				
2050-24-0		Benzene, 1,3-diethyl-5-methyl-						
13.145	785579	28.723	20178	63	97	22795	C11H16	148
874-35-1		1H-Indene, 2,3-dihydro-5-methyl-						
13.299	813951	29.760	20906	63	92	14076	C10H12	132
95-93-2		Benzene, 1,2,4,5-tetramethyl-						
13.394	1588028	58.062	40788	63	94	14872	C10H14	134
769-57-3		Benzene, (1,2-dimethyl-1-propenyl)-						
13.619	930595	34.025	23902	63	93	21642	C11H14	146
17057-82-8		1H-Indene, 2,3-dihydro-1,2-dimethyl-						
13.714	1130639	41.339	29040	63	90	21646	C11H14	146
91-20-3		Naphthalene						
13.868	924231	33.792	23739	63	94	11942	C10H8	128
		Unknown						
13.951	585342	21.402	15034	63				
		Unknown						
14.011	525096	19.199	13487	63				
1685-82-1		1H-Indene, 2,3-dihydro-4,6-dimethyl-						
14.236	746682	27.301	19178	63	93	21650	C11H14	146
		Unknown						
14.378	599591	21.923	15400	63				
90-12-0		Naphthalene, 1-methyl-						
14.698	1963162	71.778	50424	63	96	19232	C11H10	142
91-57-6		Naphthalene, 2-methyl-						
14.853	1209627	44.227	31069	63	96	19239	C11H10	142

Quant. Compounds	RT	Response	Amount ug/L
* 32 1,4-Difluorobenzene	7.311	549449	50.000
* 52 Chlorobenzene-d5	10.429	669831	50.000
* 63 1,4-Dichlorobenzene-d4	12.291	1367522	50.000

Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D				
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	F6R24DL	Lab ID:	QL12004-005DL		
Sample Info:	5122115b, QL12004-005,10				
Purge Vol.	5.00 mL	Dil. Factor:	10.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

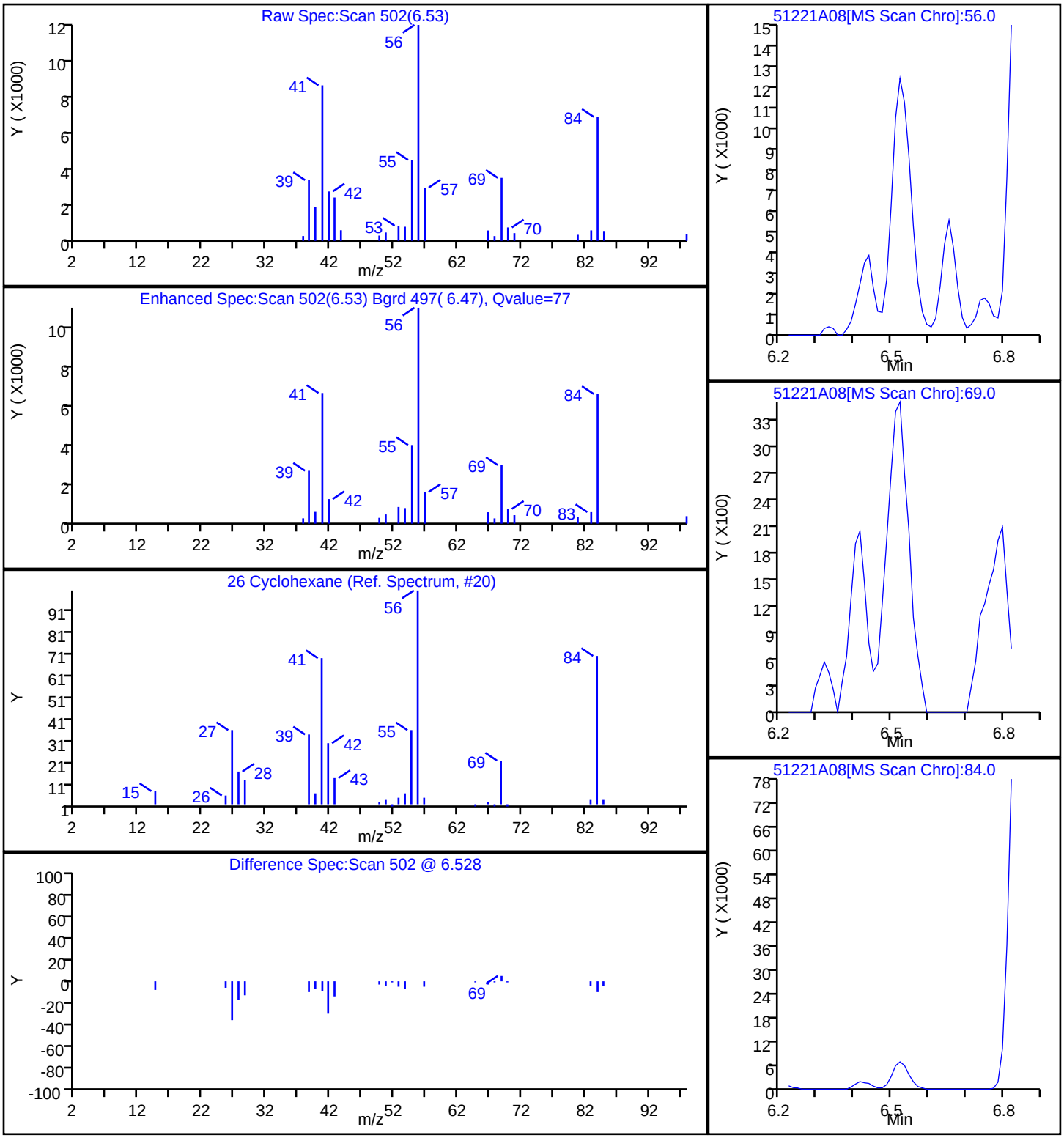


Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

26 Cyclohexane



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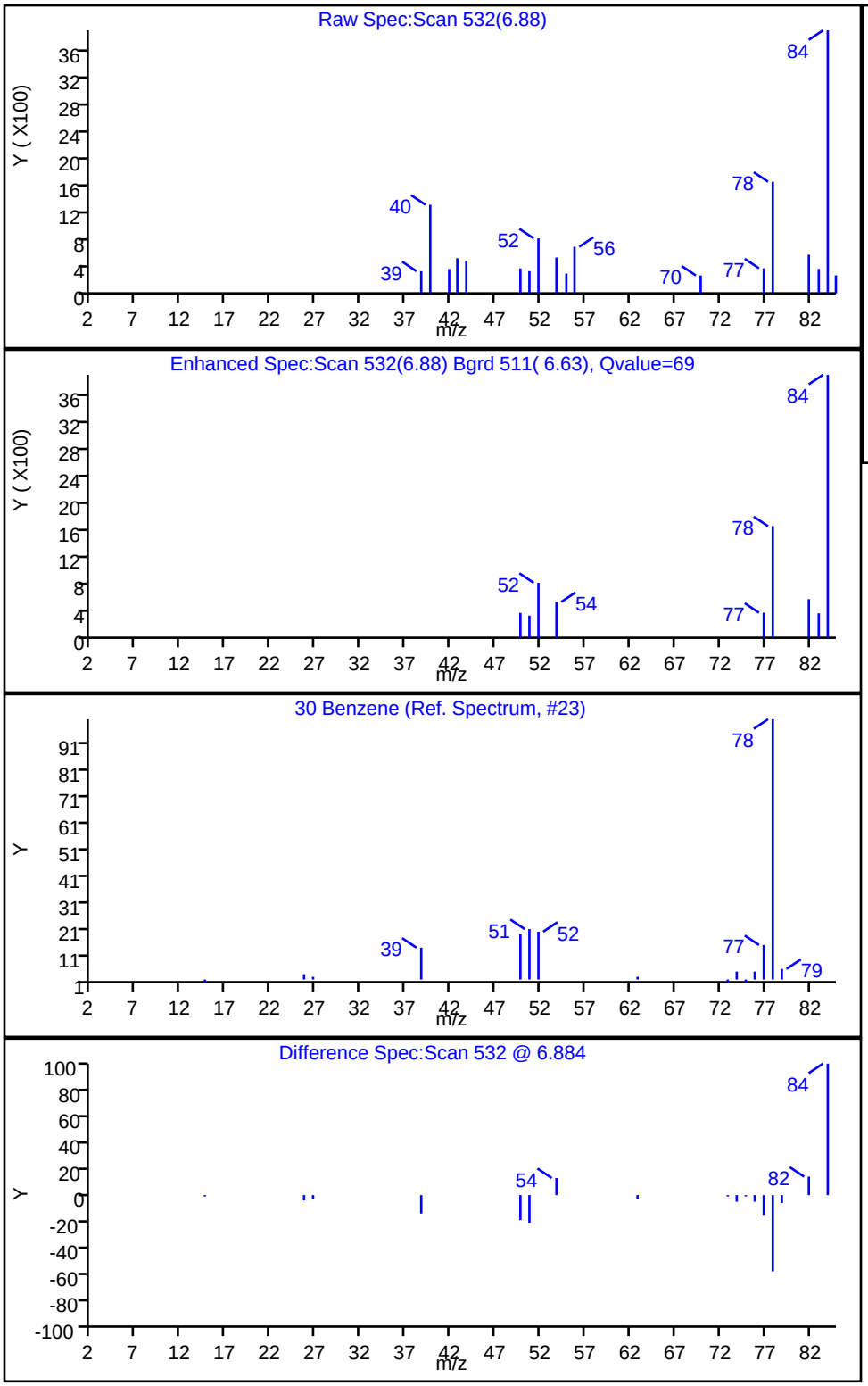
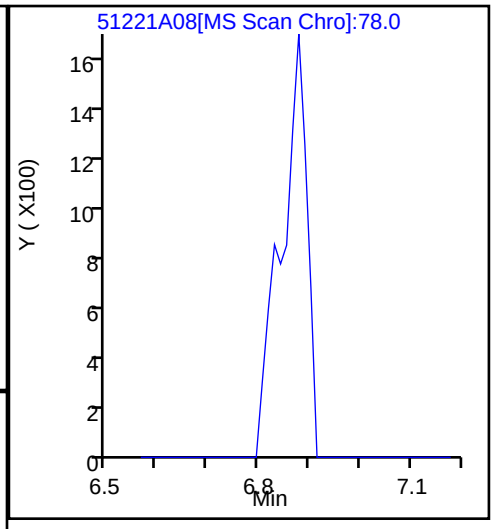
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

30 Benzene





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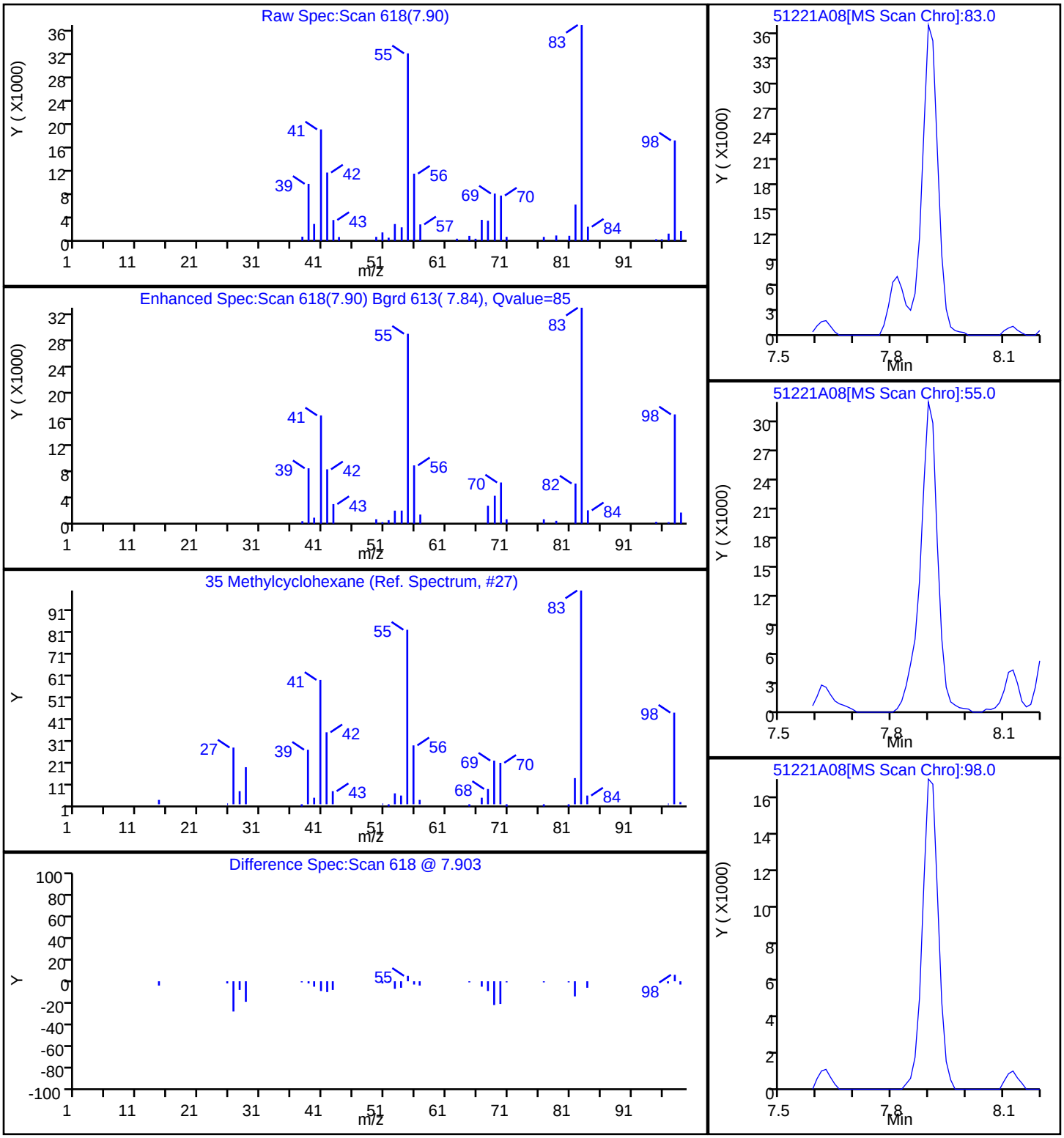
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

35 Methylcyclohexane



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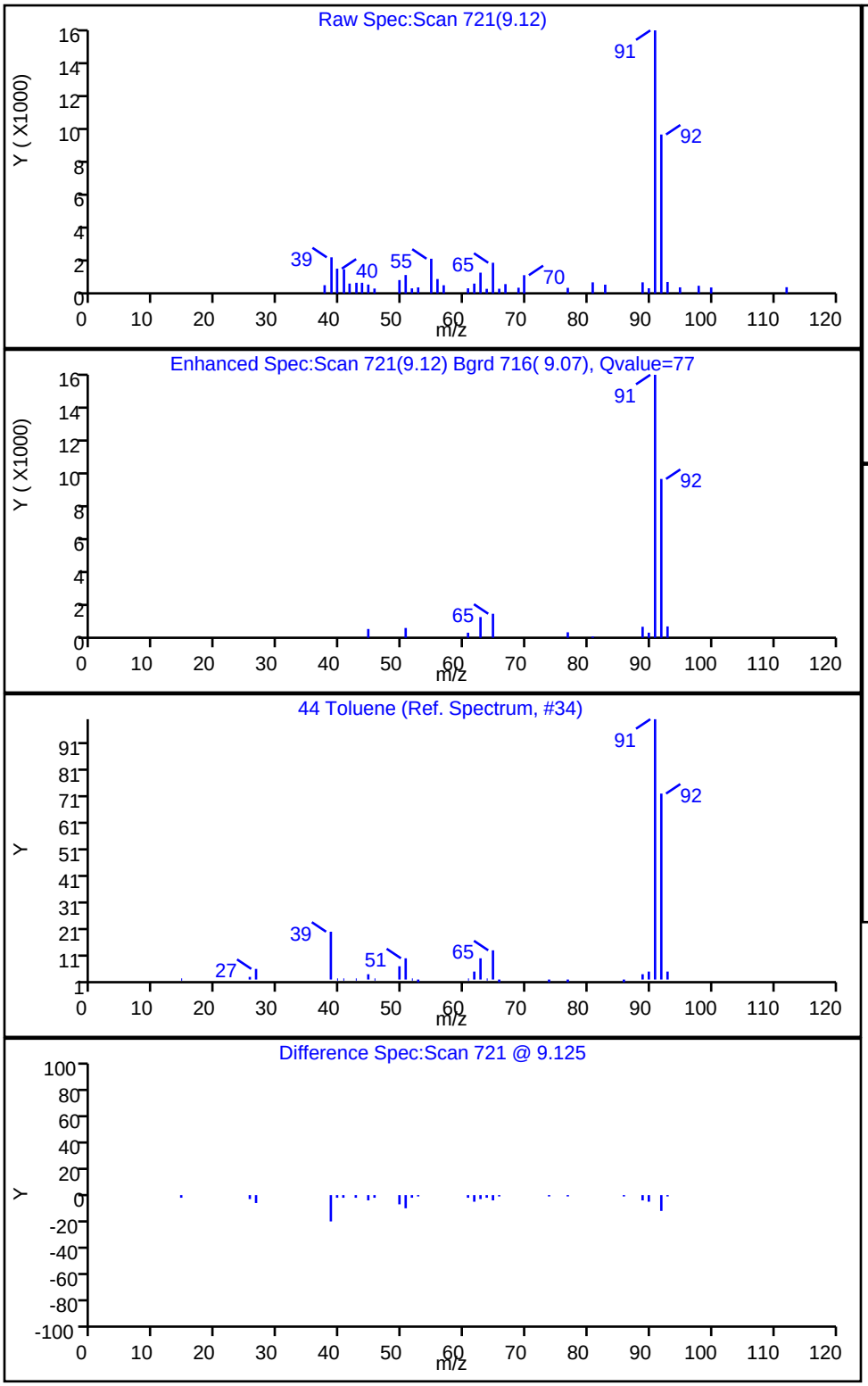
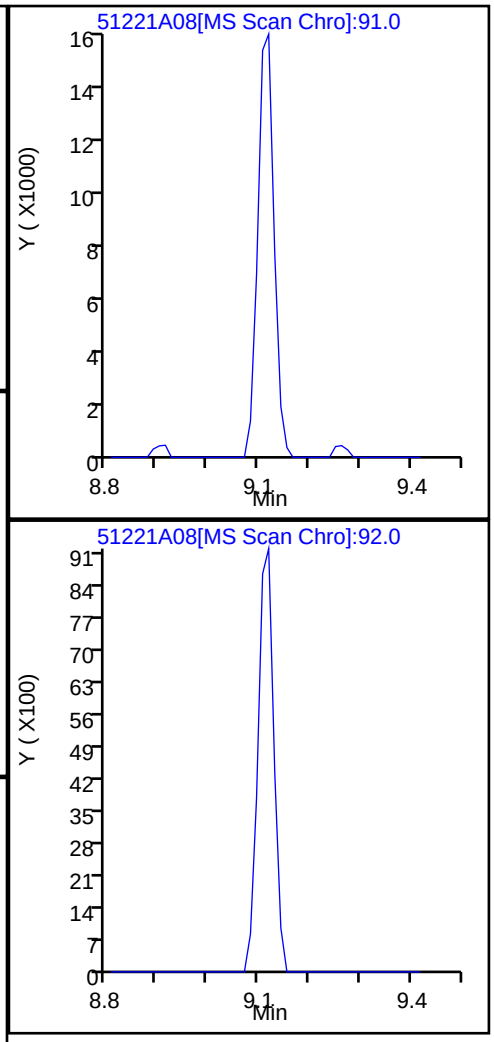
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

44 Toluene





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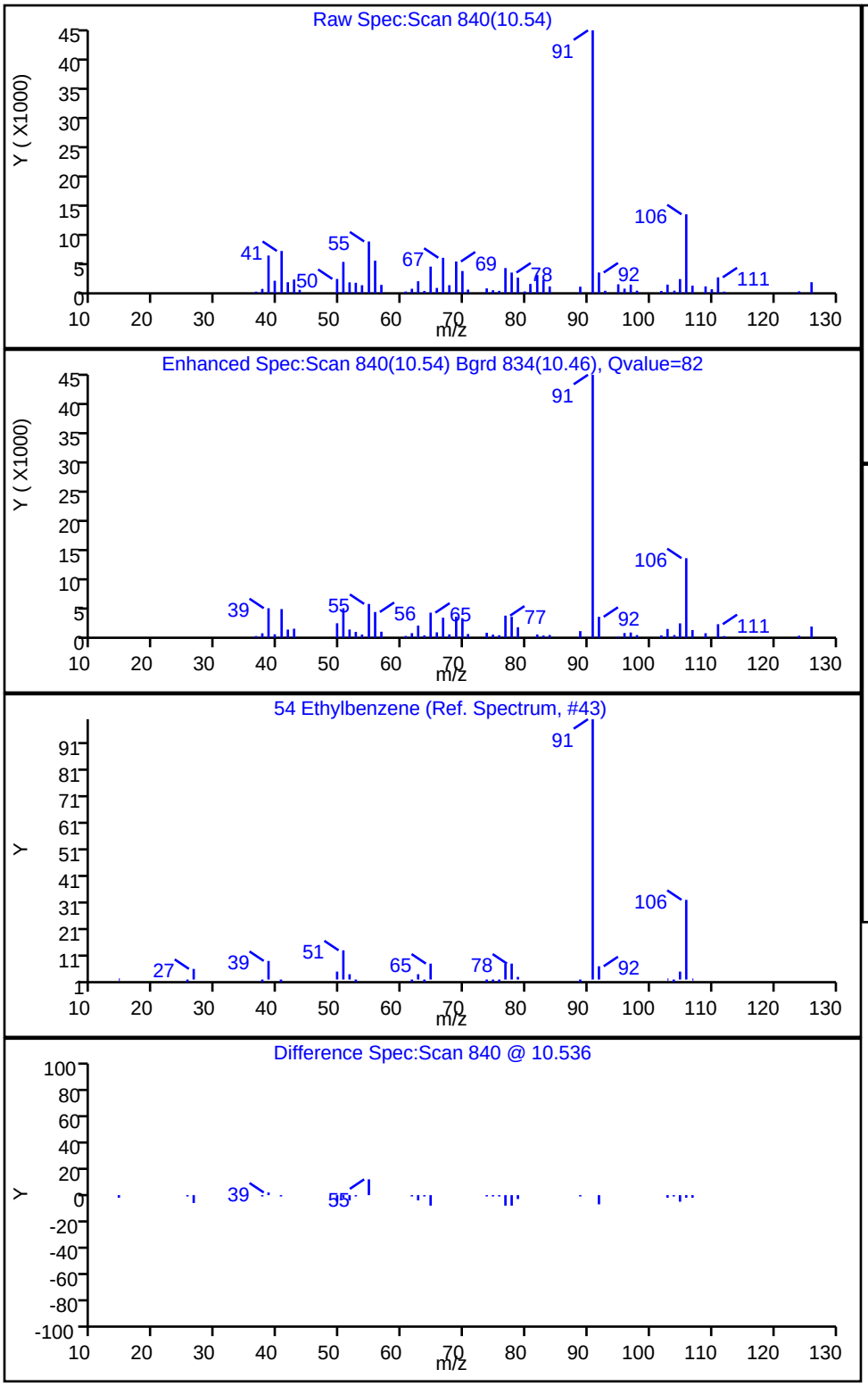
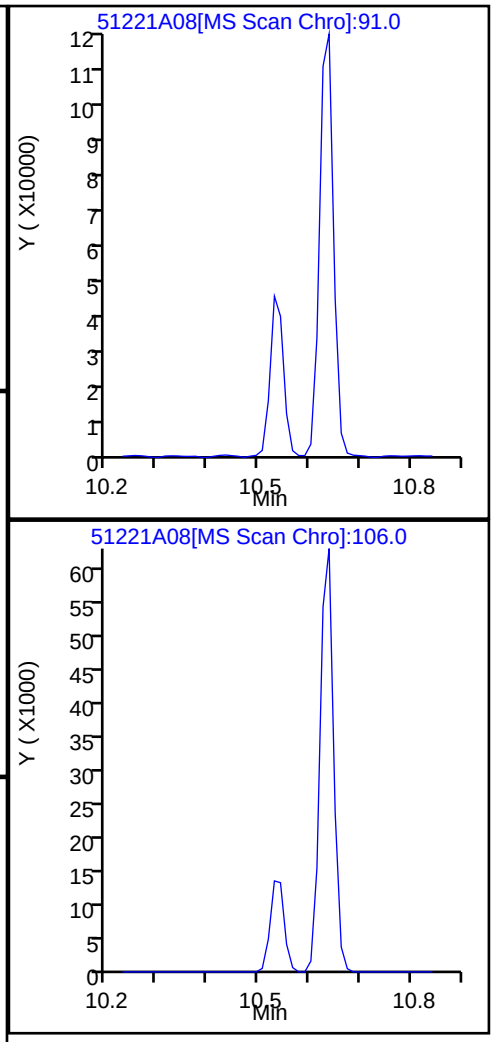
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

54 Ethylbenzene





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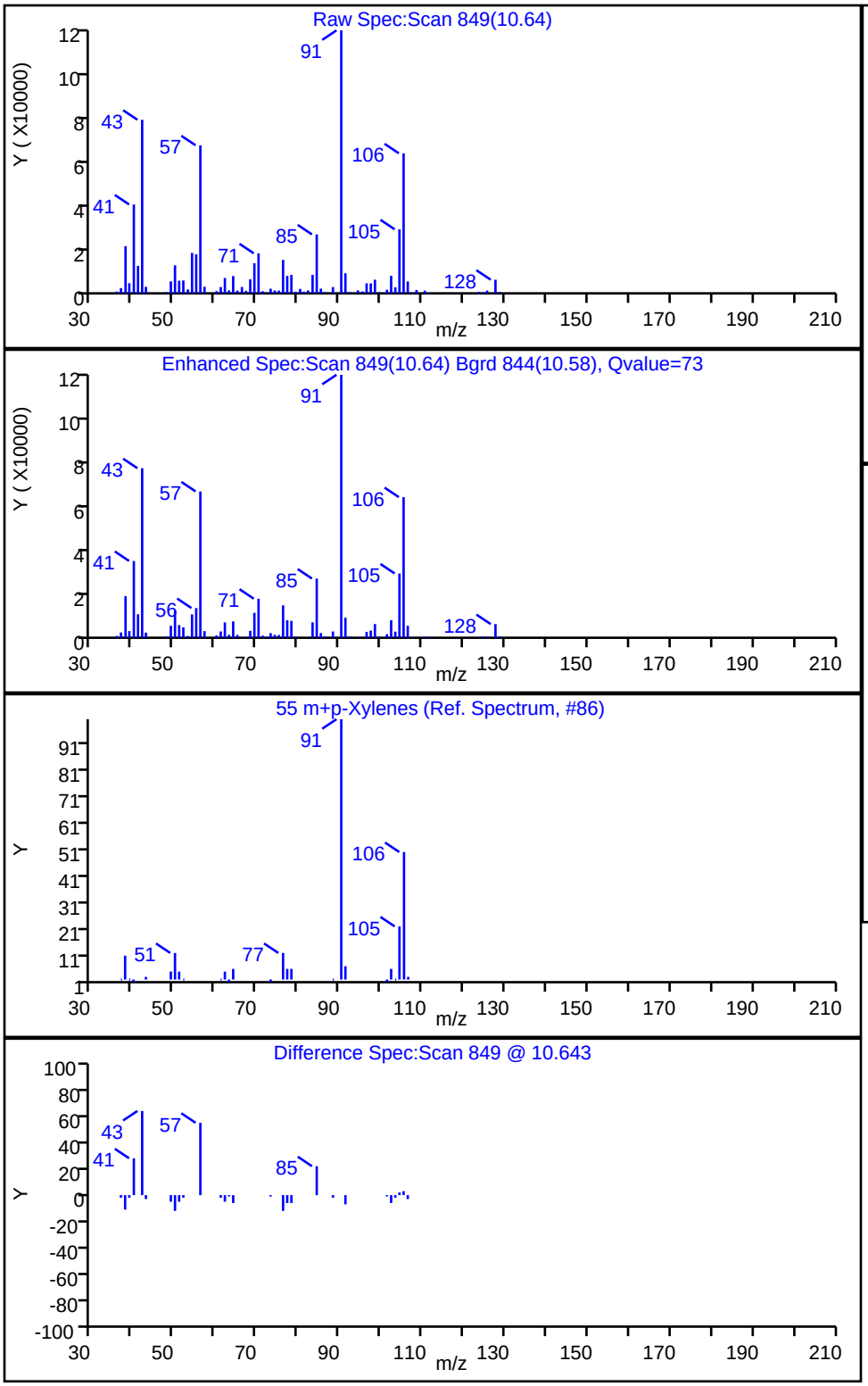
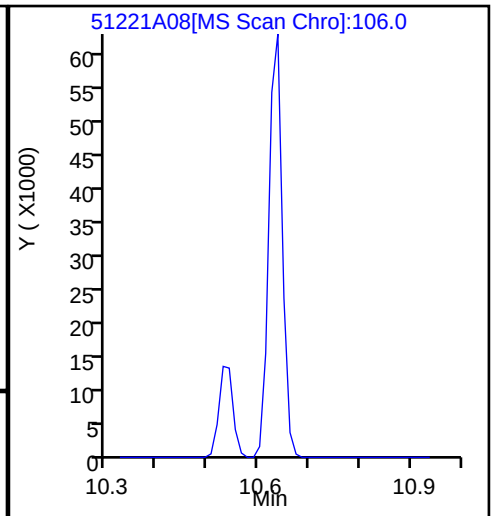
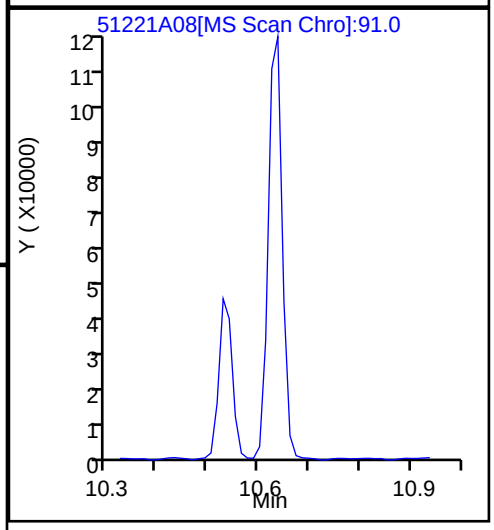
Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

55 m+p-Xylenes







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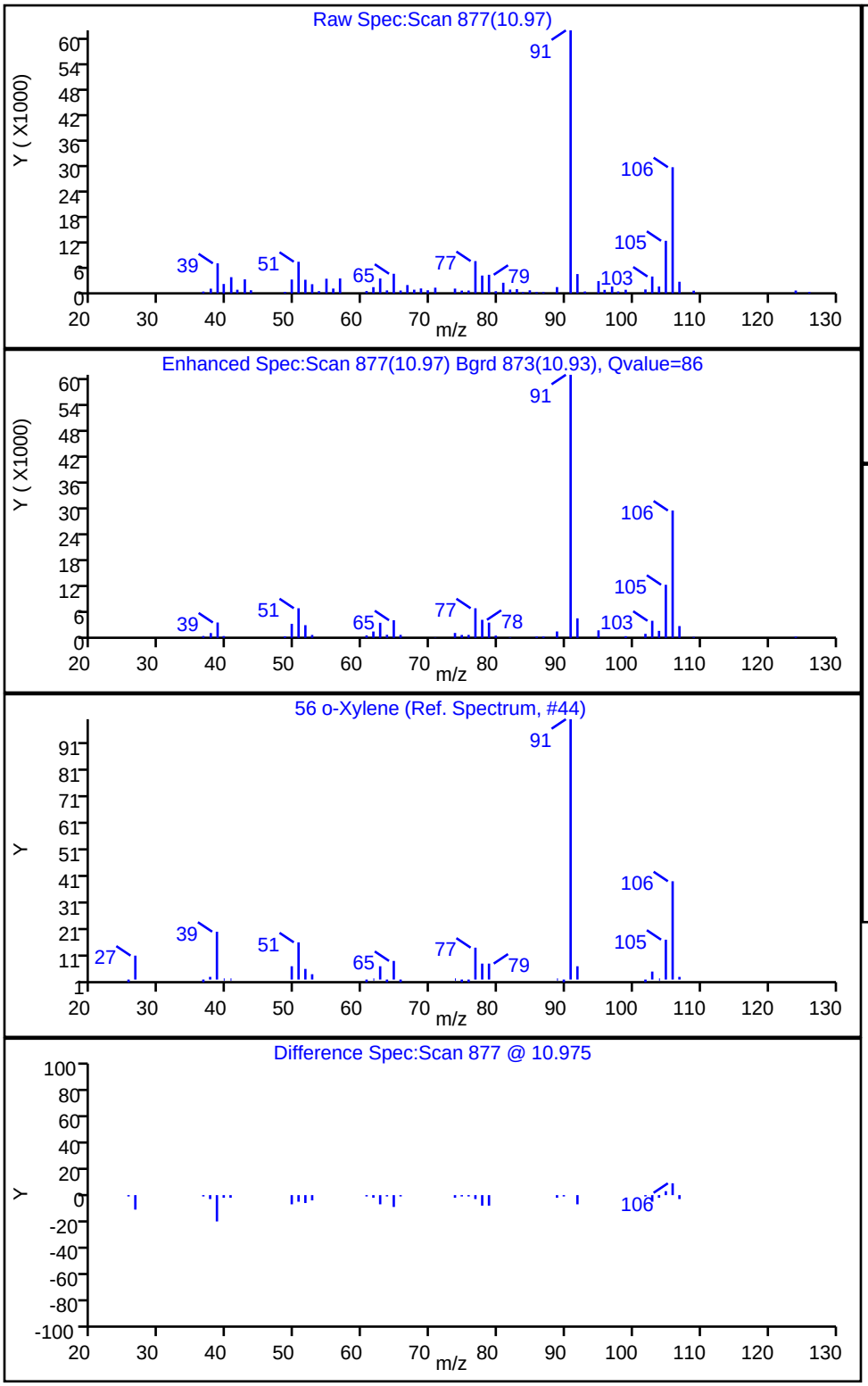
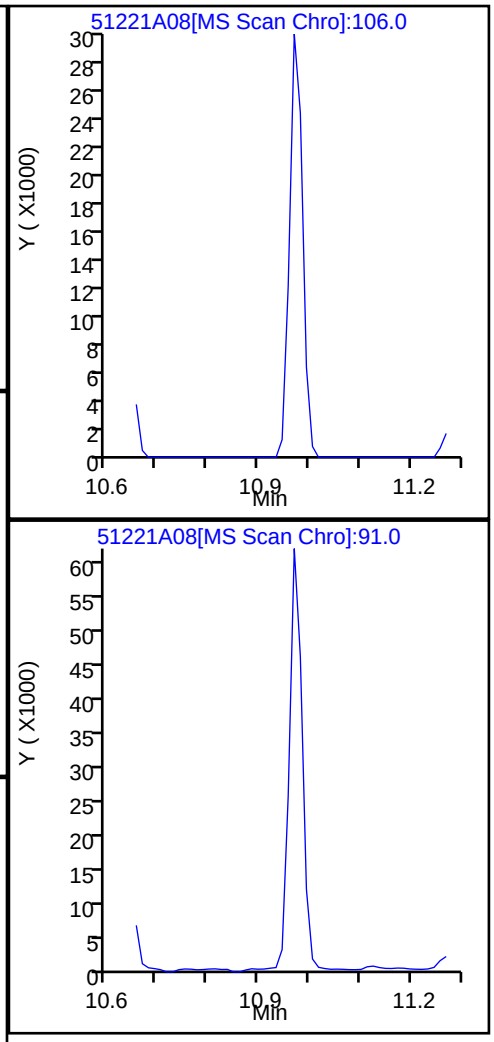
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

56 o-Xylene





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Shealy Environmental Services

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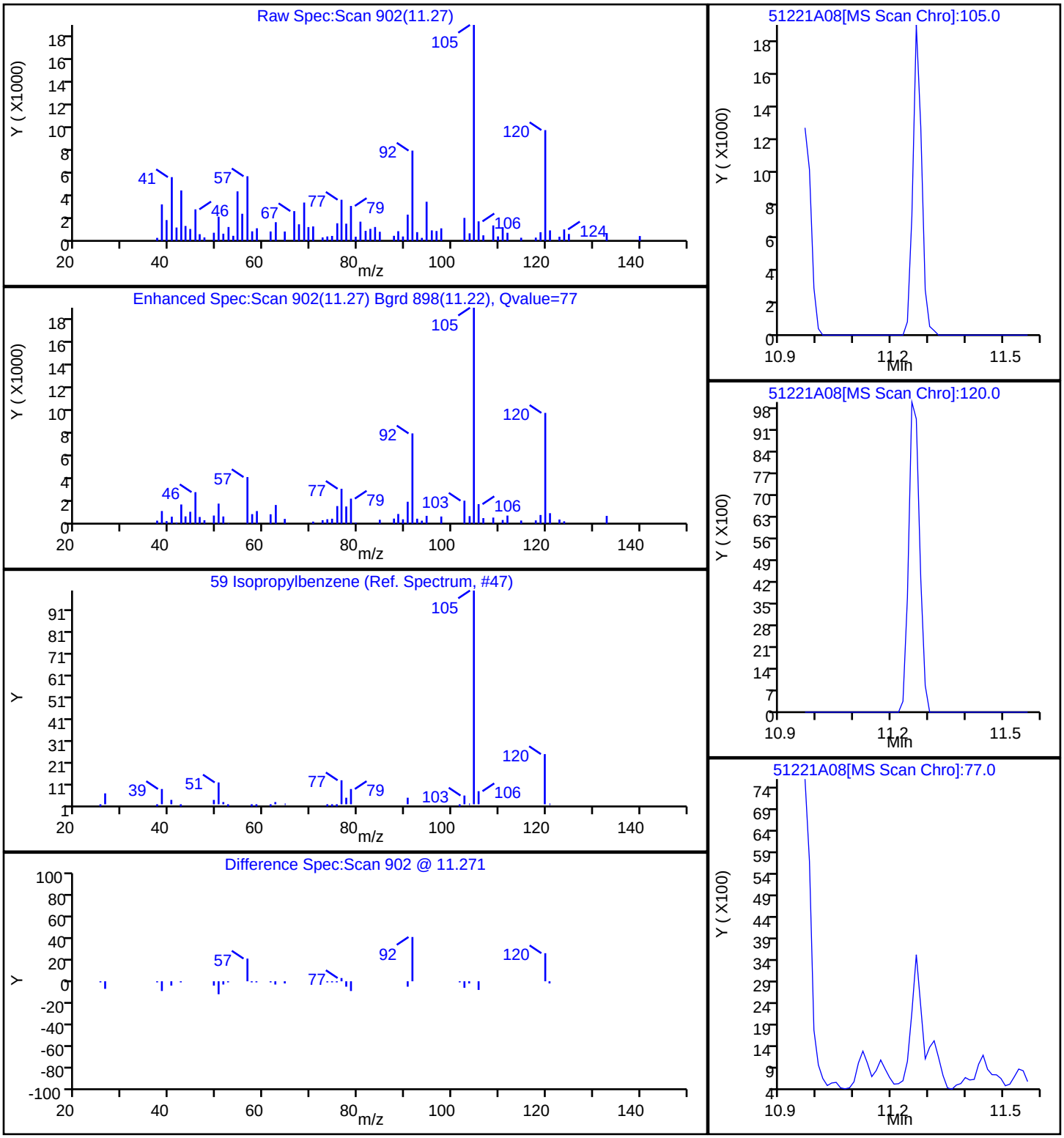
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

59 Isopropylbenzene



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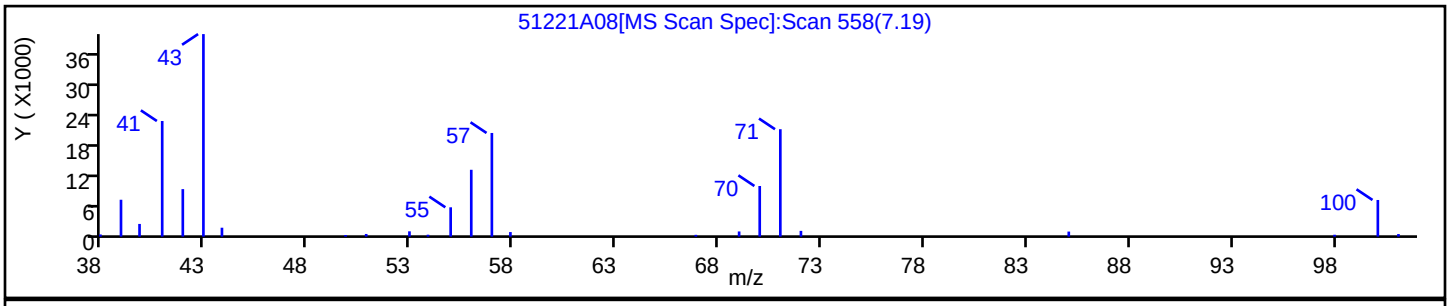
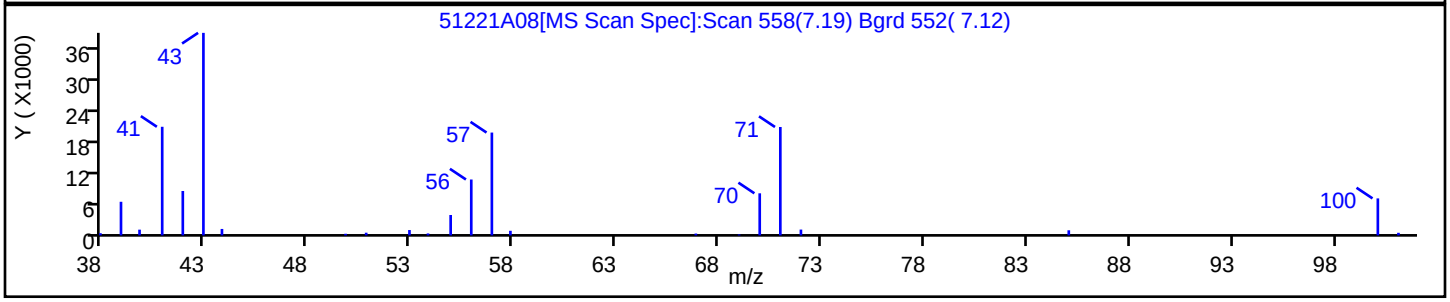
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 7.180

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





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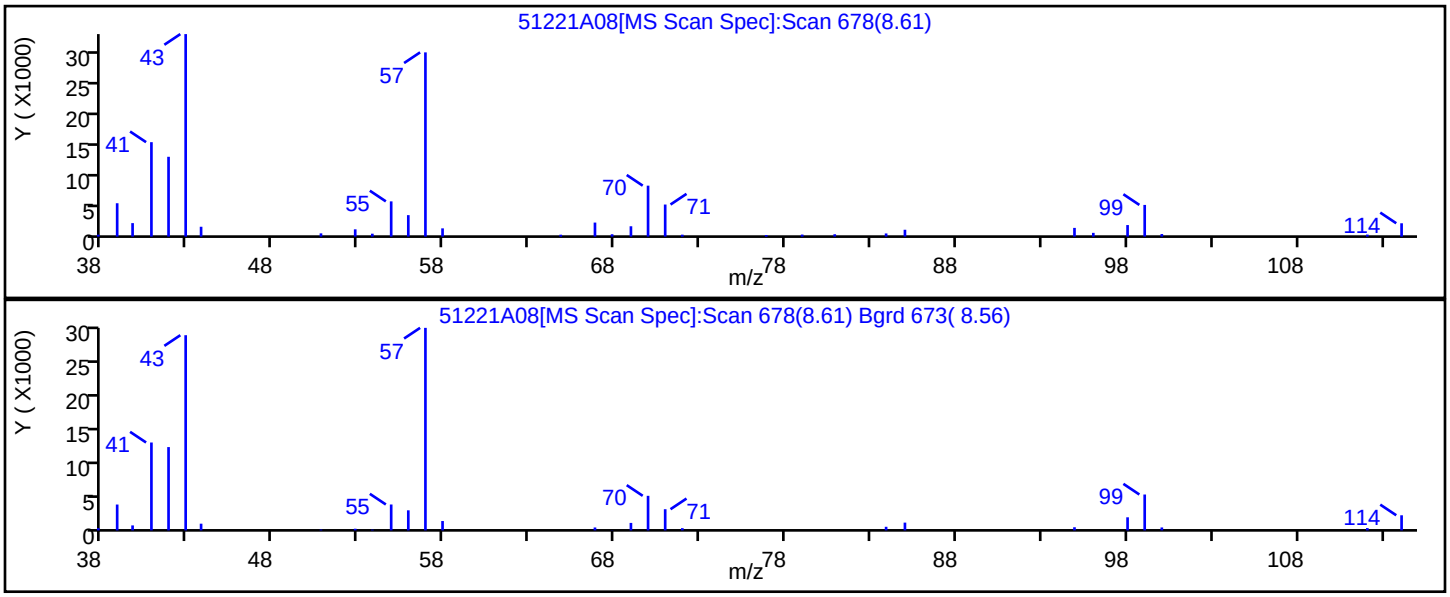
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 8.603

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



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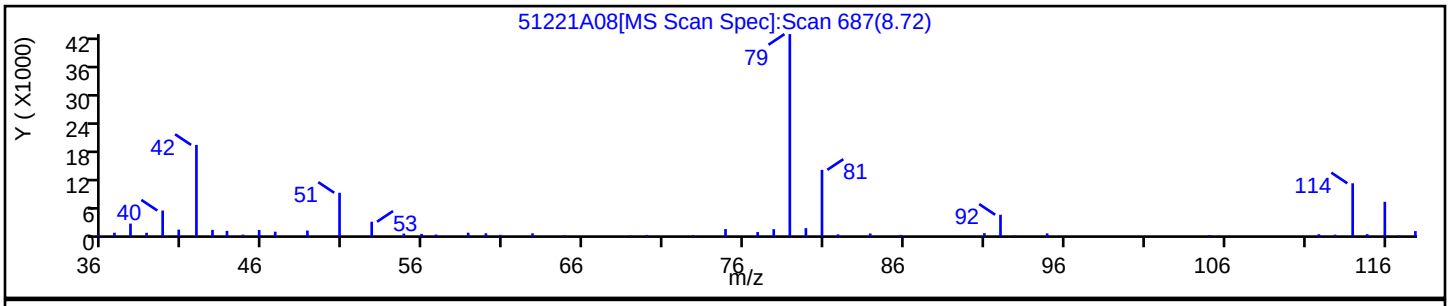
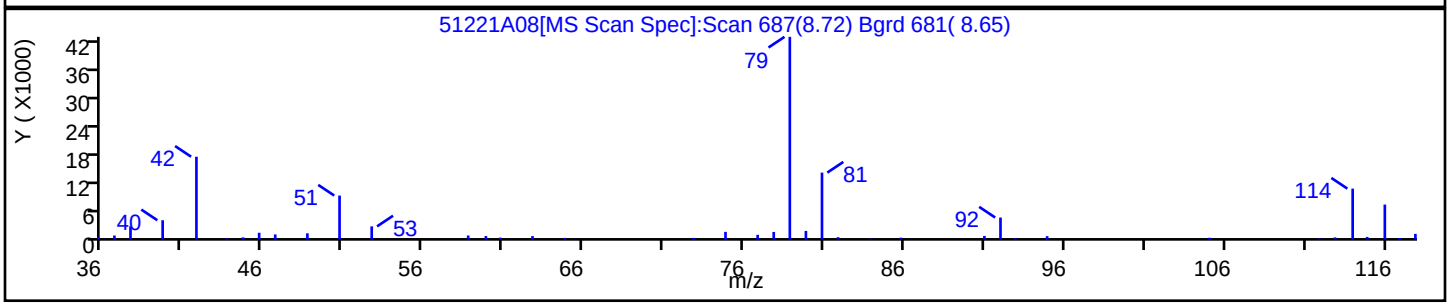
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 8.710

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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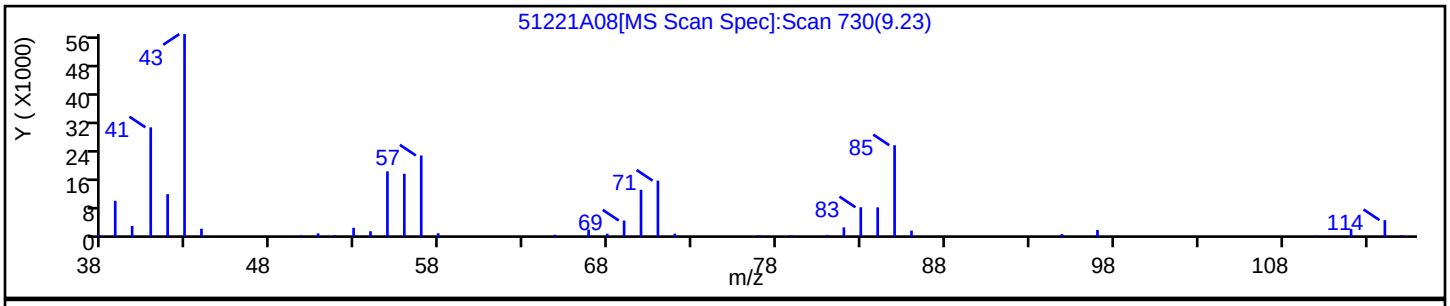
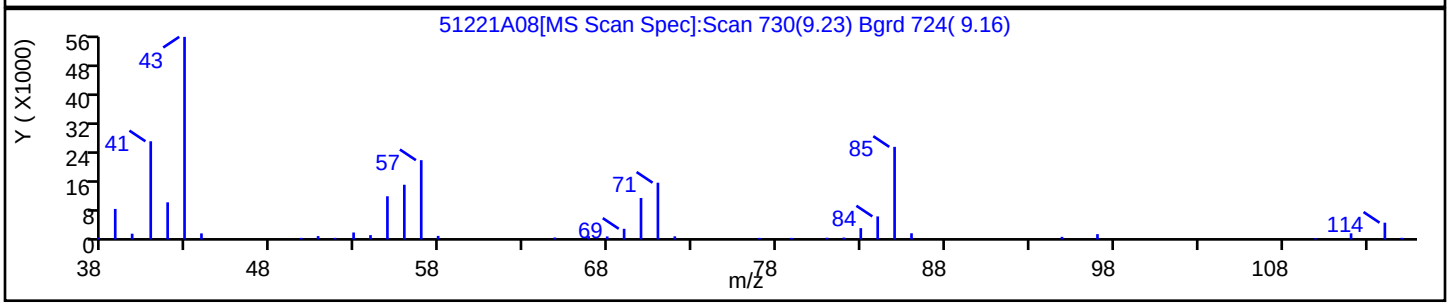
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 9.220

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





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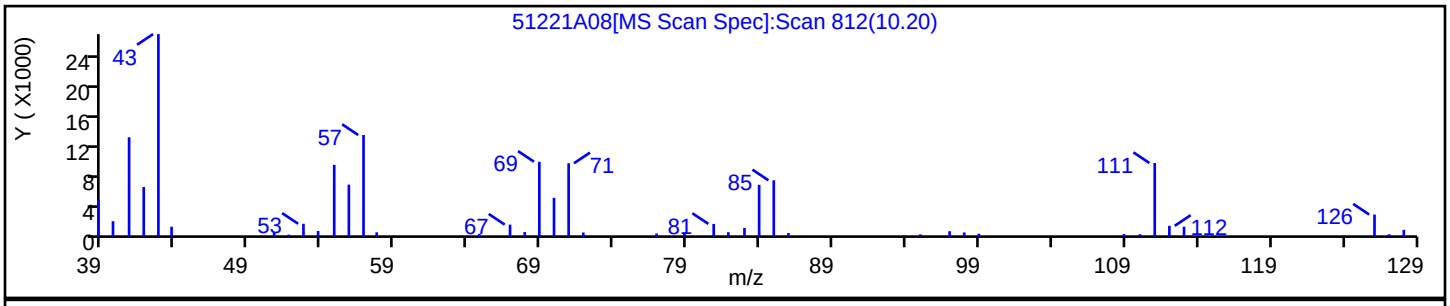
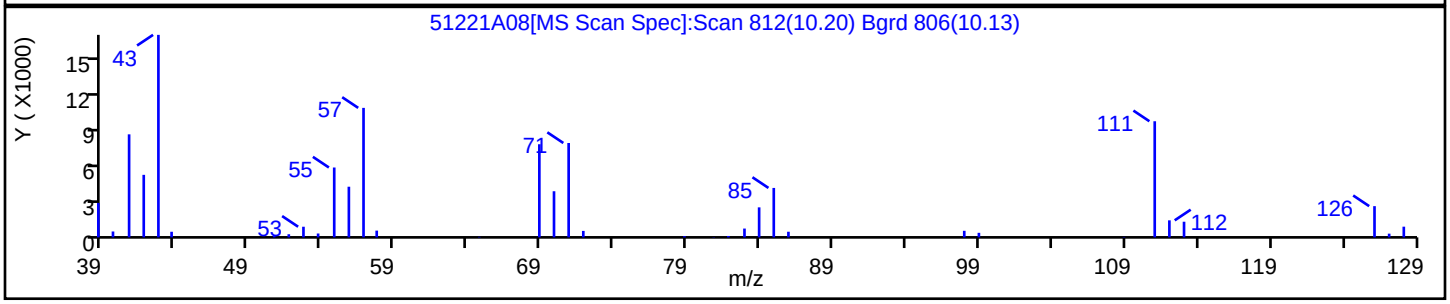
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.192

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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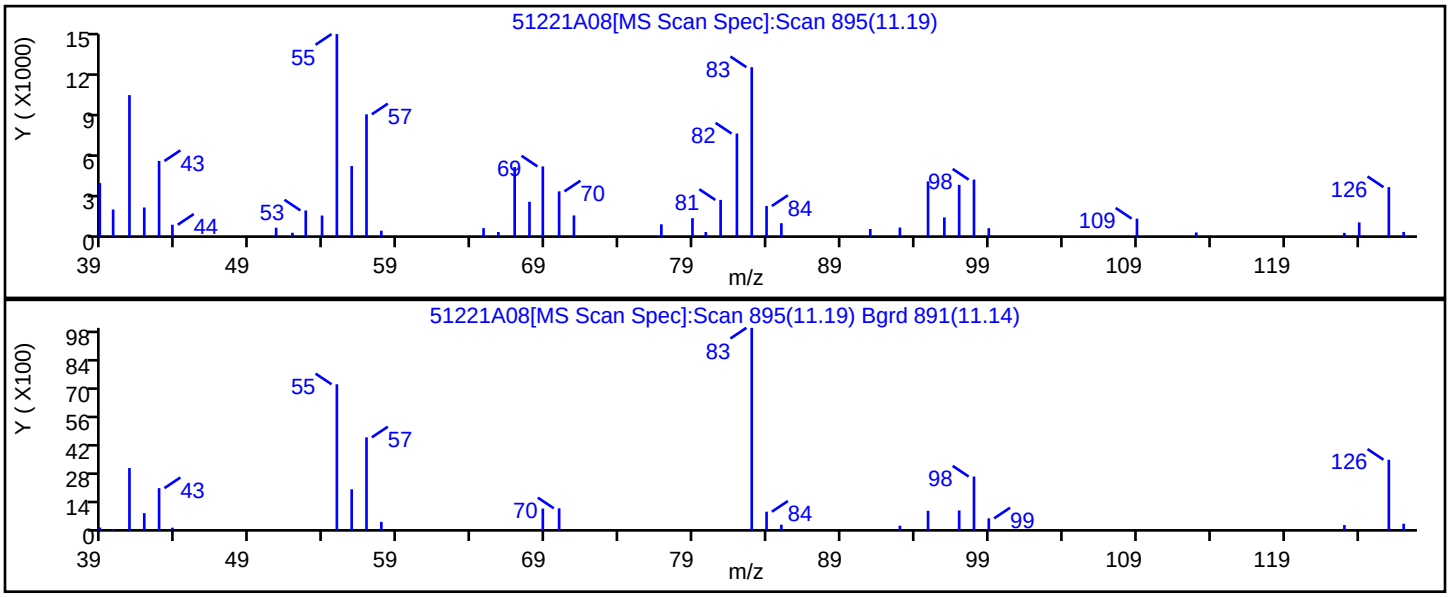
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.176

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



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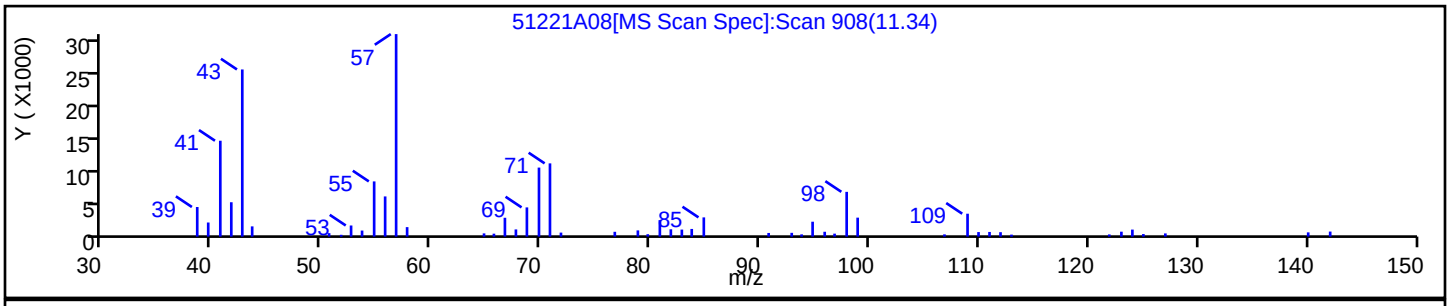
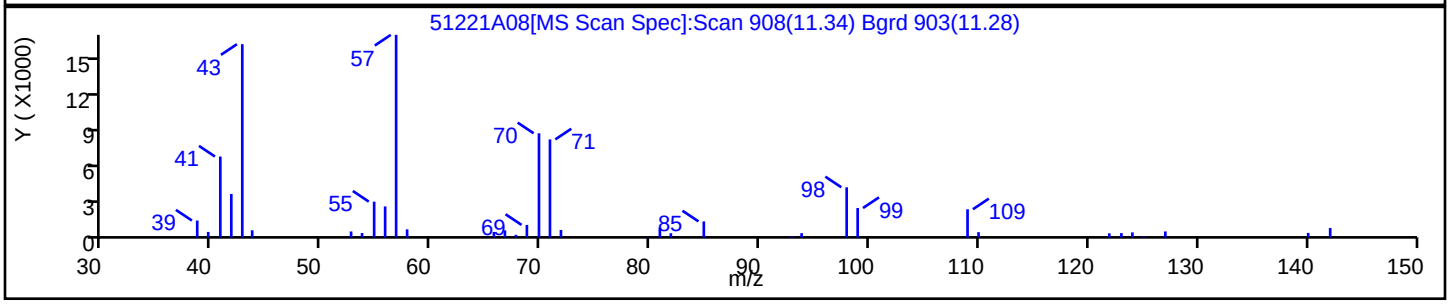
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.331

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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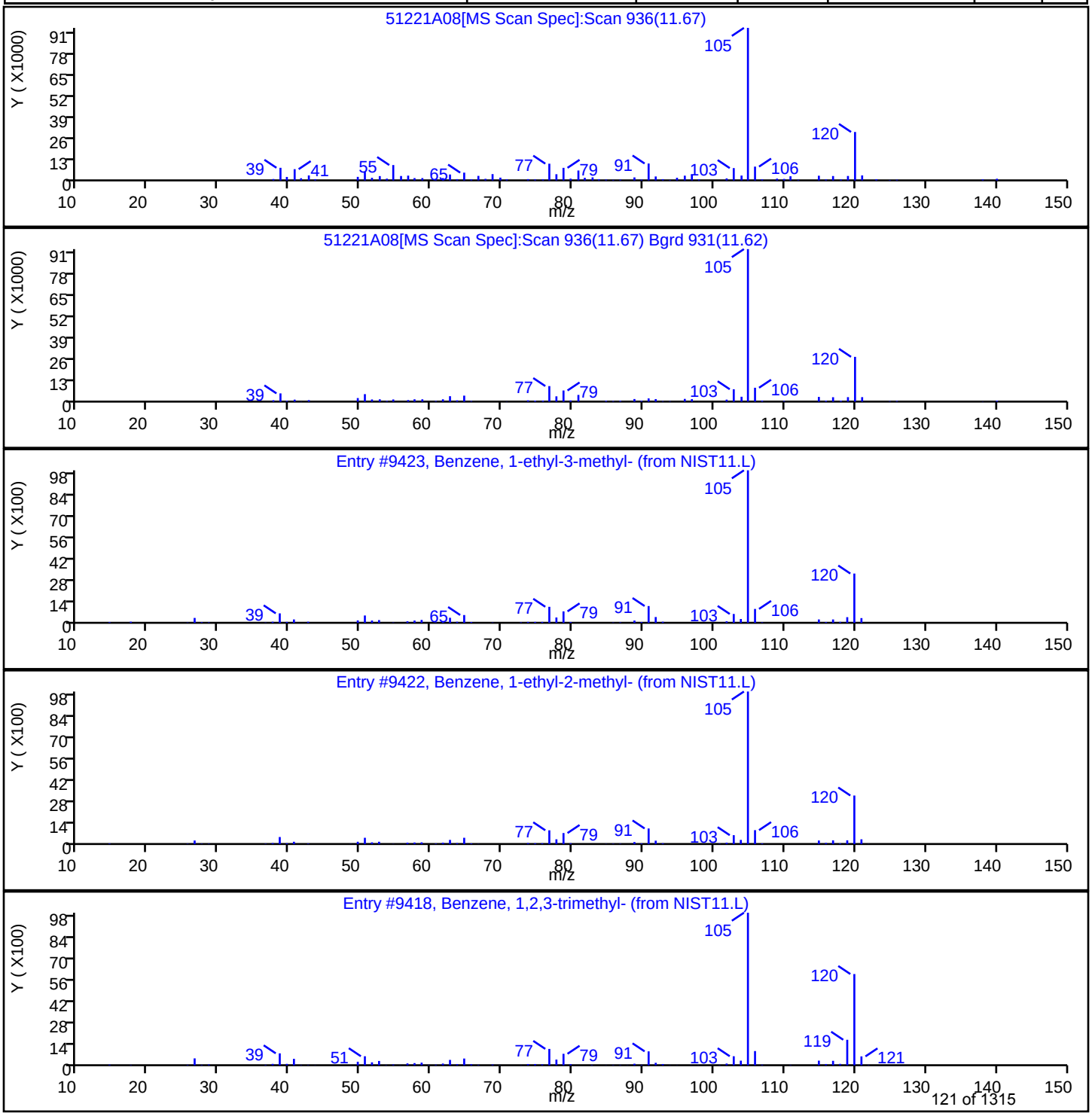
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.663

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST11	9423	C9H12	120	97
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST11	9422	C9H12	120	95
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9418	C9H12	120	91



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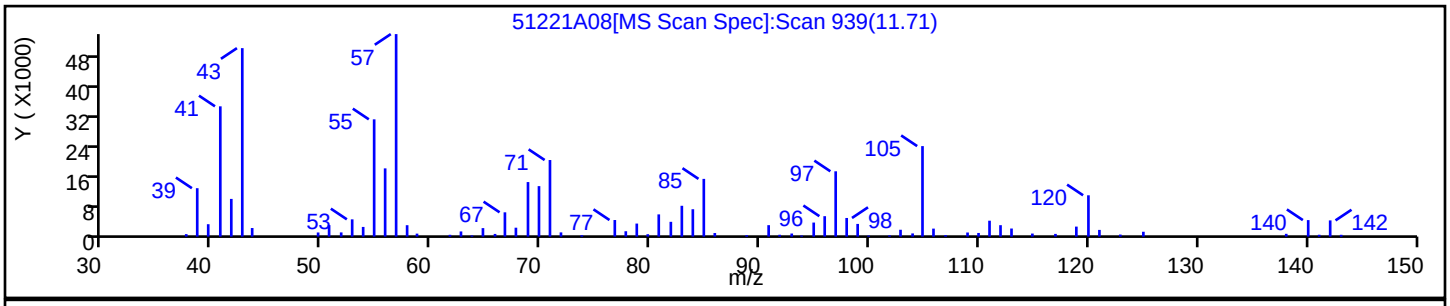
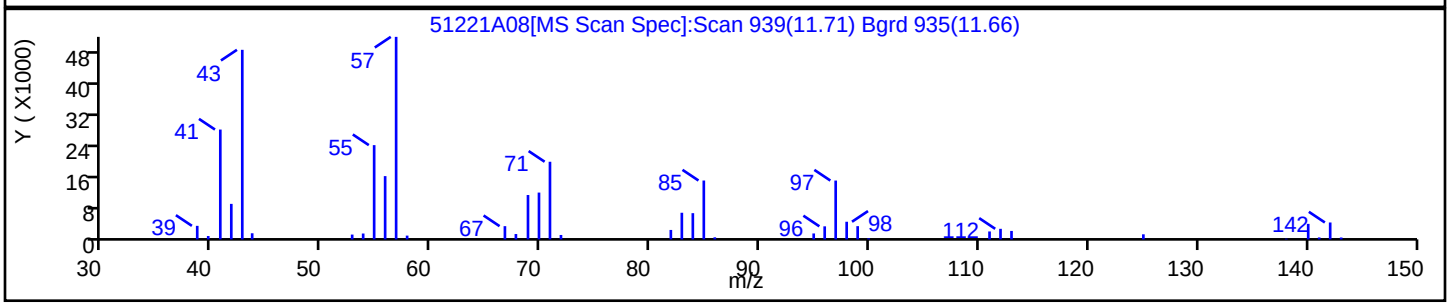
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.698

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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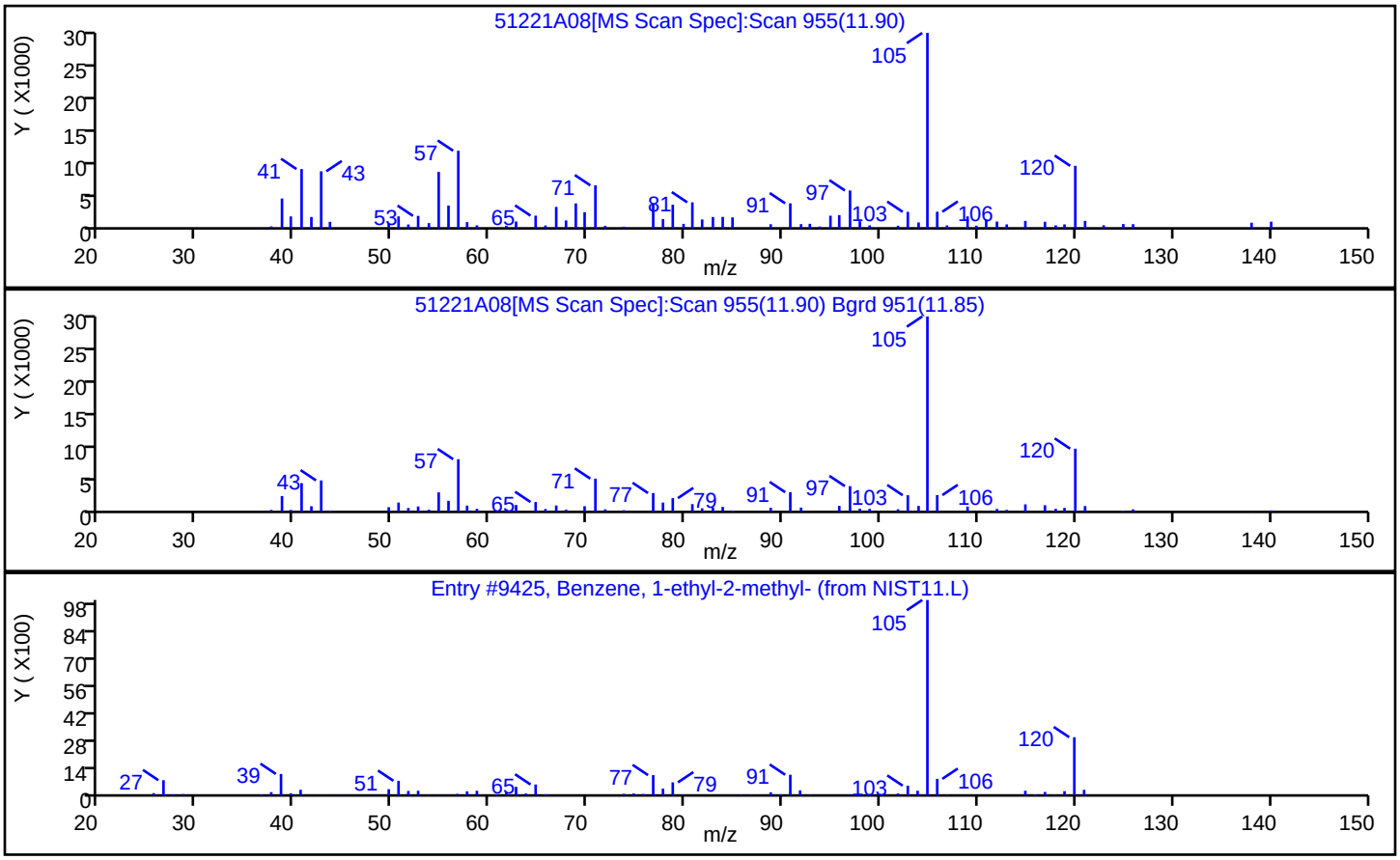
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.888

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST11	9425	C9H12	120	94



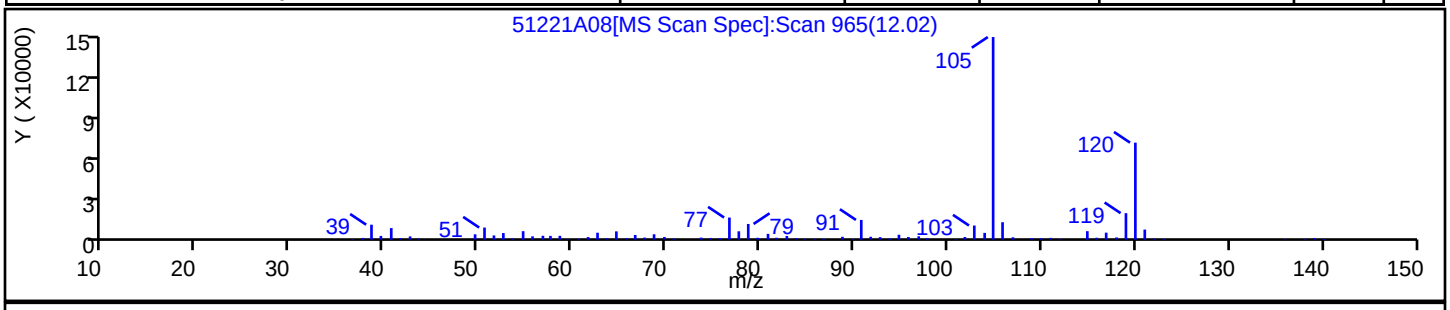
Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

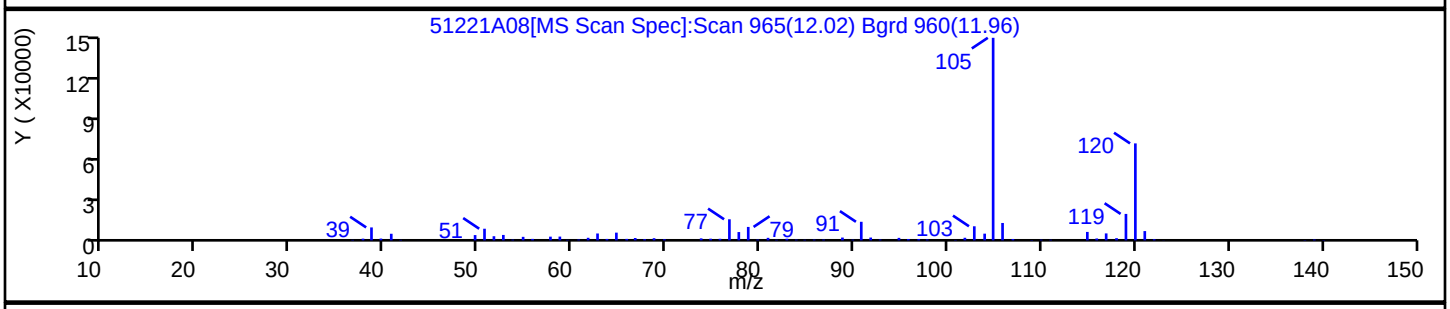
Shealy Environmental Services

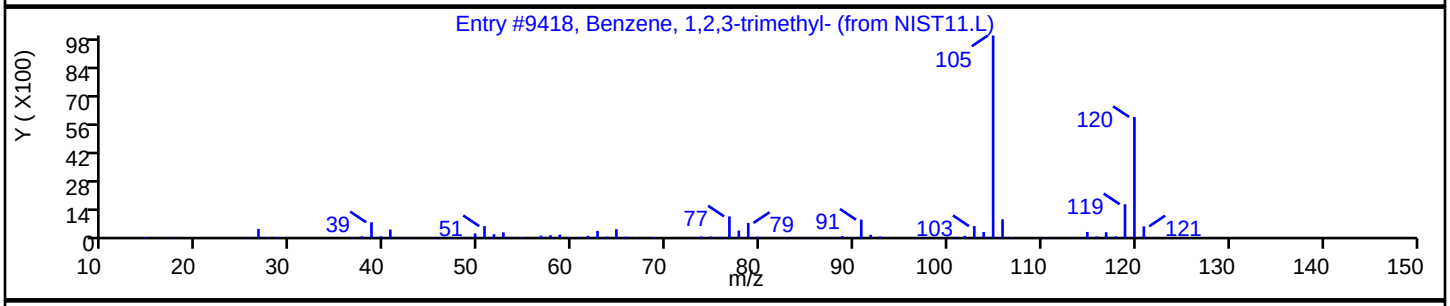
Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

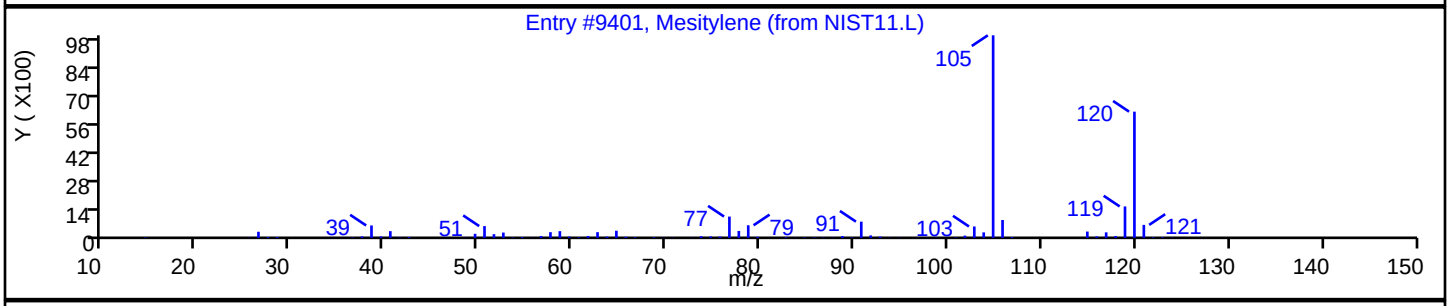
TIC @ 12.006

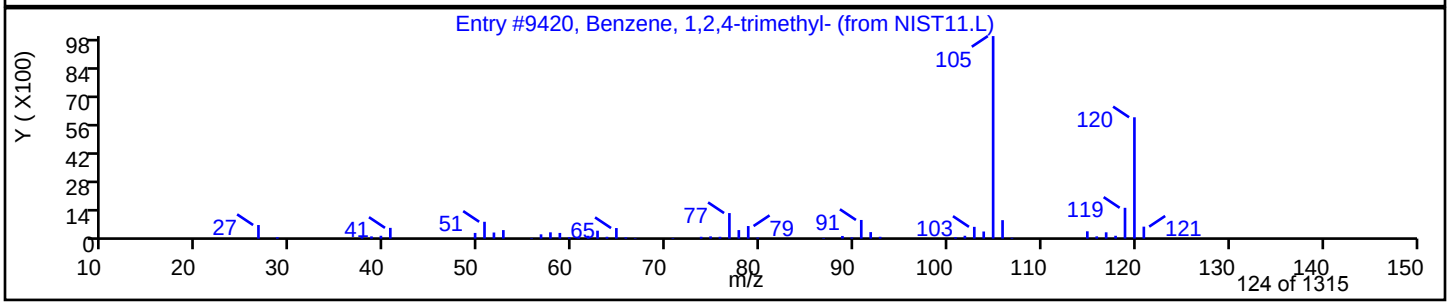
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9418	C9H12	120	97
Mesitylene	108-67-8	NIST11	9401	C9H12	120	97
Benzene, 1,2,4-trimethyl-	95-63-6	NIST11	9420	C9H12	120	95











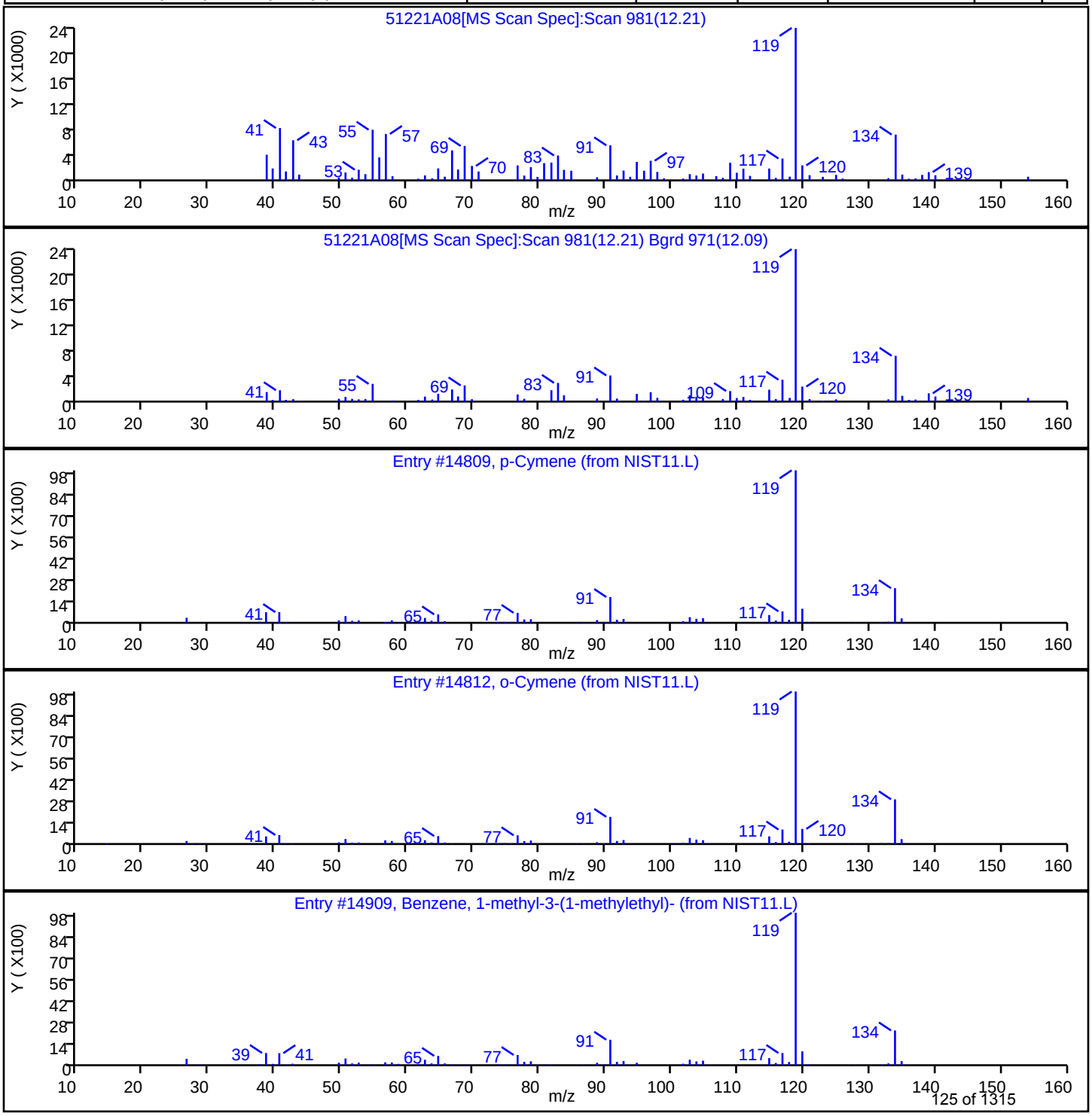
Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.196

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
p-Cymene	99-87-6	NIST11	14809	C10H14	134	93
o-Cymene	527-84-4	NIST11	14812	C10H14	134	93
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST11	14909	C10H14	134	92



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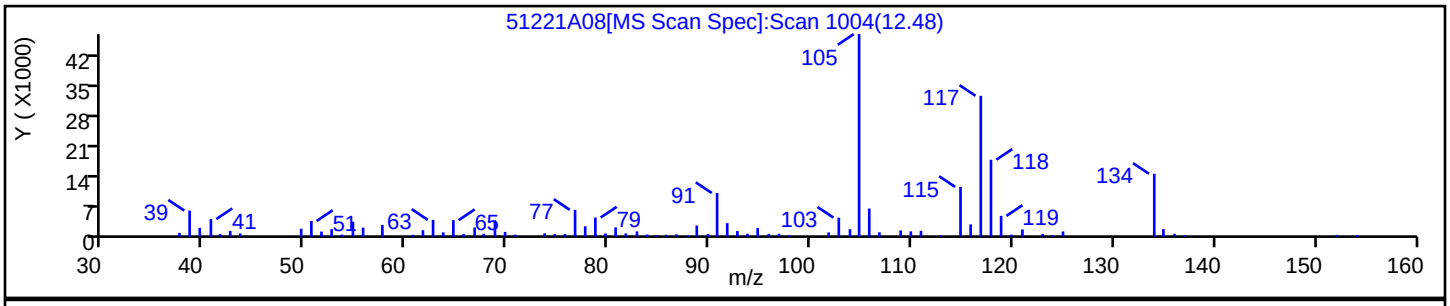
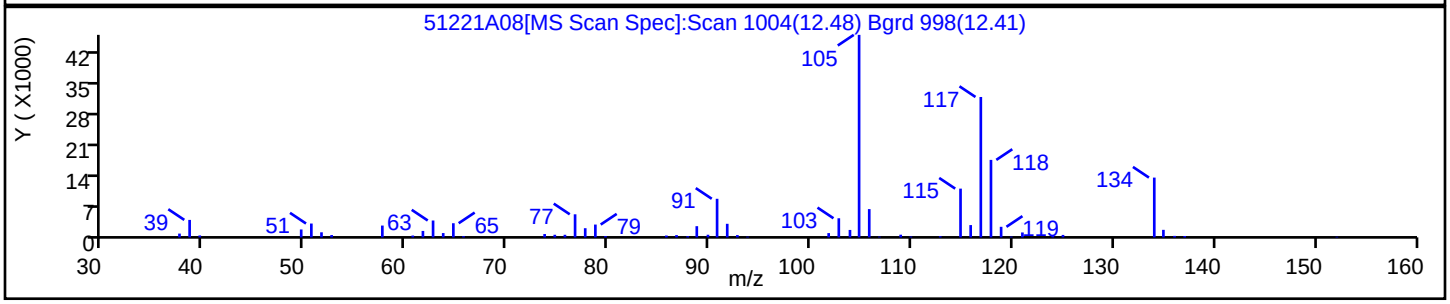
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.469

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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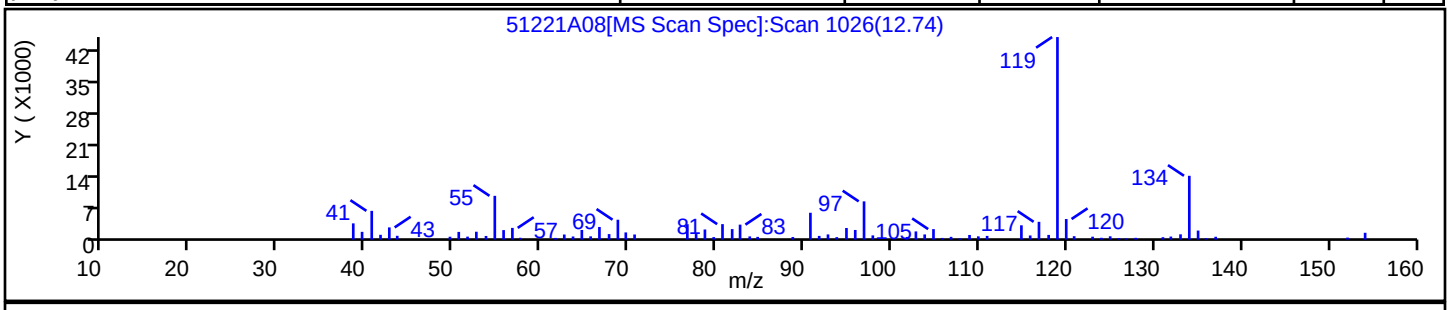
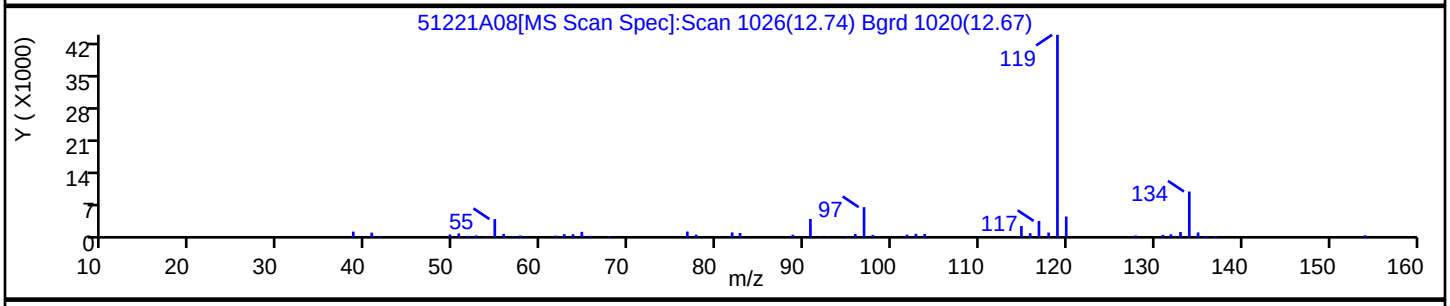
Shealy Environmental Services

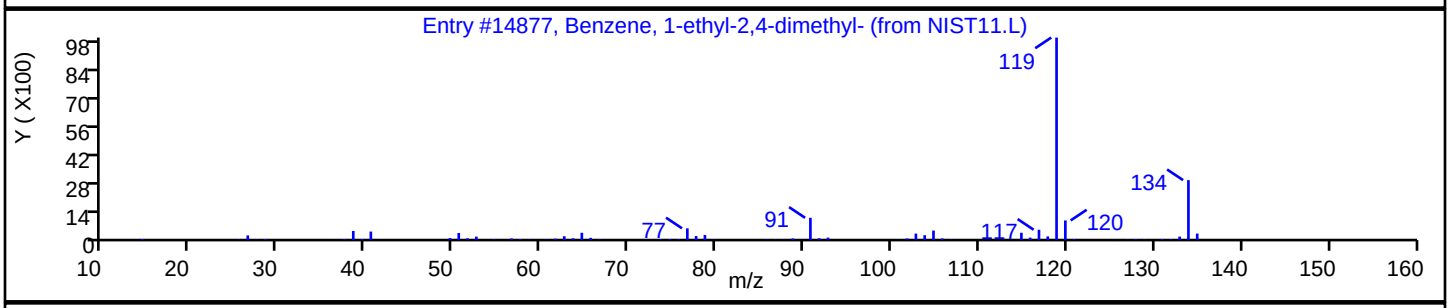
Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

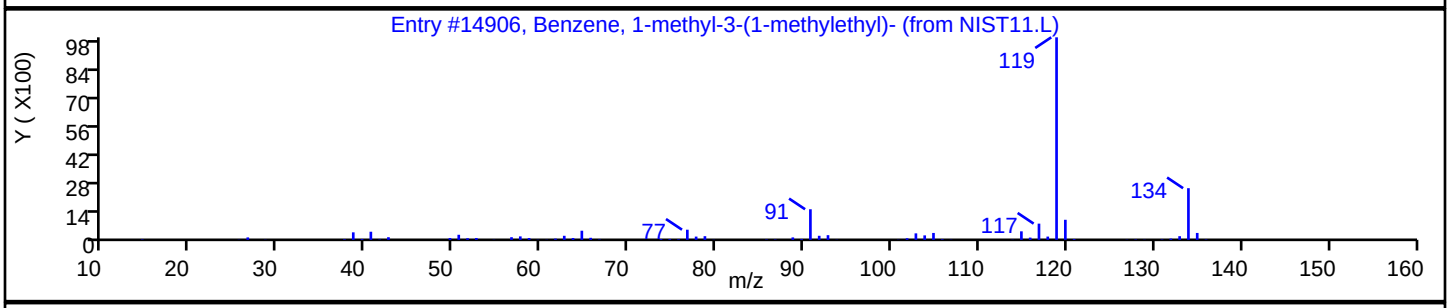
TIC @ 12.730

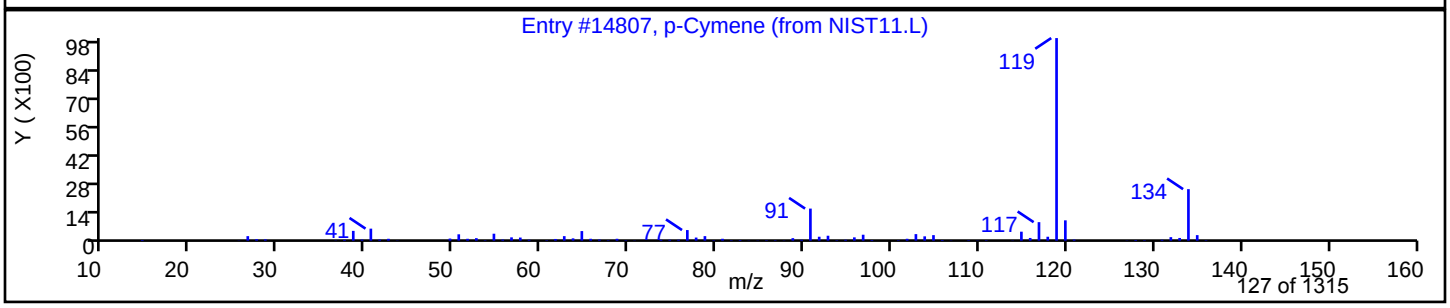
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIST11	14877	C10H14	134	97
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST11	14906	C10H14	134	95
p-Cymene	99-87-6	NIST11	14807	C10H14	134	94











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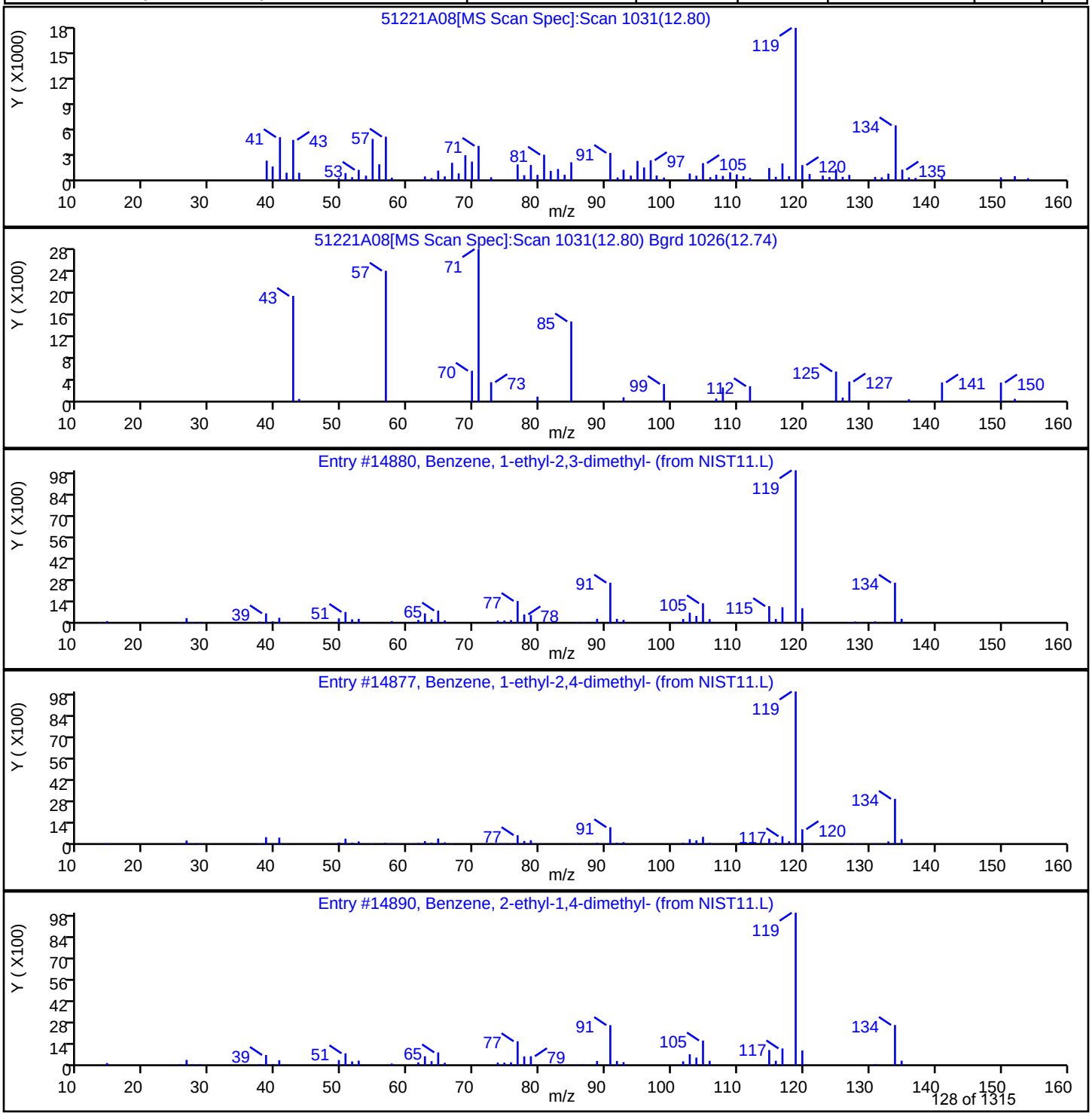
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.789

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST11	14880	C10H14	134	96
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIST11	14877	C10H14	134	97
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIST11	14890	C10H14	134	96



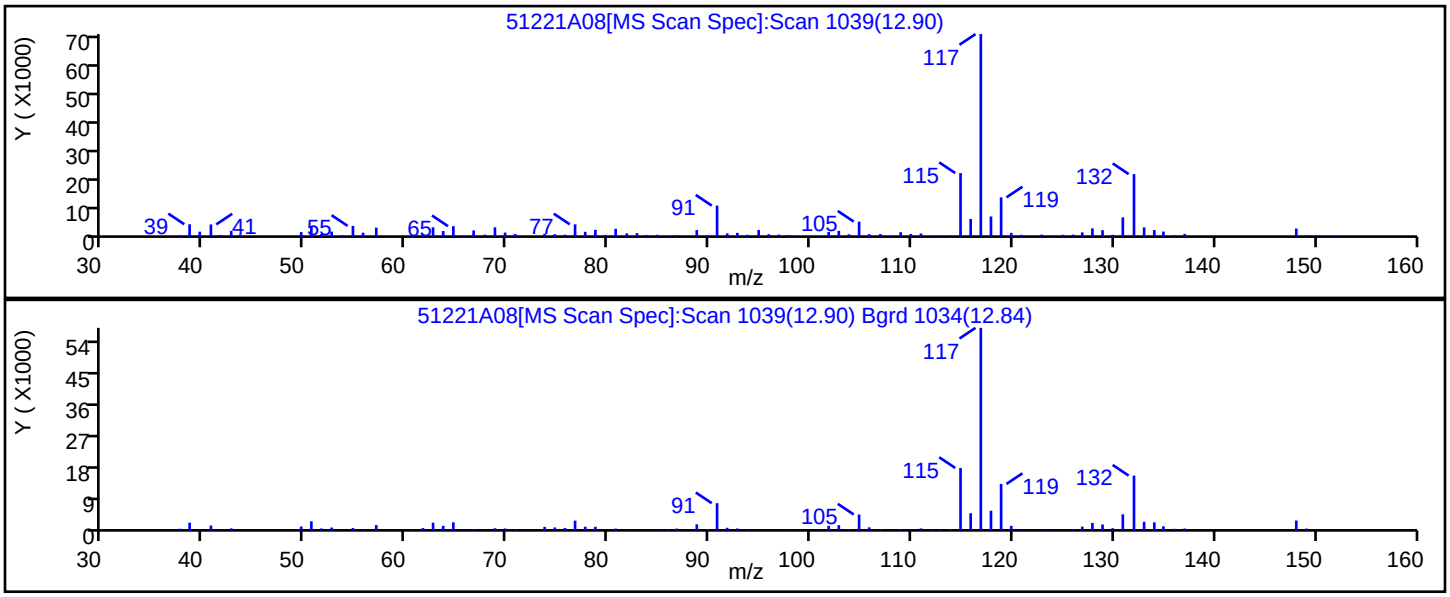
Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.884

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



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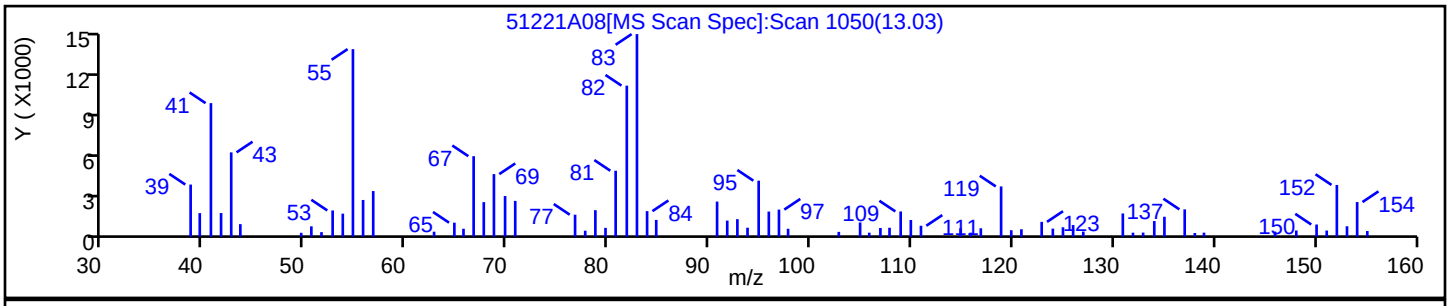
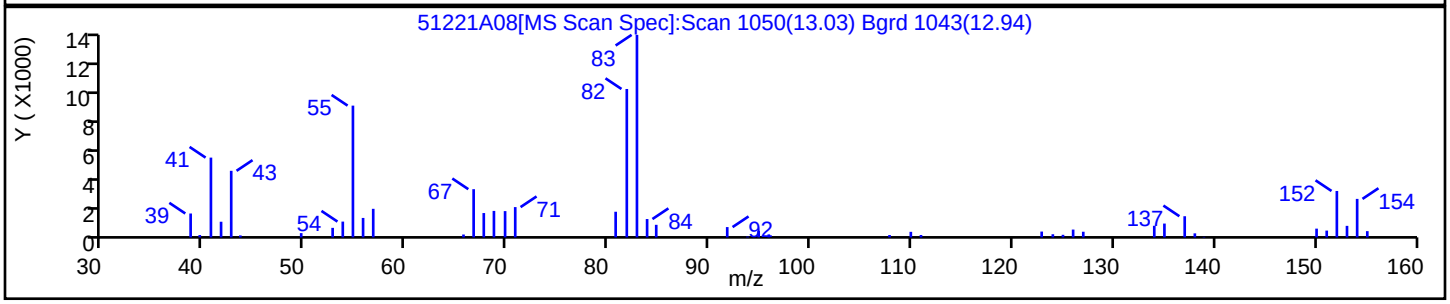
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.014

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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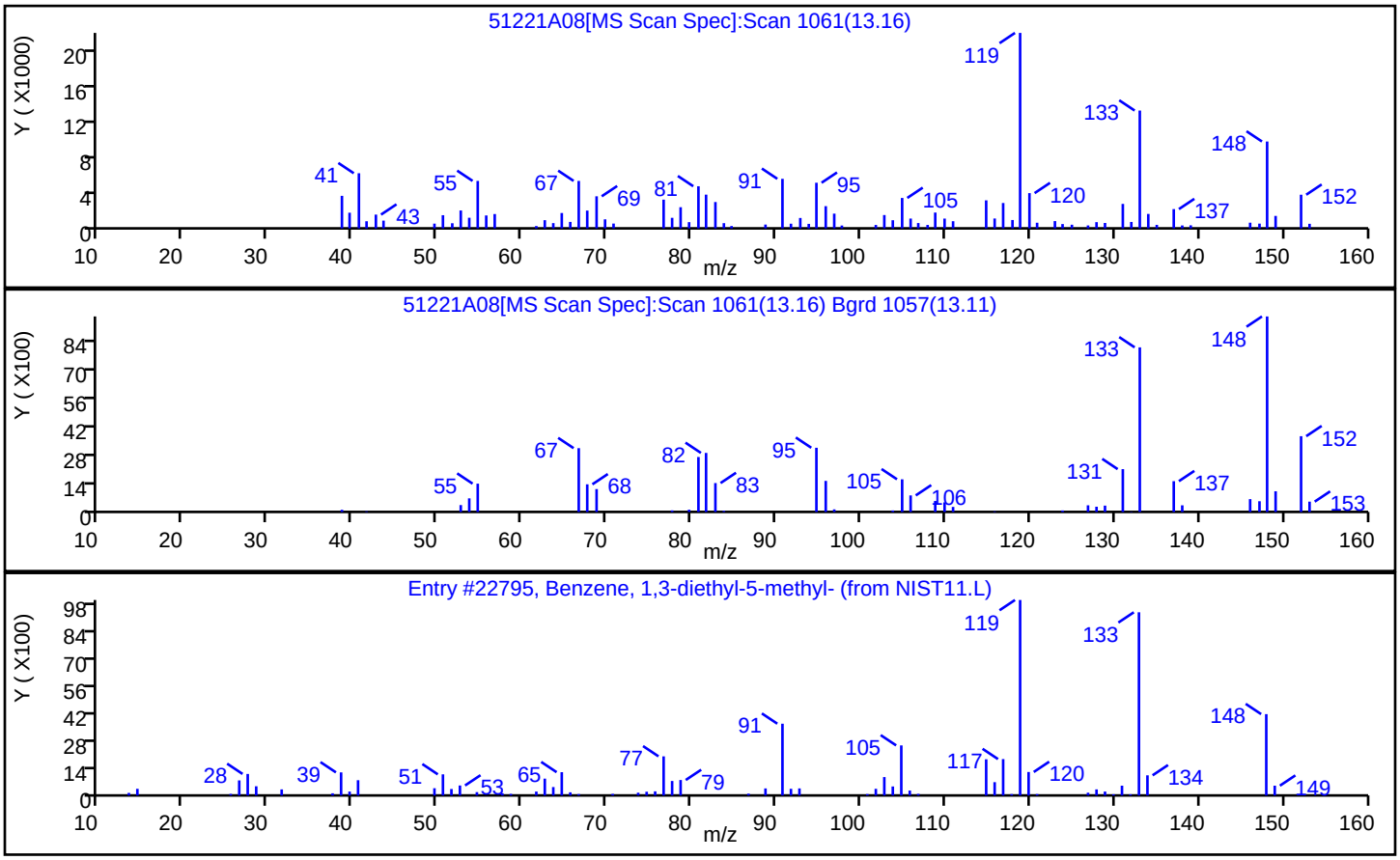
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.145

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3-diethyl-5-methyl-	2050-24-0	NIST11	22795	C11H16	148	97



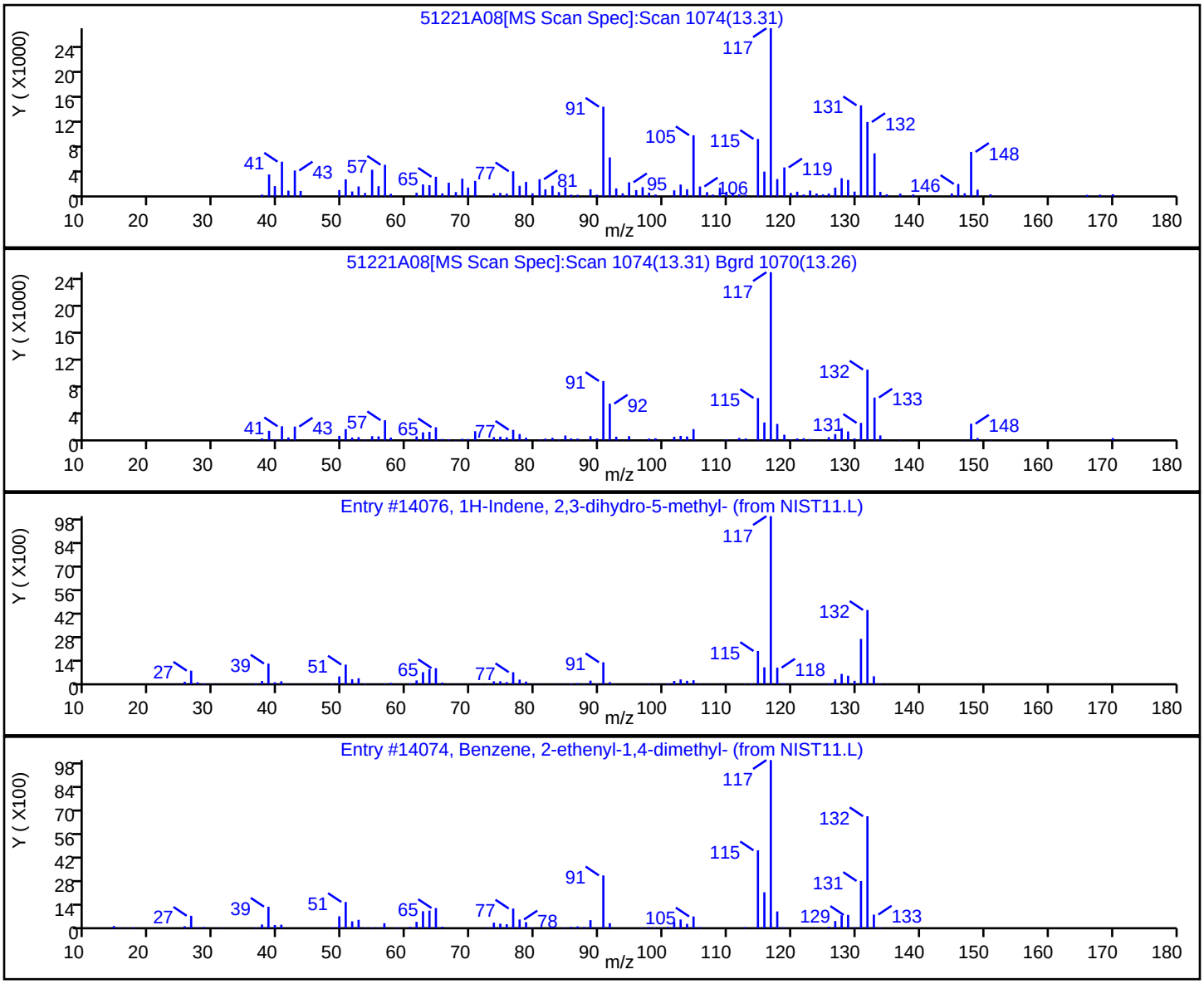
Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.299

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1H-Indene, 2,3-dihydro-5-methyl-	874-35-1	NIST11	14076	C10H12	132	92
Benzene, 2-ethenyl-1,4-dimethyl-	2039-89-6	NIST11	14074	C10H12	132	87



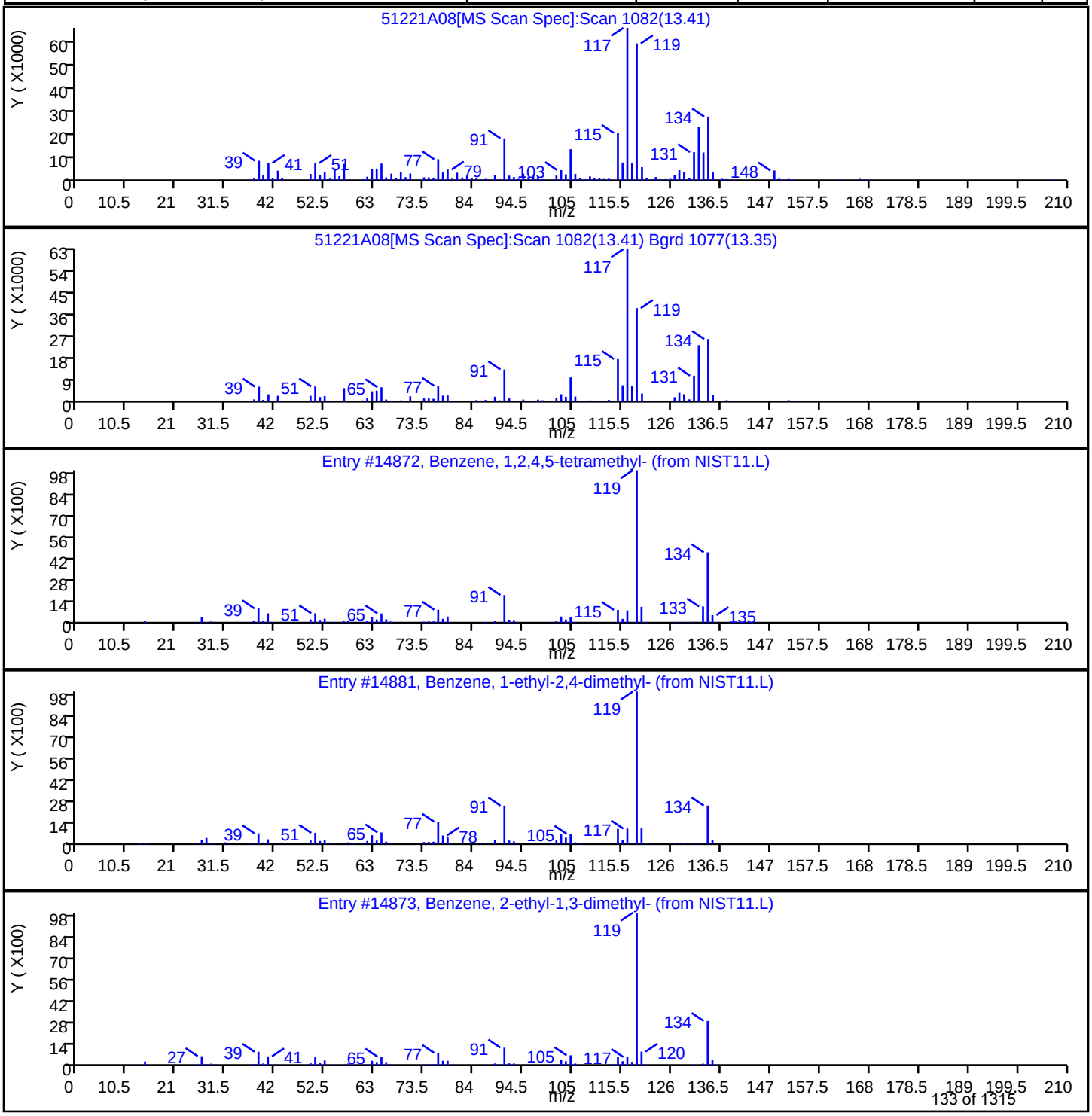
Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.394

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14872	C10H14	134	94
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIST11	14881	C10H14	134	94
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NIST11	14873	C10H14	134	94



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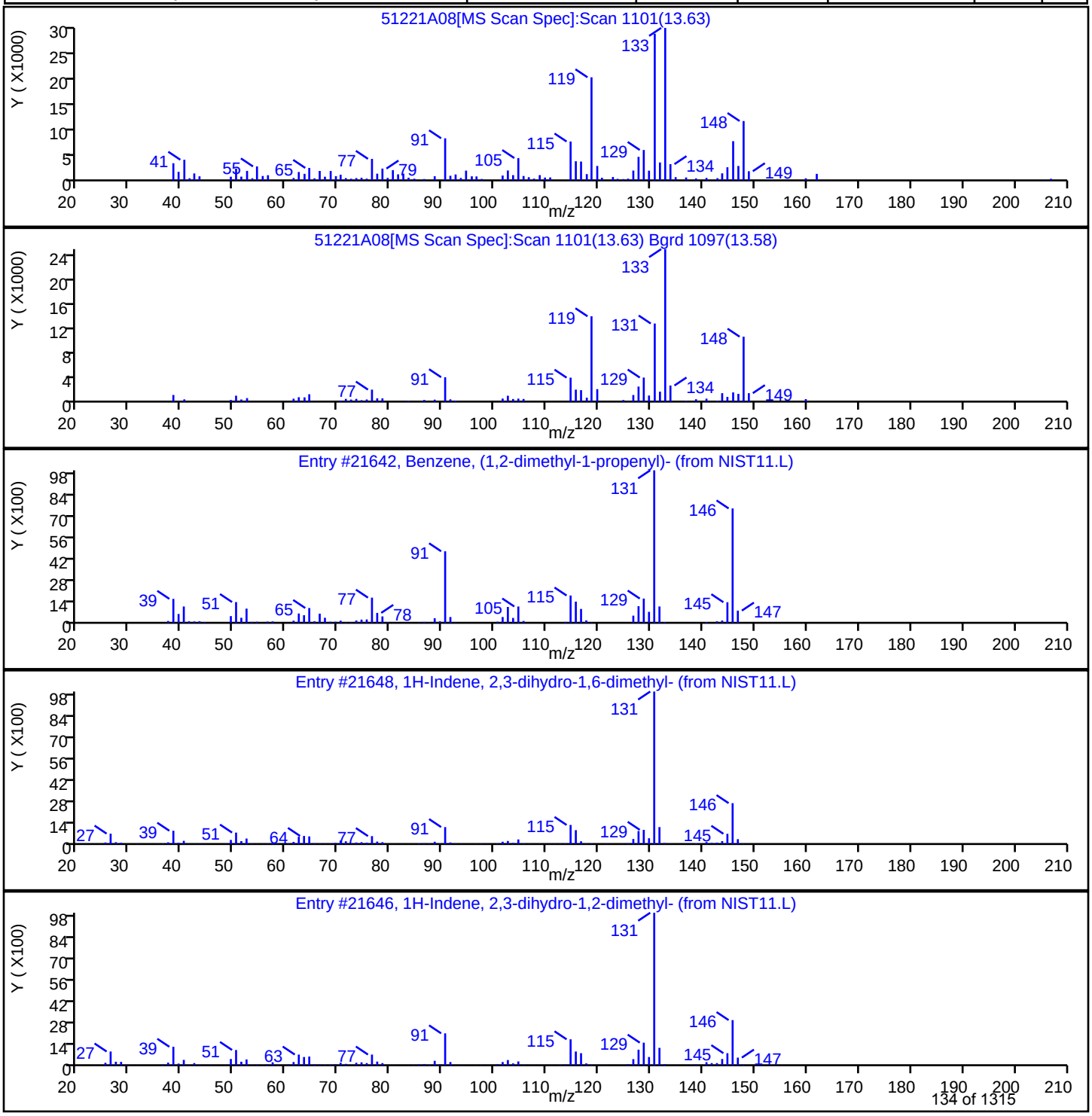
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.619

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, (1,2-dimethyl-1-propenyl)-	769-57-3	NIST11	21642	C11H14	146	93
1H-Indene, 2,3-dihydro-1,6-dimethyl-	17059-48-2	NIST11	21648	C11H14	146	91
1H-Indene, 2,3-dihydro-1,2-dimethyl-	17057-82-8	NIST11	21646	C11H14	146	86



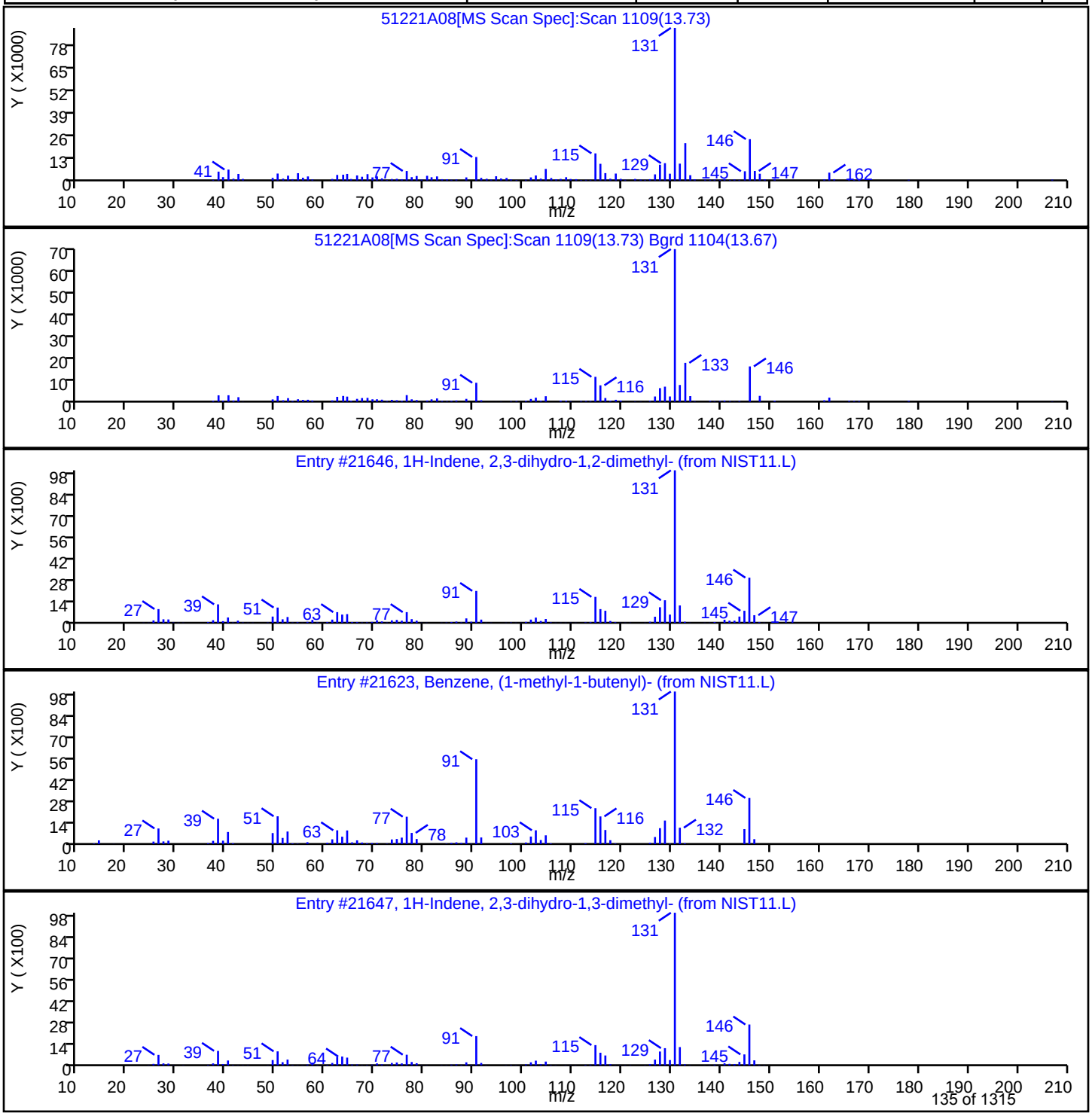
Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.714

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1H-Indene, 2,3-dihydro-1,2-dimethyl-	17057-82-8	NIST11	21646	C11H14	146	90
Benzene, (1-methyl-1-butenyl)-	53172-84-2	NIST11	21623	C11H14	146	90
1H-Indene, 2,3-dihydro-1,3-dimethyl-	4175-53-5	NIST11	21647	C11H14	146	86



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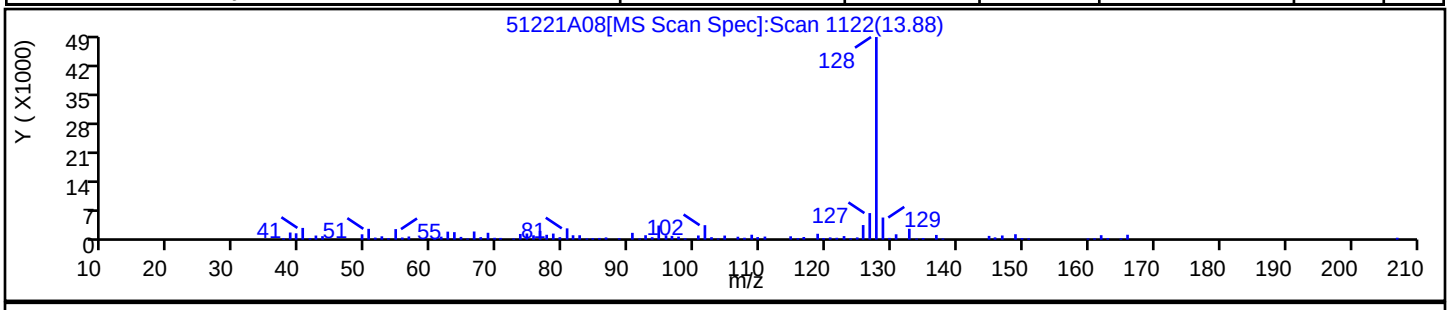
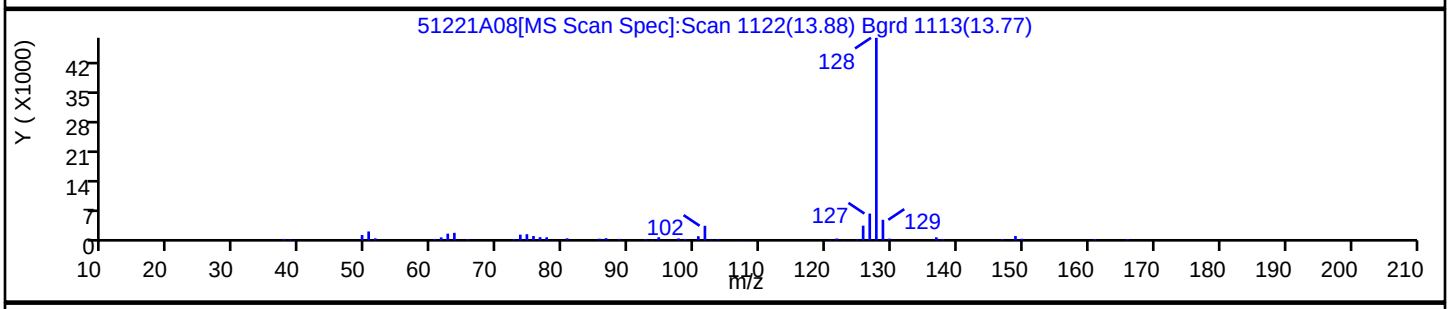
Shealy Environmental Services

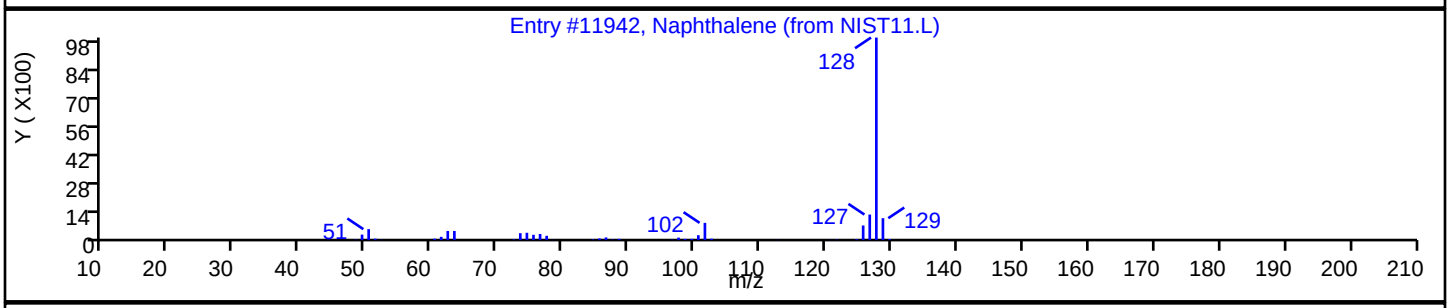
Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

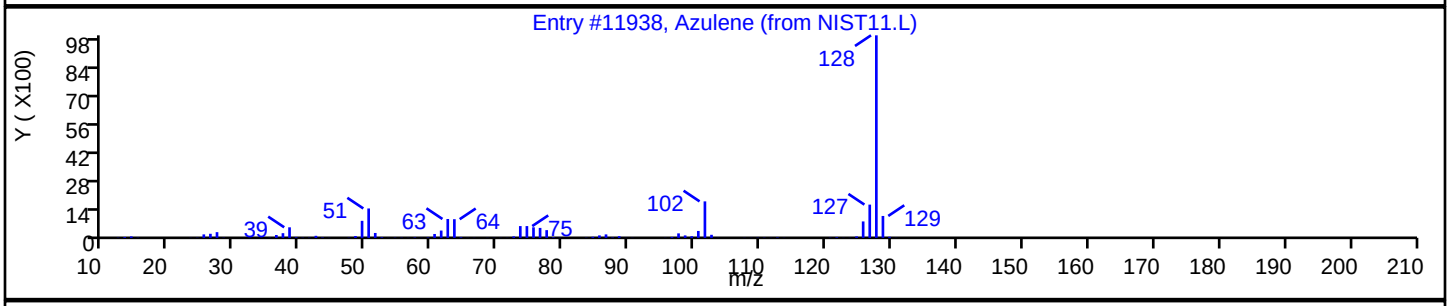
TIC @ 13.868

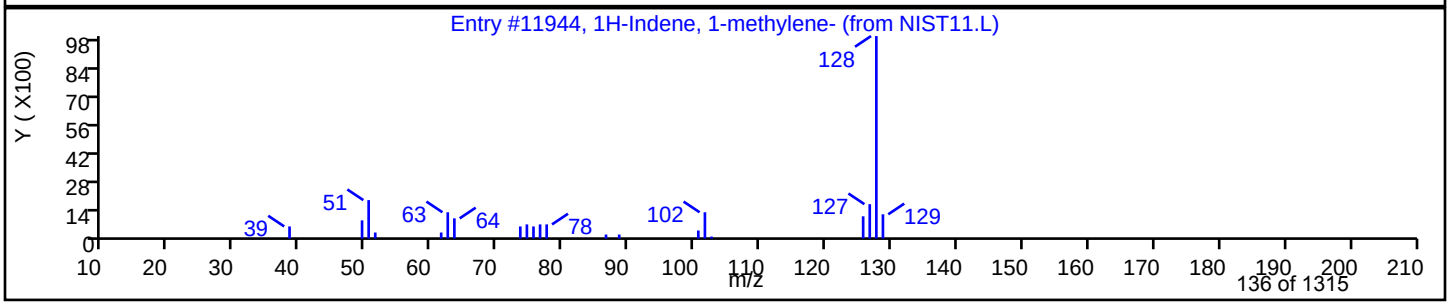
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene	91-20-3	NIST11	11942	C10H8	128	94
Azulene	275-51-4	NIST11	11938	C10H8	128	93
1H-Indene, 1-methylene-	2471-84-3	NIST11	11944	C10H8	128	90











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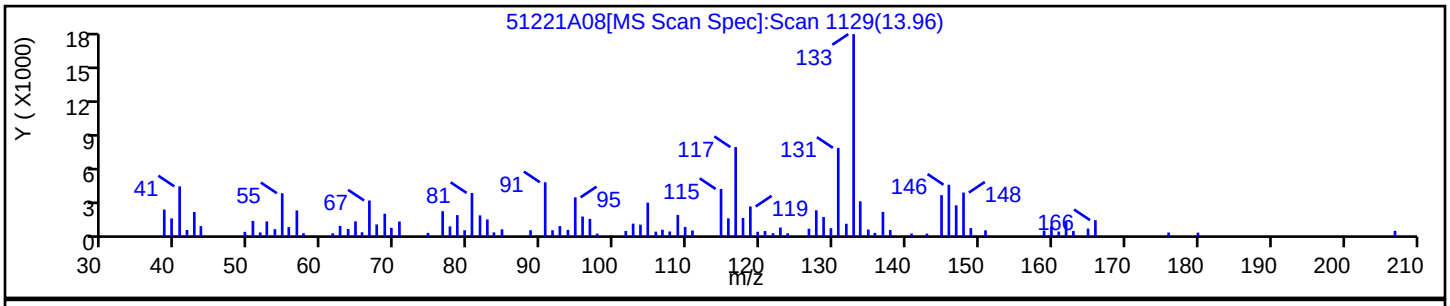
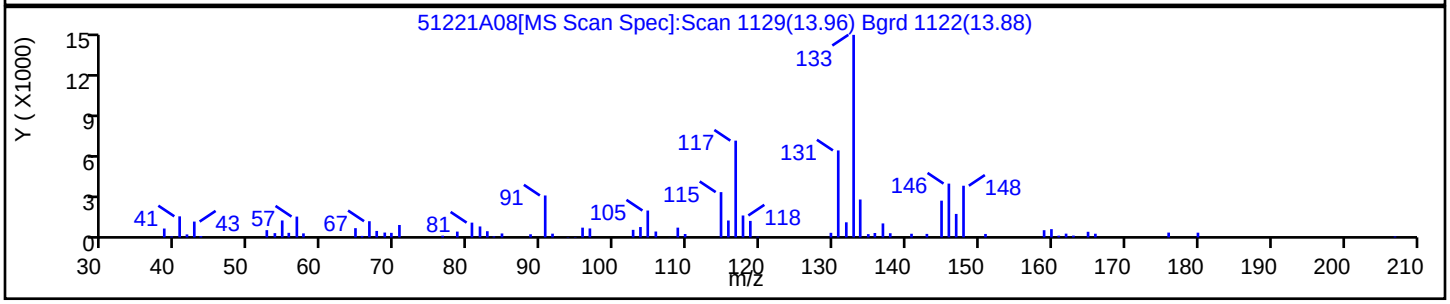
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.951

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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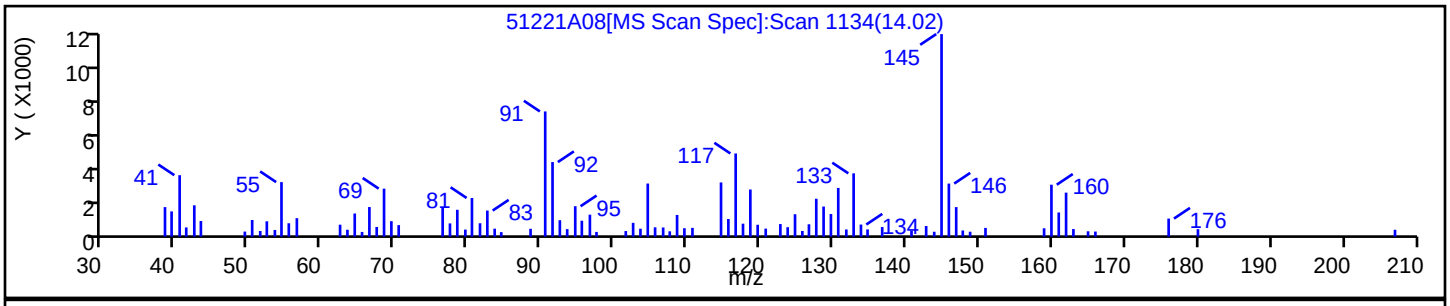
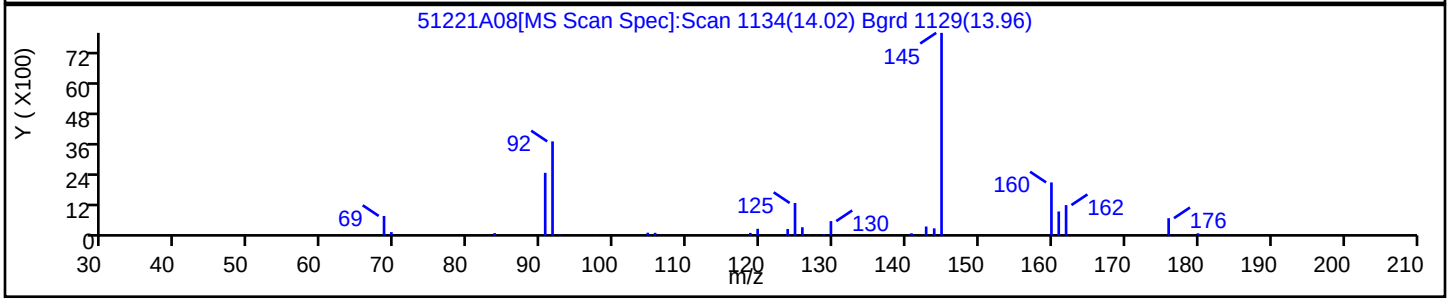
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.011

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





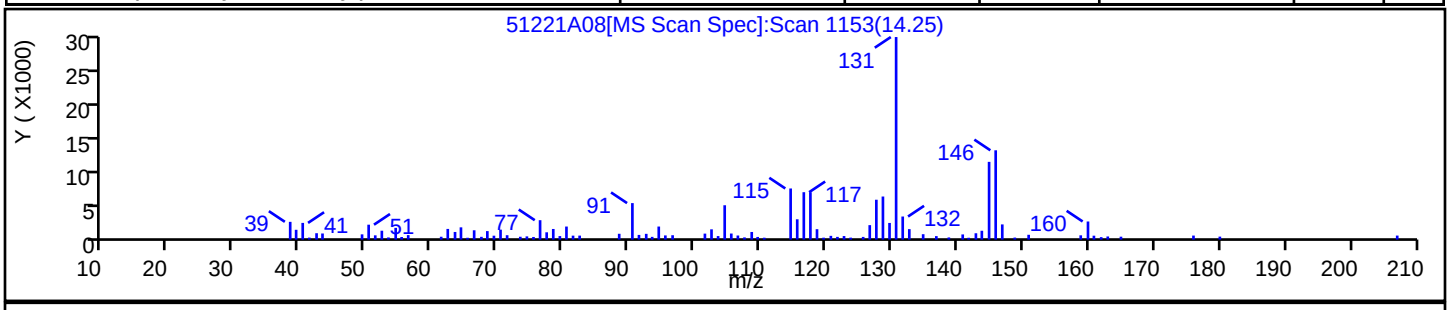
Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

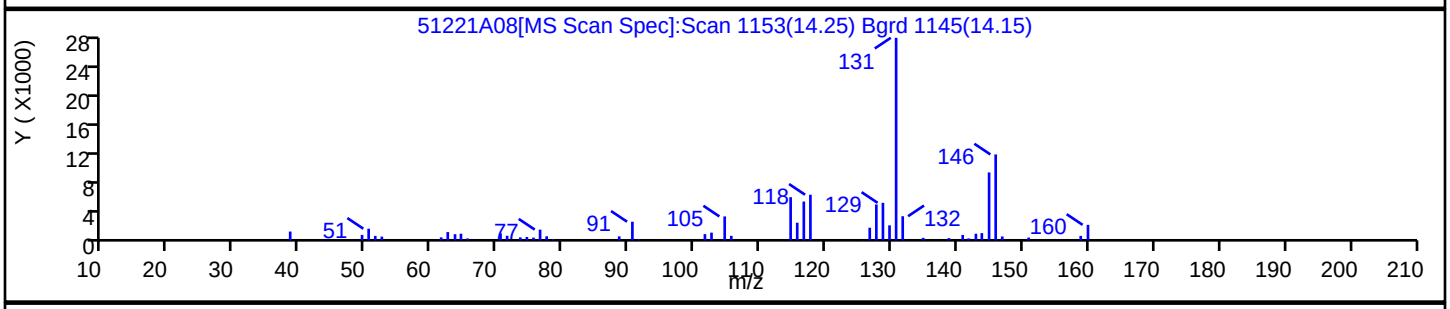
Shealy Environmental Services

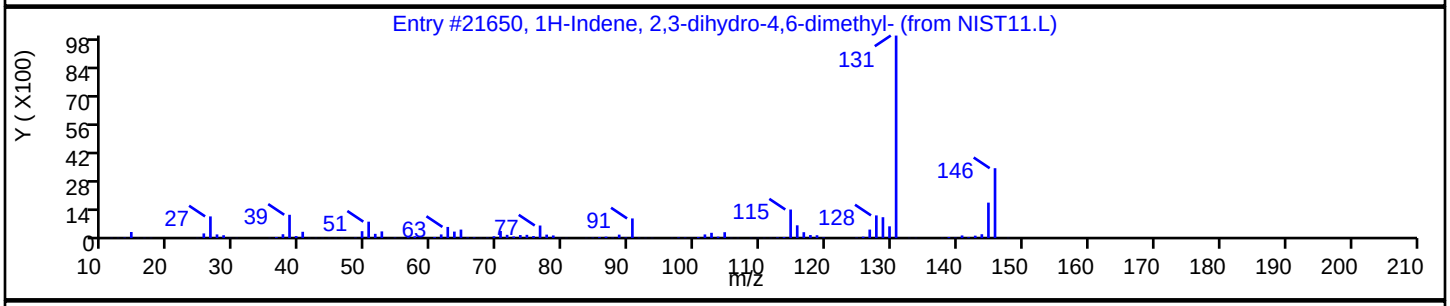
Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

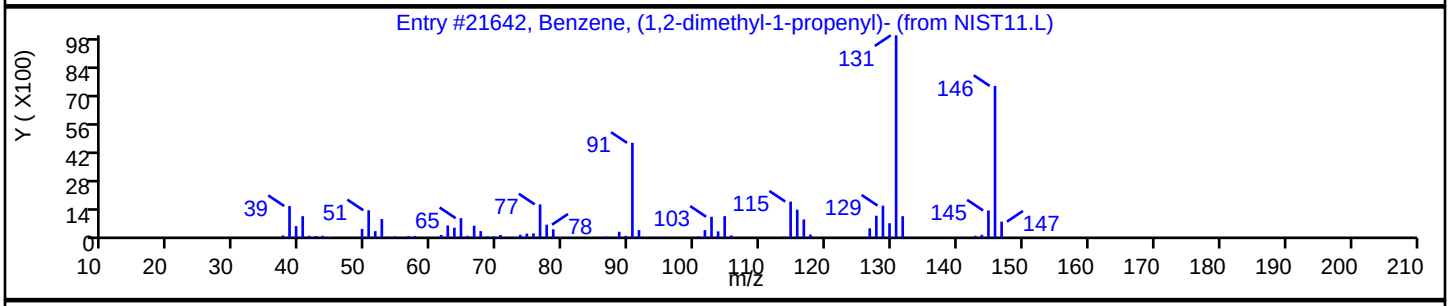
TIC @ 14.236

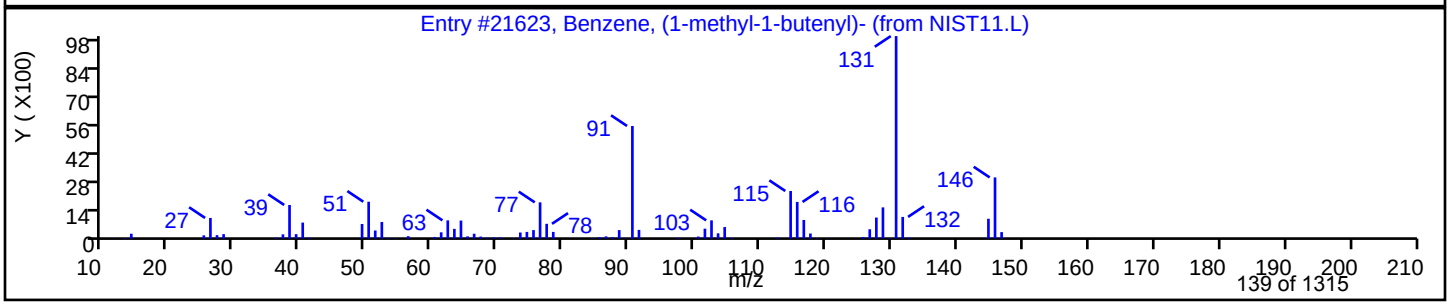
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1H-Indene, 2,3-dihydro-4,6-dimethyl-	1685-82-1	NIST11	21650	C11H14	146	93
Benzene, (1,2-dimethyl-1-propenyl)-	769-57-3	NIST11	21642	C11H14	146	93
Benzene, (1-methyl-1-butenyl)-	53172-84-2	NIST11	21623	C11H14	146	90











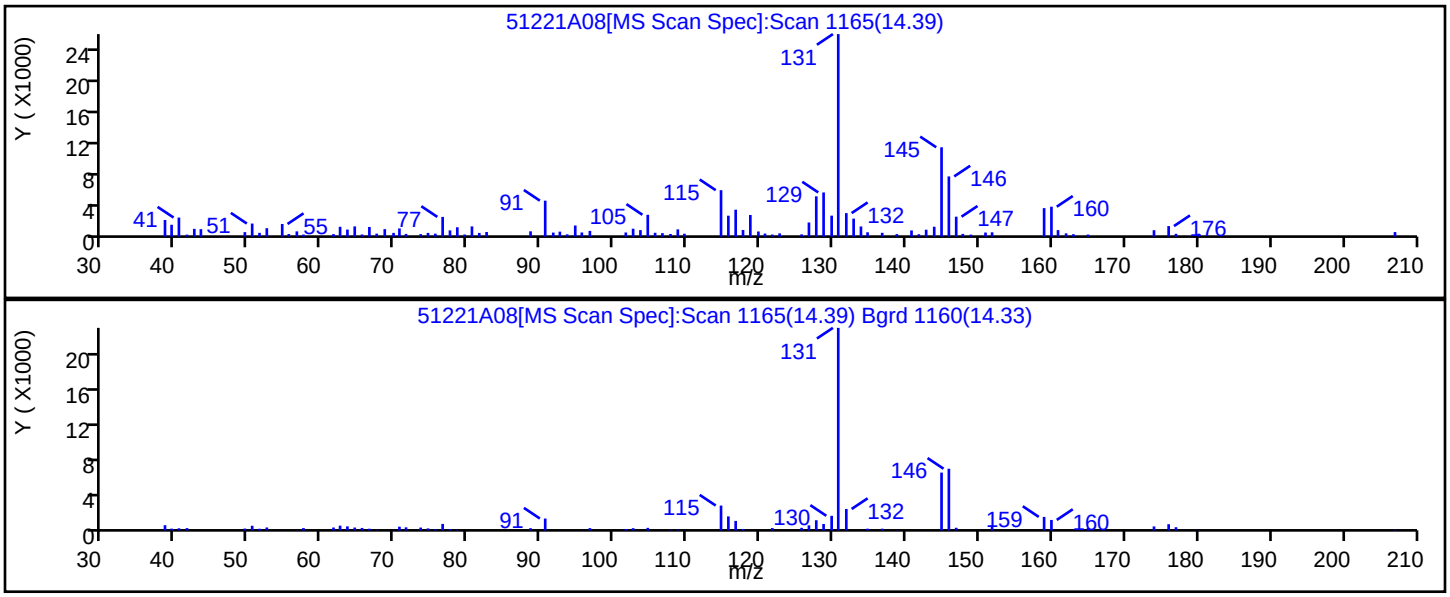
Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.378

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



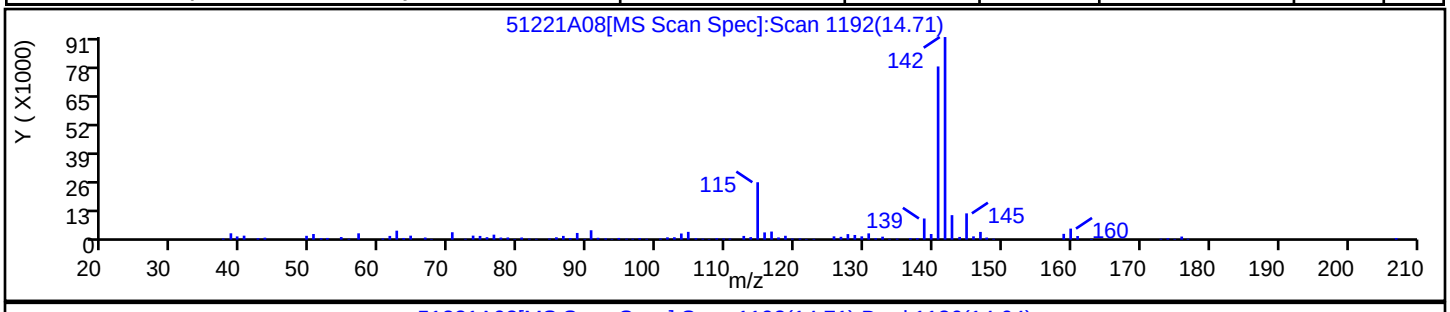
Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

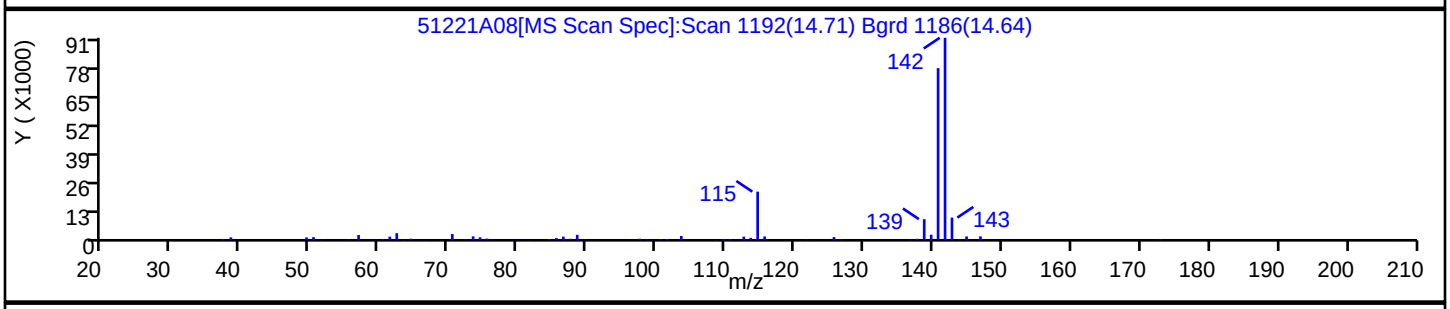
Shealy Environmental Services

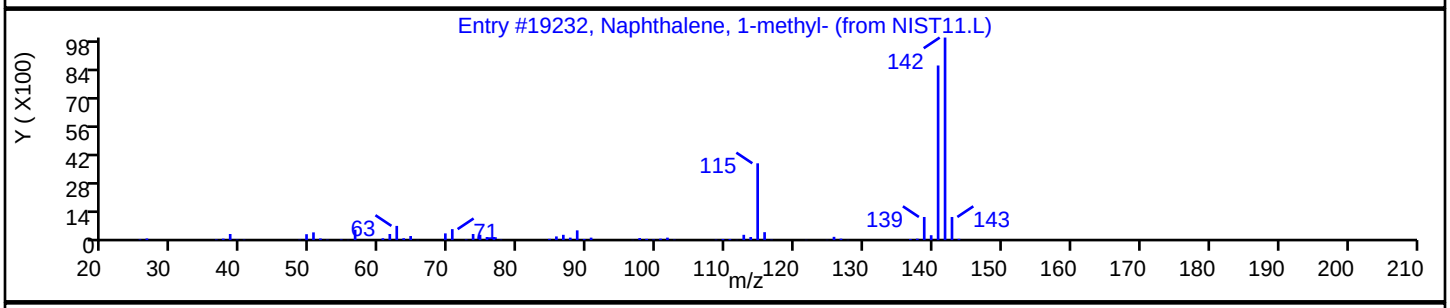
Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

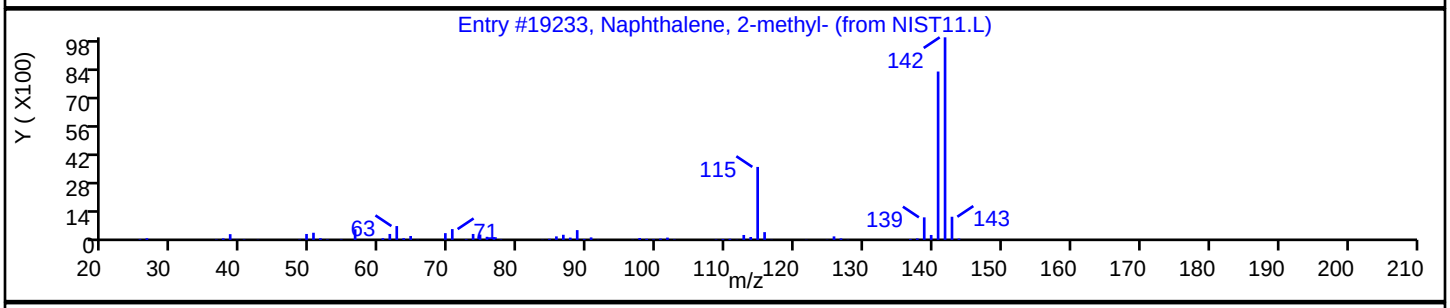
TIC @ 14.698

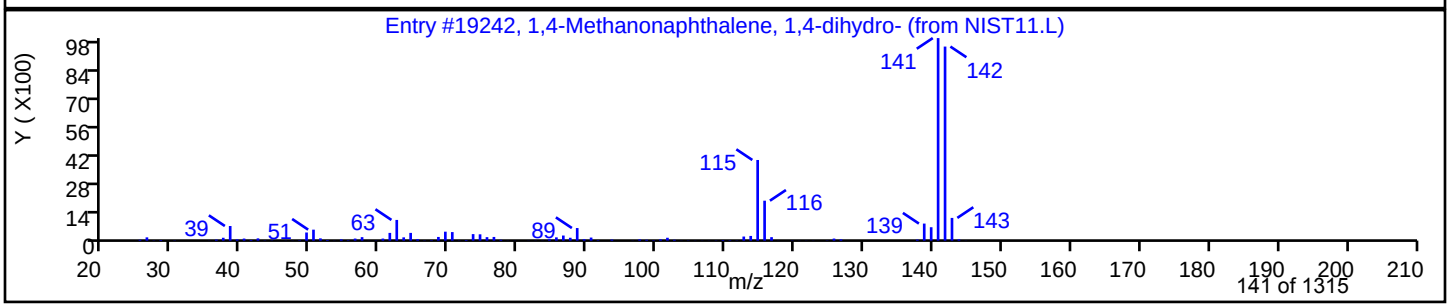
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	96
Naphthalene, 2-methyl-	91-57-6	NIST11	19233	C11H10	142	96
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST11	19242	C11H10	142	90











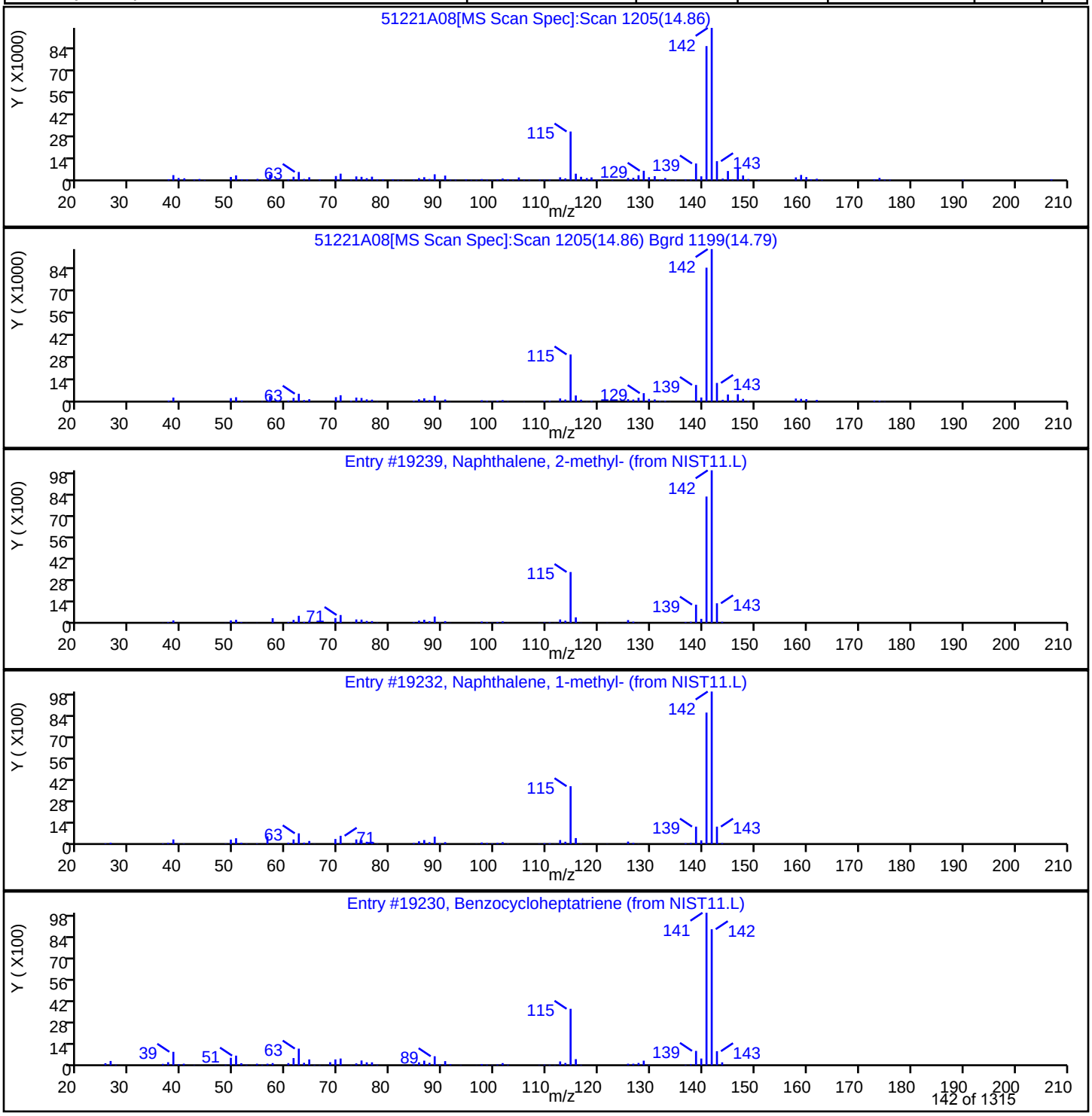
Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.853

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 2-methyl-	91-57-6	NIST11	19239	C11H10	142	96
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	96
Benzocycloheptatriene	264-09-5	NIST11	19230	C11H10	142	90



Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

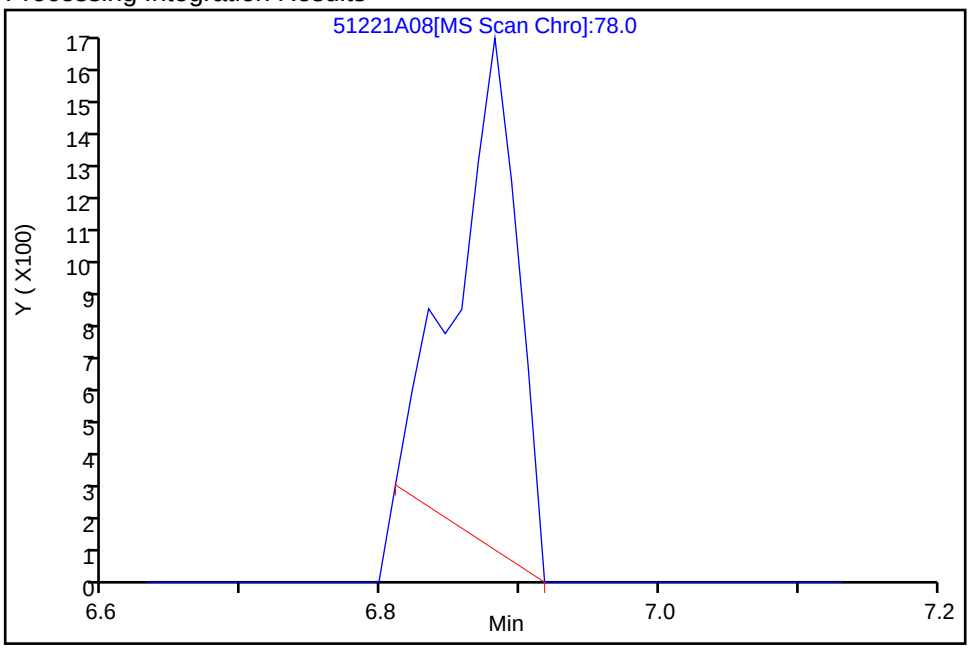
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A08.D		
Injection Date:	21-Dec-2015 12:18:30	Inst. ID:	msd5.i
Client ID:	F6R24DL	Lab ID:	QL12004-005DL
Sample Info:	5122115b, QL12004-005,10		
Purge Vol.	5.00 mL	Dil. Factor:	10.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

30 Benzene, CAS: 71-43-2

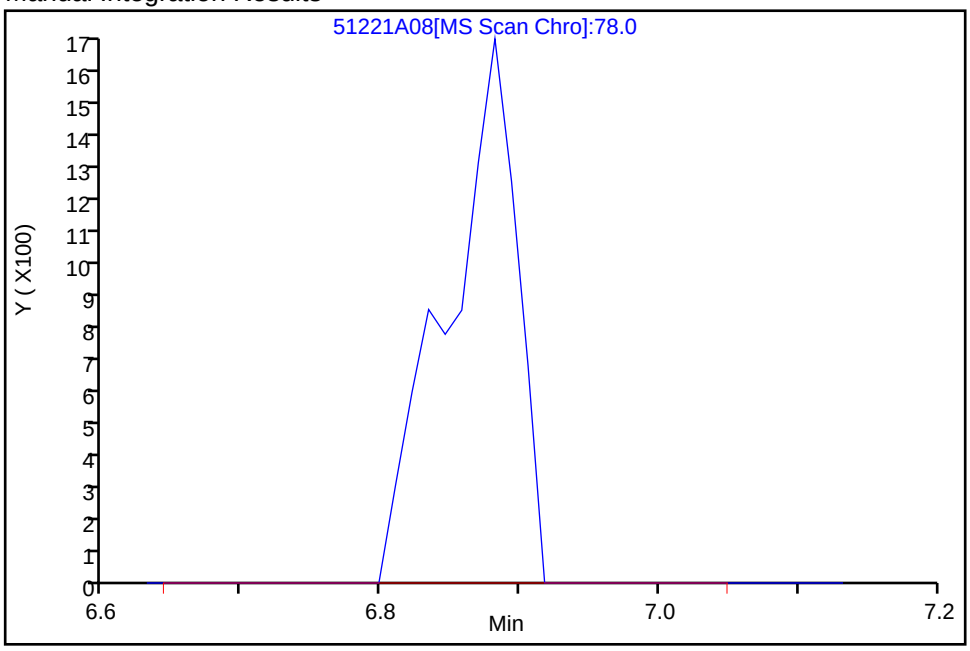
Processing Integration Results

RT: 6.884
Area: 4695
Conc: 601.00
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 6.884
Area: 5745
Conc: 735.41
Conc Units: ug/Kg



Data Editor: pap, 21-Dec-2015 17:10:30
Audit Action: Mint
Audit Reason: IAI

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R25

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-006
Sample wt/vol: 5.78 (g/mL) g
Lab File ID: 51216A18
% Solids: 84.4
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	300	U
74-87-3	Chloromethane	300	U
75-01-4	Vinyl chloride	300	U
74-83-9	Bromomethane	300	U
75-00-3	Chloroethane	300	U
75-69-4	Trichlorofluoromethane	300	U
75-35-4	1,1-Dichloroethene	300	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	300	U
67-64-1	Acetone	600	U
75-15-0	Carbon disulfide	300	U
79-20-9	Methyl acetate	300	U
75-09-2	Methylene chloride	300	U
156-60-5	trans-1,2-Dichloroethene	300	U
1634-04-4	Methyl tert-butyl ether	300	U
75-34-3	1,1-Dichloroethane	300	U
156-59-2	cis-1,2-Dichloroethene	300	U
78-93-3	2-Butanone	600	U
74-97-5	Bromochloromethane	300	U
67-66-3	Chloroform	300	U
71-55-6	1,1,1-Trichloroethane	300	U
110-82-7	Cyclohexane	300	U
56-23-5	Carbon tetrachloride	300	U
71-43-2	Benzene	300	U
107-06-2	1,2-Dichloroethane	300	U
79-01-6	Trichloroethene	300	U
108-87-2	Methylcyclohexane	300	U
78-87-5	1,2-Dichloropropane	300	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R25

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-006
Sample wt/vol: 5.78 (g/mL) g
Lab File ID: 51216A18
% Solids: 84.4
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	300	U
10061-01-5	cis-1,3-Dichloropropene	300	U
108-10-1	4-Methyl-2-pentanone	600	U
108-88-3	Toluene	300	U
10061-02-6	trans-1,3-Dichloropropene	300	U
79-00-5	1,1,2-Trichloroethane	300	U
127-18-4	Tetrachloroethene	300	U
591-78-6	2-Hexanone	600	U
124-48-1	Dibromochloromethane	300	U
106-93-4	1,2-Dibromoethane	300	U
108-90-7	Chlorobenzene	300	U
100-41-4	Ethylbenzene	300	U
179601-23-1	m, p-Xylene	300	U
95-47-6	o-Xylene	300	U
100-42-5	Styrene	300	U
75-25-2	Bromoform	300	U
98-82-8	Isopropylbenzene	2700	
79-34-5	1,1,2,2-Tetrachloroethane	300	U
541-73-1	1,3-Dichlorobenzene	300	U
106-46-7	1,4-Dichlorobenzene	300	U
95-50-1	1,2-Dichlorobenzene	300	U
96-12-8	1,2-Dibromo-3-chloropropane	300	U
120-82-1	1,2,4-Trichlorobenzene	300	U
87-61-6	1,2,3-Trichlorobenzene	300	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R25

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-006
Sample wt/vol: 5.78 (g/mL) g
Lab File ID: 51216A18
% Solids: 84.4
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/16/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02		Unknown-01	10.20	7200	J
03					
04		Unknown-02	11.01	9900	J
05					
06		Unknown-03	11.21	11000	J
07		Unknown-04	11.26	23000	J
08		Unknown-05	11.63	4700	J
09		Unknown-06	11.71	2800	J
10		Unknown-07	11.79	8300	J
11		Unknown-08	12.01	4100	J
12		Unknown-09	12.11	3000	J
13					
14		Unknown-10	12.49	4200	J
15	141-93-5	Benzene, 1,3-diethyl-	12.53	2800	NJ
16		Unknown-11	12.74	7700	J
17		Unknown-12	12.81	2600	J
18	527-84-4	o-Cymene	12.86	5400	NJ
19	2039-89-6	Benzene, 2-ethenyl-1,4-	12.92	2500	NJ
20	824-90-8	1-Phenyl-1-butene	12.97	8400	NJ
21	1000152-47-3	trans-Decalin, 2-methyl-	13.10	6400	NJ
22	933-98-2	Benzene, 1-ethyl-2,3-	13.15	3500	NJ
23	2958-75-0	1-Methyldecahydronaphthalene	13.24	7500	NJ
24	1758-85-6	Benzene, 2,4-diethyl-1-	13.42	2700	NJ
25	874-41-9	Benzene, 1-ethyl-2,4-	13.47	9900	NJ
26		Unknown-13	13.67	3600	J
27	769-57-3	Benzene, (1,2-dimethyl-1-	13.74	2300	NJ
28		Unknown-14	13.79	6400	J
29		Unknown-15	13.92	2300	J
30		Unknown-16	14.03	2300	J
	E966796[2]	Total Alkanes	N/A	37900	J

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Lab Sample ID:	QL12004-006	Client Sample ID:	F6R25
Injection Date:	16-Dec-2015 15:58:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, QL12004-006		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	18
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.7800	Weight of sample extracted (g)
M	15.600	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 12:40:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.105		ND			
2 Chloromethane	50.0		2.330		ND			
$ 3 Vinyl Chloride-d3	65.0	2.472	2.460	0.012	116977	73.829	4465.84	R
4 Vinyl Chloride	62.0		2.472		ND			
5 Bromomethane	94.0		2.852		ND			
$ 6 Chloroethane-d5	69.0	2.935	2.935	0.000	50293	69.808	4222.61	R
7 Chloroethane	64.0		2.970		ND			
8 Trichlorofluoromethane	101.0		3.267		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.884	3.883	0.001	180122	81.710	4942.55	R
10 1,1-Dichloroethene	96.0		3.907		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.931		ND			
12 Acetone	43.0		3.943		ND			
13 Carbon Disulfide	76.0		4.180		ND			
14 Methyl Acetate	43.0		4.322		ND			
15 Methylene Chloride	84.0		4.453		ND			
16 Methyl tert-Butyl Ether	73.0		4.773		ND			
17 trans-1,2-Dichloroethene	96.0		4.785		ND			
18 1,1-Dichloroethane	63.0		5.271		ND			
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	40334	127.30	7700.25	QR
20 2-Butanone	43.0		5.935		ND			
21 cis-1,2-Dichloroethene	96.0		5.935		ND			
22 Bromochloromethane	128.0		6.220		ND			
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	118459	53.131	3213.86	QR
24 Chloroform	83.0		6.303		ND			
25 1,1,1-Trichloroethane	97.0		6.552		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0		6.635		ND			
27 Carbon Tetrachloride	117.0		6.753		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	74611	55.506	3357.49	R
$ 29 Benzene-d6	84.0	6.943	6.943	0.000	241972	52.289	3162.88	R
30 Benzene	78.0		6.990		ND			
31 1,2-Dichloroethane	62.0		6.990		ND			
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	200975	50.000	3024.44	
33 Trichloroethene	95.0		7.761		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	70094	59.492	3598.58	R
35 Methylcyclohexane	83.0		8.022		ND			
36 1,2-Dichloropropane	63.0		8.034		ND			
39 Bromodichloromethane	83.0		8.354		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	85630	52.273	3161.95	R
41 cis-1,3-Dichloropropene	75.0		8.852		ND			
42 4-Methyl-2-pentanone	43.0		8.994		ND			
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	256819	58.932	3564.70	QR
44 Toluene	91.0		9.208		ND			
45 trans-1,3-Dichloropropene	75.0		9.409		ND			
46 1,1,2-Trichloroethane	97.0		9.599		ND			
47 Tetrachloroethene	164.0		9.765		ND			
$ 48 2-Hexanone-d5	63.0	9.777	9.777	0.000	38862	92.776	5611.94	R
49 2-Hexanone	43.0		9.825		ND			
50 Dibromochloromethane	129.0		9.979		ND			
51 1,2-Dibromoethane	107.0		10.109		ND			
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	185686	50.000	3024.44	Q
53 Chlorobenzene	112.0		10.536		ND			
54 Ethylbenzene	91.0		10.619		ND			
55 m+p-Xylenes	106.0		10.726		ND			
56 o-Xylene	106.0		11.058		ND			
57 Styrene	104.0		11.070		ND			
58 Bromoform	173.0		11.236		ND			
59 Isopropylbenzene	105.0	11.354	11.354	0.000	263377	44.776	2708.44	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	70431	65.405	3956.27	R
61 1,1,2,2-Tetrachloroethane	83.0		11.580		ND			
62 1,3-Dichlorobenzene	146.0		12.327		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	192598	50.000	3024.44	
64 1,4-Dichlorobenzene	146.0		12.386		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	222755	68.535	4145.61	QR
66 1,2-Dichlorobenzene	146.0		12.659		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.192		ND			
68 1,2,4-Trichlorobenzene	180.0		13.762		ND			
69 1,2,3-Trichlorobenzene	180.0		14.117		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Lab Sample ID:	QL12004-006	Client Sample ID:	F6R25
Injection Date:	16-Dec-2015 15:58:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, QL12004-006		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	18
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.7800	Weight of sample extracted (g)
M	15.600	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 12:40:30

Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown Alkane							
10.086	7078548	233.49	14123	52				
	Unknown							
10.204	3605732	118.94	7194.25	52				
	Unknown Alkane							
10.287	3216296	106.09	6417.24	52				
	Unknown							
11.011	4969666	163.92	9915.60	52				
	Unknown Alkane							
11.129	4857018	160.21	9690.85	52				
	Unknown							
11.212	5523502	182.19	11021	52				
	Unknown							
11.260	11605867	382.82	23156	52				
	Unknown							
11.627	6990763	77.987	4717.34	63				
	Unknown							
11.710	4180142	46.632	2820.74	63				
	Unknown							
11.793	12283451	137.03	8288.82	63				
	Unknown							
12.007	6003240	66.970	4050.96	63				
	Unknown							
12.113	4378139	48.841	2954.35	63				

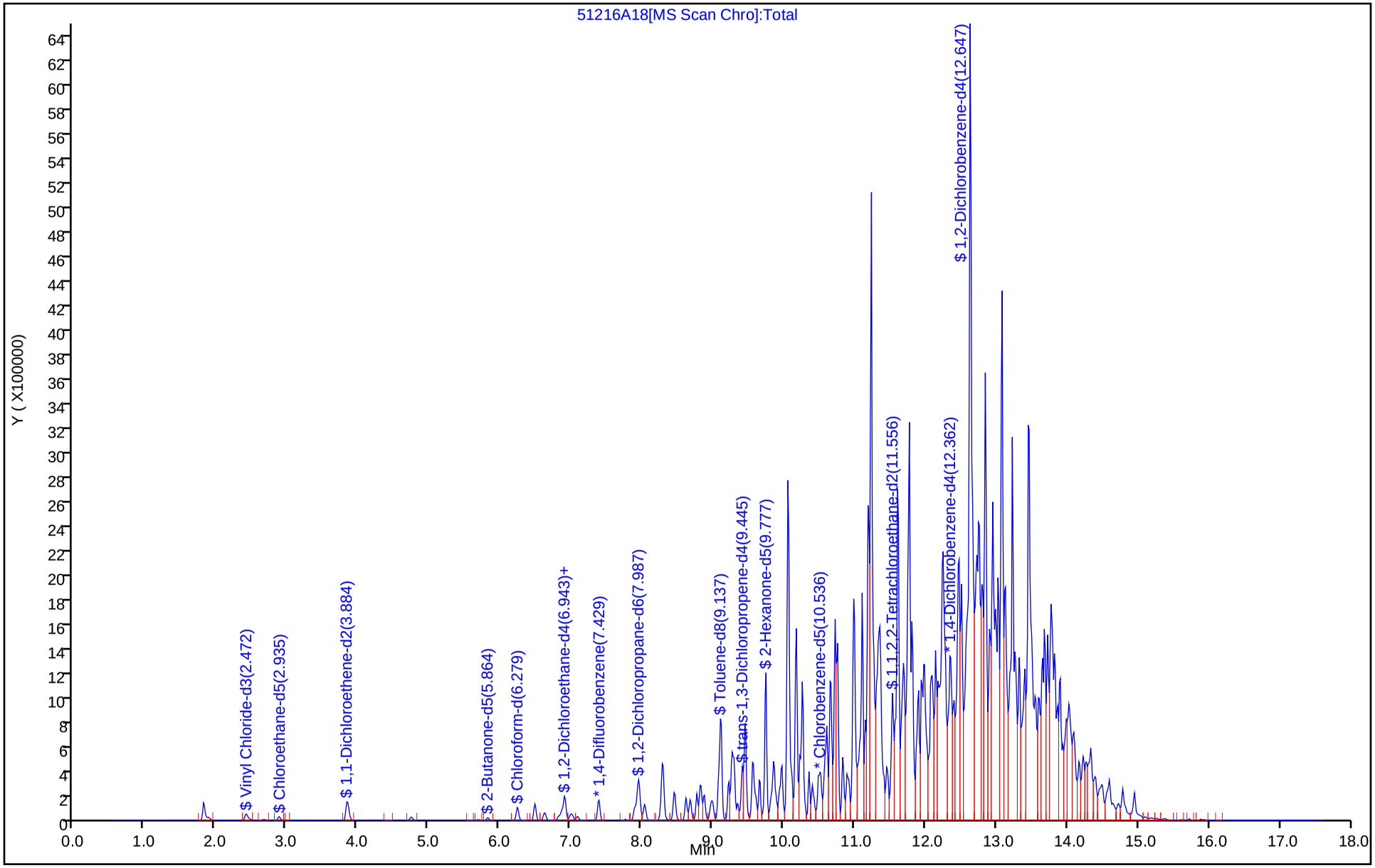
RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown Alkane						
12.268	11550574	128.85	7794.28	63				
		Unknown						
12.493	6264464	69.885	4227.24	63				
141-93-5		Benzene, 1,3-diethyl-						
12.528	4212613	46.995	2842.65	63	91	14844	C10H14	134
		Unknown						
12.742	11443378	127.66	7721.95	63				
		Unknown						
12.813	3862426	43.088	2606.35	63				
527-84-4		o-Cymene						
12.860	7987692	89.108	5390.06	63	95	14812	C10H14	134
2039-89-6		Benzene, 2-ethenyl-1,4-dimethyl-						
12.920	3720583	41.506	2510.63	63	94	14086	C10H12	132
824-90-8		1-Phenyl-1-butene						
12.967	12495471	139.40	8431.89	63	87	14034	C10H12	132
1000152-47-3		trans-Decalin, 2-methyl-						
13.098	9456038	105.49	6380.90	63	91	25429	C11H20	152
933-98-2		Benzene, 1-ethyl-2,3-dimethyl-						
13.145	5165577	57.626	3485.71	63	93	14886	C10H14	134
2958-75-0		1-Methyldecahydronaphthalene						
13.240	11114498	123.99	7500.02	63	97	25436	C11H20	152
1758-85-6		Benzene, 2,4-diethyl-1-methyl-						
13.418	4001113	44.635	2699.94	63	93	22796	C11H16	148
874-41-9		Benzene, 1-ethyl-2,4-dimethyl-						
13.465	14644012	163.36	9881.72	63	94	14881	C10H14	134
		Unknown						
13.667	5294567	59.065	3572.75	63				
769-57-3		Benzene, (1,2-dimethyl-1-propenyl)-						
13.738	3423277	38.189	2310.01	63	93	21642	C11H14	146
		Unknown						
13.785	9541541	106.44	6438.59	63				
		Unknown						
13.916	3440747	38.384	2321.80	63				
		Unknown						
14.034	3414608	38.092	2304.16	63				

Quant. Compounds	RT	Response	Amount ug/L
* 52 Chlorobenzene-d5	10.512	1515840	50.000
* 63 1,4-Dichlorobenzene-d4	12.362	4482010	50.000

Report Date: 20-Dec-2015 12:53:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D				
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	F6R25	Lab ID:	QL12004-006		
Sample Info:	5121615.b, QL12004-006				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

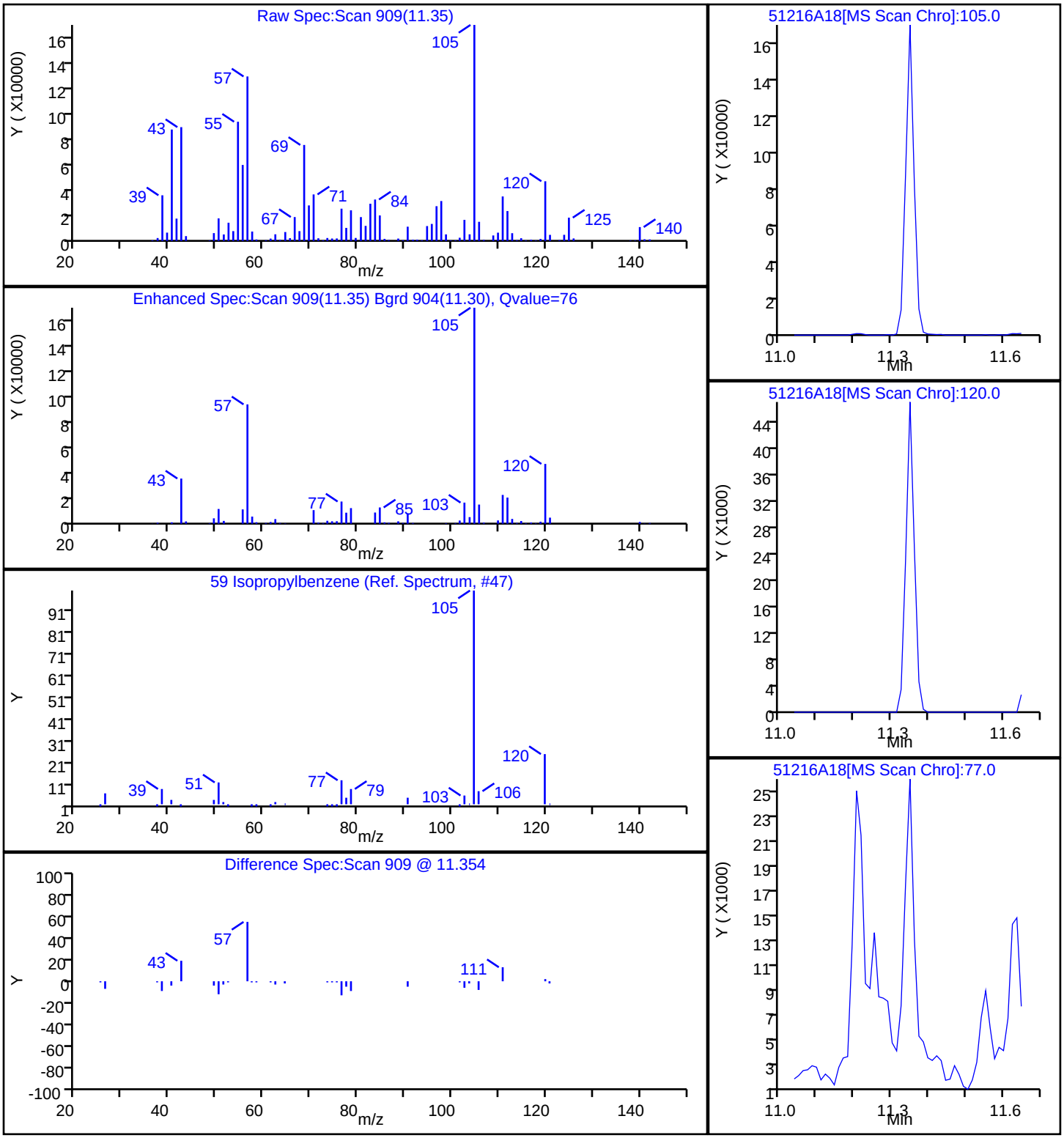


Report Date: 20-Dec-2015 12:53:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

59 Isopropylbenzene



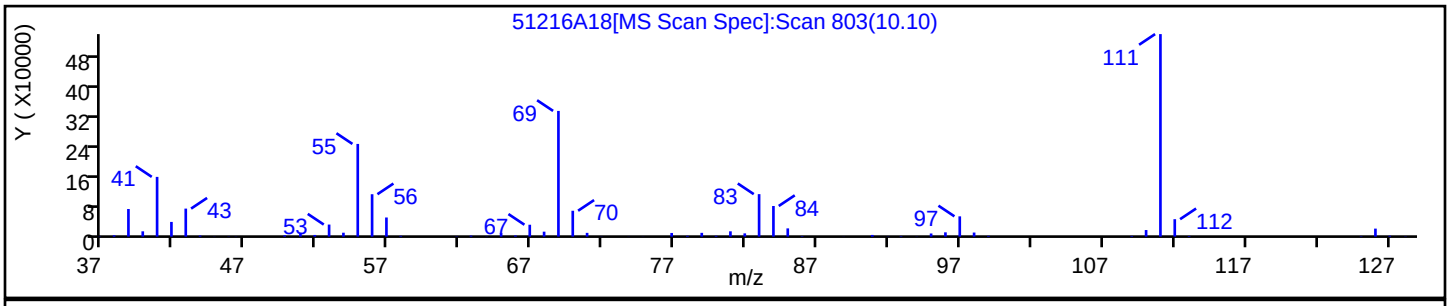
Report Date: 20-Dec-2015 12:53:23 AIM Revision: 1.0 26-May-2015 13:41:26

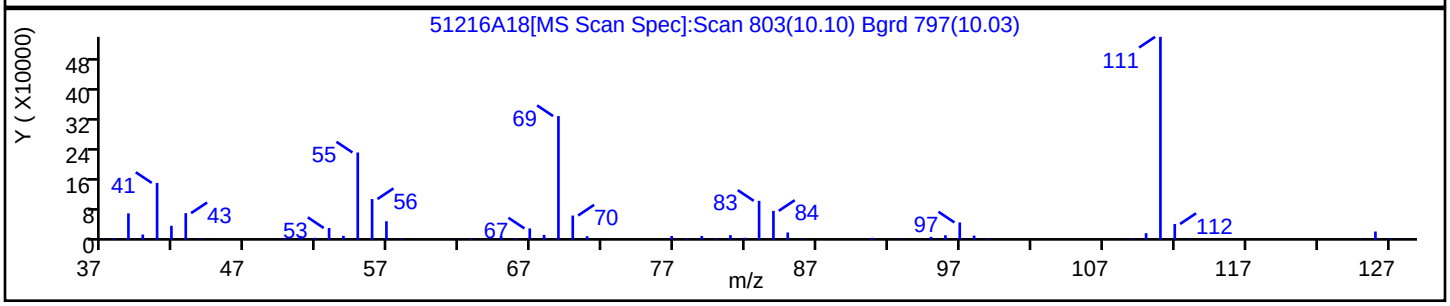
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.086

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





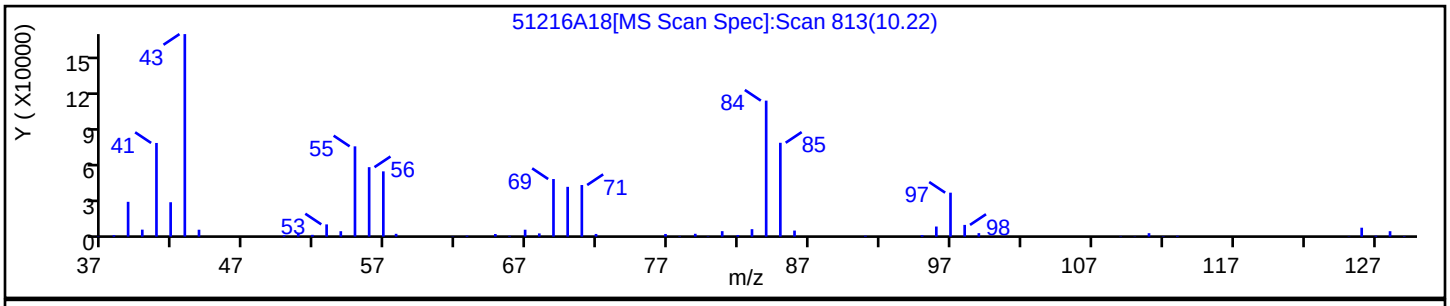
Report Date: 20-Dec-2015 12:53:23 AIM Revision: 1.0 26-May-2015 13:41:26

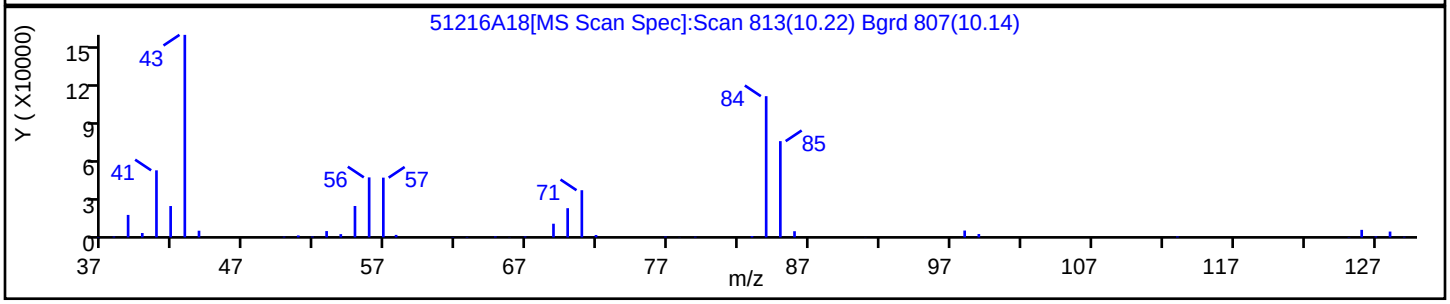
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.204

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





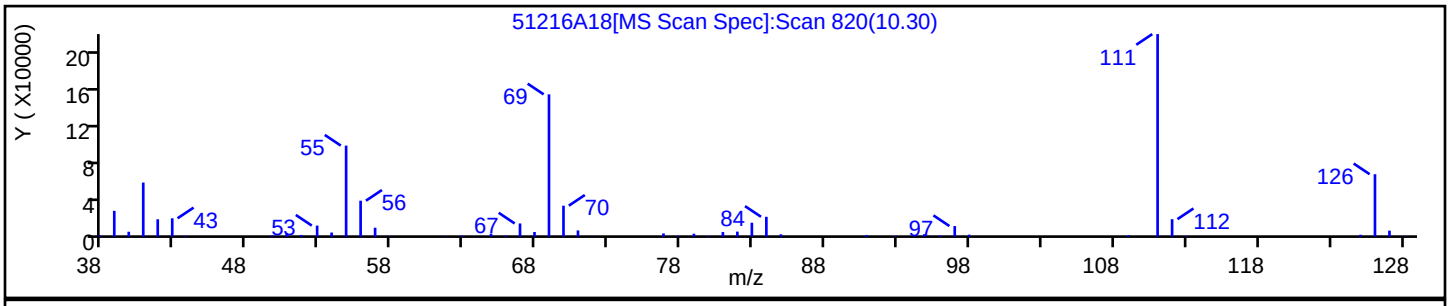
Report Date: 20-Dec-2015 12:53:23 AIM Revision: 1.0 26-May-2015 13:41:26

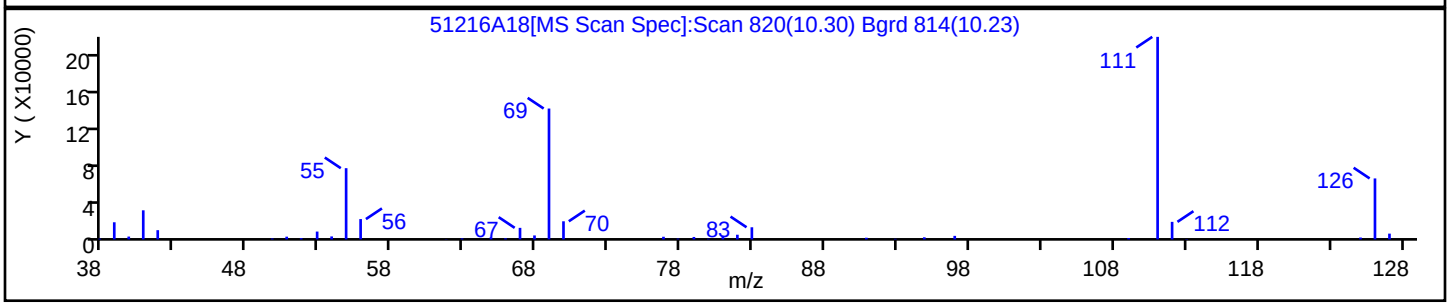
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.287

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





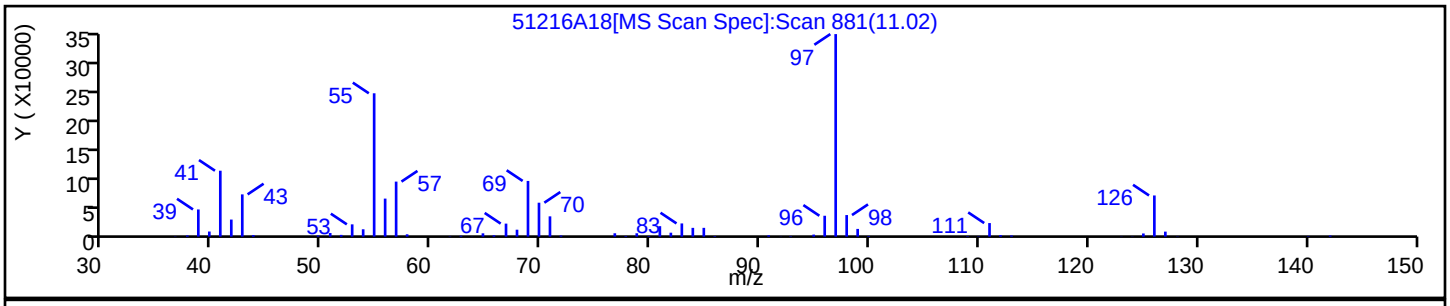
Report Date: 20-Dec-2015 12:53:23 AIM Revision: 1.0 26-May-2015 13:41:26

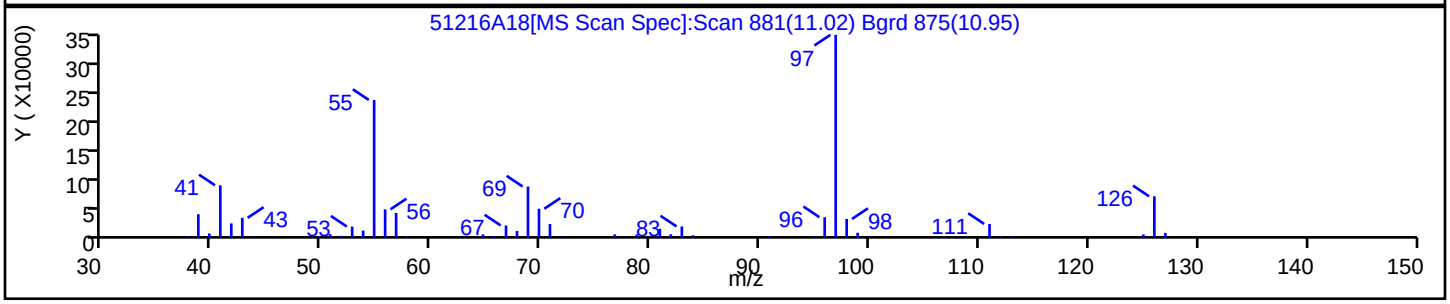
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.011

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





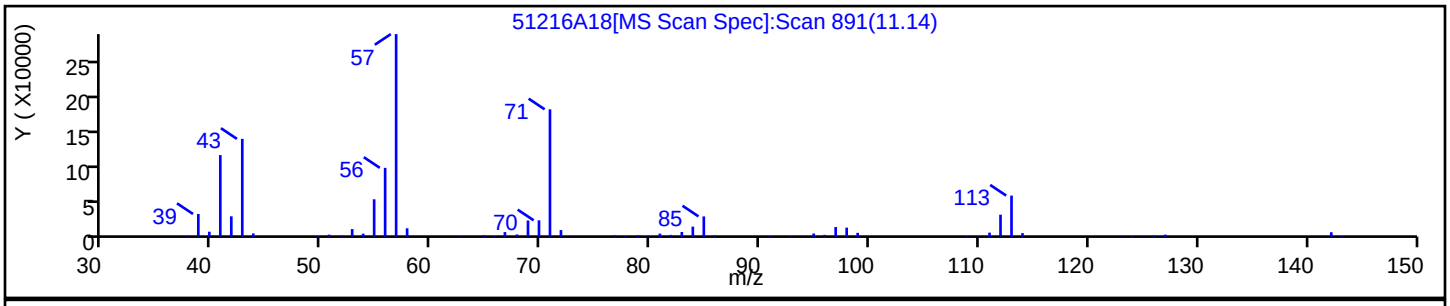
Report Date: 20-Dec-2015 12:53:23 AIM Revision: 1.0 26-May-2015 13:41:26

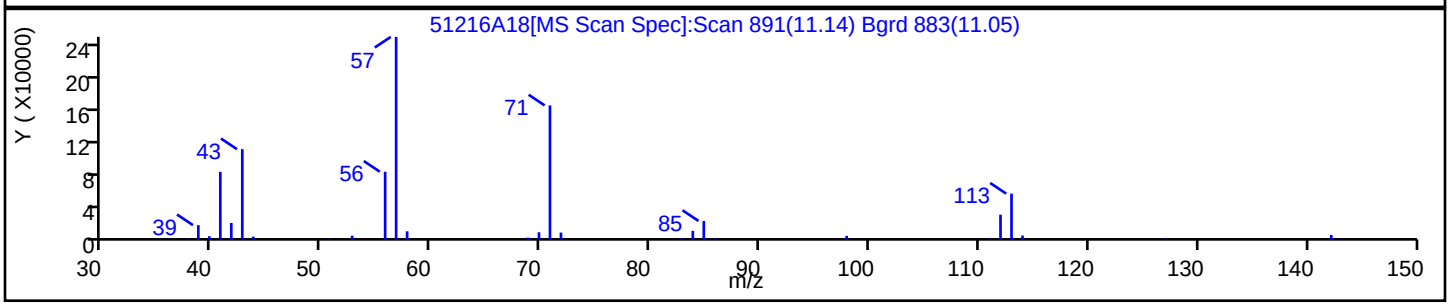
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.129

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





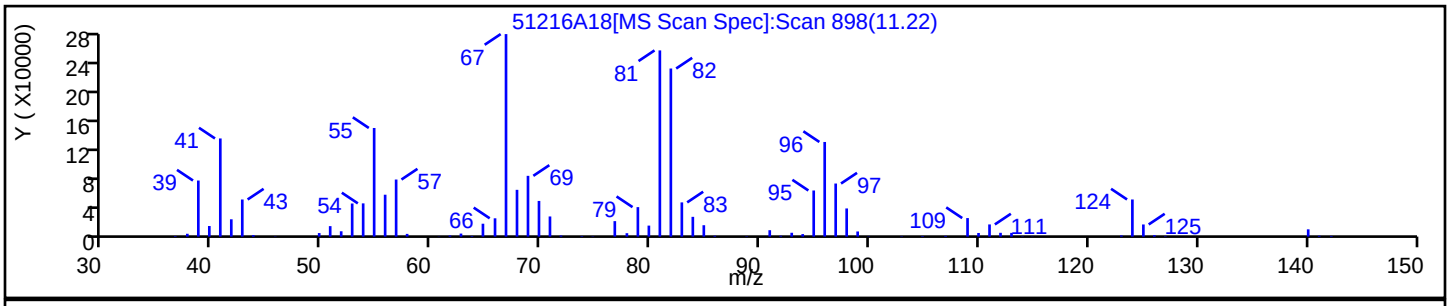
Report Date: 20-Dec-2015 12:53:24 AIM Revision: 1.0 26-May-2015 13:41:26

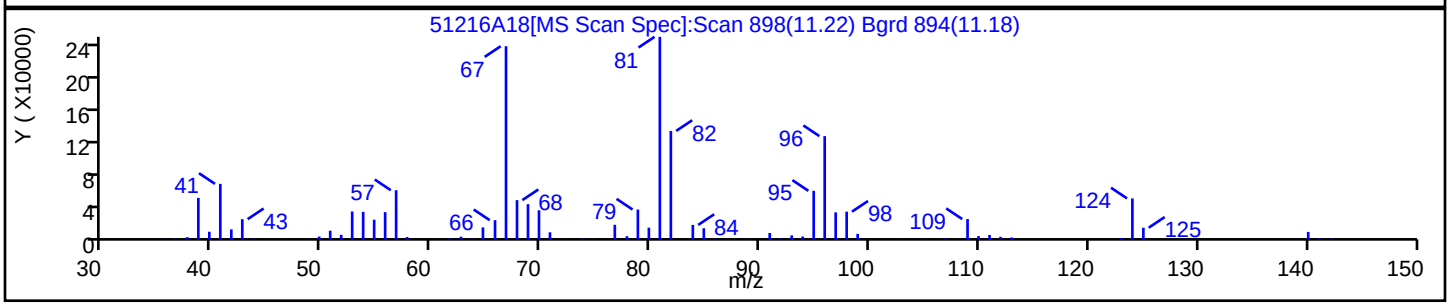
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.212

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





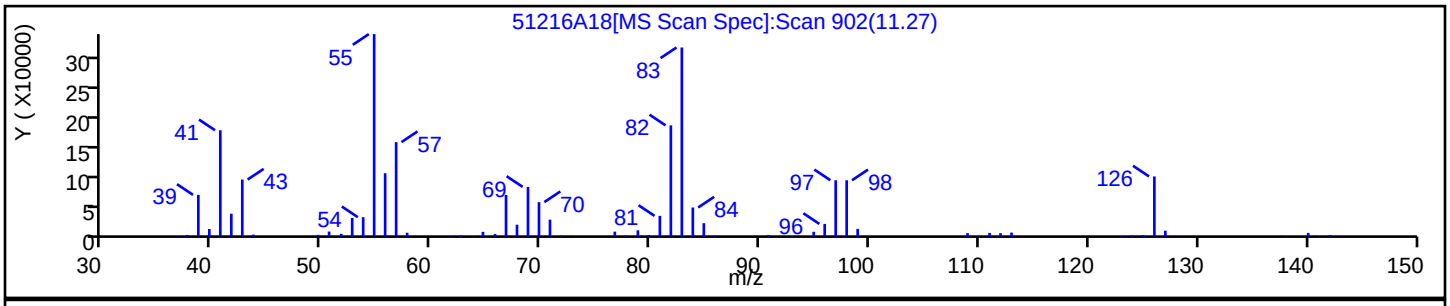
Report Date: 20-Dec-2015 12:53:24 AIM Revision: 1.0 26-May-2015 13:41:26

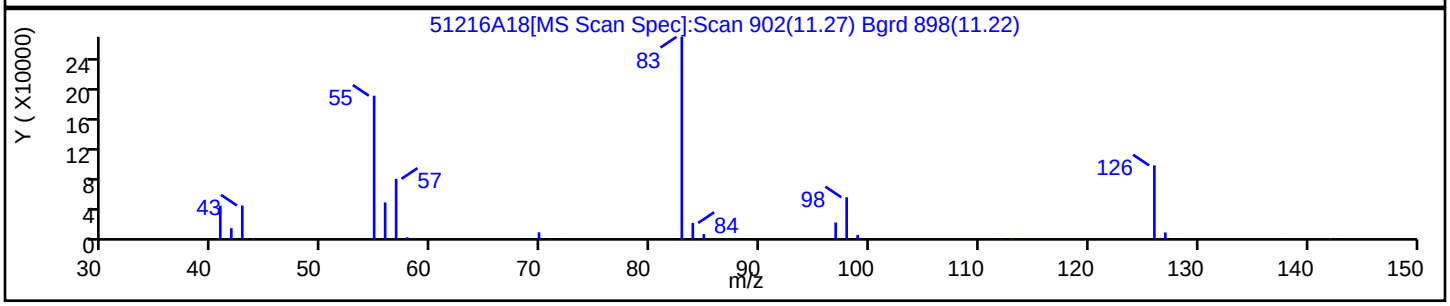
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.260

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





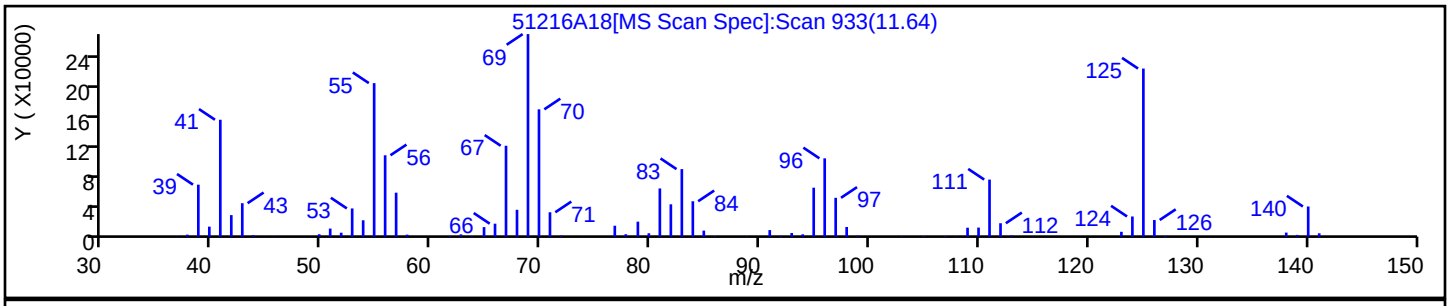
Report Date: 20-Dec-2015 12:53:24 AIM Revision: 1.0 26-May-2015 13:41:26

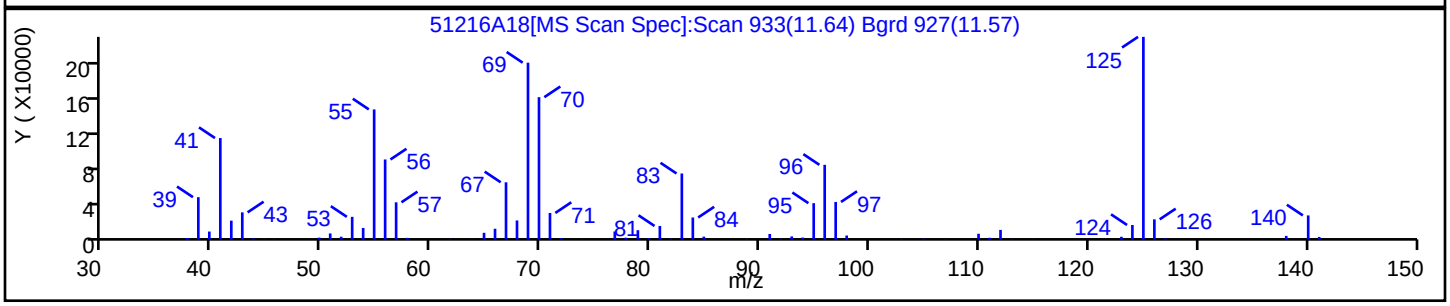
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.627

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





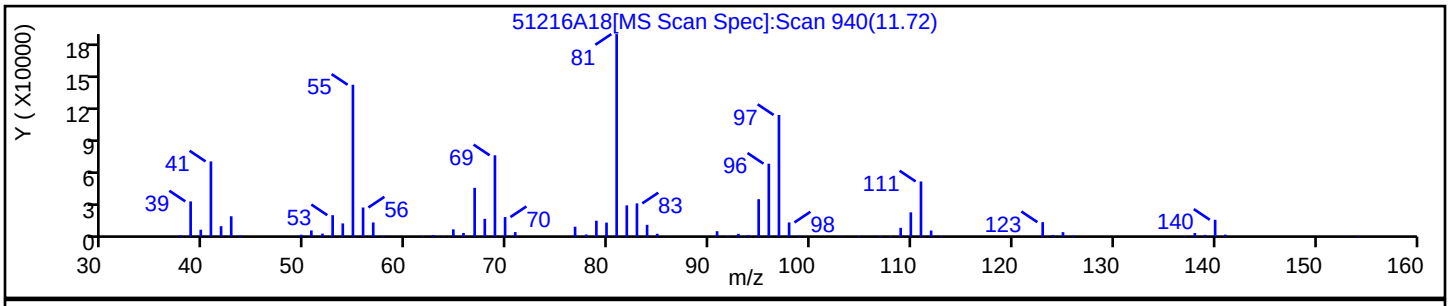
Report Date: 20-Dec-2015 12:53:24 AIM Revision: 1.0 26-May-2015 13:41:26

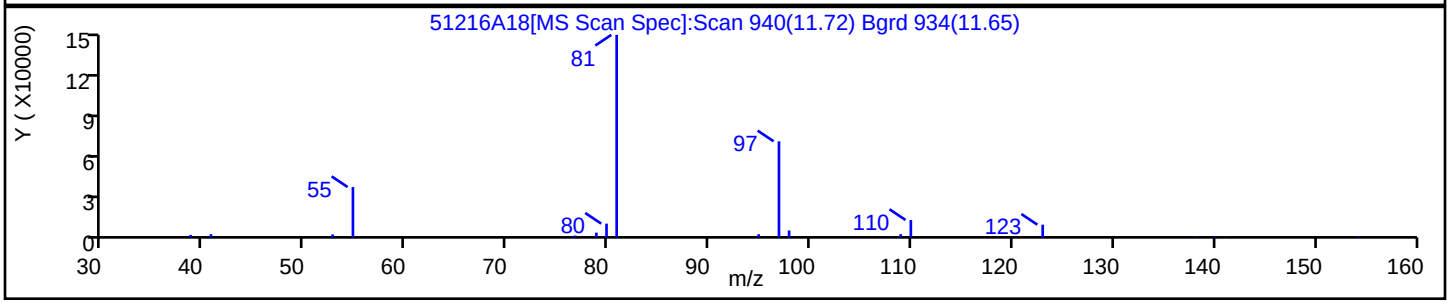
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.710

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





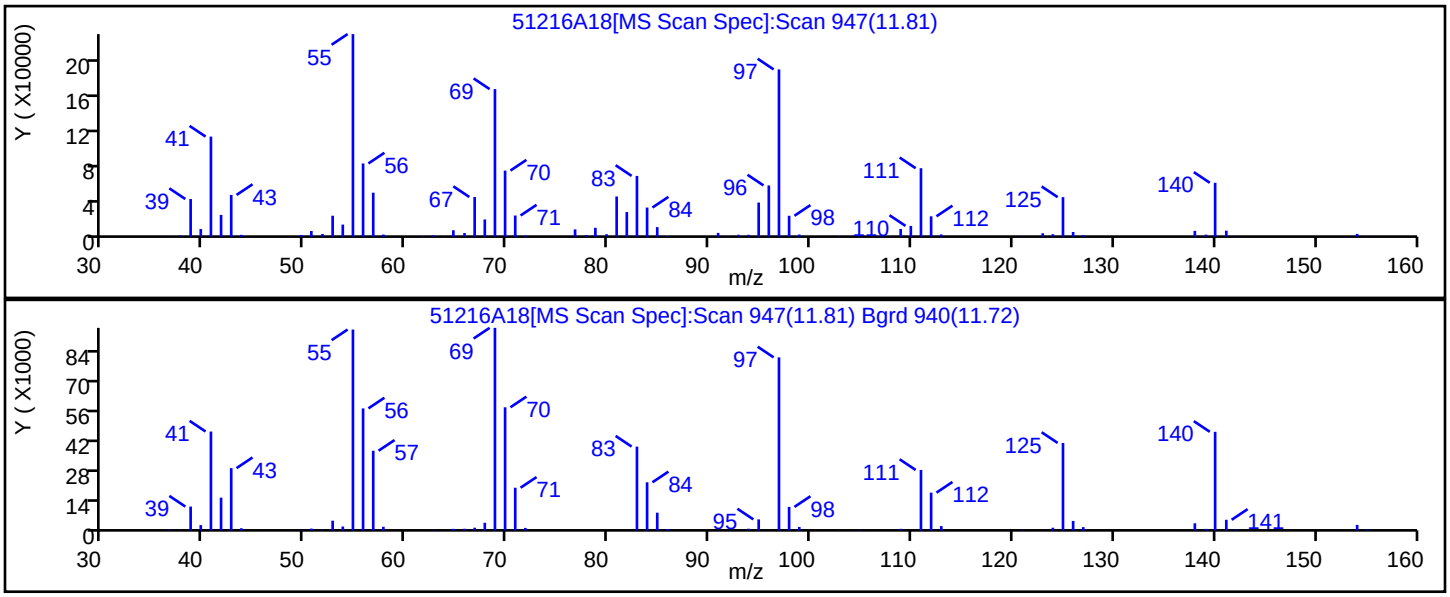
Report Date: 20-Dec-2015 12:53:24 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.793

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



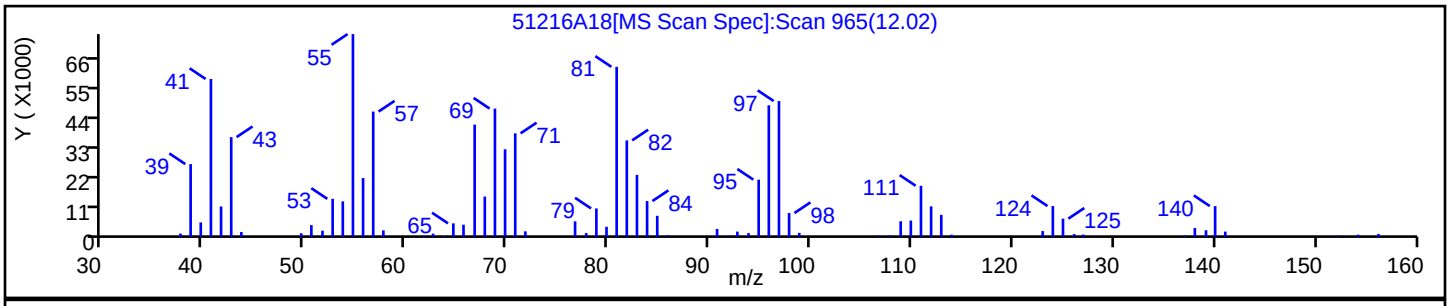
Report Date: 20-Dec-2015 12:53:24 AIM Revision: 1.0 26-May-2015 13:41:26

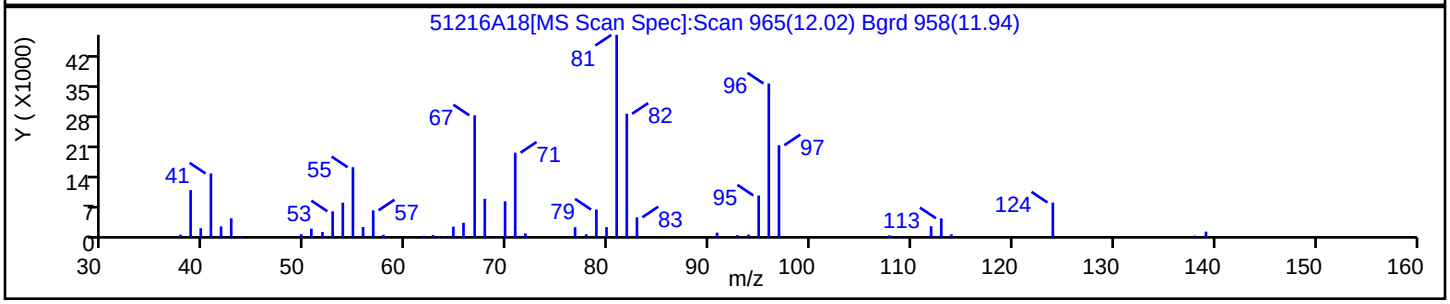
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.007

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





Report Date: 20-Dec-2015 12:53:24 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.113

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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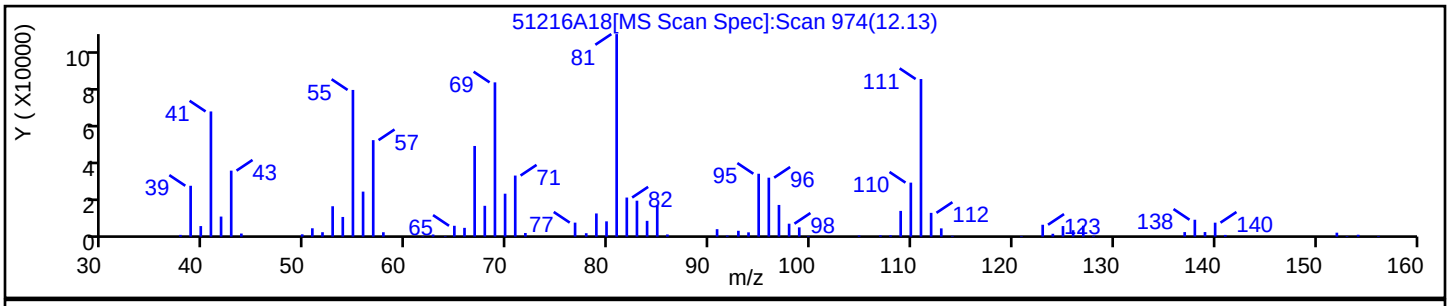

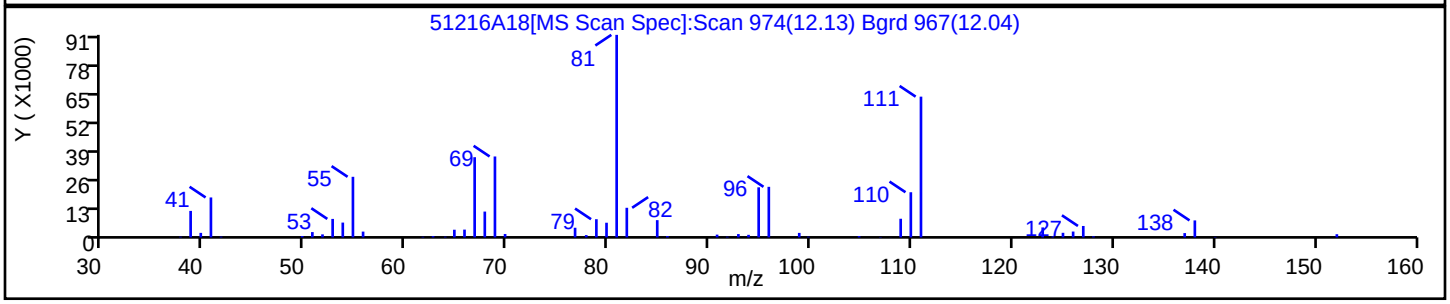

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Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.268

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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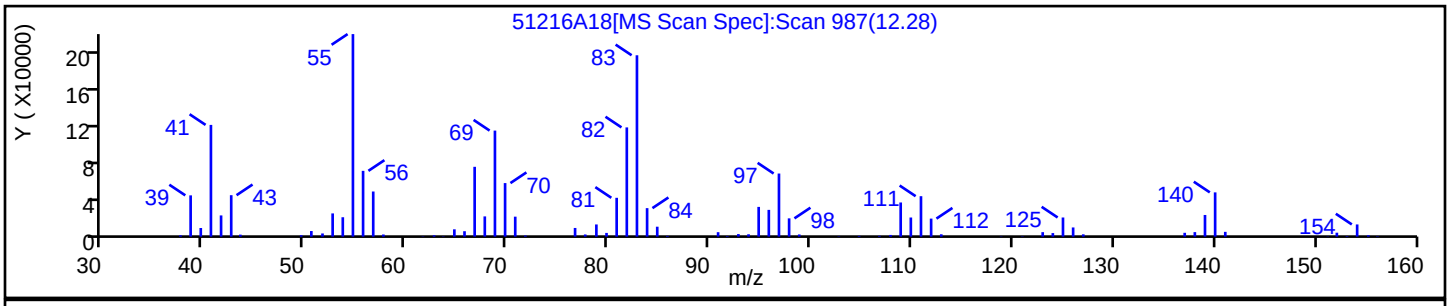

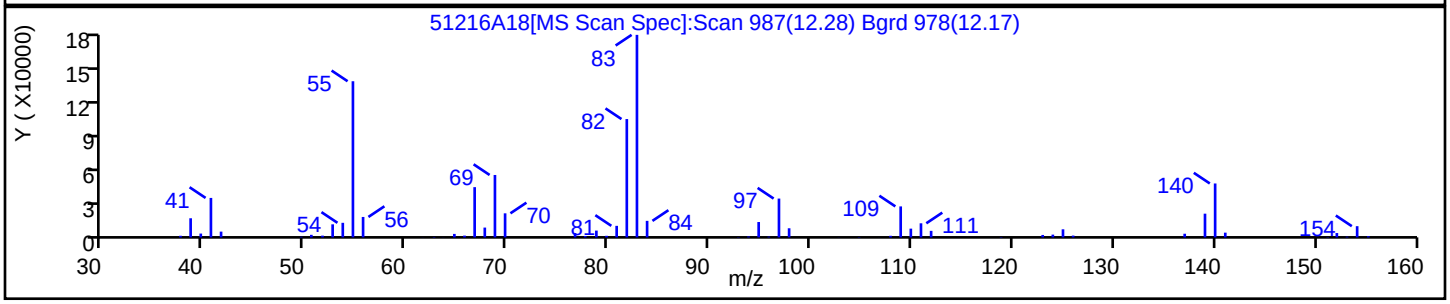

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Shealy Environmental Services

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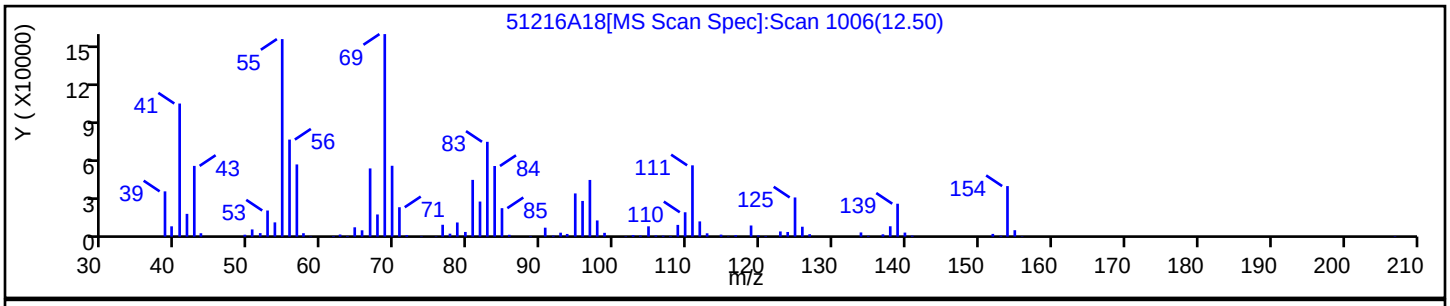
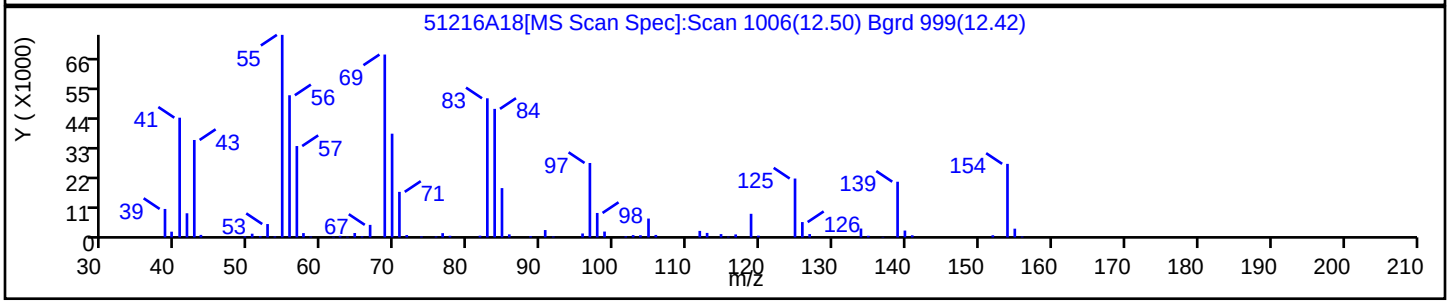
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.493

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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Shealy Environmental Services

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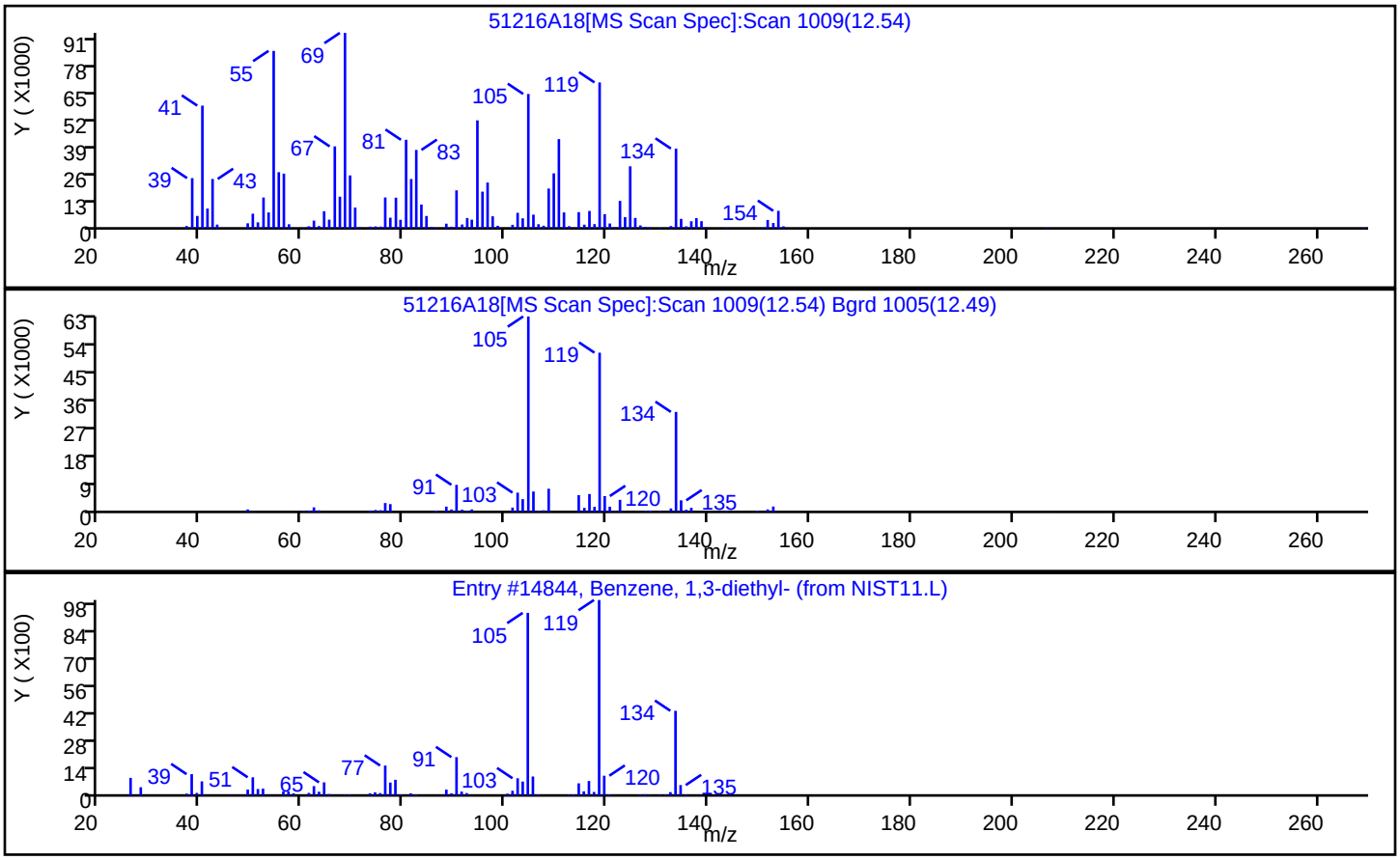
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.528

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3-diethyl-	141-93-5	NIST11	14844	C10H14	134	91



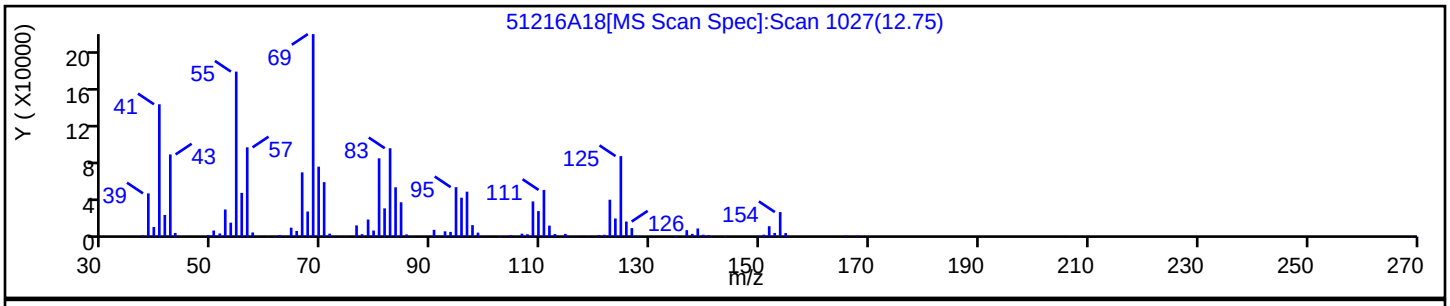
Report Date: 20-Dec-2015 12:53:24 AIM Revision: 1.0 26-May-2015 13:41:26

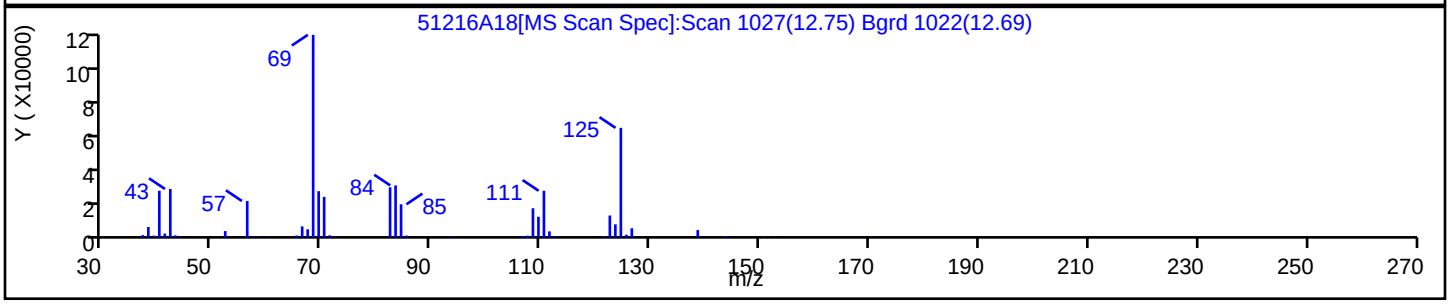
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.742

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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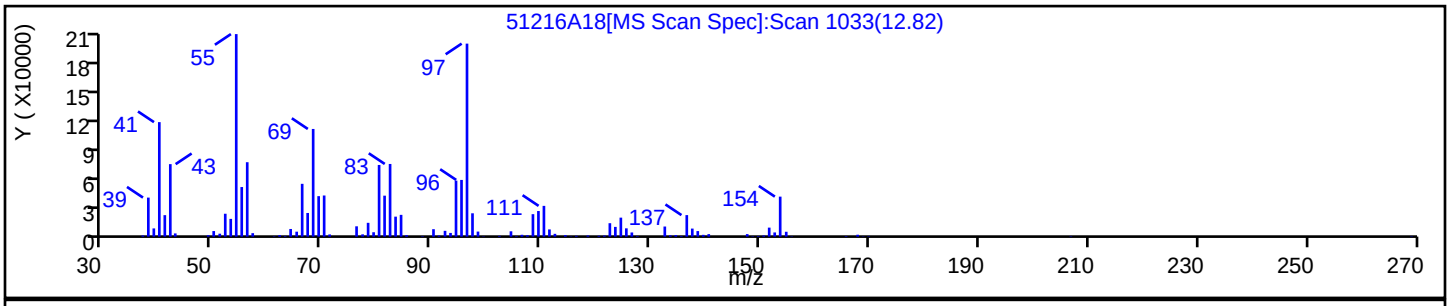
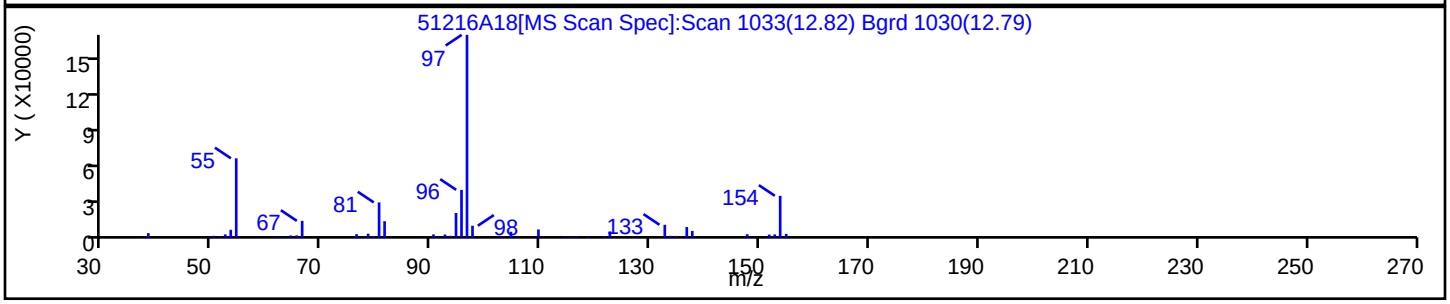
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.813

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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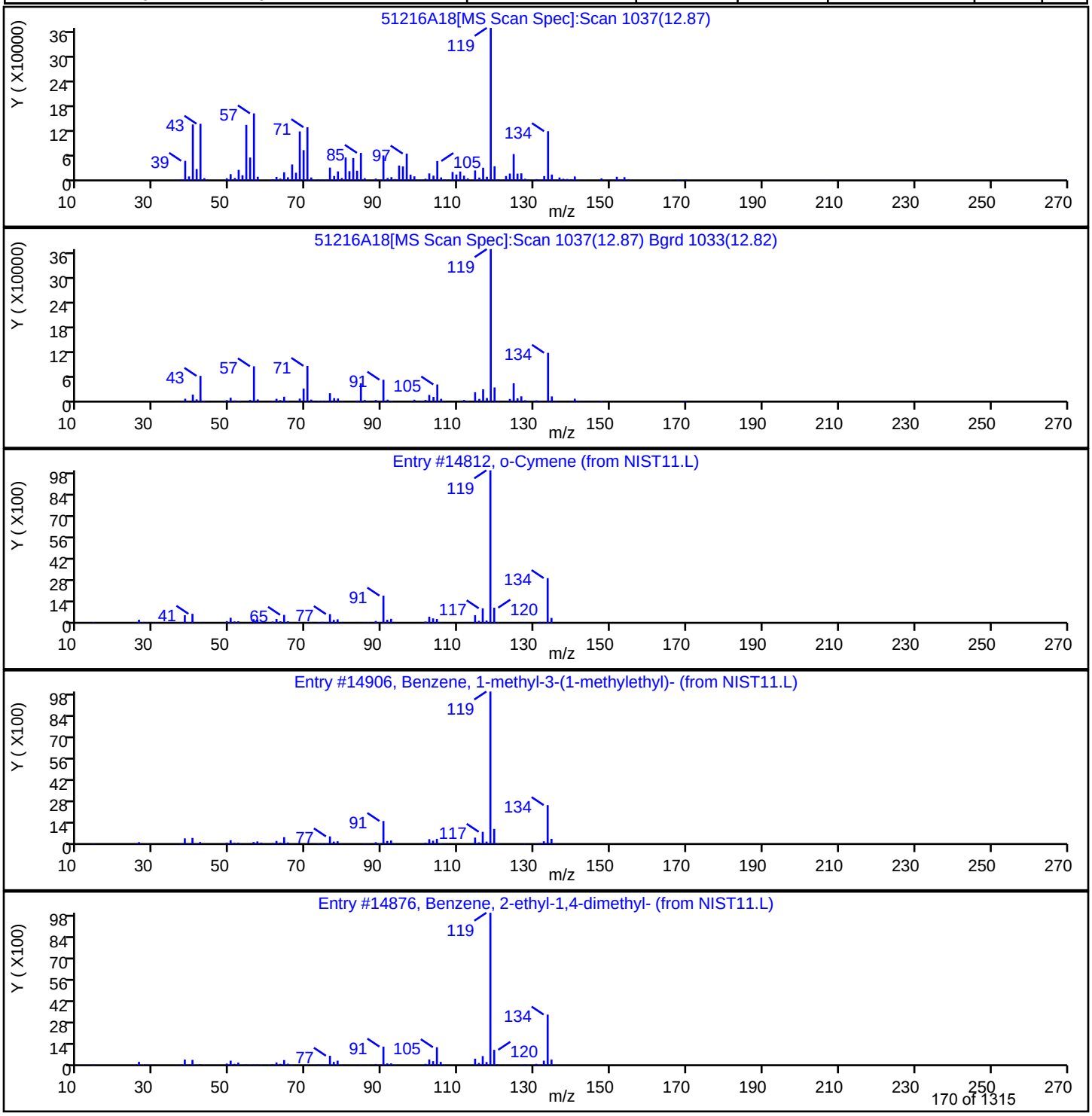
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.860

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
o-Cymene	527-84-4	NIST11	14812	C10H14	134	95
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST11	14906	C10H14	134	95
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIST11	14876	C10H14	134	95



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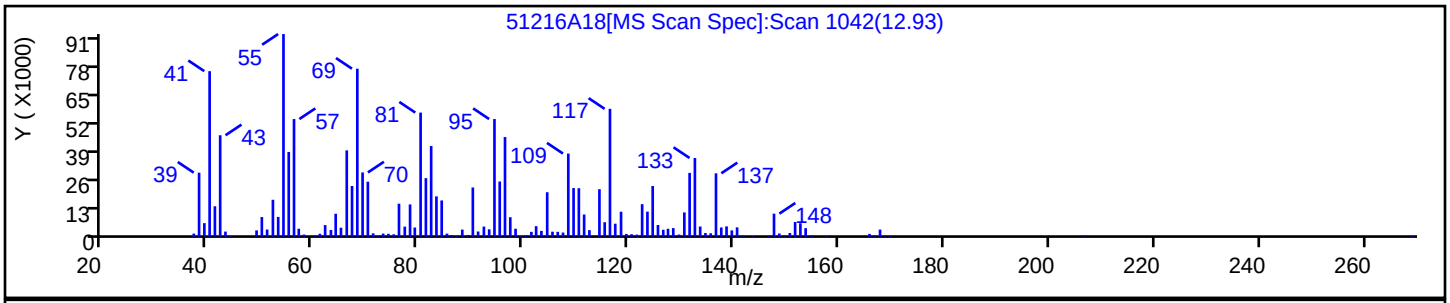
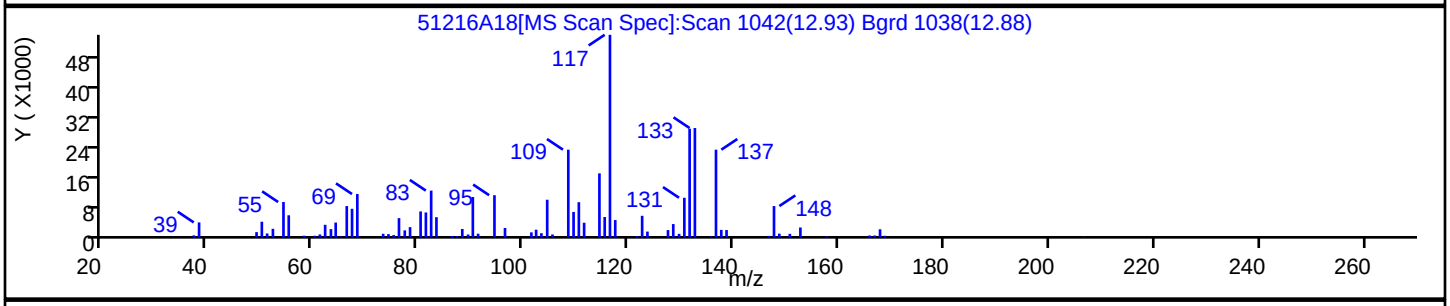
Shealy Environmental Services

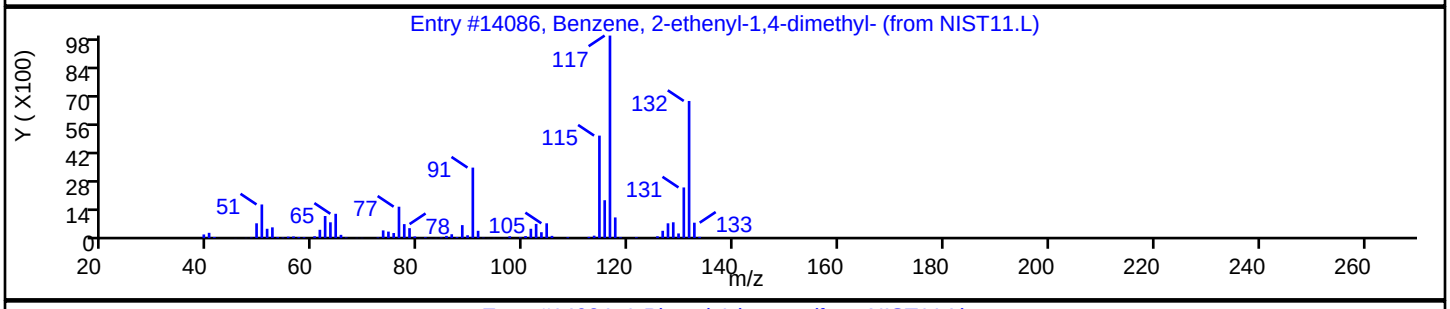
Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

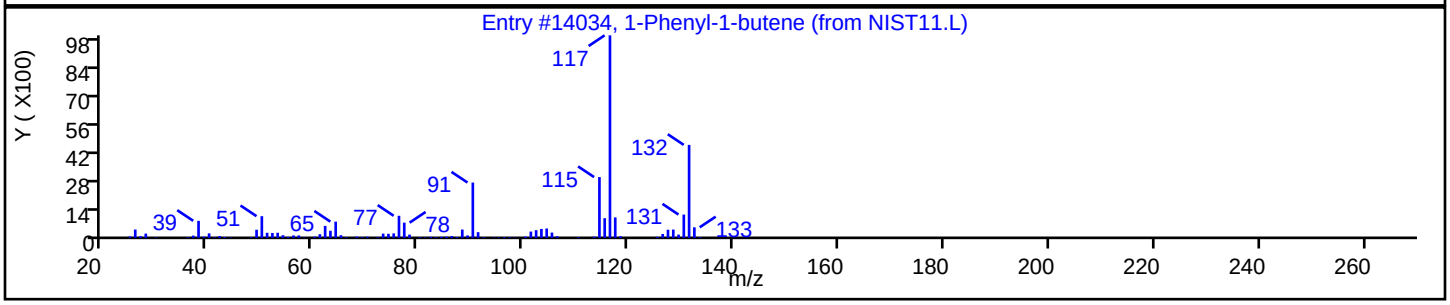
TIC @ 12.920

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 2-ethenyl-1,4-dimethyl-	2039-89-6	NIST11	14086	C10H12	132	94
1-Phenyl-1-butene	824-90-8	NIST11	14034	C10H12	132	95









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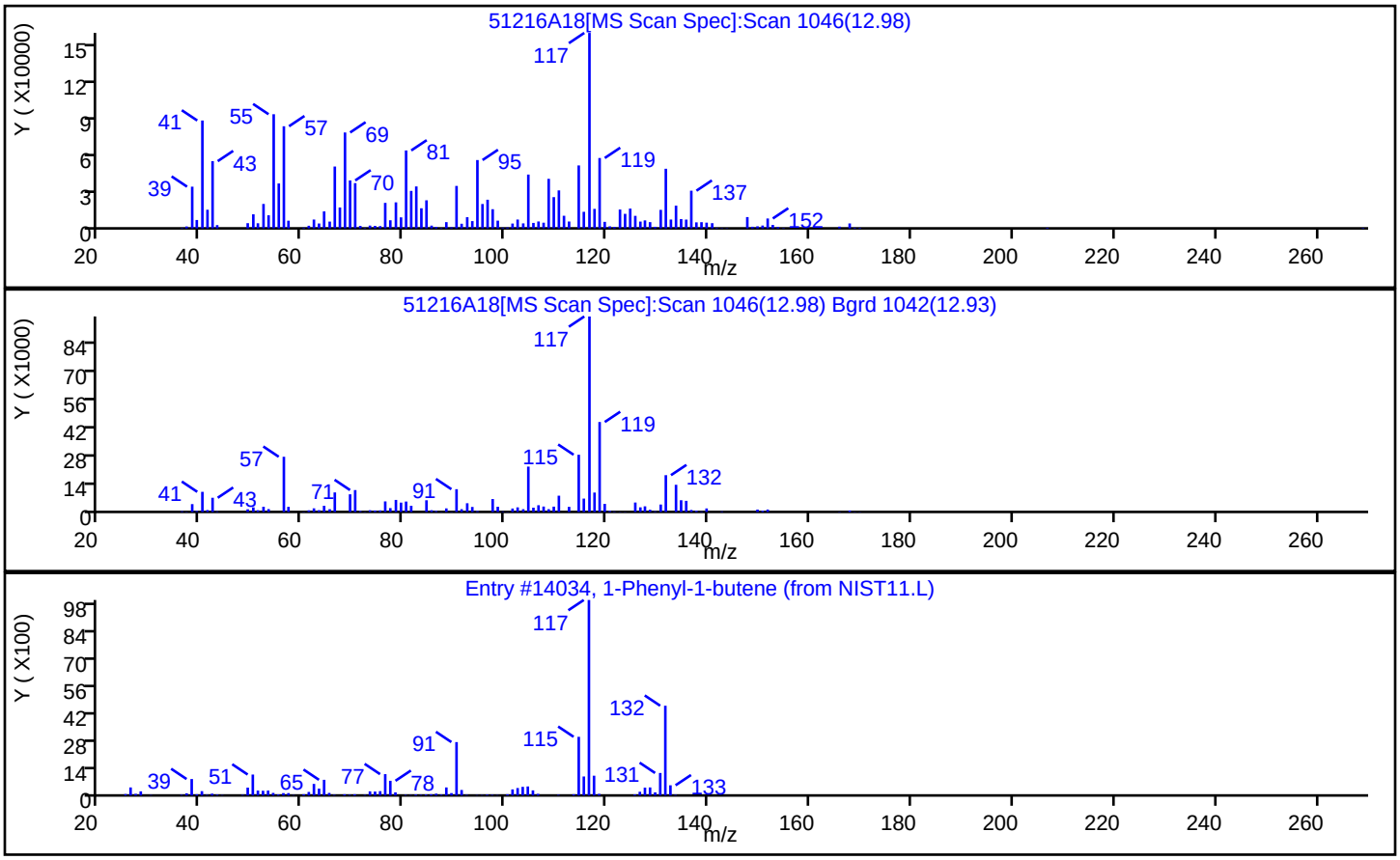
Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.967

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1-Phenyl-1-butene	824-90-8	NIST11	14034	C10H12	132	87



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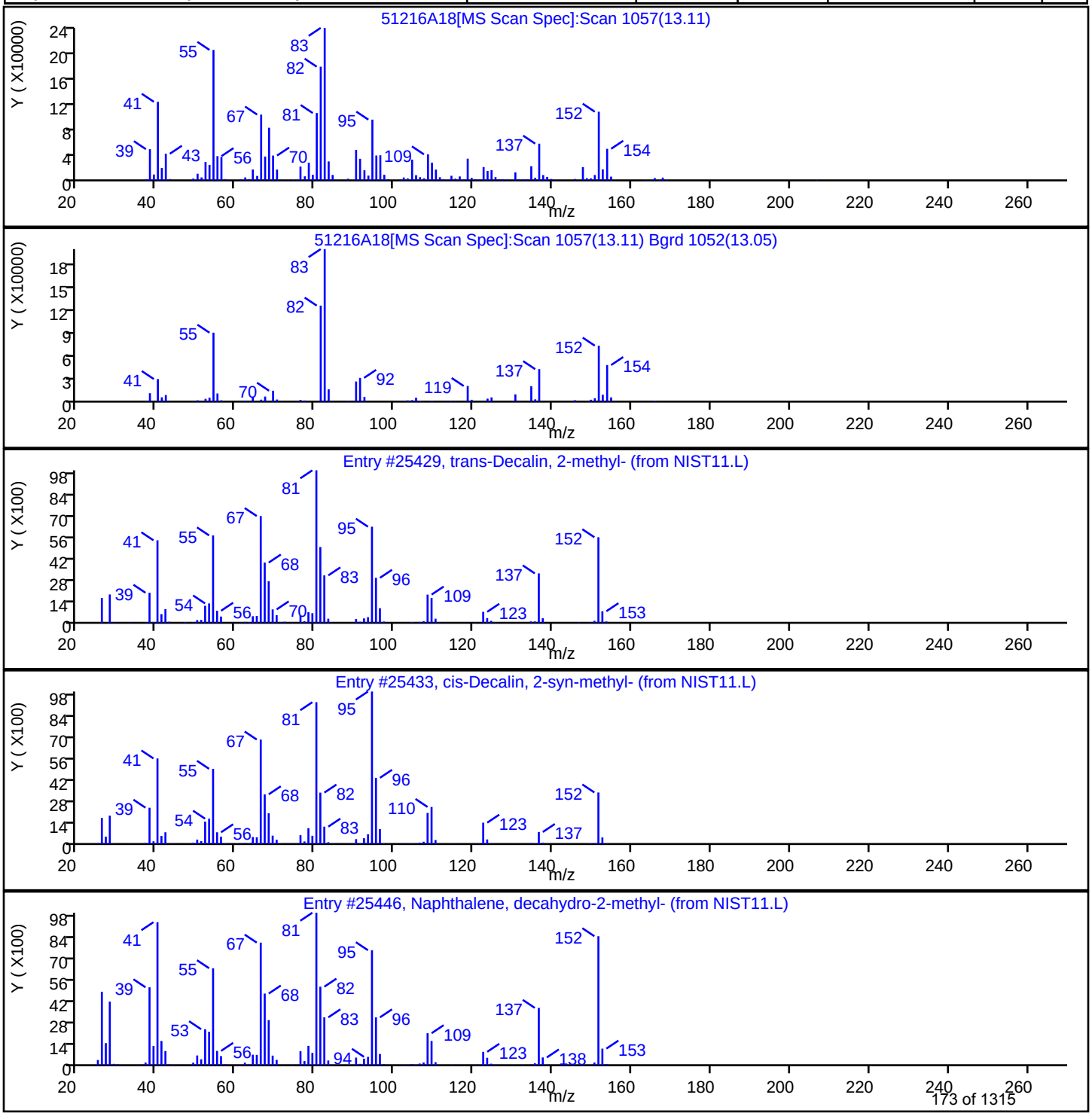
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.098

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
trans-Decalin, 2-methyl-	1000152-47-3	NIST11	25429	C11H20	152	91
cis-Decalin, 2-syn-methyl-	1000155-85-6	NIST11	25433	C11H20	152	89
Naphthalene, decahydro-2-methyl-	2958-76-1	NIST11	25446	C11H20	152	87



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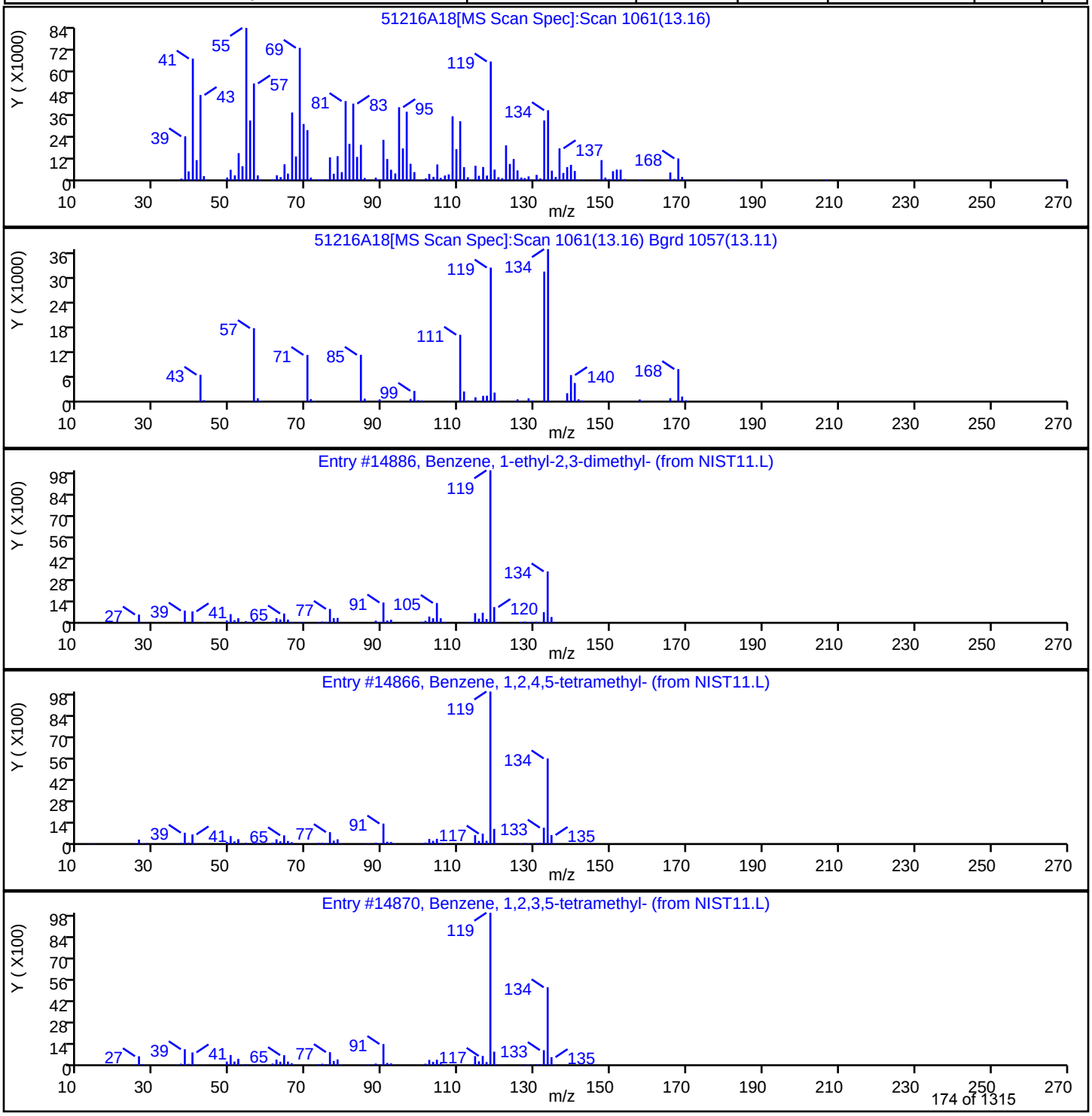
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.145

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST11	14886	C10H14	134	93
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14866	C10H14	134	93
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NIST11	14870	C10H14	134	93



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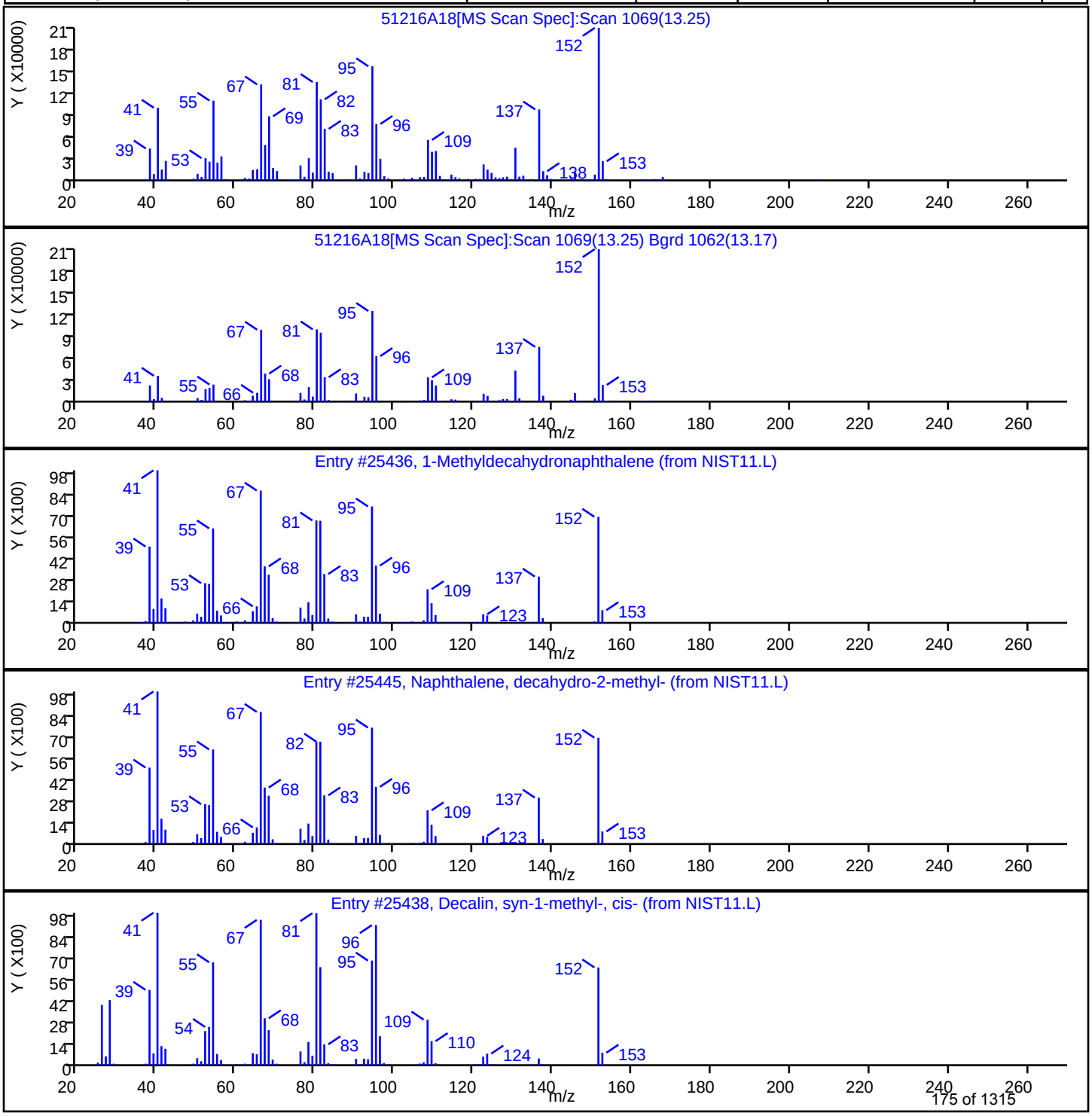
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.240

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1-Methyldecahydronaphthalene	2958-75-0	NIST11	25436	C11H20	152	97
Naphthalene, decahydro-2-methyl-	2958-76-1	NIST11	25445	C11H20	152	97
Decalin, syn-1-methyl-, cis-	1000158-89-1	NIST11	25438	C11H20	152	91



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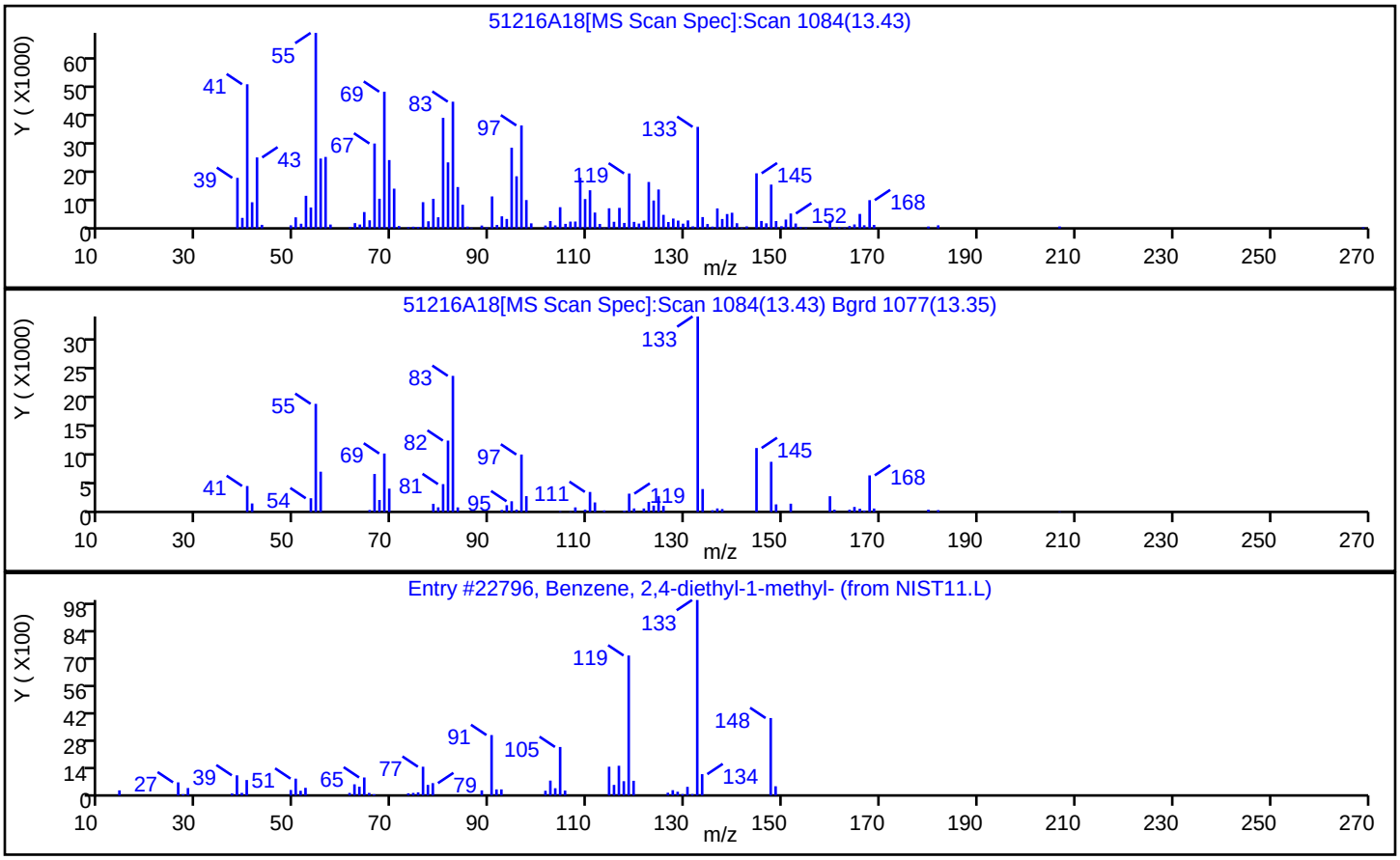
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.418

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 2,4-diethyl-1-methyl-	1758-85-6	NIST11	22796	C11H16	148	93



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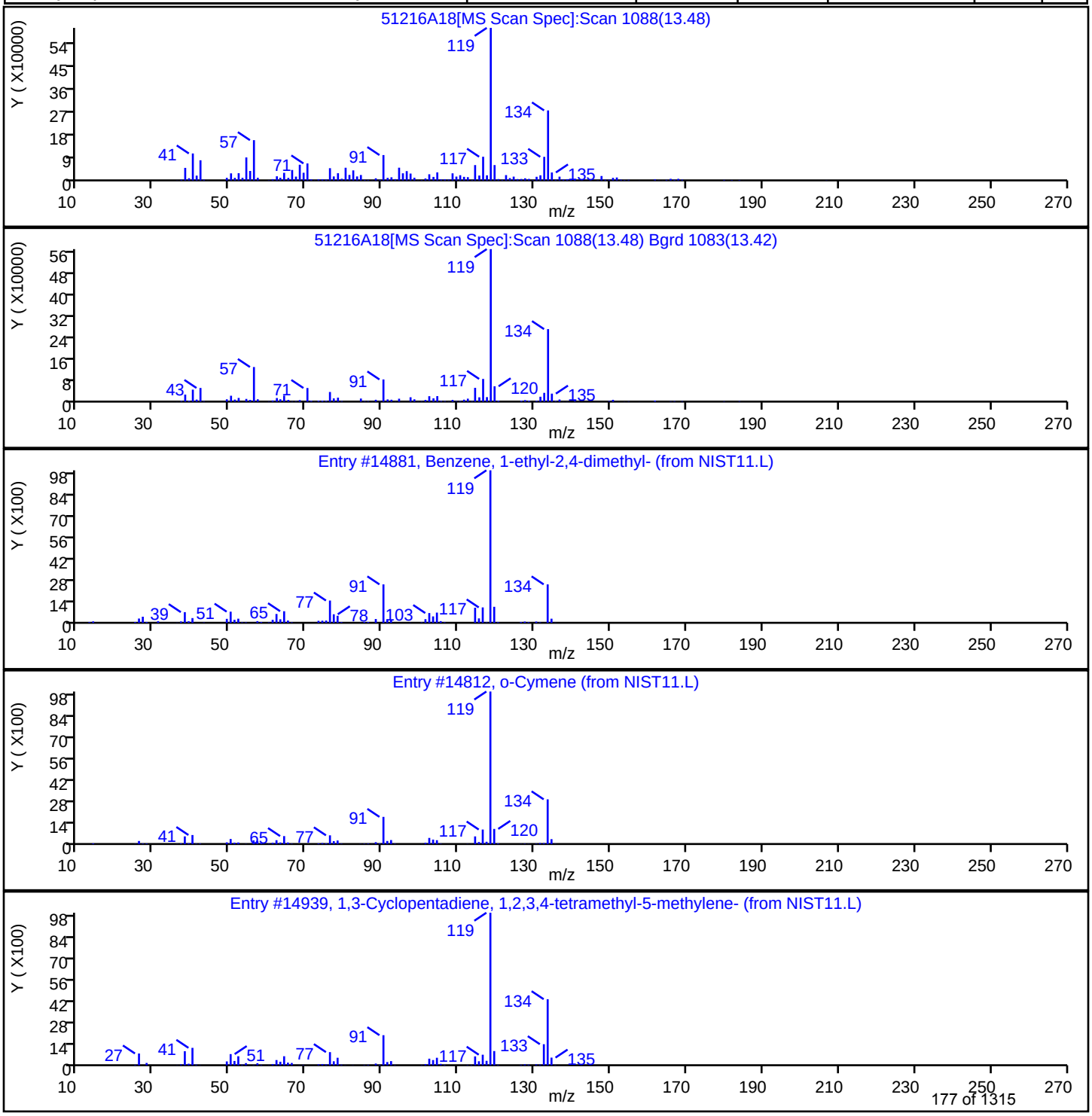
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.465

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIST11	14881	C10H14	134	94
o-Cymene	527-84-4	NIST11	14812	C10H14	134	94
1,3-Cyclopentadiene, 1,2,3,4-tetramethyl	76089-59-3	NIST11	14939	C10H14	134	93



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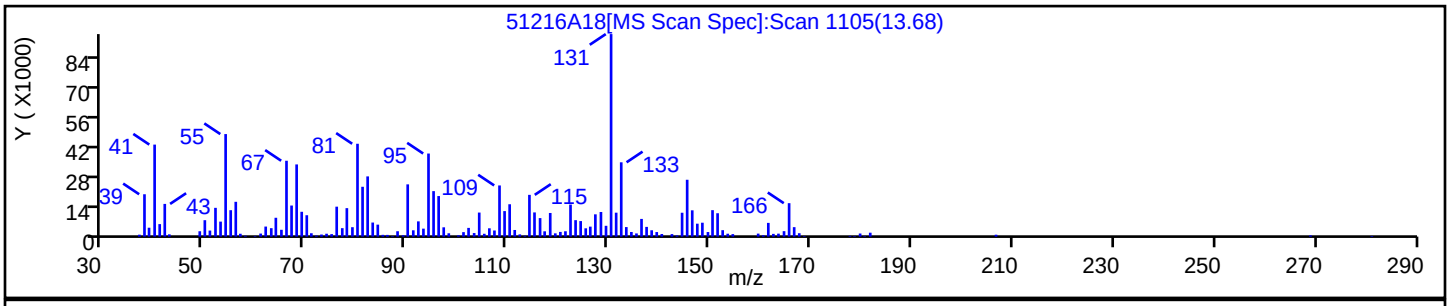
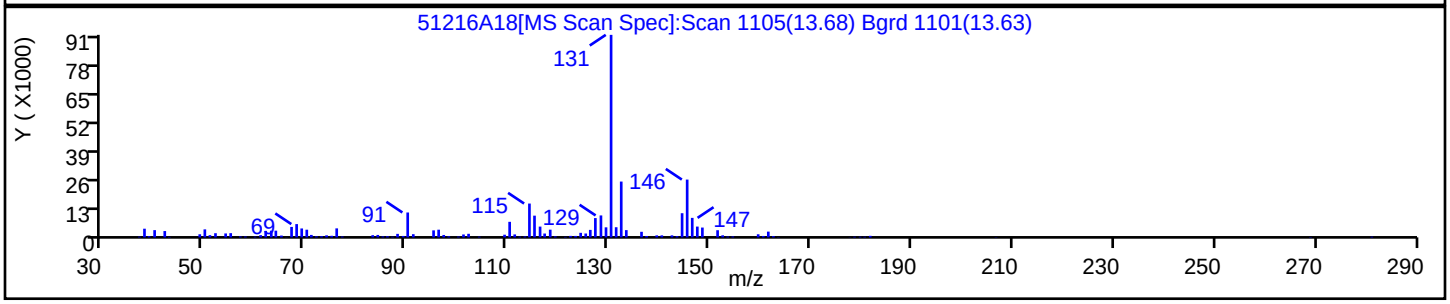
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.667

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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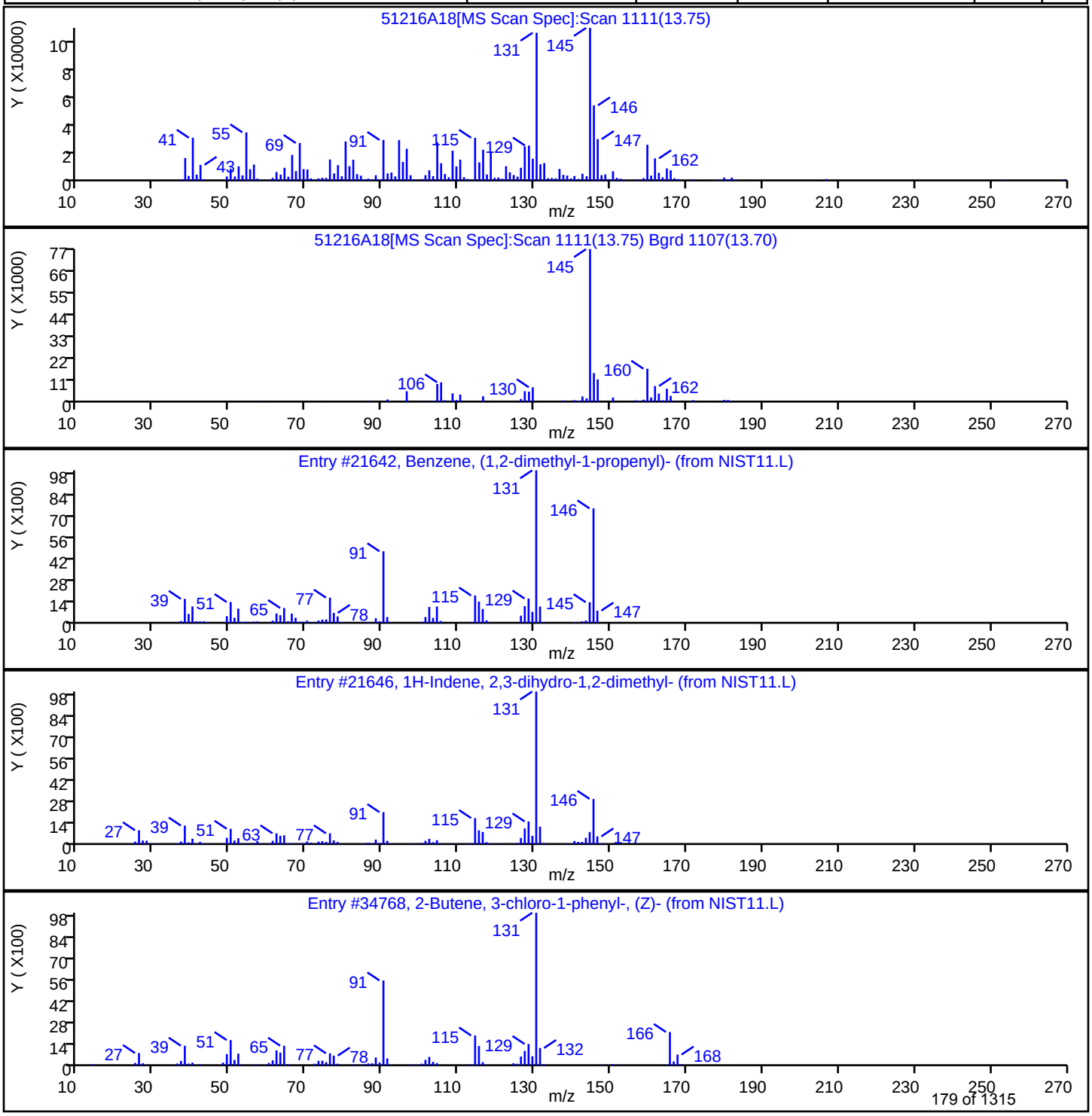
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.738

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, (1,2-dimethyl-1-propenyl)-	769-57-3	NIST11	21642	C11H14	146	93
1H-Indene, 2,3-dihydro-1,2-dimethyl-	17057-82-8	NIST11	21646	C11H14	146	91
2-Butene, 3-chloro-1-phenyl-, (Z)-	16608-68-7	NIST11	34768	C10H11Cl	166	91



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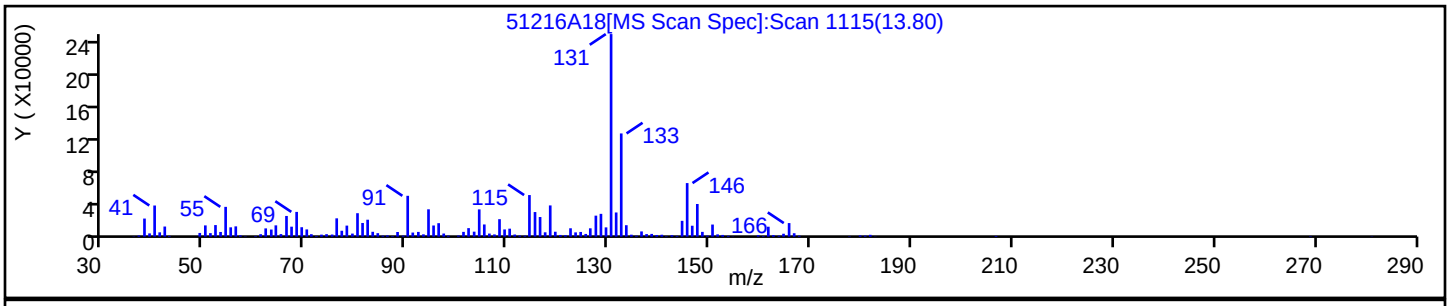
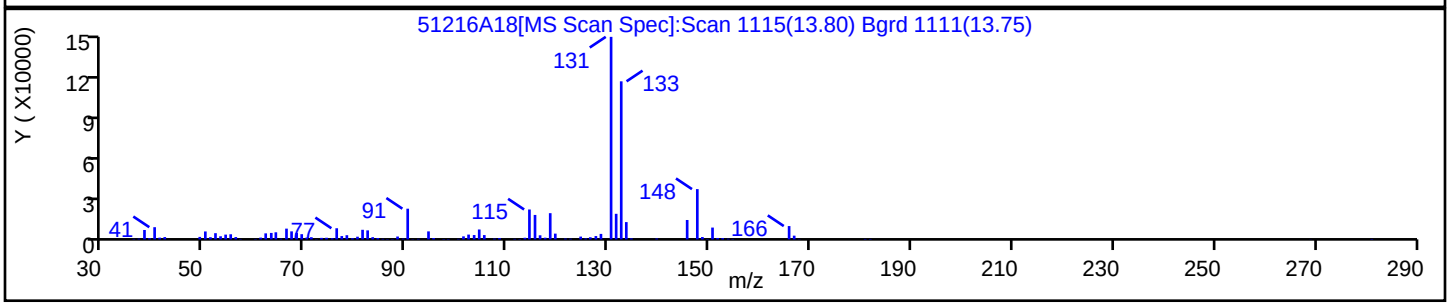
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.785

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





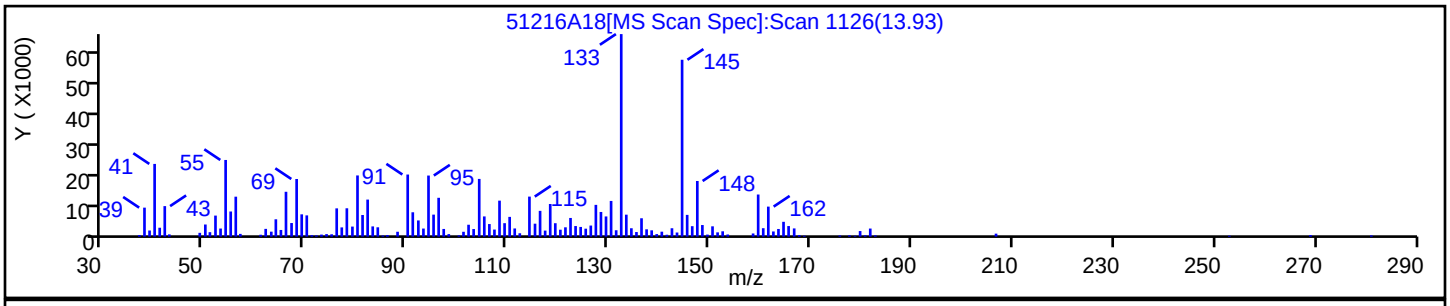
Report Date: 20-Dec-2015 12:53:24 AIM Revision: 1.0 26-May-2015 13:41:26

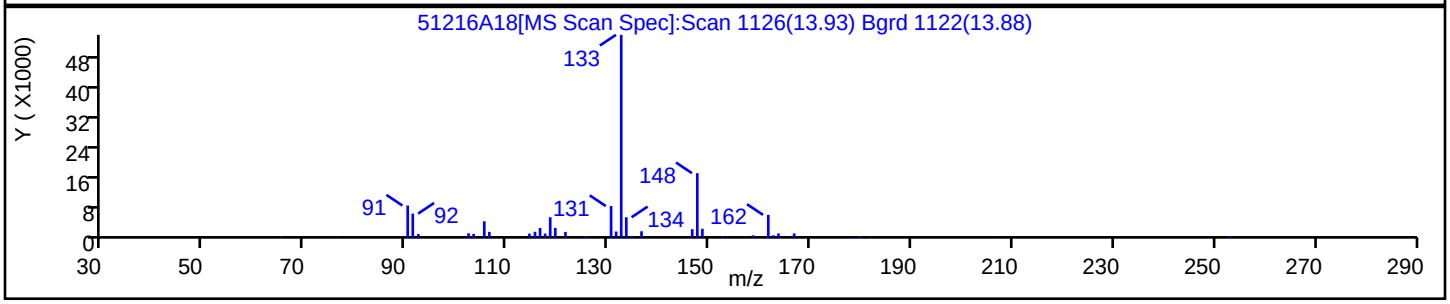
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.916

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





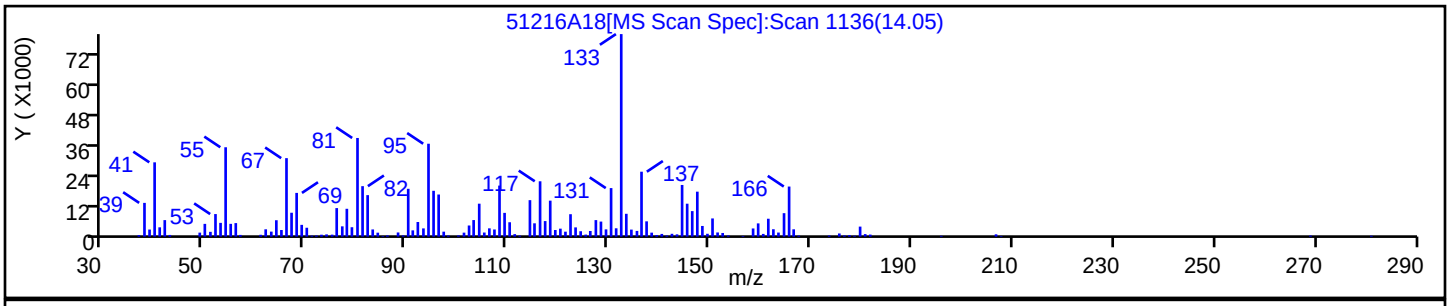
Report Date: 20-Dec-2015 12:53:24 AIM Revision: 1.0 26-May-2015 13:41:26

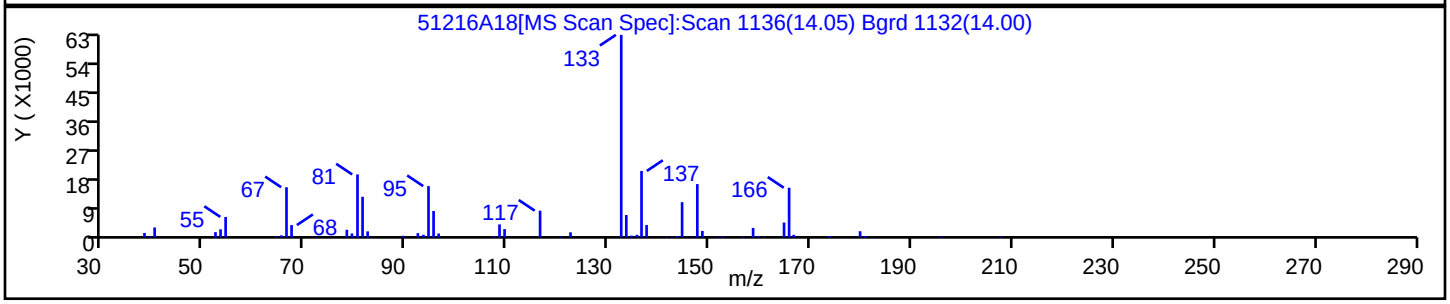
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A18.D		
Injection Date:	16-Dec-2015 15:58:30	Inst. ID:	msd5.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	5121615.b, QL12004-006		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.034

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R26

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-007
Sample wt/vol: 6.29 (g/mL) g
Lab File ID: 51216A20
% Solids: 86.3
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	270	U
74-87-3	Chloromethane	270	U
75-01-4	Vinyl chloride	270	U
74-83-9	Bromomethane	270	U
75-00-3	Chloroethane	270	U
75-69-4	Trichlorofluoromethane	270	U
75-35-4	1,1-Dichloroethene	270	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	270	U
67-64-1	Acetone	540	U
75-15-0	Carbon disulfide	270	U
79-20-9	Methyl acetate	270	U
75-09-2	Methylene chloride	270	U
156-60-5	trans-1,2-Dichloroethene	270	U
1634-04-4	Methyl tert-butyl ether	270	U
75-34-3	1,1-Dichloroethane	270	U
156-59-2	cis-1,2-Dichloroethene	270	U
78-93-3	2-Butanone	540	U
74-97-5	Bromochloromethane	270	U
67-66-3	Chloroform	270	U
71-55-6	1,1,1-Trichloroethane	270	U
110-82-7	Cyclohexane	270	U
56-23-5	Carbon tetrachloride	270	U
71-43-2	Benzene	270	U
107-06-2	1,2-Dichloroethane	270	U
79-01-6	Trichloroethene	270	U
108-87-2	Methylcyclohexane	2400	
78-87-5	1,2-Dichloropropane	270	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R26

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-007
Sample wt/vol: 6.29 (g/mL) g
Lab File ID: 51216A20
% Solids: 86.3
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	270	U
10061-01-5	cis-1,3-Dichloropropene	270	U
108-10-1	4-Methyl-2-pentanone	540	U
108-88-3	Toluene	270	U
10061-02-6	trans-1,3-Dichloropropene	270	U
79-00-5	1,1,2-Trichloroethane	270	U
127-18-4	Tetrachloroethene	270	U
591-78-6	2-Hexanone	540	U
124-48-1	Dibromochloromethane	270	U
106-93-4	1,2-Dibromoethane	270	U
108-90-7	Chlorobenzene	270	U
100-41-4	Ethylbenzene	270	U
179601-23-1	m, p-Xylene	270	U
95-47-6	o-Xylene	270	U
100-42-5	Styrene	270	U
75-25-2	Bromoform	270	U
98-82-8	Isopropylbenzene	1500	
79-34-5	1,1,2,2-Tetrachloroethane	270	U
541-73-1	1,3-Dichlorobenzene	270	U
106-46-7	1,4-Dichlorobenzene	270	U
95-50-1	1,2-Dichlorobenzene	300	
96-12-8	1,2-Dibromo-3-chloropropane	270	U
120-82-1	1,2,4-Trichlorobenzene	270	U
87-61-6	1,2,3-Trichlorobenzene	270	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R26

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-007
Sample wt/vol: 6.29 (g/mL) g
Lab File ID: 51216A20
% Solids: 86.3
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/16/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02		Unknown-01	11.01	7400	J
03					
04		Unknown-02	11.21	8700	J
05		Unknown-03	11.26	15000	J
06		Unknown-04	11.63	4100	J
07		Unknown-05	11.71	2900	J
08		Unknown-06	11.79	7200	J
09	3868-64-2	Pentalene, octahydro-2-	12.01	3600	NJ
10		Unknown-07	12.11	3500	J
11					
12		Unknown-08	12.77	3200	J
13	527-84-4	o-Cymene	12.86	3800	NJ
14		Unknown-09	12.97	2600	J
15	1000152-47-3	trans-Decalin, 2-methyl-	13.10	5800	NJ
16	2958-76-1	Naphthalene, decahydro-2-	13.24	4900	NJ
17		Unknown-10	13.29	2800	J
18	56253-64-6	Benzene, (2-methyl-1-	13.34	3200	NJ
19		Unknown-11	13.41	3300	J
20	488-23-3	Benzene, 1,2,3,4-tetramethyl-	13.48	14000	NJ
21		Unknown-12	13.62	2500	J
22		Unknown-13	13.66	6000	J
23	16608-68-7	2-Butene, 3-chloro-1-phenyl-	13.74	3400	NJ
24		Unknown-14	13.79	11000	J
25		Unknown-15	13.92	4100	J
26		Unknown-16	14.00	2500	J
27		Unknown-17	14.03	4400	J
28	5557-93-7	Benzene, 1-(1-methylethenyl)-	14.11	3000	NJ
29		Unknown-18	14.28	4500	J
30		Unknown-19	14.60	3500	J
	E966796[2]	Total Alkanes	N/A	25900	J

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Lab Sample ID:	QL12004-007	Client Sample ID:	F6R26
Injection Date:	16-Dec-2015 16:41:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, QL12004-007		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	20
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	6.2900	Weight of sample extracted (g)
M	13.700	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 12:43:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.105		ND			
2 Chloromethane	50.0		2.330		ND			
$ 3 Vinyl Chloride-d3	65.0	2.460	2.460	0.000	111303	34.978	1888.55	R
4 Vinyl Chloride	62.0		2.472		ND			
5 Bromomethane	94.0		2.852		ND			
$ 6 Chloroethane-d5	69.0	2.947	2.935	0.012	55430	38.309	2068.41	R
7 Chloroethane	64.0		2.970		ND			
8 Trichlorofluoromethane	101.0		3.267		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.884	3.883	0.001	111095	25.094	1354.87	R
10 1,1-Dichloroethene	96.0		3.907		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.931		ND			
12 Acetone	43.0		3.943		ND			
13 Carbon Disulfide	76.0		4.180		ND			
14 Methyl Acetate	43.0		4.322		ND			
15 Methylene Chloride	84.0		4.453		ND			
16 Methyl tert-Butyl Ether	73.0		4.773		ND			
17 trans-1,2-Dichloroethene	96.0		4.785		ND			
18 1,1-Dichloroethane	63.0		5.271		ND			
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	61506	96.657	5218.79	QR
20 2-Butanone	43.0		5.935		ND			
21 cis-1,2-Dichloroethene	96.0		5.935		ND			
22 Bromochloromethane	128.0		6.220		ND			
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	150465	33.603	1814.32	QR
24 Chloroform	83.0		6.303		ND			
25 1,1,1-Trichloroethane	97.0		6.552		ND			

Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A20.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0		6.635		ND			
27 Carbon Tetrachloride	117.0		6.753		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	103419	38.309	2068.38	R
$ 29 Benzene-d6	84.0	6.943	6.943	0.000	330707	63.656	3436.94	R
30 Benzene	78.0		6.990		ND			
31 1,2-Dichloroethane	62.0		6.990		ND			
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	403629	50.000	2699.63	
33 Trichloroethene	95.0		7.761		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	97017	73.346	3960.13	R
35 Methylcyclohexane	83.0	7.987	8.022	-0.035	111009	44.997	2429.49	Q
36 1,2-Dichloropropane	63.0		8.034		ND			
39 Bromodichloromethane	83.0		8.354		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.386	9.374	0.012	95209	51.771	2795.23	R
41 cis-1,3-Dichloropropene	75.0		8.852		ND			
42 4-Methyl-2-pentanone	43.0		8.994		ND			
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	277377	56.695	3061.10	QR
44 Toluene	91.0		9.208		ND			
45 trans-1,3-Dichloropropene	75.0		9.409		ND			
46 1,1,2-Trichloroethane	97.0		9.599		ND			
47 Tetrachloroethene	164.0		9.765		ND			
$ 48 2-Hexanone-d5	63.0	9.777	9.777	0.000	42223	89.787	4847.84	R
49 2-Hexanone	43.0		9.825		ND			
50 Dibromochloromethane	129.0		9.979		ND			
51 1,2-Dibromoethane	107.0		10.109		ND			
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	208462	50.000	2699.63	Q
53 Chlorobenzene	112.0		10.536		ND			
54 Ethylbenzene	91.0		10.619		ND			
55 m+p-Xylenes	106.0		10.726		ND			
56 o-Xylene	106.0		11.058		ND			
57 Styrene	104.0		11.070		ND			
58 Bromoform	173.0		11.236		ND			
59 Isopropylbenzene	105.0	11.354	11.354	0.000	182396	27.621	1491.31	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	67817	56.097	3028.81	R
61 1,1,2,2-Tetrachloroethane	83.0		11.580		ND			
62 1,3-Dichlorobenzene	146.0		12.327		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.374	12.362	0.012	139958	50.000	2699.63	
64 1,4-Dichlorobenzene	146.0		12.386		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	119295	50.508	2727.07	R
66 1,2-Dichlorobenzene	146.0	13.015	12.659	0.356	20707	5.4968	296.78	Q
67 1,2-Dibromo-3-chloropropane	75.0		13.192		ND			
68 1,2,4-Trichlorobenzene	180.0		13.762		ND			
69 1,2,3-Trichlorobenzene	180.0		14.117		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Lab Sample ID:	QL12004-007	Client Sample ID:	F6R26
Injection Date:	16-Dec-2015 16:41:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, QL12004-007		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	20
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	6.2900	Weight of sample extracted (g)
M	13.700	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 12:43:30

Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown Alkane						
10.086	6573778	216.73	11702	52				
		Unknown						
11.010	4149725	136.81	7386.81	52				
		Unknown Alkane						
11.129	3912791	129.00	6965.05	52				
		Unknown						
11.212	4893088	161.32	8710.05	52				
		Unknown						
11.260	8656892	285.41	15410	52				
		Unknown						
11.627	5578946	75.521	4077.59	63				
		Unknown						
11.710	4004226	54.205	2926.65	63				
		Unknown						
11.793	9827261	133.03	7182.64	63				
3868-64-2		Pentalene, octahydro-2-methyl-						
12.007	4883952	66.113	3569.63	63	87	10701	C9H16	124
		Unknown						
12.113	4740363	64.170	3464.68	63				
		Unknown Alkane						
12.267	9498762	128.58	6942.54	63				
		Unknown						
12.766	4331537	58.635	3165.87	63				

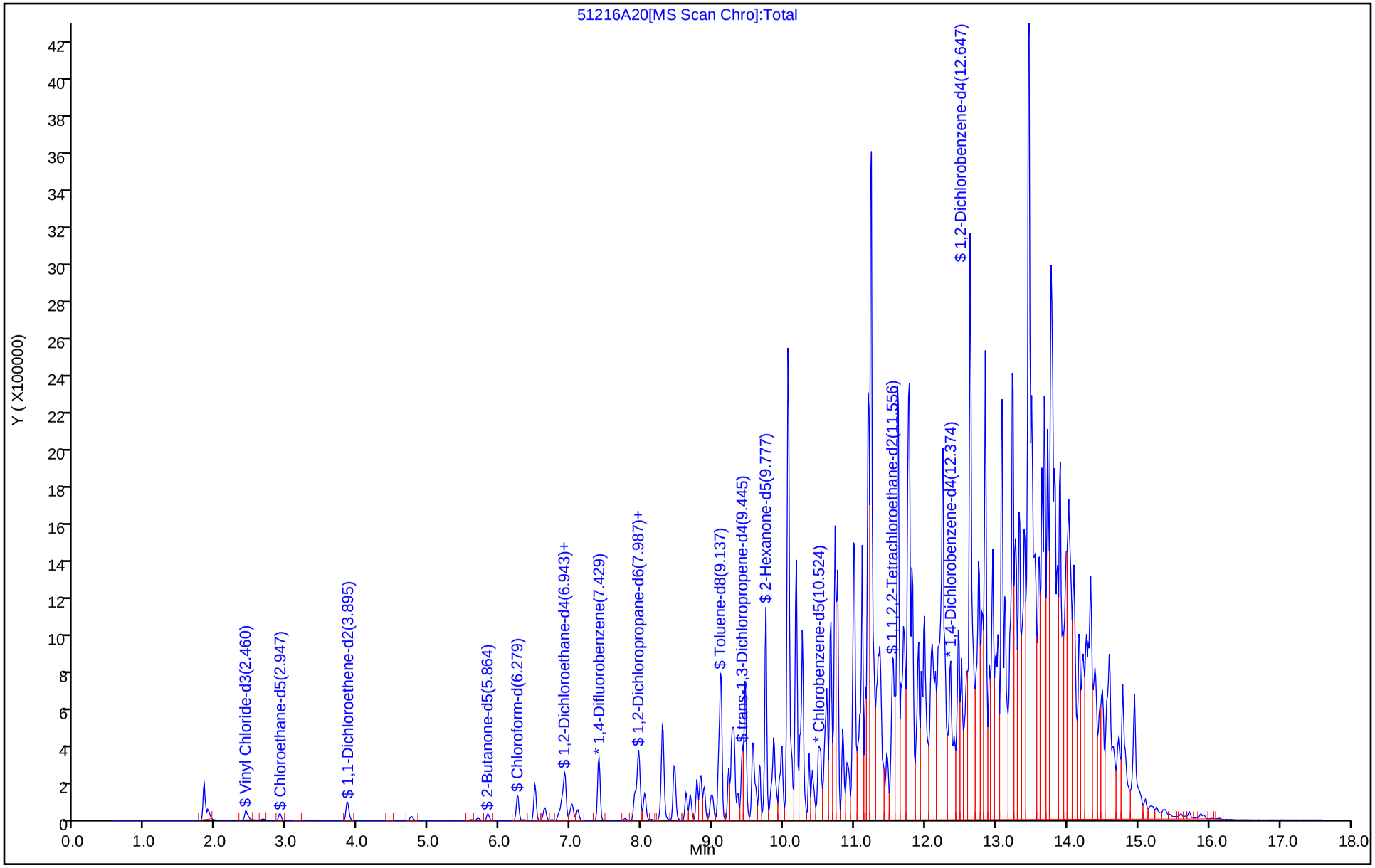
RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
527-84-4	o-Cymene							
12.860	5141221	69.596	3757.66	63	95	14812	C10H14	134
	Unknown							
12.967	3616485	48.956	2643.25	63				
1000152-47-3	trans-Decalin, 2-methyl-							
13.098	7976187	107.97	5829.71	63	95	25429	C11H20	152
2958-76-1	Naphthalene, decahydro-2-methyl-							
13.240	6750441	91.380	4933.82	63	97	25445	C11H20	152
	Unknown							
13.287	3766126	50.981	2752.62	63				
56253-64-6	Benzene, (2-methyl-1-butenyl)-							
13.335	4421428	59.852	3231.57	63	96	21633	C11H14	146
	Unknown							
13.406	4452236	60.269	3254.09	63				
488-23-3	Benzene, 1,2,3,4-tetramethyl-							
13.477	19038407	257.72	13915	63	94	14864	C10H14	134
	Unknown							
13.619	3371565	45.640	2464.24	63				
	Unknown							
13.655	8152519	110.36	5958.59	63				
16608-68-7	2-Butene, 3-chloro-1-phenyl-, (Z)-							
13.738	4642648	62.847	3393.26	63	92	34768	C10H11Cl	166
	Unknown							
13.785	14659750	198.45	10715	63				
	Unknown							
13.916	5611484	75.962	4101.37	63				
	Unknown							
13.999	3487202	47.206	2548.76	63				
	Unknown							
14.034	6081012	82.318	4444.55	63				
5557-93-7	Benzene, 1-(1-methylethenyl)-2-(1-methyl							
14.106	4112832	55.675	3006.02	63	93	30951	C12H16	160
	Unknown							
14.283	6216531	84.152	4543.59	63				
	Unknown							
14.604	4760812	64.446	3479.63	63				

Quant. Compounds	RT	Response	Amount ug/L
* 52 Chlorobenzene-d5	10.512	1516584	50.000
* 63 1,4-Dichlorobenzene-d4	12.374	3693626	50.000

Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D				
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	F6R26	Lab ID:	QL12004-007		
Sample Info:	5121615.b, QL12004-007				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

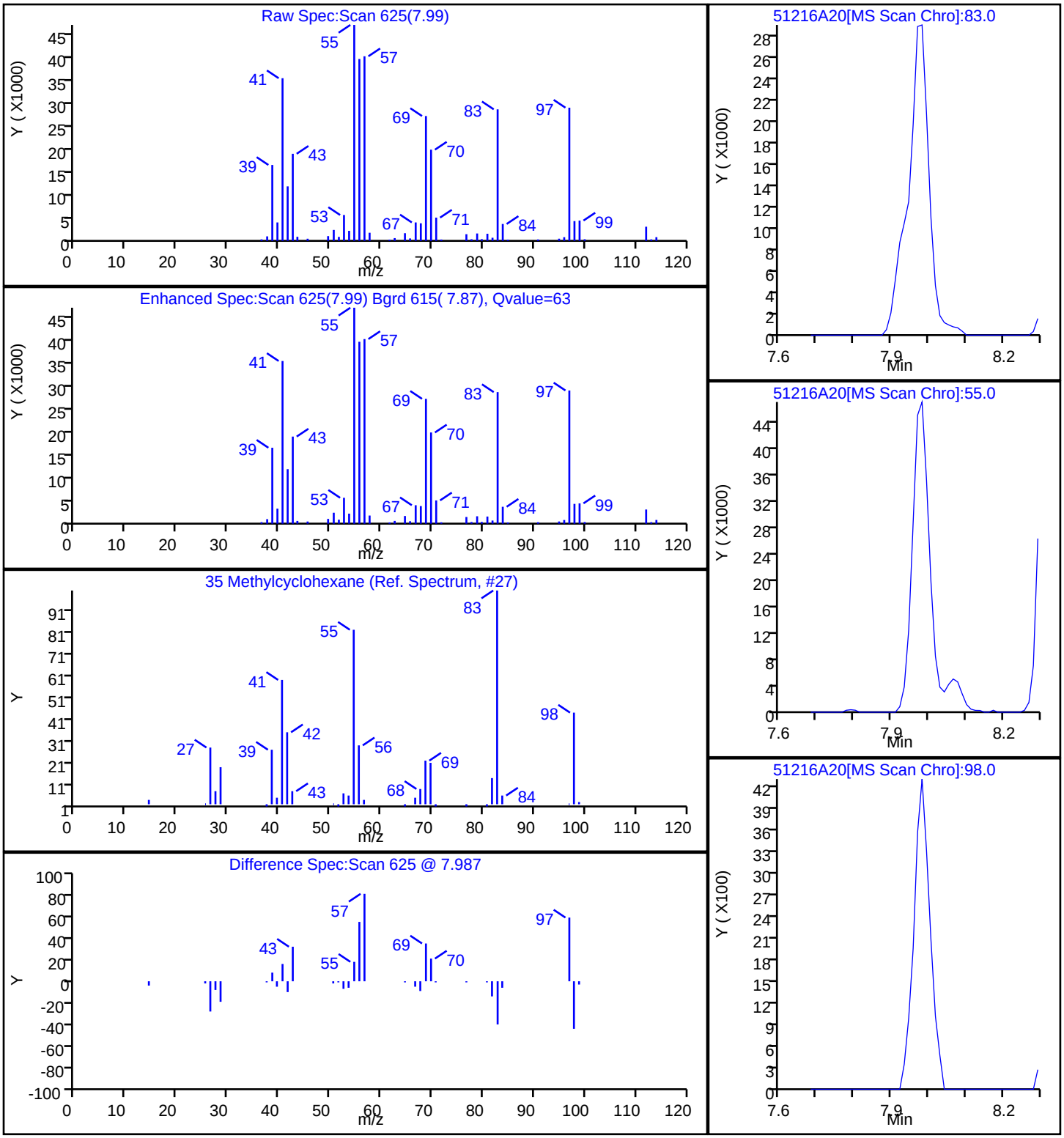


Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

35 Methylcyclohexane

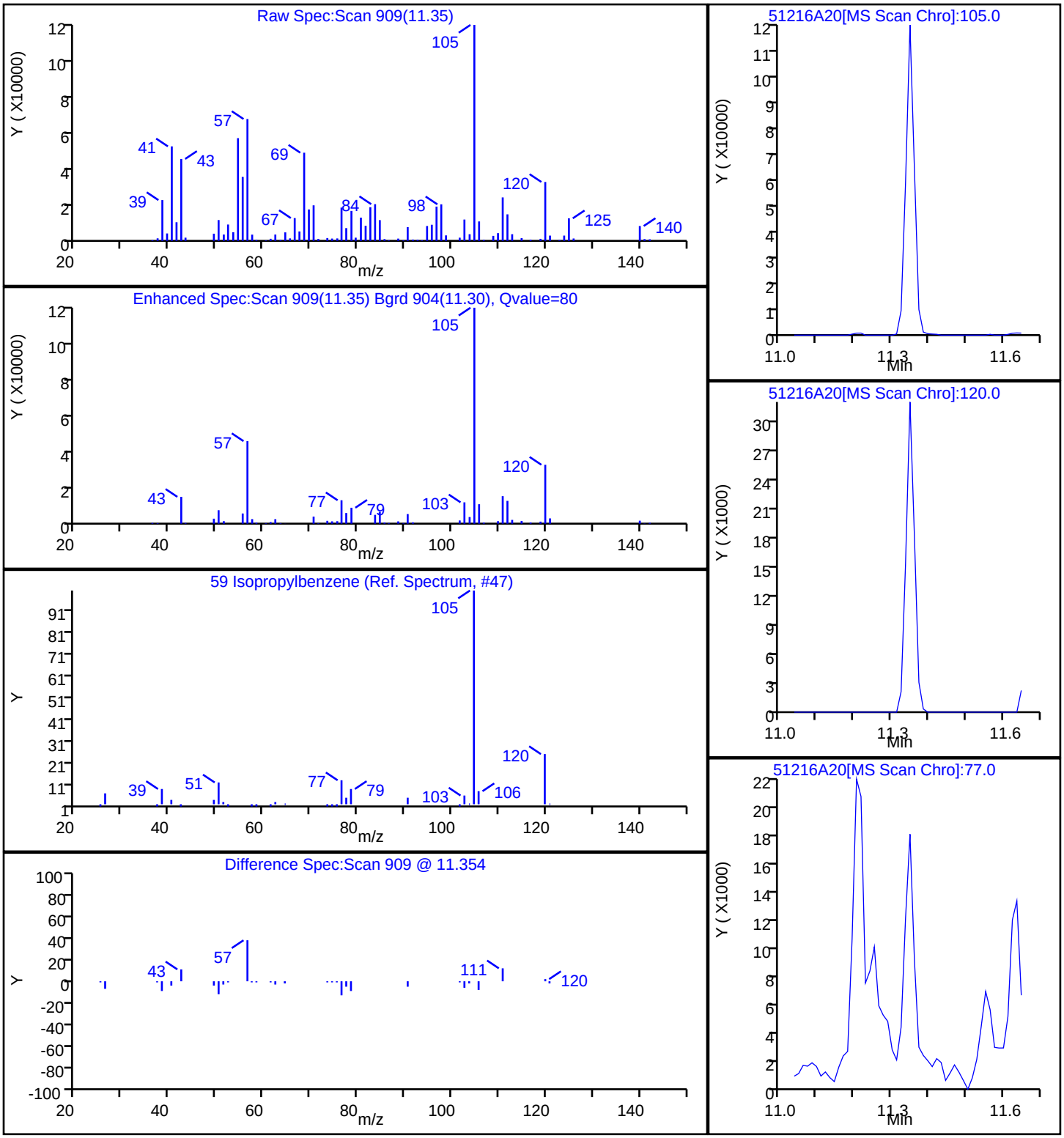


Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

59 Isopropylbenzene

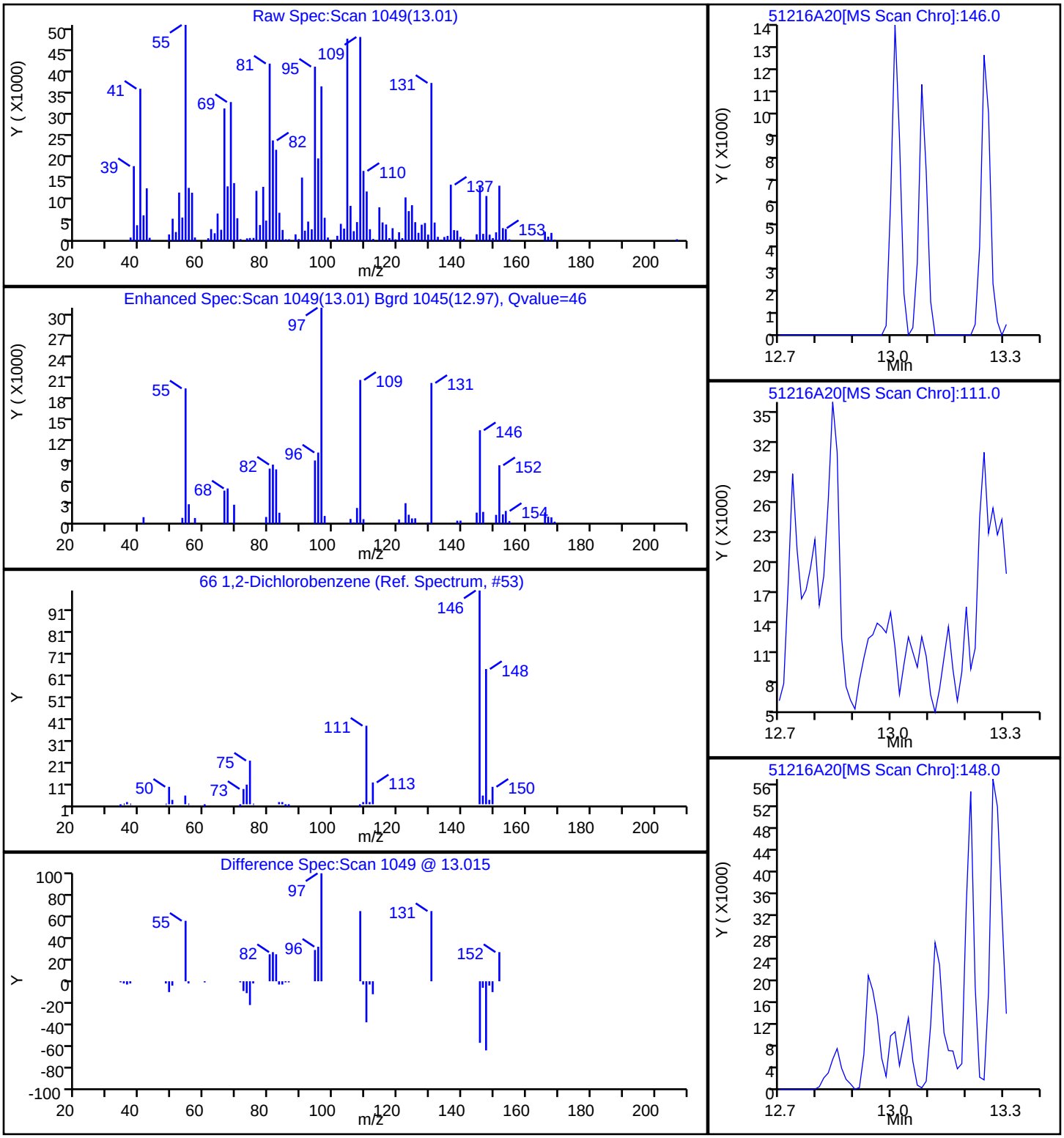


Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

66 1,2-Dichlorobenzene



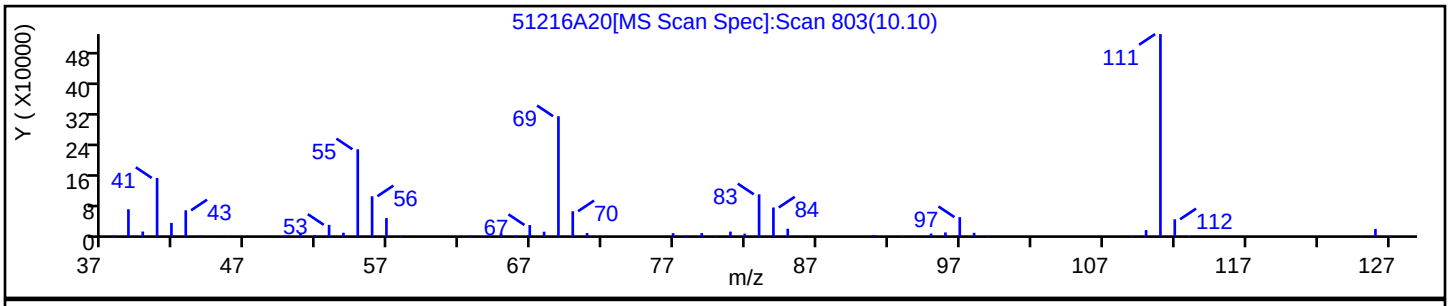
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

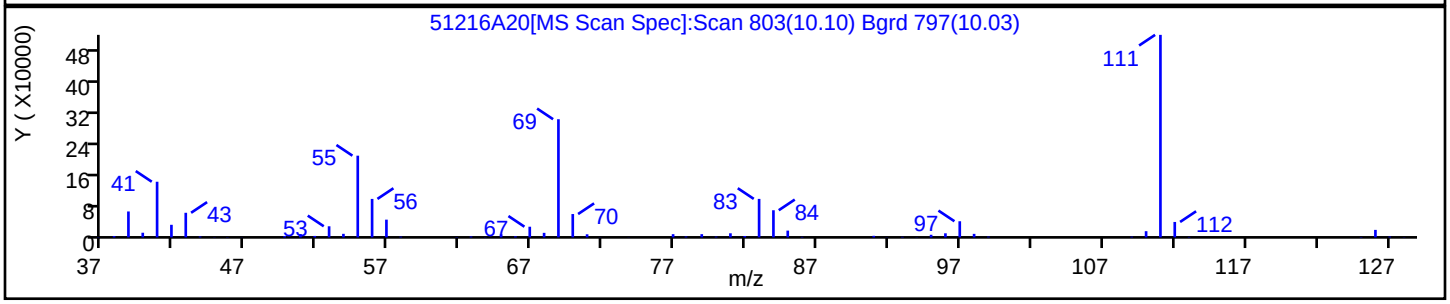
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.086

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





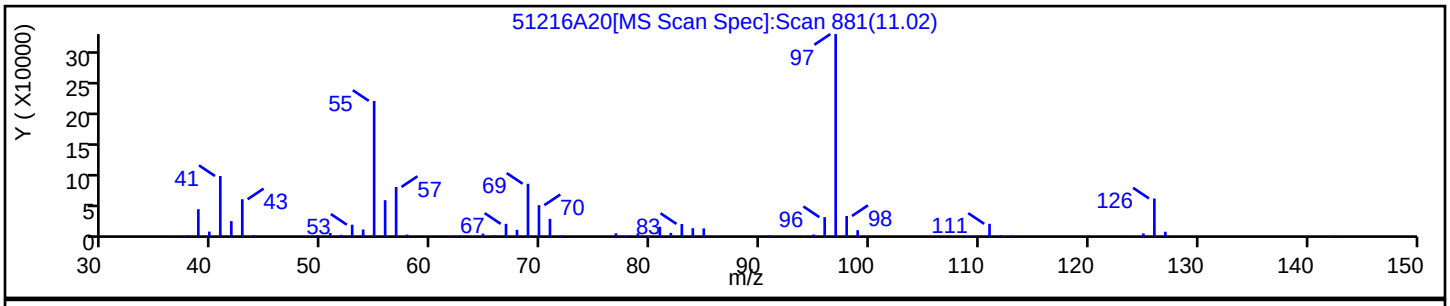
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

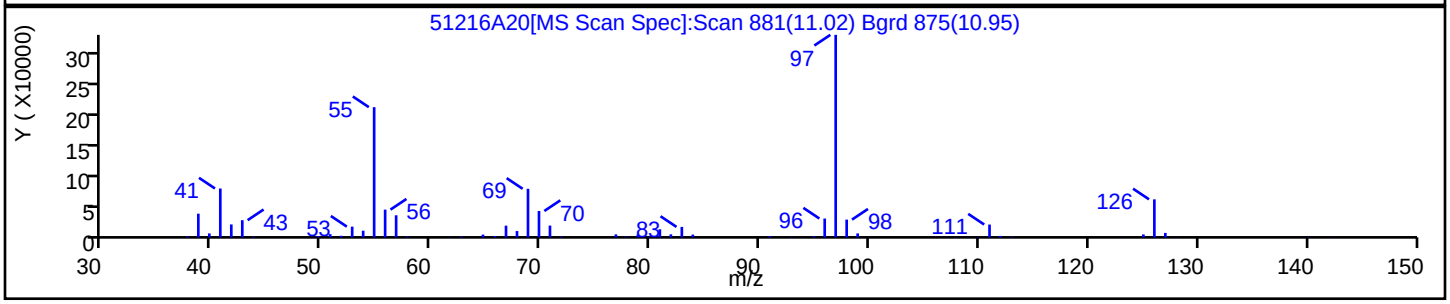
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.010

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





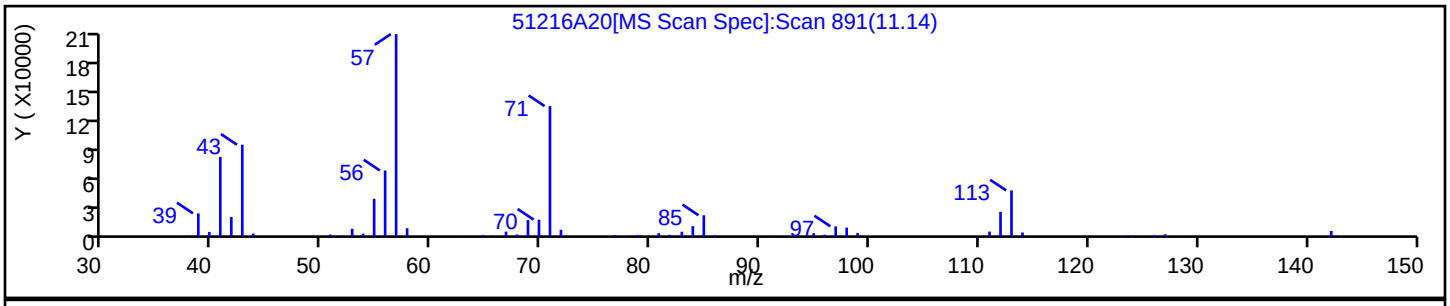
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

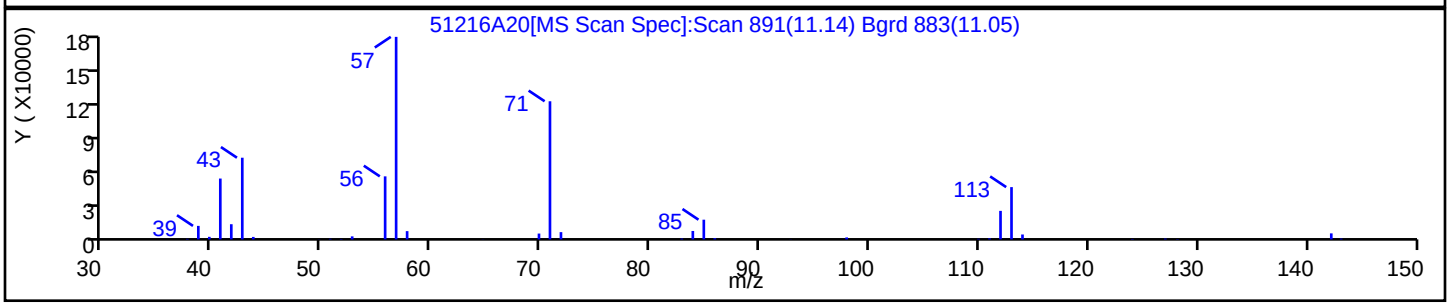
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.129

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





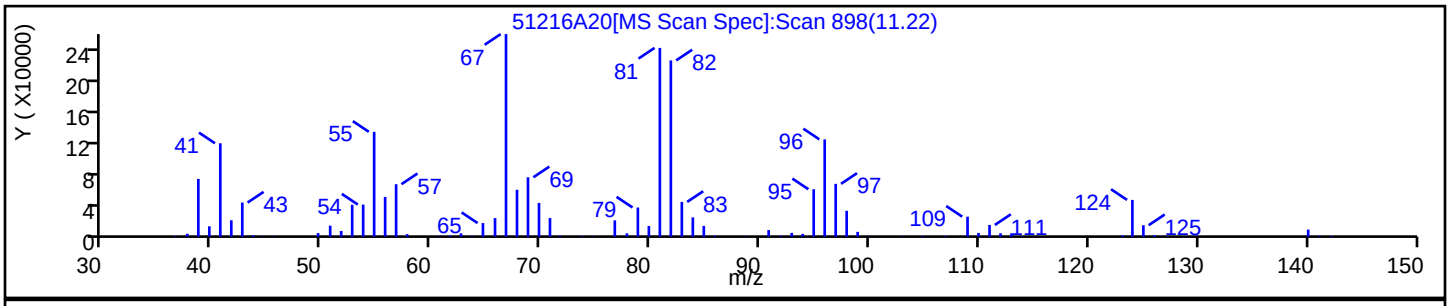
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

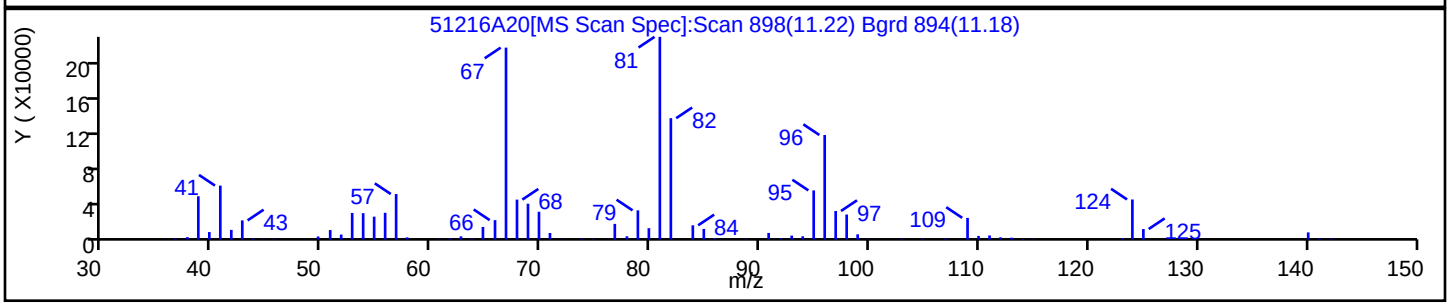
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.212

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





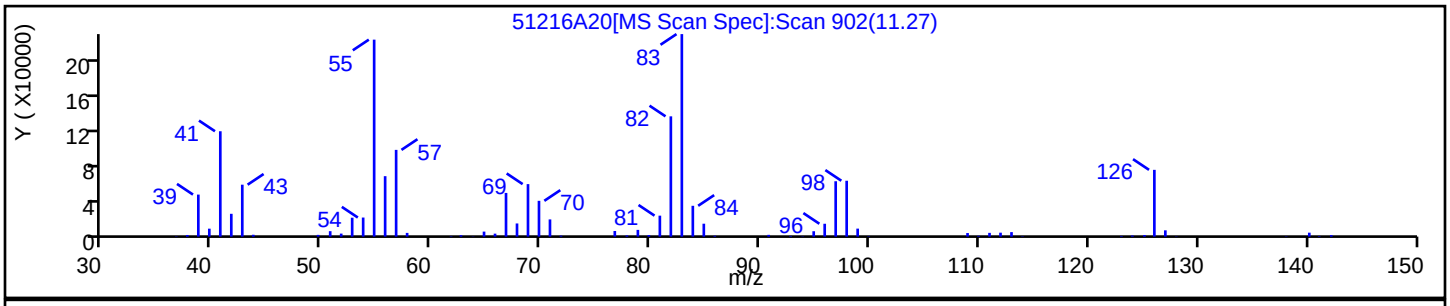
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

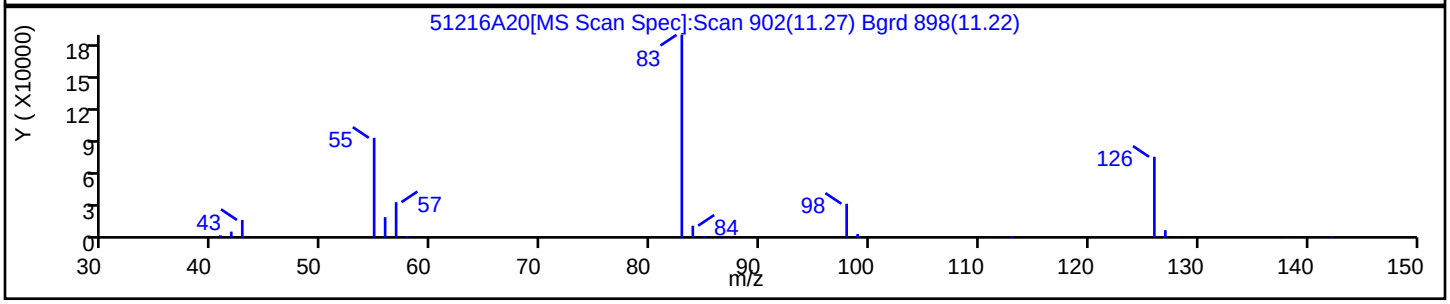
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.260

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





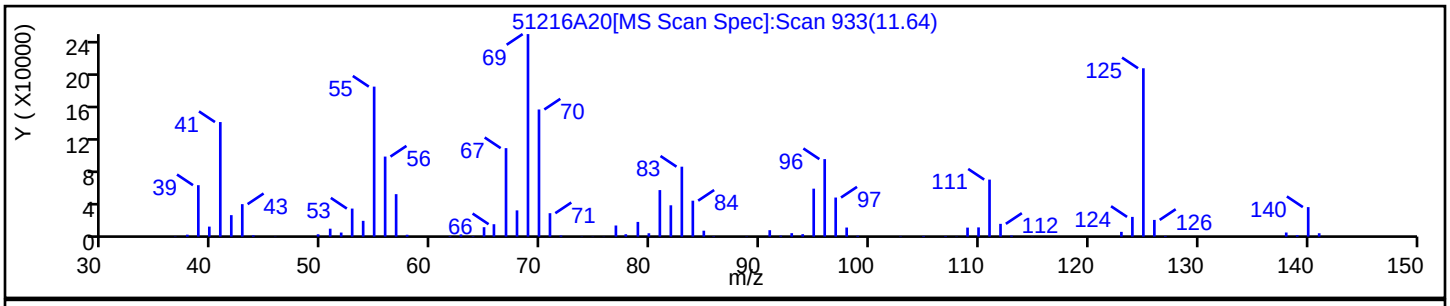
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

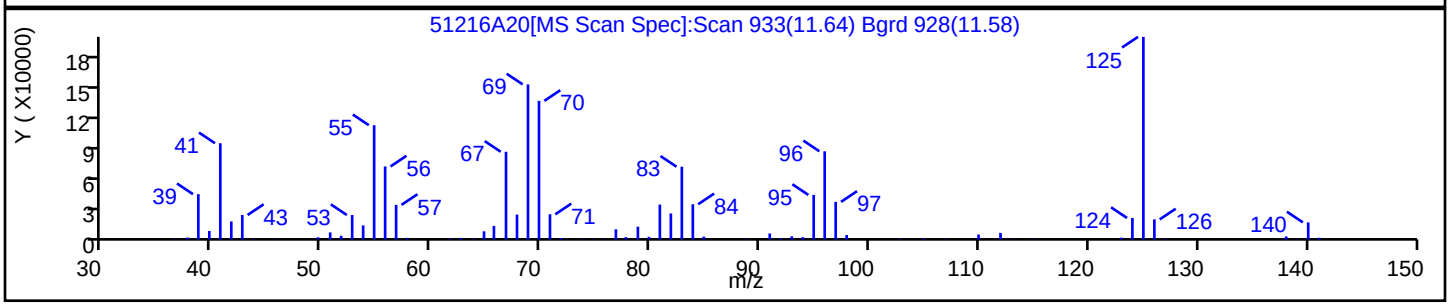
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.627

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





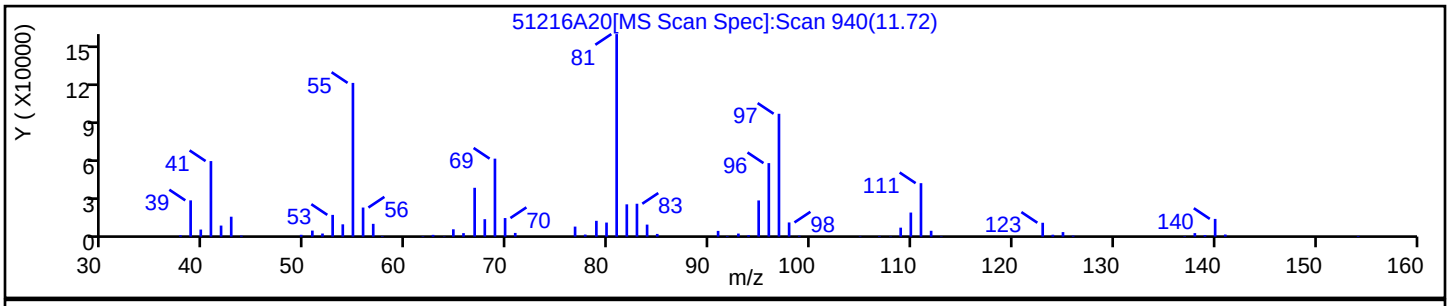
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

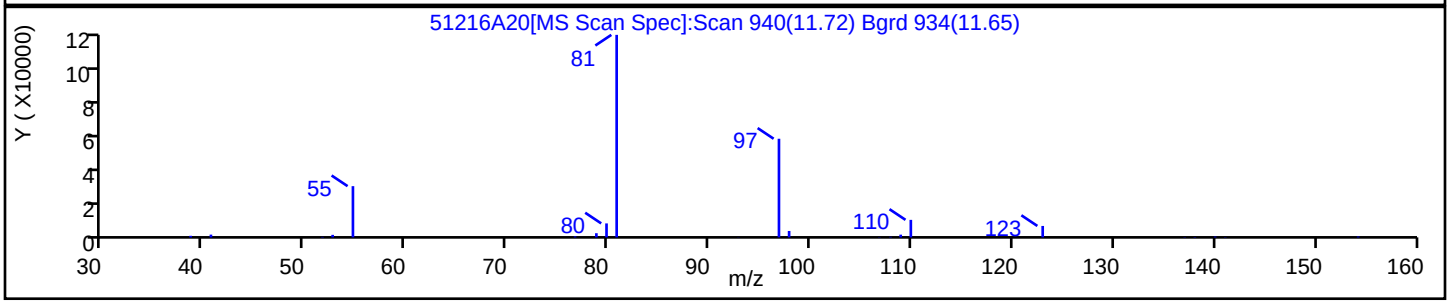
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.710

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





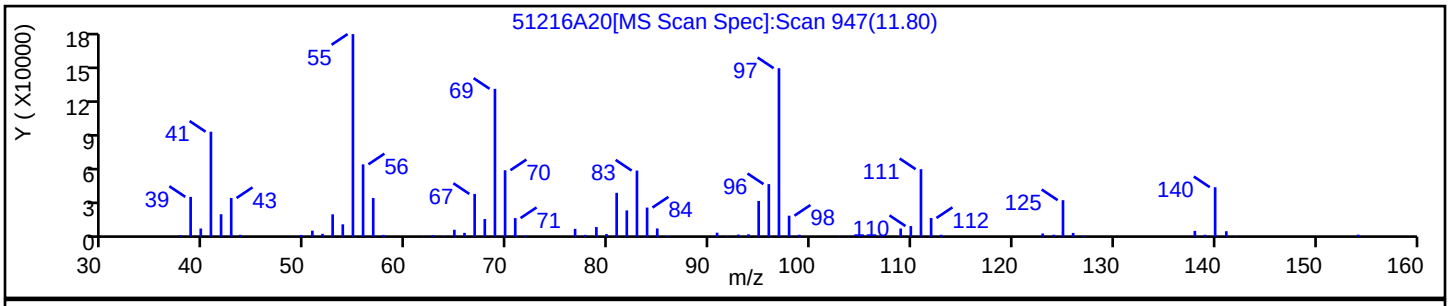
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

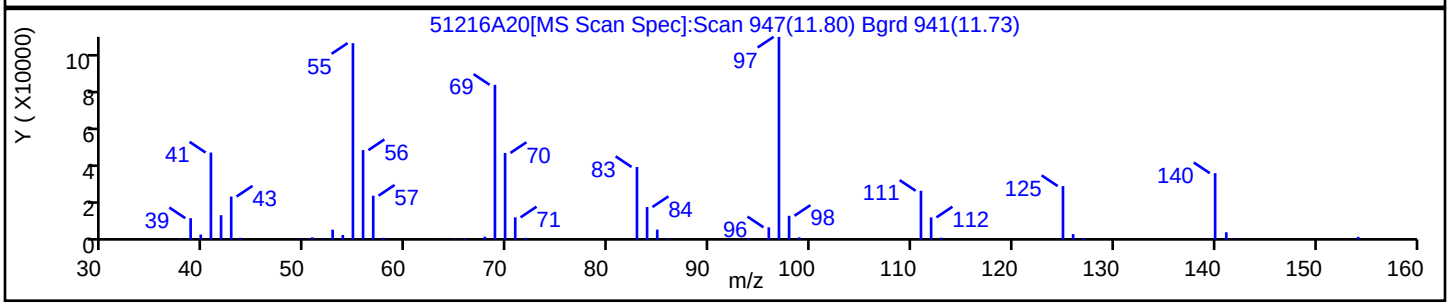
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.793

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





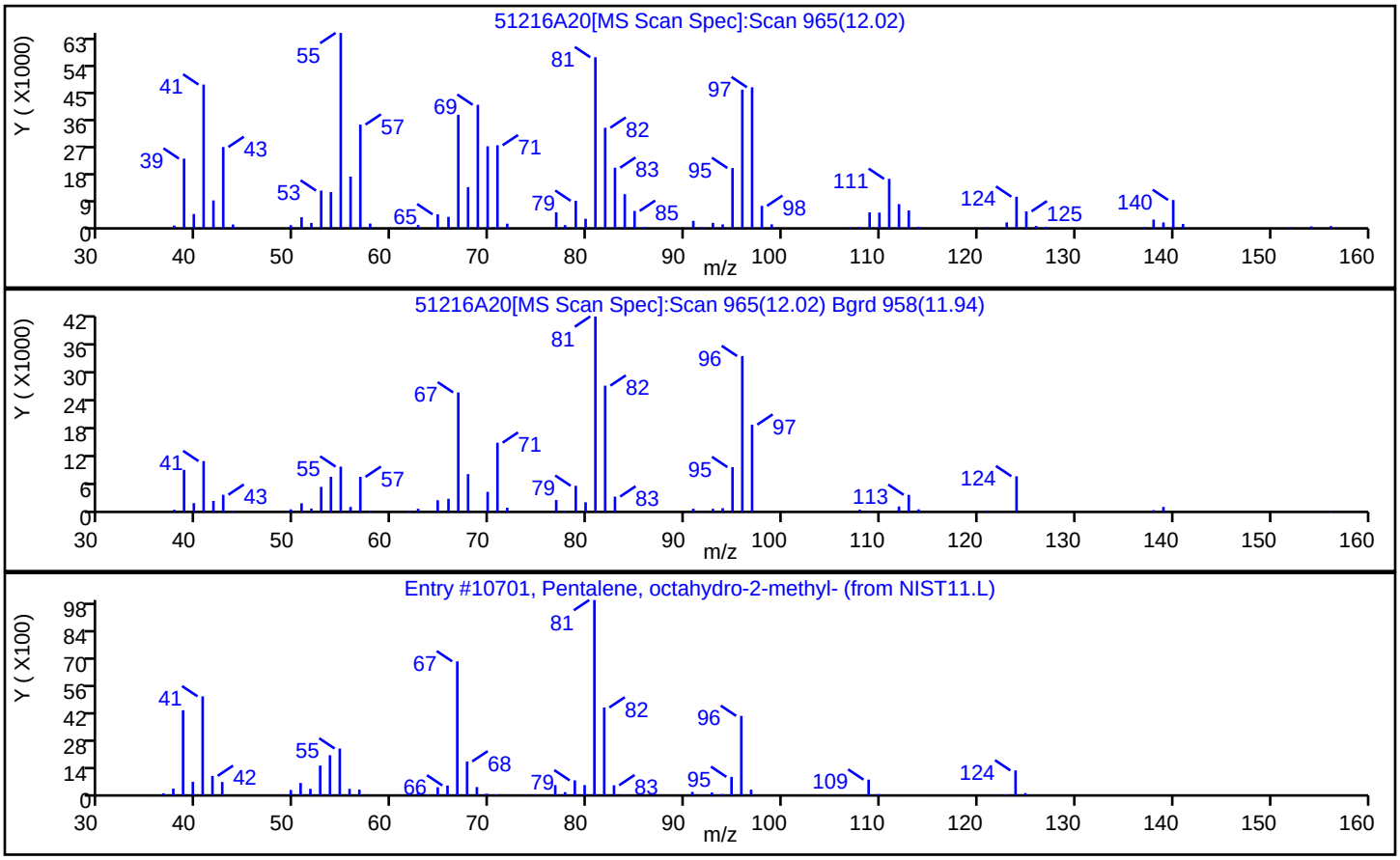
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.007

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Pentalene, octahydro-2-methyl-	3868-64-2	NIST11	10701	C9H16	124	87



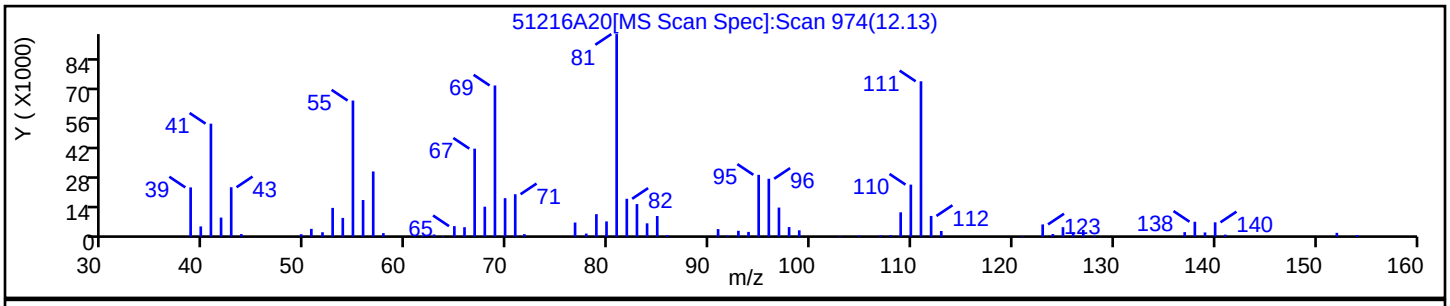
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

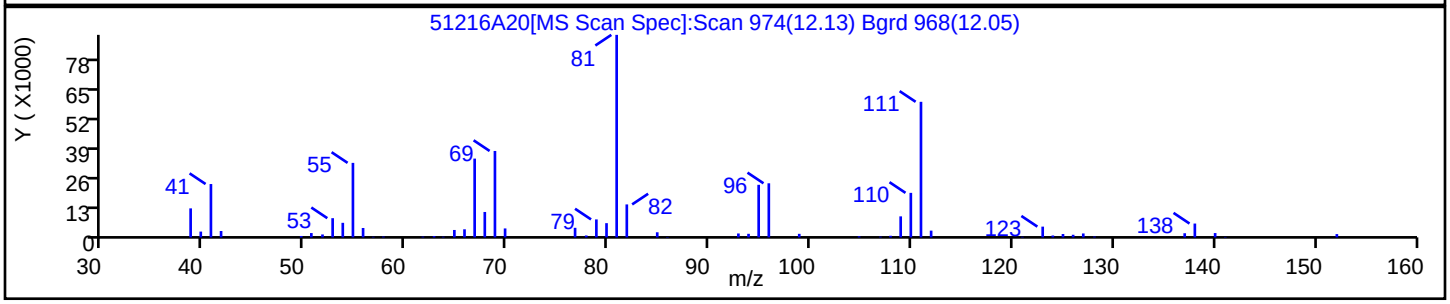
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.113

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





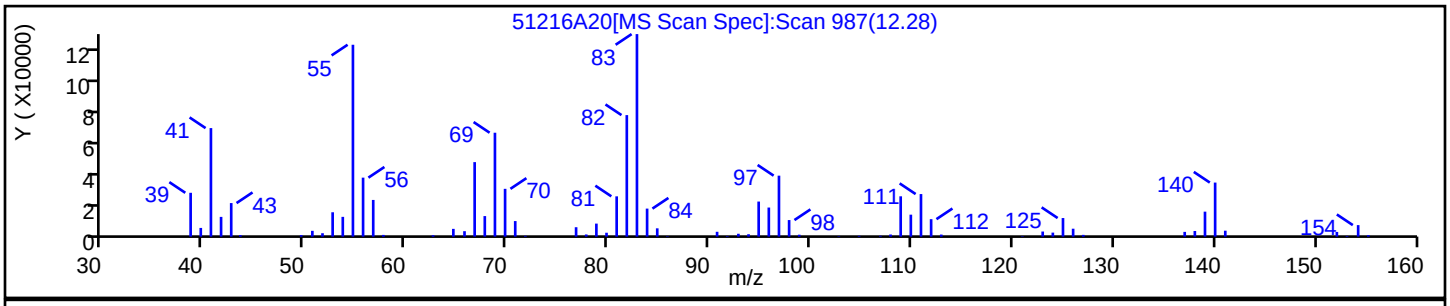
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

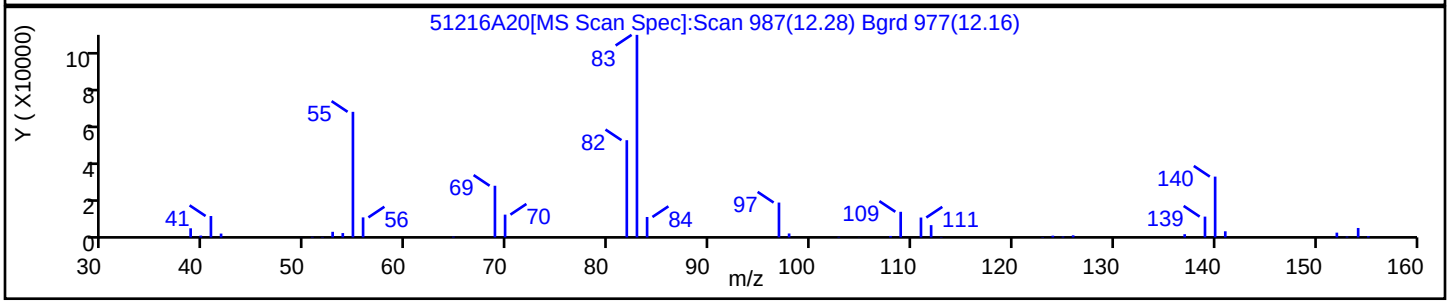
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.267

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





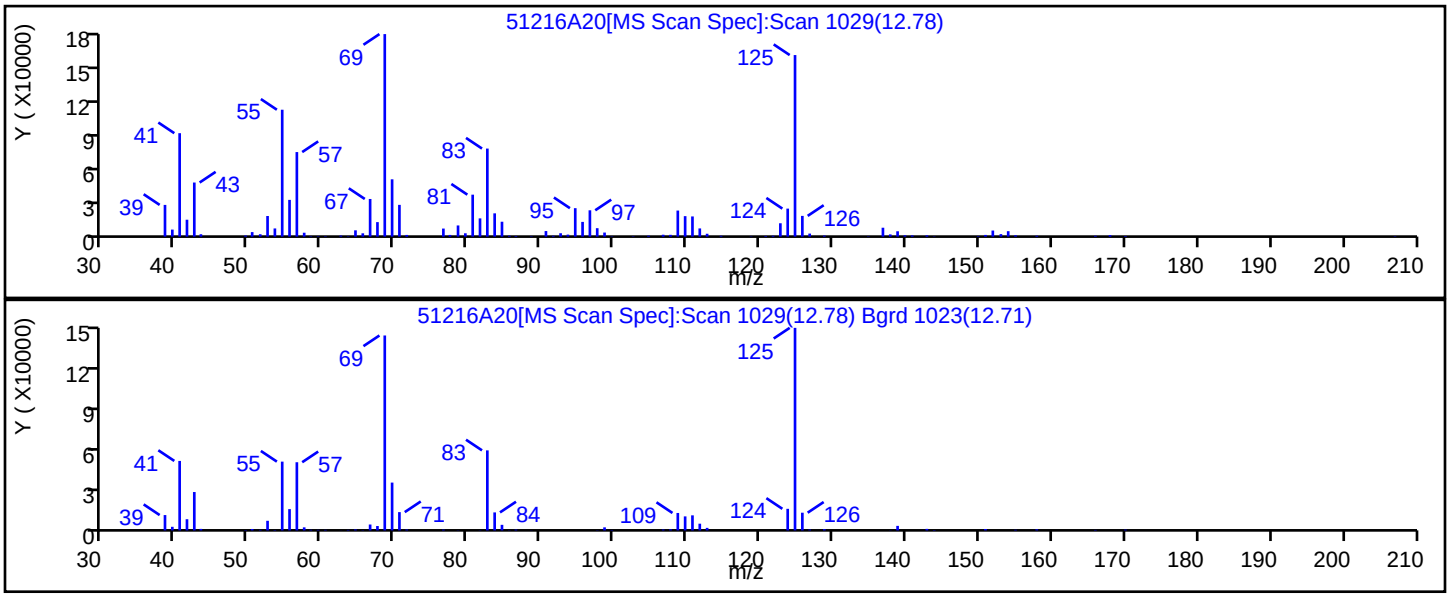
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.766

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



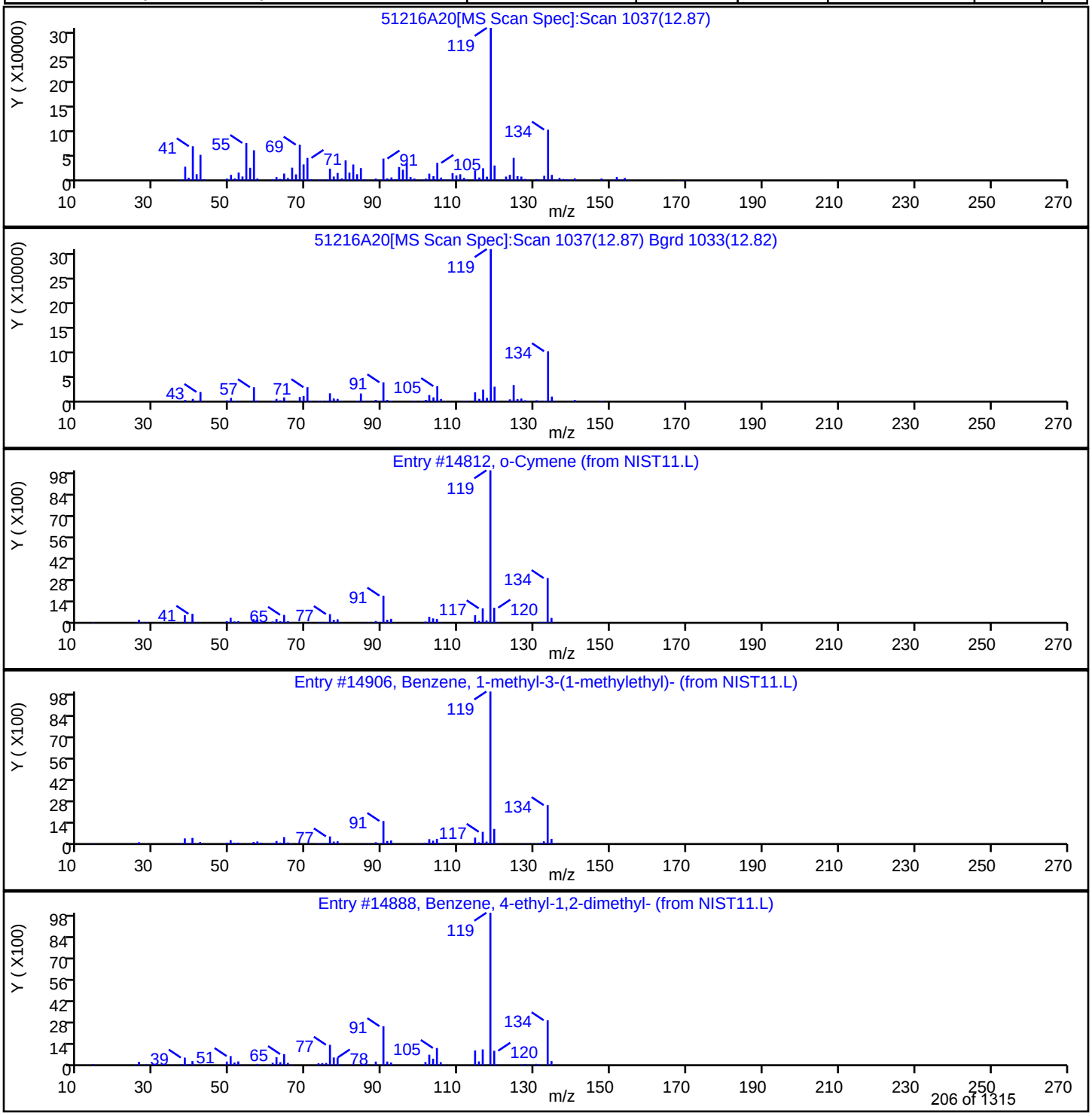
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.860

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
o-Cymene	527-84-4	NIST11	14812	C10H14	134	95
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST11	14906	C10H14	134	95
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST11	14888	C10H14	134	95



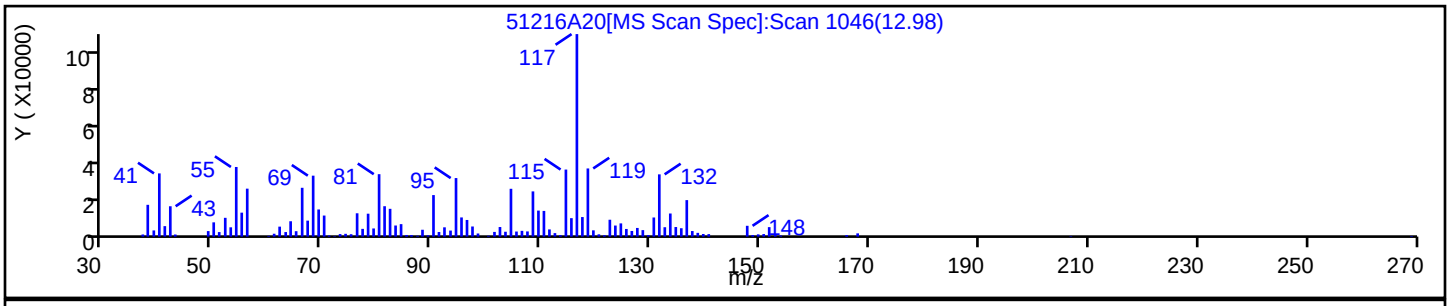
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

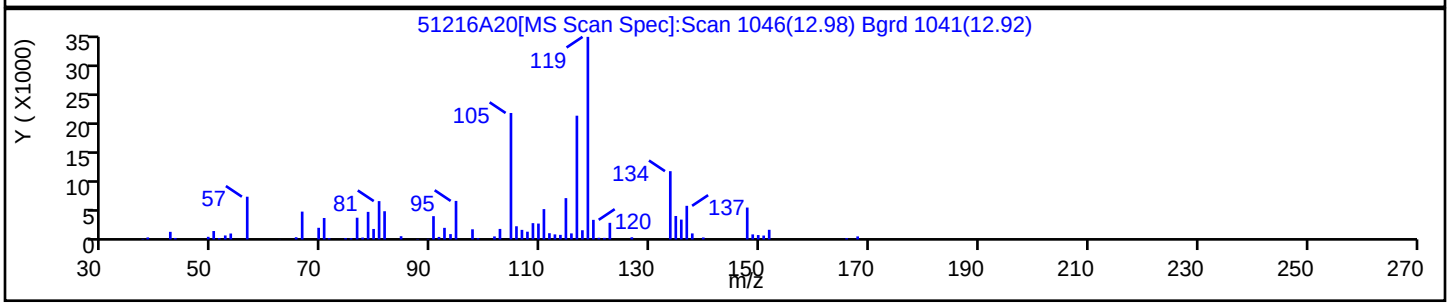
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.967

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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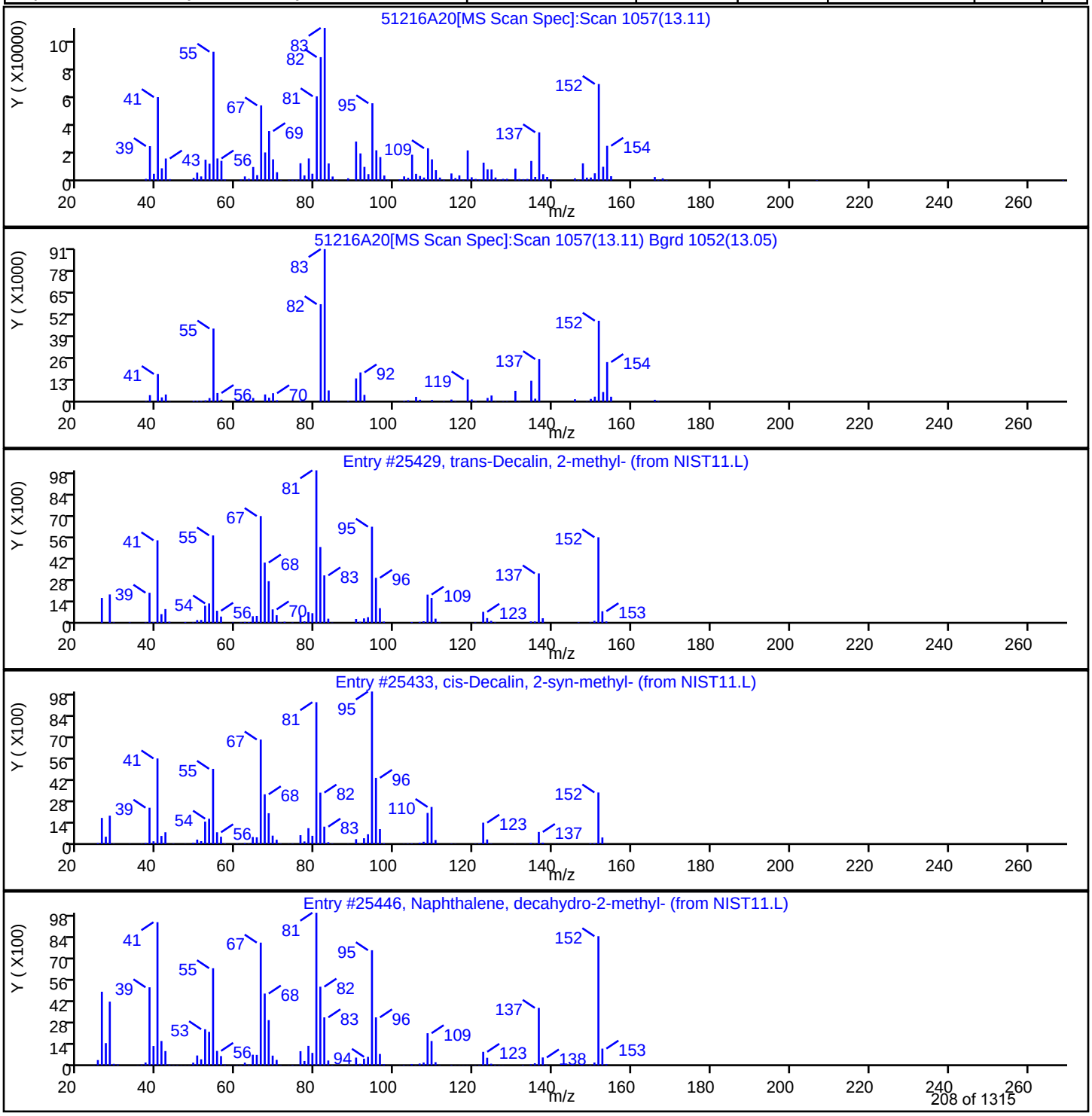
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.098

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
trans-Decalin, 2-methyl-	1000152-47-3	NIST11	25429	C11H20	152	95
cis-Decalin, 2-syn-methyl-	1000155-85-6	NIST11	25433	C11H20	152	91
Naphthalene, decahydro-2-methyl-	2958-76-1	NIST11	25446	C11H20	152	89



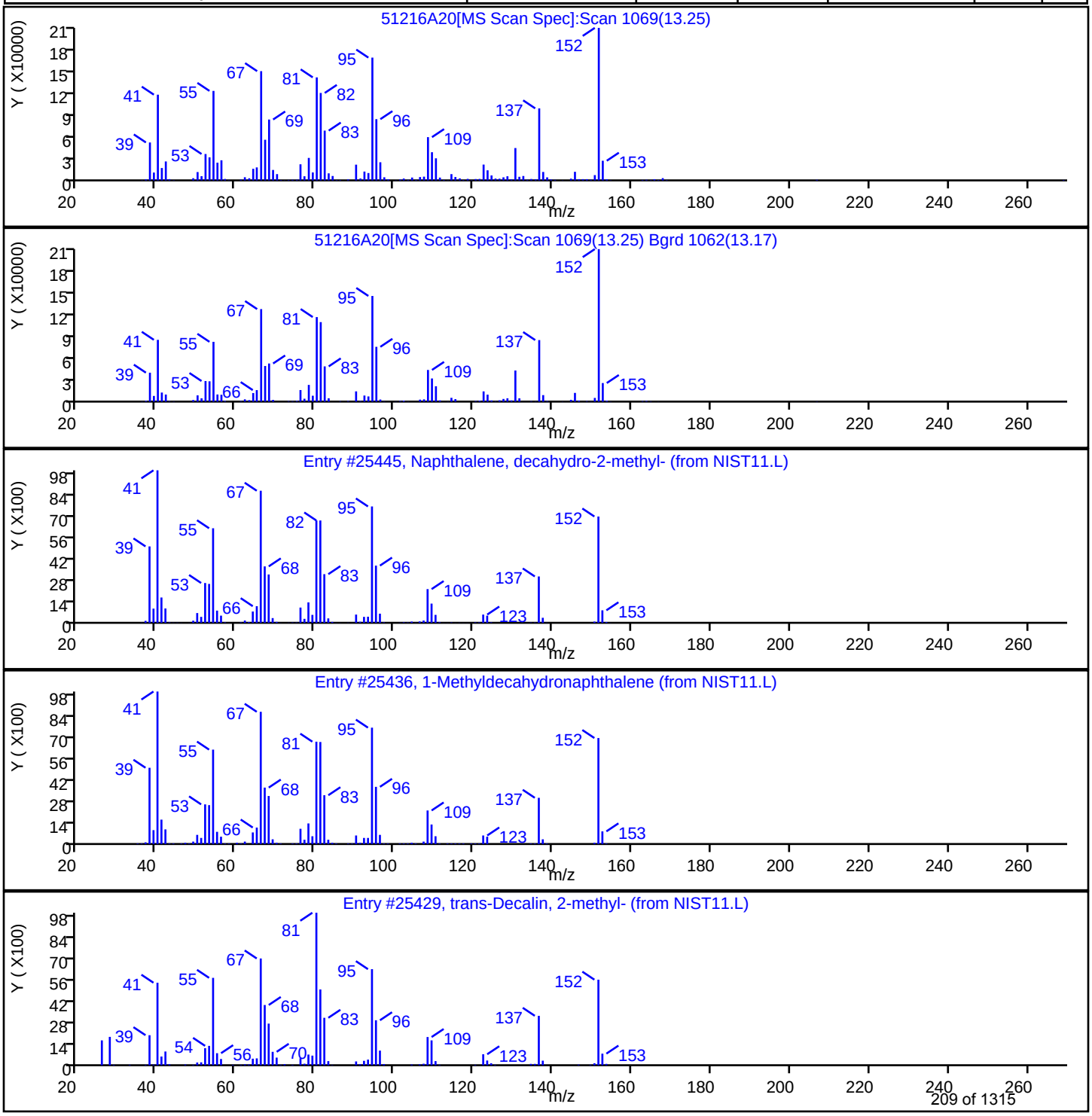
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.240

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, decahydro-2-methyl-	2958-76-1	NIST11	25445	C11H20	152	97
1-Methyldecahydronaphthalene	2958-75-0	NIST11	25436	C11H20	152	97
trans-Decalin, 2-methyl-	1000152-47-3	NIST11	25429	C11H20	152	91



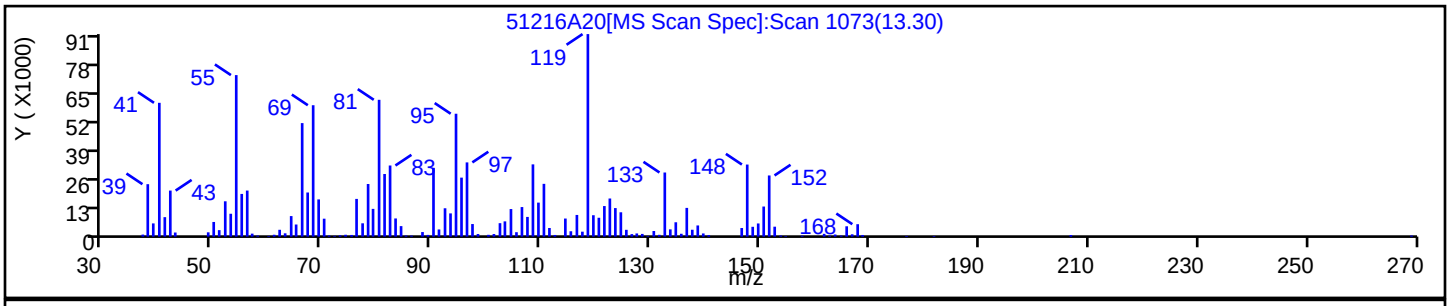
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

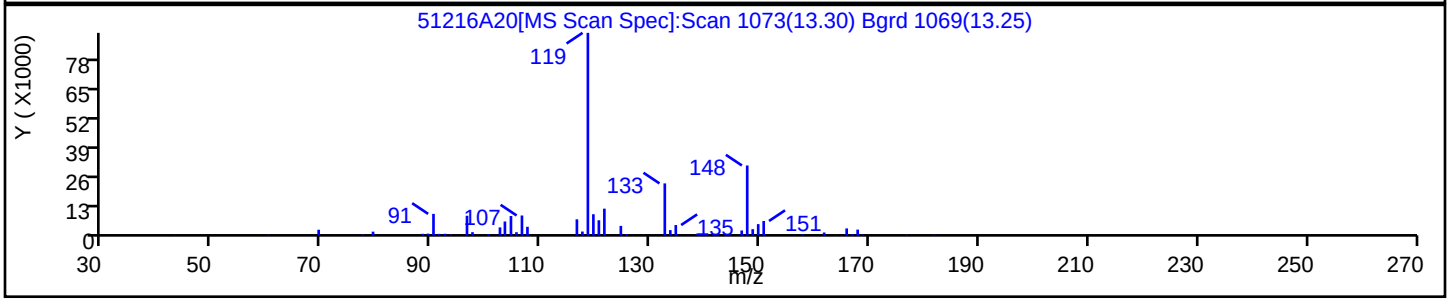
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.287

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





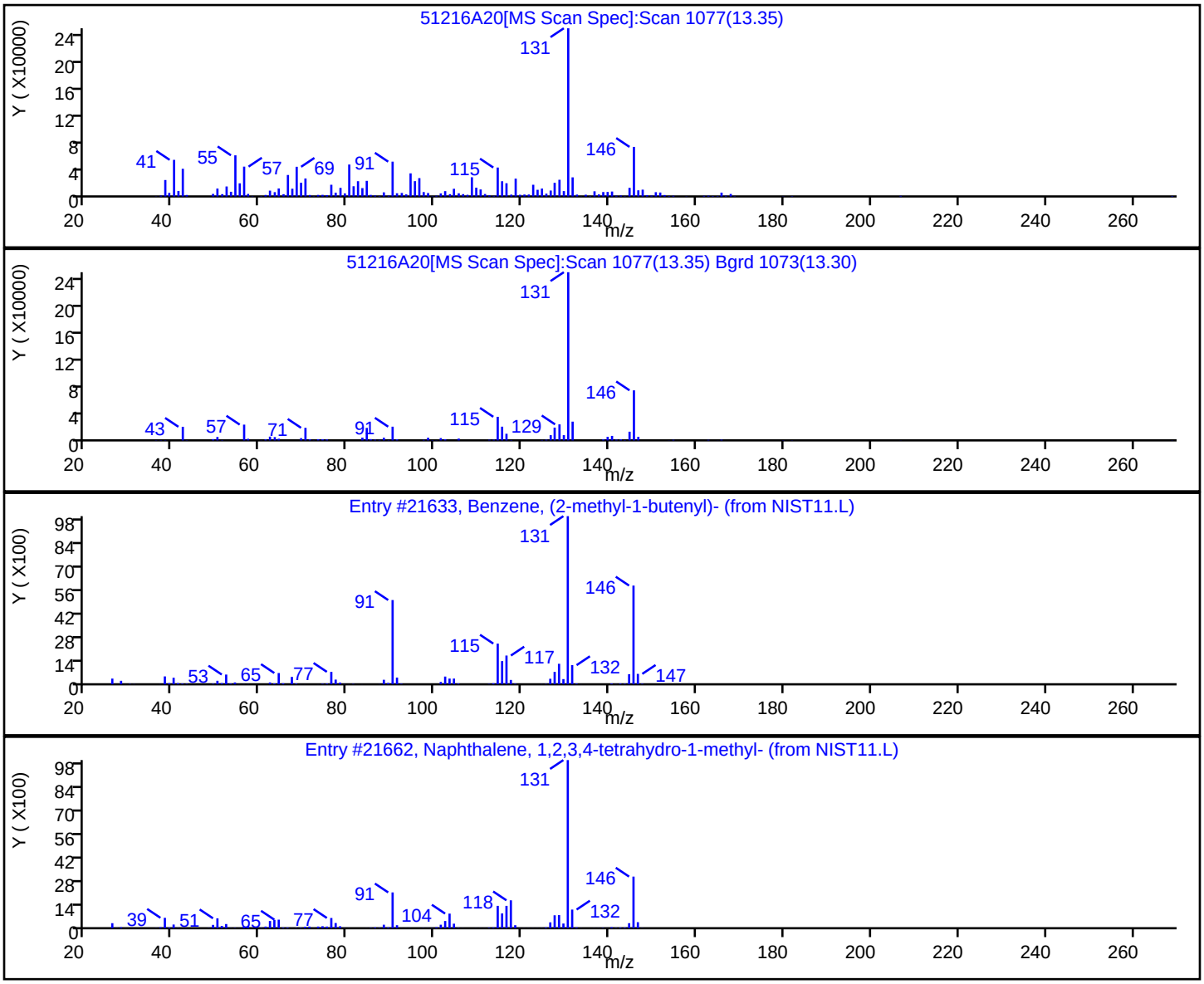
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.335

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, (2-methyl-1-butenyl)-	56253-64-6	NIST11	21633	C11H14	146	96
Naphthalene, 1,2,3,4-tetrahydro-1-methyl	1559-81-5	NIST11	21662	C11H14	146	86



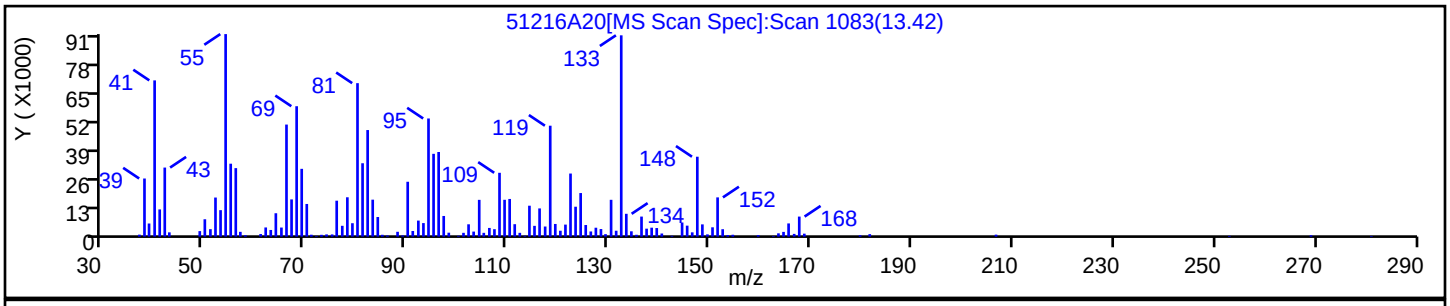
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

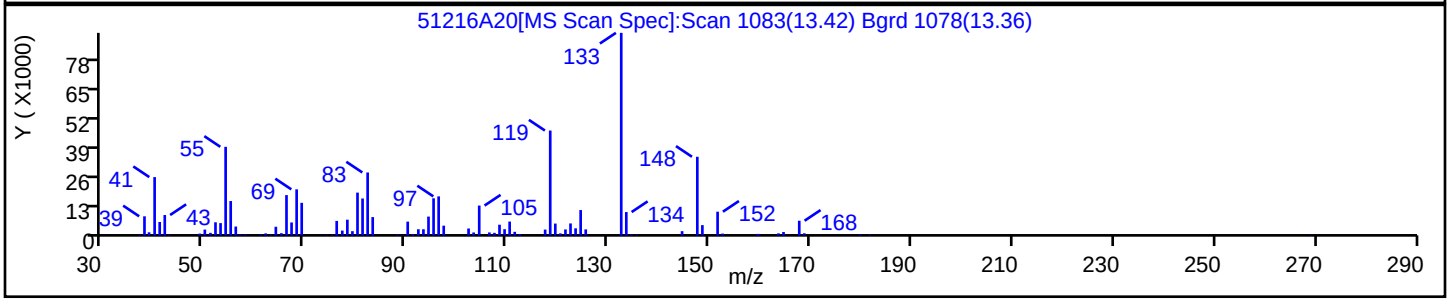
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.406

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





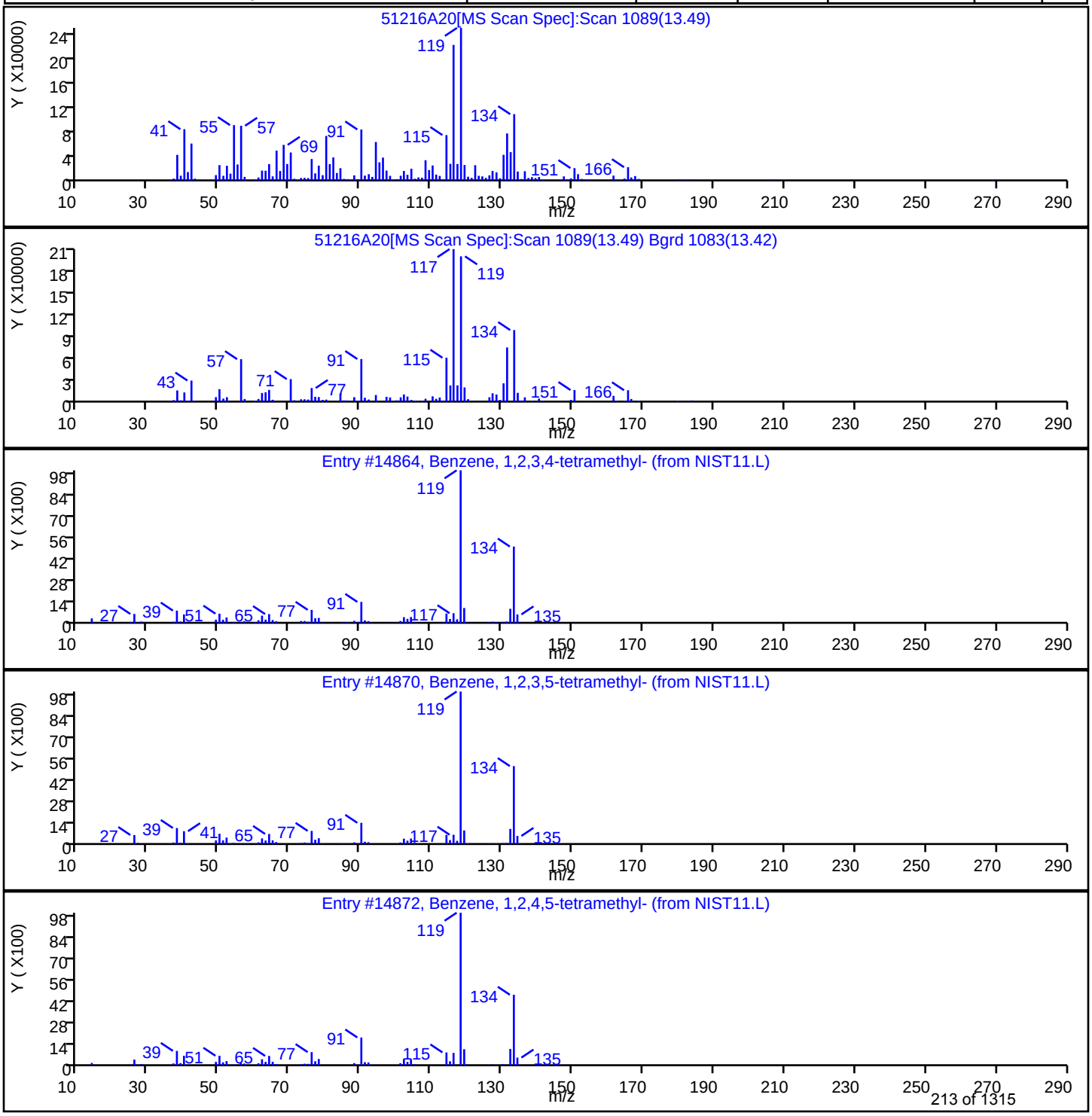
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.477

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST11	14864	C10H14	134	94
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NIST11	14870	C10H14	134	93
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14872	C10H14	134	93



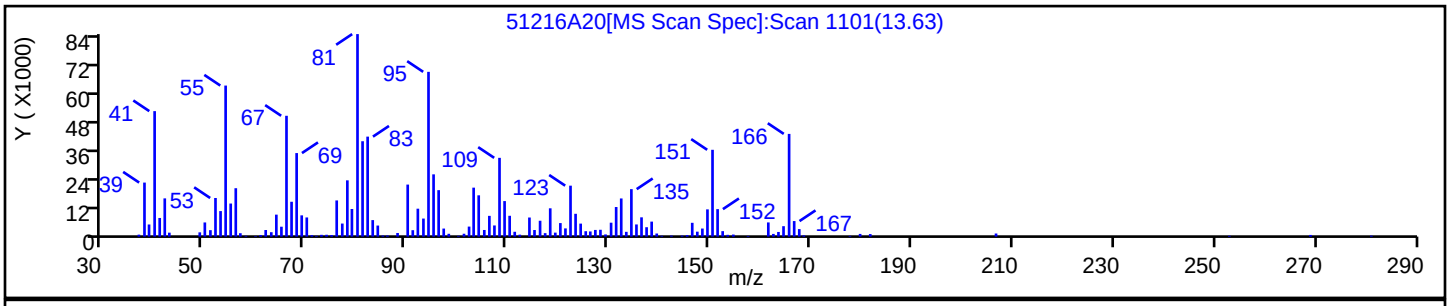
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

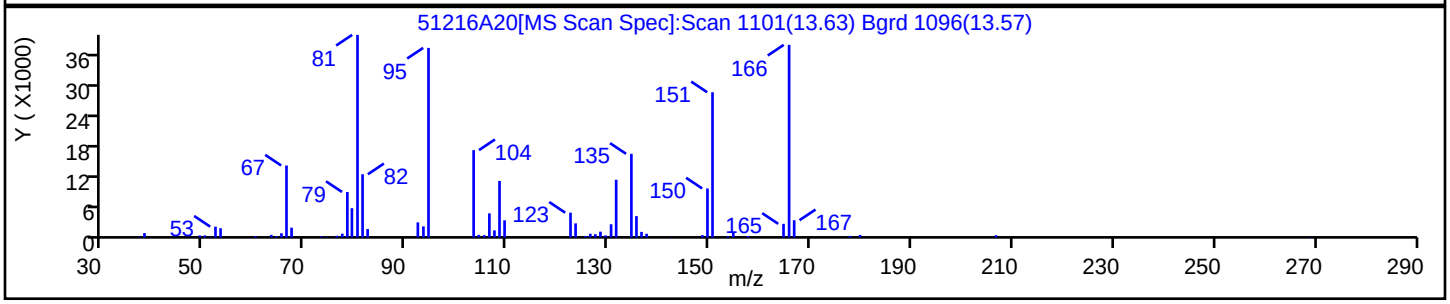
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.619

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





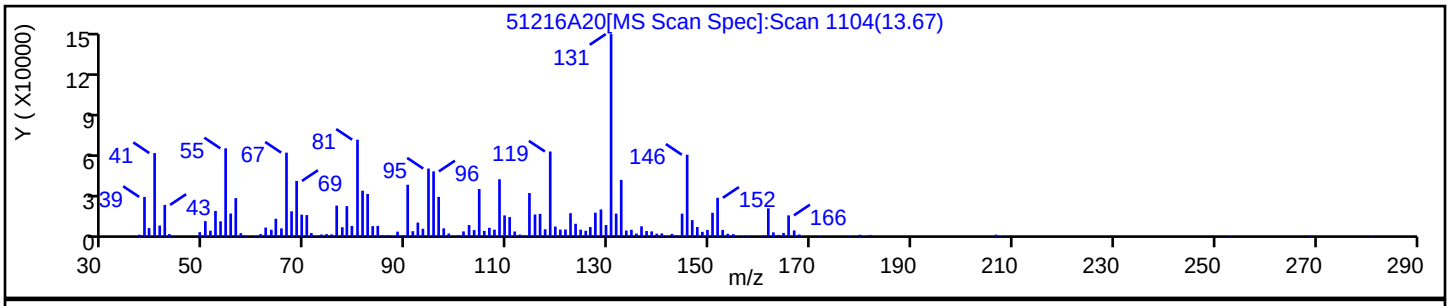
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

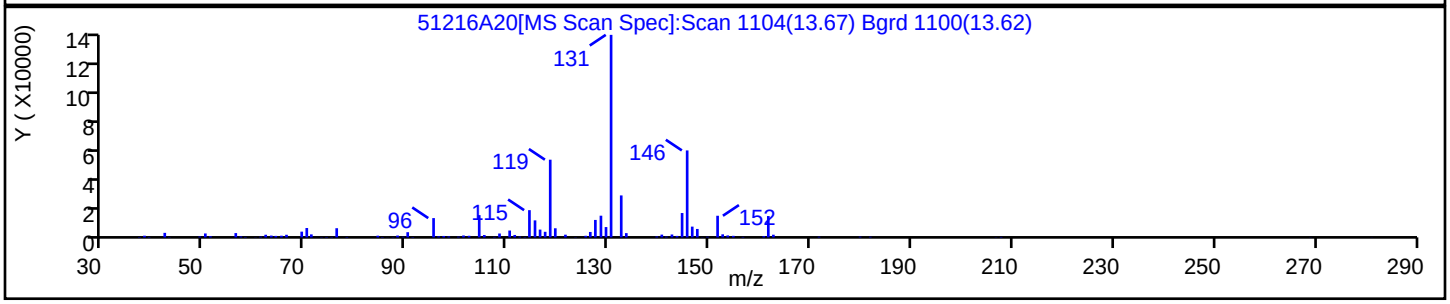
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.655

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





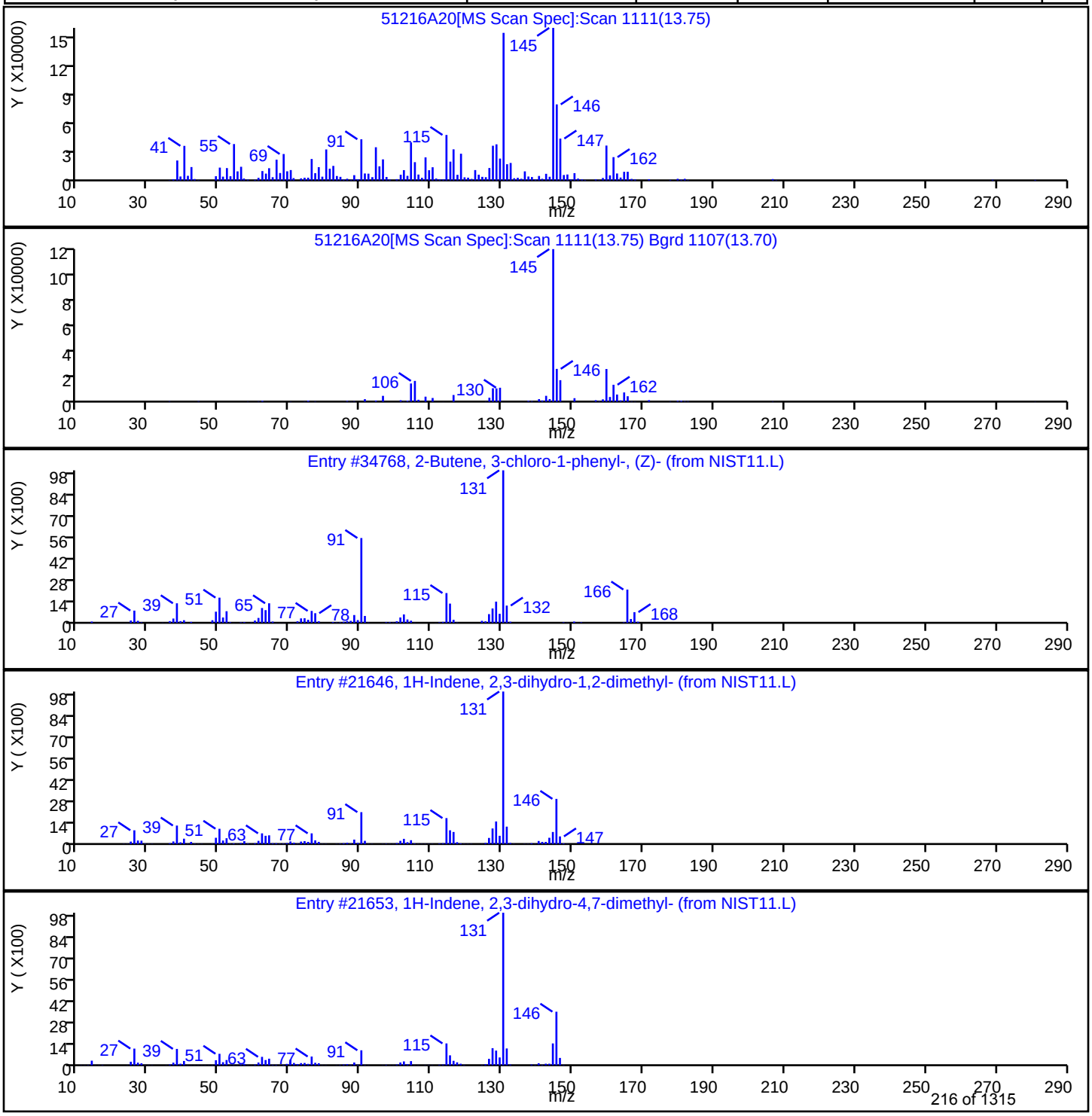
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.738

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
2-Butene, 3-chloro-1-phenyl-, (Z)-	16608-68-7	NIST11	34768	C10H11Cl	166	92
1H-Indene, 2,3-dihydro-1,2-dimethyl-	17057-82-8	NIST11	21646	C11H14	146	91
1H-Indene, 2,3-dihydro-4,7-dimethyl-	6682-71-9	NIST11	21653	C11H14	146	90



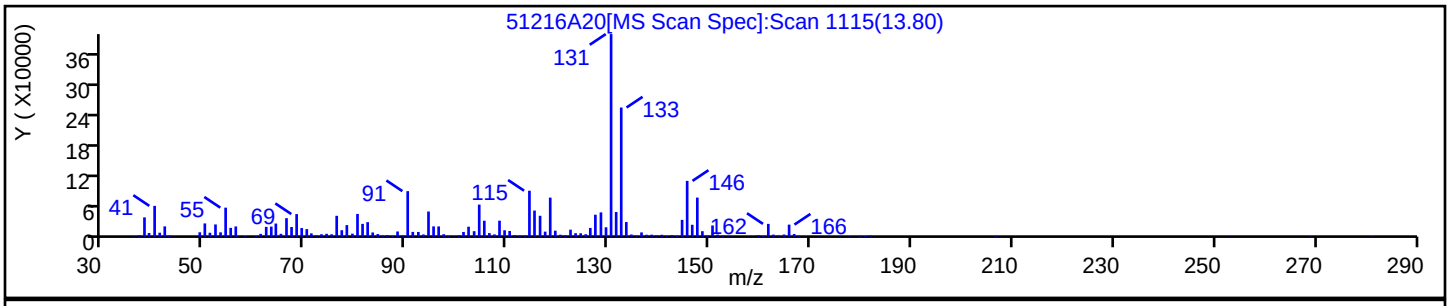
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

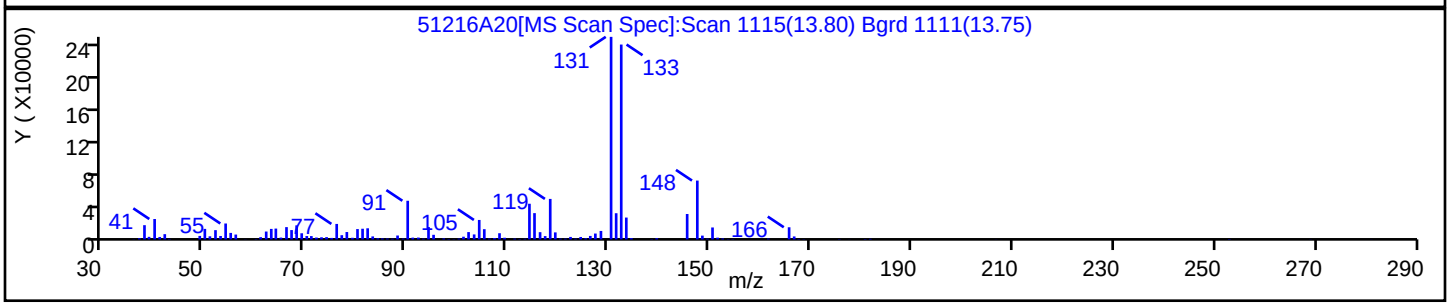
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.785

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





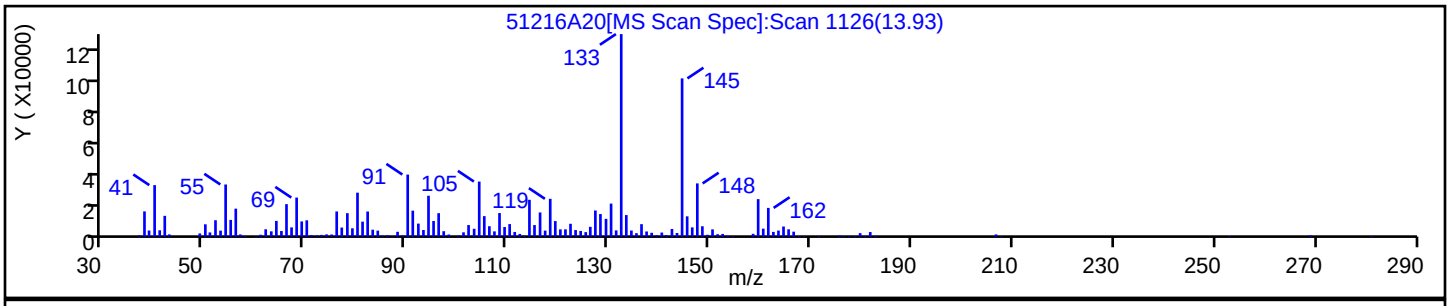
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

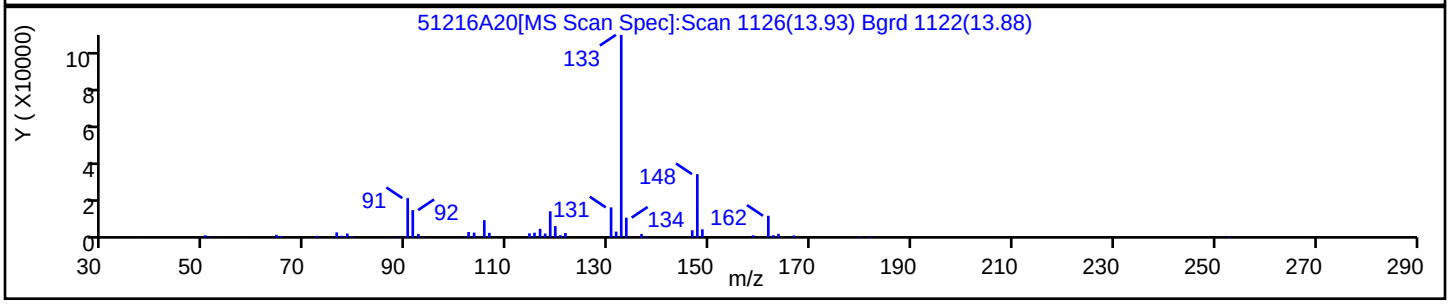
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.916

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





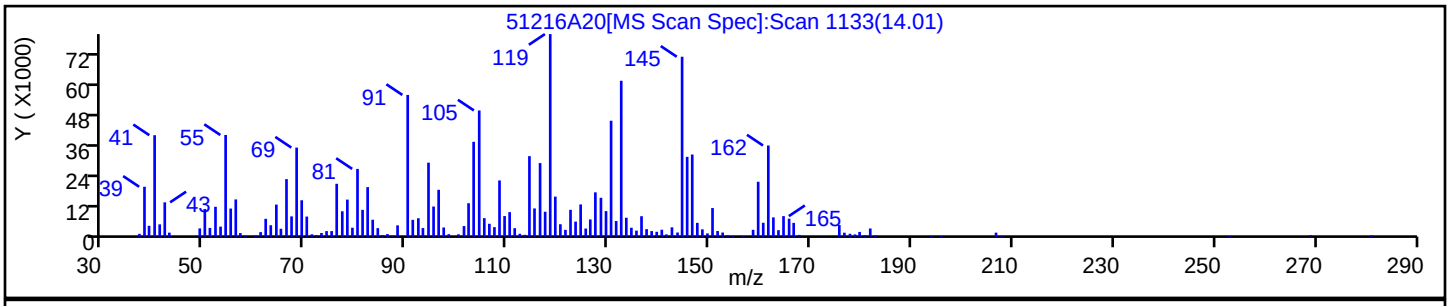
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

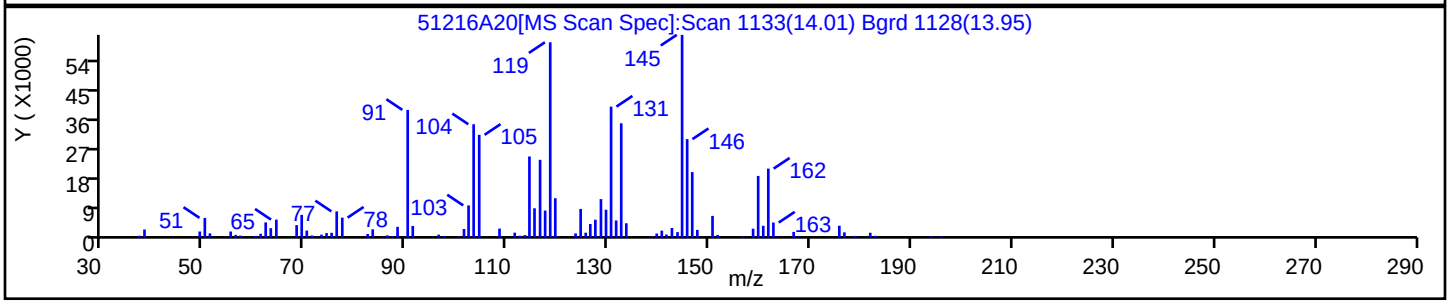
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.999

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





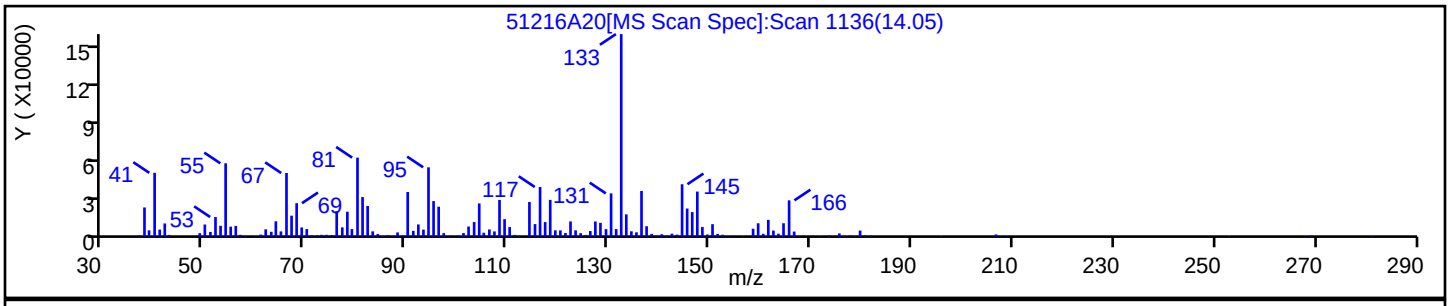
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

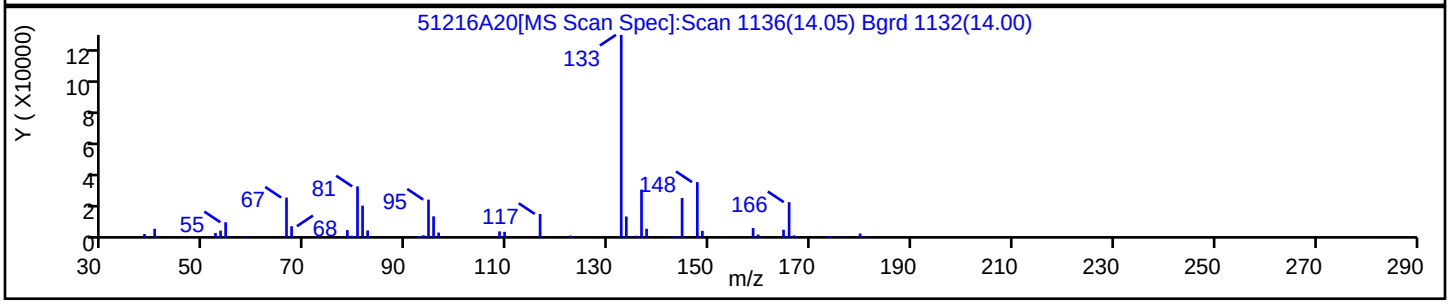
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.034

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





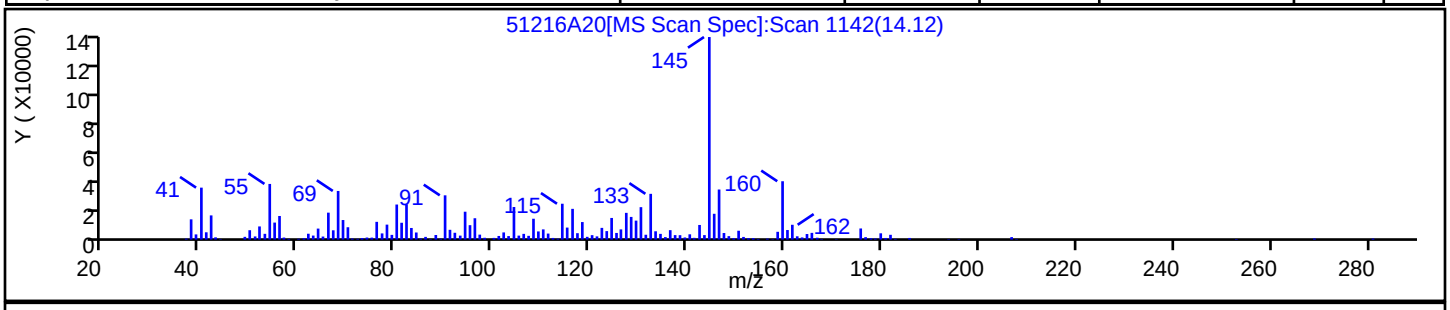
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

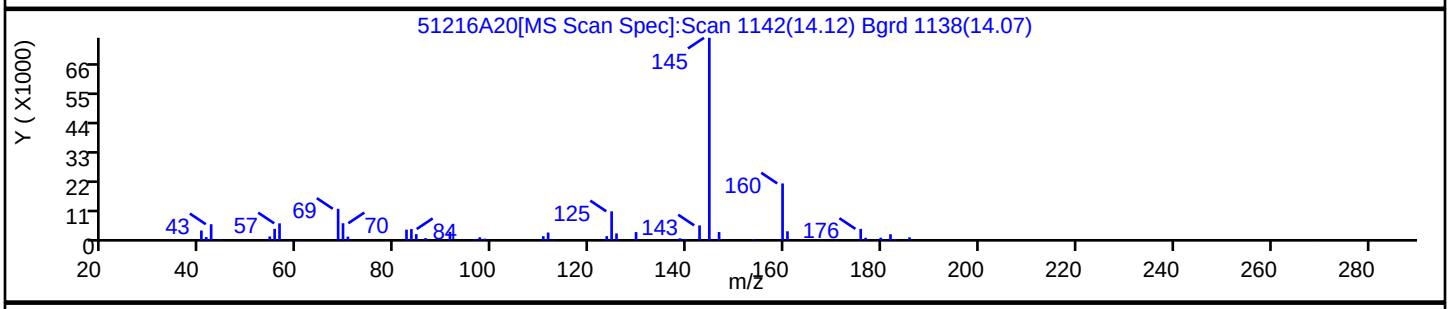
Shealy Environmental Services

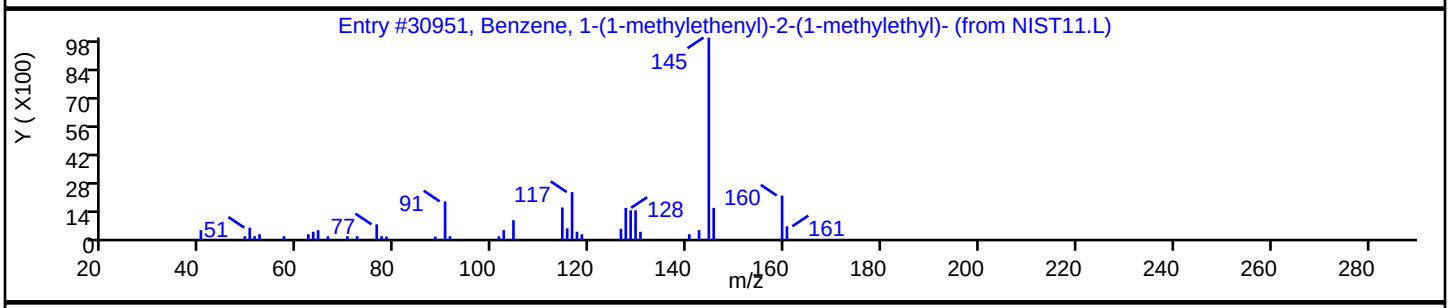
Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

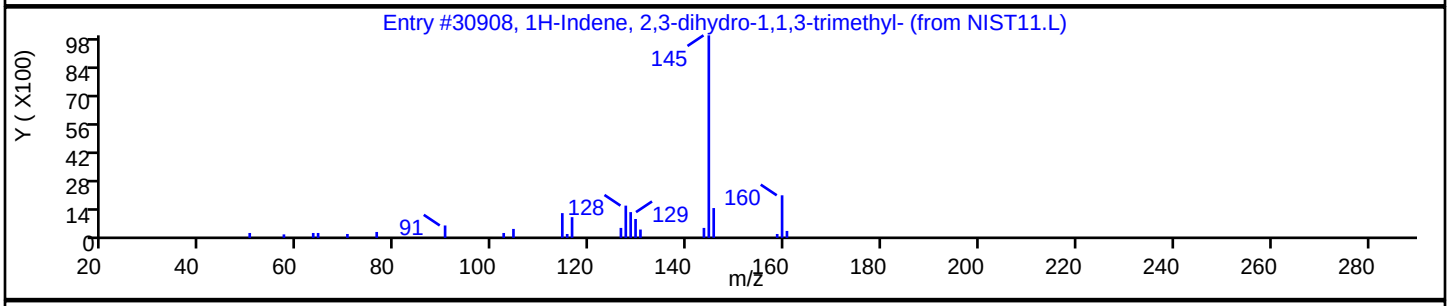
TIC @ 14.106

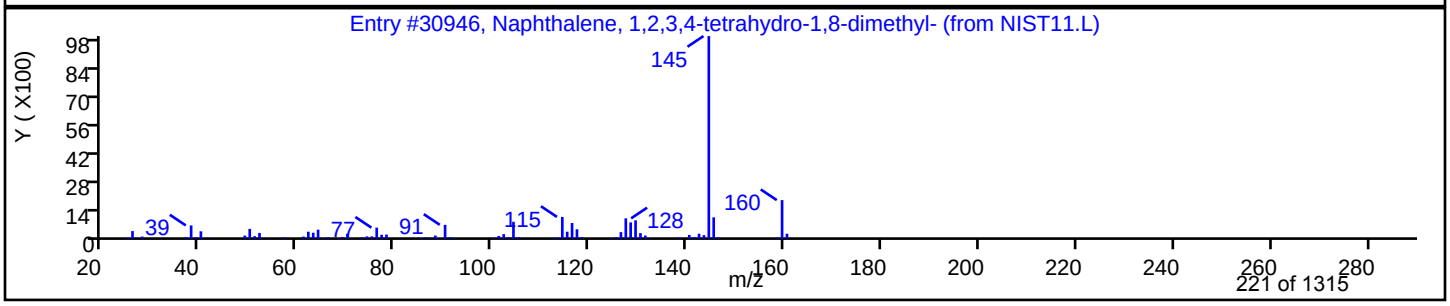
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-(1-methylethenyl)-2-(1-methyl	5557-93-7	NIST11	30951	C12H16	160	93
1H-Indene, 2,3-dihydro-1,1,3-trimethyl-	2613-76-5	NIST11	30908	C12H16	160	91
Naphthalene, 1,2,3,4-tetrahydro-1,8-dime	25419-33-4	NIST11	30946	C12H16	160	87











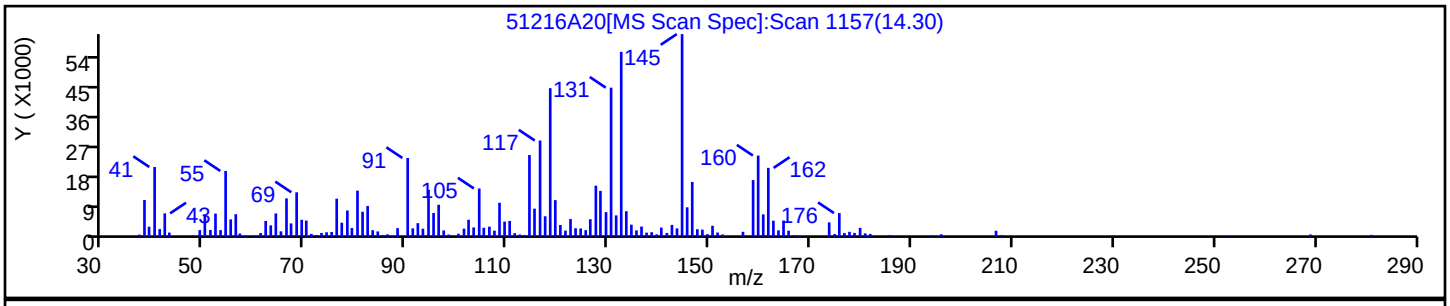
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

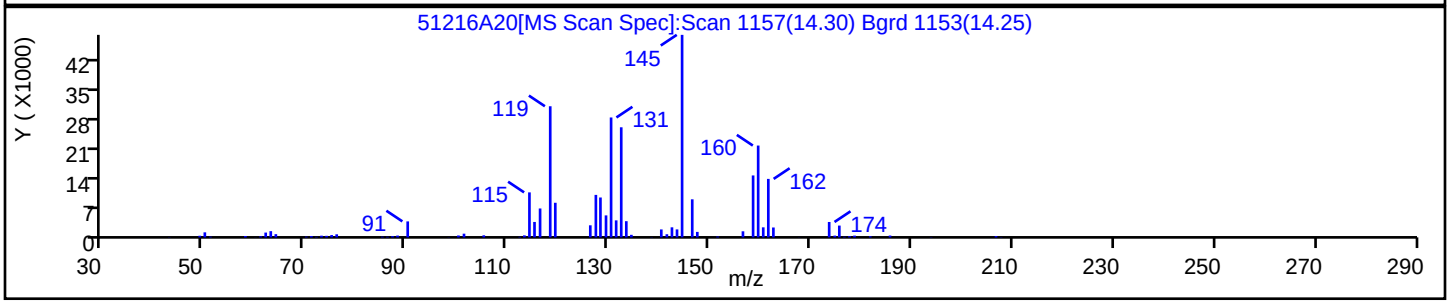
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.283

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





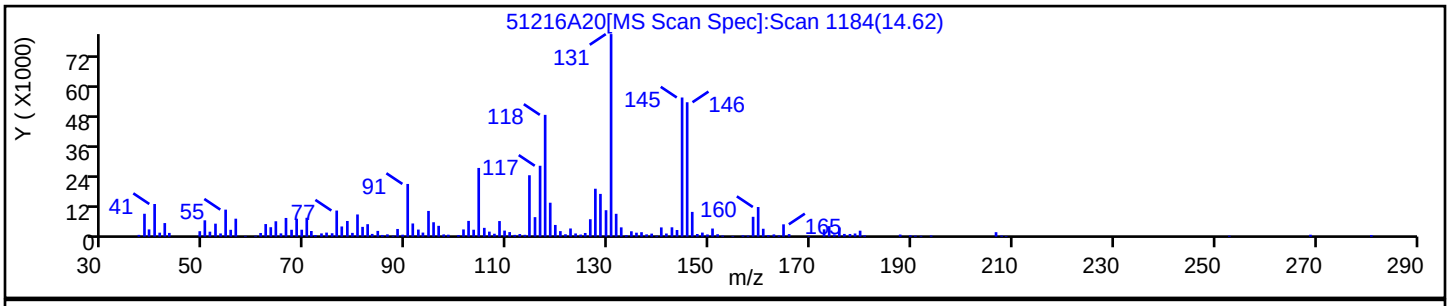
Report Date: 20-Dec-2015 12:53:25 AIM Revision: 1.0 26-May-2015 13:41:26

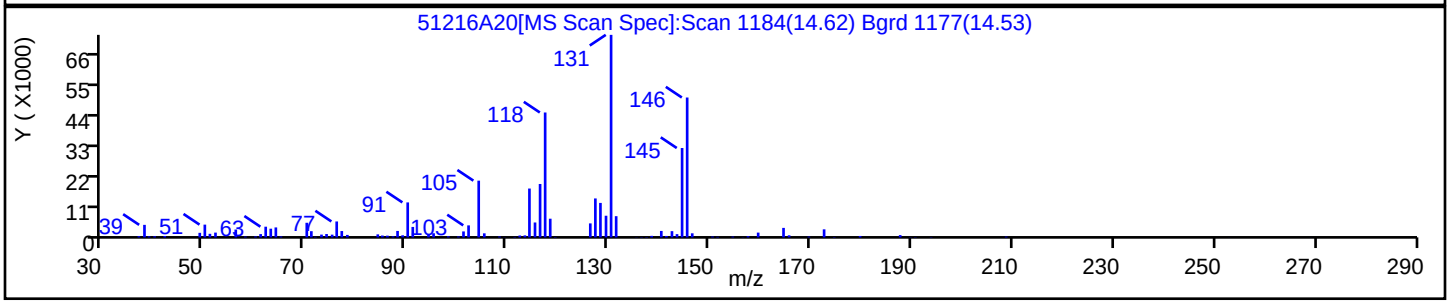
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A20.D		
Injection Date:	16-Dec-2015 16:41:30	Inst. ID:	msd5.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	5121615.b, QL12004-007		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.604

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R27

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-008
Sample wt/vol: 5.46 (g/mL) g
Lab File ID: 51216A22
% Solids: 85.6
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	310	U
74-87-3	Chloromethane	310	U
75-01-4	Vinyl chloride	310	U
74-83-9	Bromomethane	310	U
75-00-3	Chloroethane	310	U
75-69-4	Trichlorofluoromethane	310	U
75-35-4	1,1-Dichloroethene	310	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	310	U
67-64-1	Acetone	620	U
75-15-0	Carbon disulfide	310	U
79-20-9	Methyl acetate	310	U
75-09-2	Methylene chloride	310	U
156-60-5	trans-1,2-Dichloroethene	310	U
1634-04-4	Methyl tert-butyl ether	310	U
75-34-3	1,1-Dichloroethane	310	U
156-59-2	cis-1,2-Dichloroethene	310	U
78-93-3	2-Butanone	620	U
74-97-5	Bromochloromethane	310	U
67-66-3	Chloroform	310	U
71-55-6	1,1,1-Trichloroethane	310	U
110-82-7	Cyclohexane	310	U
56-23-5	Carbon tetrachloride	310	U
71-43-2	Benzene	310	U
107-06-2	1,2-Dichloroethane	310	U
79-01-6	Trichloroethene	310	U
108-87-2	Methylcyclohexane	310	U
78-87-5	1,2-Dichloropropane	310	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R27

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-008
Sample wt/vol: 5.46 (g/mL) g
Lab File ID: 51216A22
% Solids: 85.6
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	310	U
10061-01-5	cis-1,3-Dichloropropene	310	U
108-10-1	4-Methyl-2-pentanone	620	U
108-88-3	Toluene	310	U
10061-02-6	trans-1,3-Dichloropropene	310	U
79-00-5	1,1,2-Trichloroethane	310	U
127-18-4	Tetrachloroethene	310	U
591-78-6	2-Hexanone	620	U
124-48-1	Dibromochloromethane	310	U
106-93-4	1,2-Dibromoethane	310	U
108-90-7	Chlorobenzene	310	U
100-41-4	Ethylbenzene	310	U
179601-23-1	m, p-Xylene	310	U
95-47-6	o-Xylene	310	U
100-42-5	Styrene	310	U
75-25-2	Bromoform	310	U
98-82-8	Isopropylbenzene	310	U
79-34-5	1,1,2,2-Tetrachloroethane	310	U
541-73-1	1,3-Dichlorobenzene	310	U
106-46-7	1,4-Dichlorobenzene	310	U
95-50-1	1,2-Dichlorobenzene	310	U
96-12-8	1,2-Dibromo-3-chloropropane	310	U
120-82-1	1,2,4-Trichlorobenzene	310	U
87-61-6	1,2,3-Trichlorobenzene	310	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R27

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-008
Sample wt/vol: 5.46 (g/mL) g
Lab File ID: 51216A22
% Solids: 85.6
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/16/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.87	1600	J
02		Unknown-02	10.99	1400	J
03		Unknown-03	11.20	1700	J
04		Unknown-04	11.31	710	J
05		Unknown-05	11.72	2100	J
06		Unknown-06	11.82	740	J
07		Unknown-07	11.90	850	J
08		Unknown-08	12.04	740	J
09		Unknown-09	12.09	1400	J
10		Unknown-10	12.15	730	J
11		Unknown-11	12.24	2900	J
12		Unknown-12	12.33	590	J
13		Unknown-13	12.77	3000	J
14		Unknown-14	12.84	1000	J
15		Unknown-15	13.00	1000	J
16		Unknown-16	13.15	1800	J
17		Unknown-17	13.30	1100	J
18		Unknown-18	13.35	800	J
19		Unknown-19	13.41	1800	J
20		Unknown-20	13.50	2100	J
21	1618-22-0	Naphthalene, decahydro-2,6-	13.61	1300	NJ
22	1000111-72-1	trans,trans-1,6-	13.68	830	NJ
23		Unknown-21	13.74	2600	J
24		Unknown-22	13.85	4200	J
25		Unknown-23	14.01	2700	J
26		Unknown-24	14.24	1800	J
27	32134-53-5	2-Norbornanone, 1,3,7,7-	14.40	1200	NJ
28		Unknown-25	14.51	670	J
29	475-03-6	Naphthalene, 1,2,3,4-	14.84	600	NJ
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Lab Sample ID:	QL12004-008	Client Sample ID:	F6R27
Injection Date:	16-Dec-2015 17:26:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, QL12004-008		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	22
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.4600	Weight of sample extracted (g)
M	14.400	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 12:46:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.105		ND			
2 Chloromethane	50.0		2.330		ND			
$ 3 Vinyl Chloride-d3	65.0	2.472	2.460	0.012	107852	57.623	3566.95	R
4 Vinyl Chloride	62.0		2.472		ND			
5 Bromomethane	94.0		2.852		ND			
$ 6 Chloroethane-d5	69.0	2.947	2.935	0.012	53736	63.140	3908.45	R
7 Chloroethane	64.0		2.970		ND			
8 Trichlorofluoromethane	101.0		3.267		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.884	3.883	0.001	111534	42.831	2651.29	R
10 1,1-Dichloroethene	96.0		3.907		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.931		ND			
12 Acetone	43.0		3.943		ND			
13 Carbon Disulfide	76.0		4.180		ND			
14 Methyl Acetate	43.0		4.322		ND			
15 Methylene Chloride	84.0		4.453		ND			
16 Methyl tert-Butyl Ether	73.0		4.773		ND			
17 trans-1,2-Dichloroethene	96.0		4.785		ND			
18 1,1-Dichloroethane	63.0		5.271		ND			
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	38786	103.63	6414.67	QR
20 2-Butanone	43.0		5.935		ND			
21 cis-1,2-Dichloroethene	96.0		5.935		ND			
22 Bromochloromethane	128.0		6.220		ND			
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	117957	44.787	2772.35	QR
24 Chloroform	83.0		6.303		ND			
25 1,1,1-Trichloroethane	97.0		6.552		ND			

Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A22.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0		6.635		ND			
27 Carbon Tetrachloride	117.0		6.753		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	74245	46.757	2894.31	R
$ 29 Benzene-d6	84.0	6.955	6.943	0.012	250522	41.385	2561.81	R
30 Benzene	78.0		6.990		ND			
31 1,2-Dichloroethane	62.0		6.990		ND			
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	237411	50.000	3095.07	
33 Trichloroethene	95.0		7.761		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	65031	42.194	2611.89	R
35 Methylcyclohexane	83.0		8.022		ND			
36 1,2-Dichloropropane	63.0		8.034		ND			
39 Bromodichloromethane	83.0		8.354		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	102062	47.630	2948.33	R
41 cis-1,3-Dichloropropene	75.0		8.852		ND			
42 4-Methyl-2-pentanone	43.0		8.994		ND			
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	250788	43.993	2723.24	QR
44 Toluene	91.0		9.208		ND			
45 trans-1,3-Dichloropropene	75.0		9.409		ND			
46 1,1,2-Trichloroethane	97.0		9.599		ND			
47 Tetrachloroethene	164.0		9.765		ND			
$ 48 2-Hexanone-d5	63.0	9.777	9.777	0.000	47107	85.972	5321.78	R
49 2-Hexanone	43.0		9.825		ND			
50 Dibromochloromethane	129.0		9.979		ND			
51 1,2-Dibromoethane	107.0		10.109		ND			
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	242896	50.000	3095.07	
53 Chlorobenzene	112.0		10.536		ND			
54 Ethylbenzene	91.0		10.619		ND			
55 m+p-Xylenes	106.0		10.726		ND			
56 o-Xylene	106.0		11.058		ND			
57 Styrene	104.0		11.070		ND			
58 Bromoform	173.0		11.236		ND			
59 Isopropylbenzene	105.0		11.354		ND			
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	76861	54.565	3377.63	R
61 1,1,2,2-Tetrachloroethane	83.0		11.580		ND			
62 1,3-Dichlorobenzene	146.0		12.327		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	129629	50.000	3095.07	
64 1,4-Dichlorobenzene	146.0		12.386		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	109505	50.057	3098.63	QR
66 1,2-Dichlorobenzene	146.0		12.659		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.192		ND			
68 1,2,4-Trichlorobenzene	180.0		13.762		ND			
69 1,2,3-Trichlorobenzene	180.0		14.117		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Lab Sample ID:	QL12004-008	Client Sample ID:	F6R27
Injection Date:	16-Dec-2015 17:26:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, QL12004-008		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	22
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.4600	Weight of sample extracted (g)
M	14.400	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 12:46:30

Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
10.868	416693	26.307	1628.44	52				
	Unknown							
10.987	360227	22.742	1407.77	52				
	Unknown							
11.200	434690	27.443	1698.77	52				
	Unknown							
11.307	180520	11.397	705.48	52				
	Unknown							
11.722	501241	33.341	2063.84	63				
	Unknown							
11.817	180371	11.998	742.67	63				
	Unknown							
11.900	206720	13.750	851.16	63				
	Unknown							
12.042	179608	11.947	739.53	63				
	Unknown							
12.090	335816	22.337	1382.71	63				
	Unknown							
12.149	176563	11.744	726.99	63				
	Unknown							
12.244	692618	46.071	2851.83	63				
	Unknown							
12.327	144138	9.5876	593.48	63				

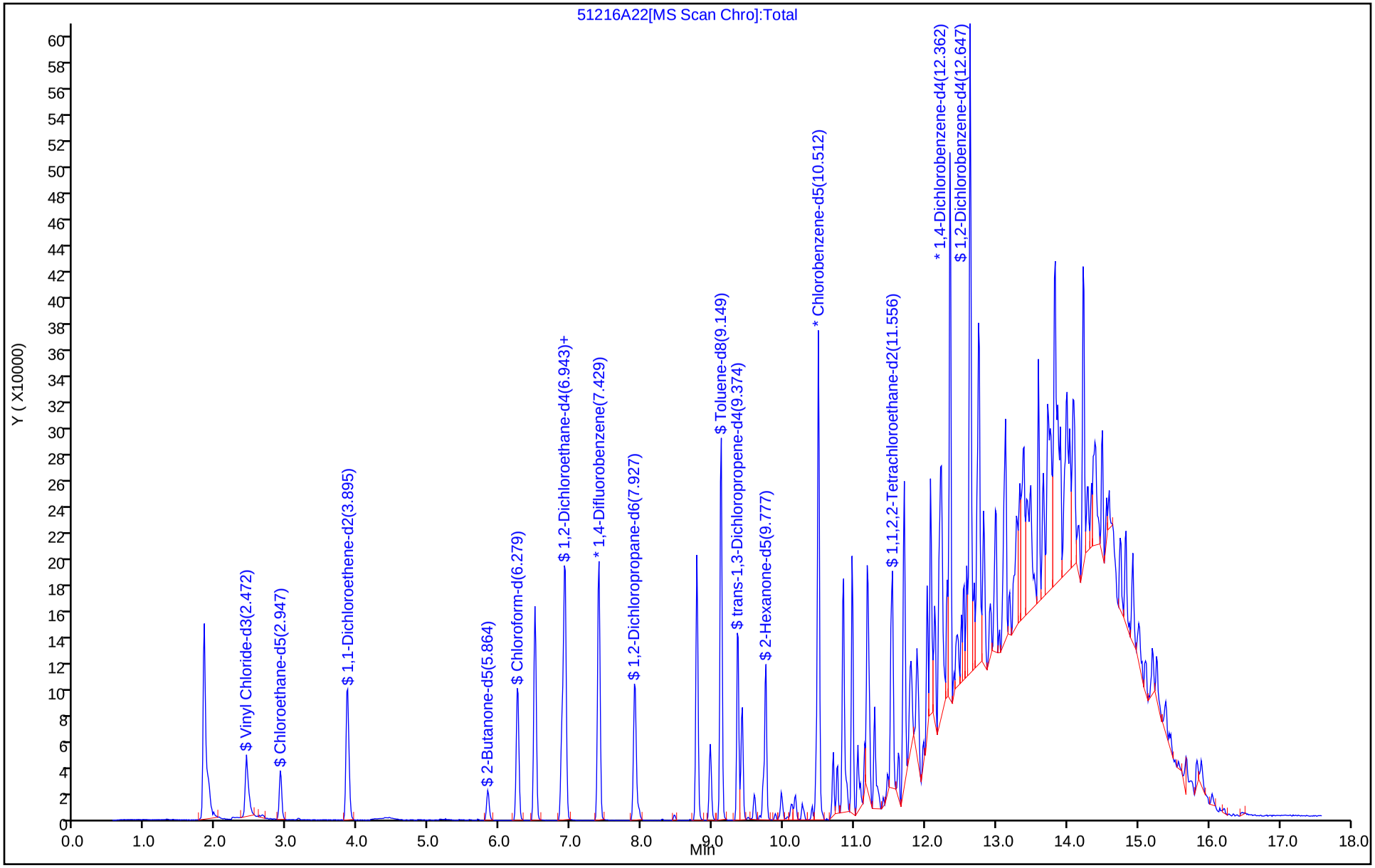
RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
12.766	724486	48.190	2983.04	63				
	Unknown							
12.837	253040	16.831	1041.88	63				
	Unknown							
13.003	254034	16.897	1045.98	63				
	Unknown							
13.145	443988	29.533	1828.10	63				
	Unknown							
13.299	270452	17.990	1113.58	63				
	Unknown							
13.347	193659	12.882	797.39	63				
	Unknown							
13.406	436625	29.043	1797.79	63				
	Unknown							
13.501	500220	33.273	2059.64	63				
1618-22-0	Naphthalene, decahydro-2,6-dimethyl-							
13.608	305544	20.324	1258.07	63	93	35195	C12H22	166
1000111-72-1	trans,trans-1,6-Dimethylspiro[4.5]decane							
13.679	201014	13.371	827.67	63	86	35215	C12H22	166
	Unknown							
13.738	632677	42.083	2605.02	63				
	Unknown							
13.845	1022573	68.018	4210.40	63				
	Unknown							
14.011	649243	43.185	2673.23	63				
	Unknown							
14.236	440674	29.312	1814.46	63				
32134-53-5	2-Norbornanone, 1,3,7,7-tetramethyl-, ox							
14.402	289364	19.248	1191.45	63	90	46409	C11H19NO	181
	Unknown							
14.509	162530	10.811	669.21	63				
475-03-6	Naphthalene, 1,2,3,4-tetrahydro-1,1,6-tr							
14.841	145783	9.6970	600.26	63	96	41173	C13H18	174

Quant. Compounds	RT	Response	Amount ug/L
* 52 Chlorobenzene-d5	10.512	791982	50.000
* 63 1,4-Dichlorobenzene-d4	12.362	751693	50.000

Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D				
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	F6R27	Lab ID:	QL12004-008		
Sample Info:	5121615.b, QL12004-008				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



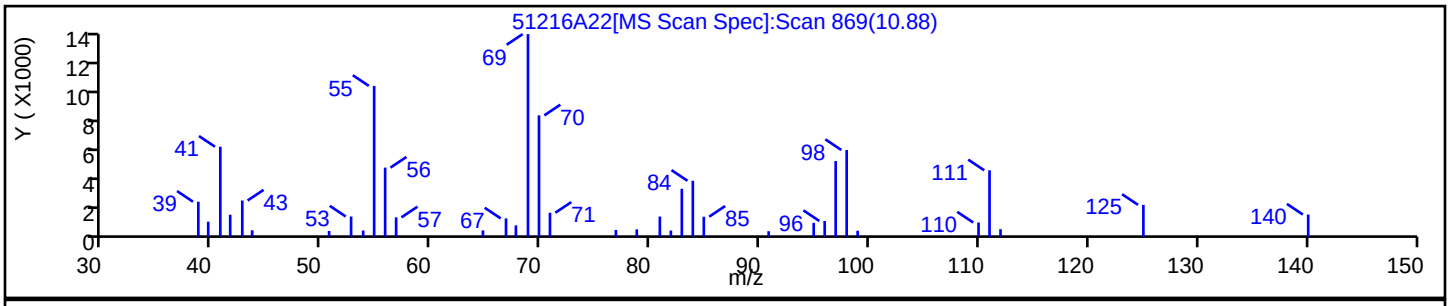
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

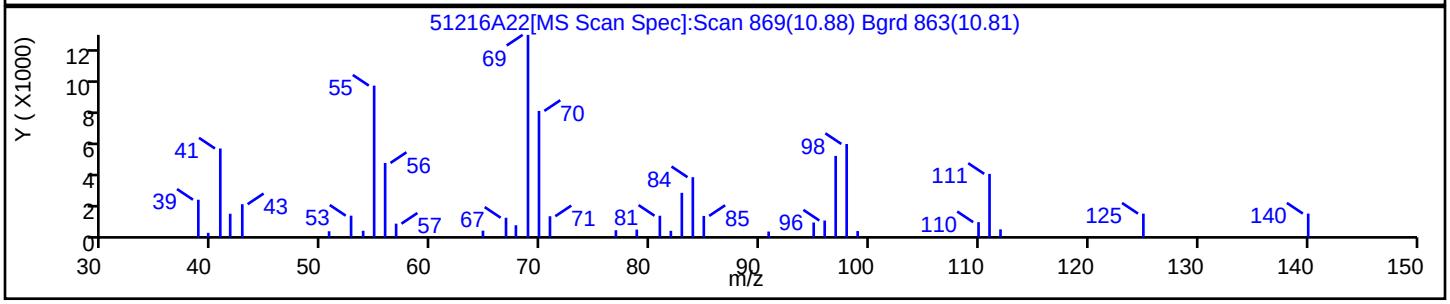
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.868

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





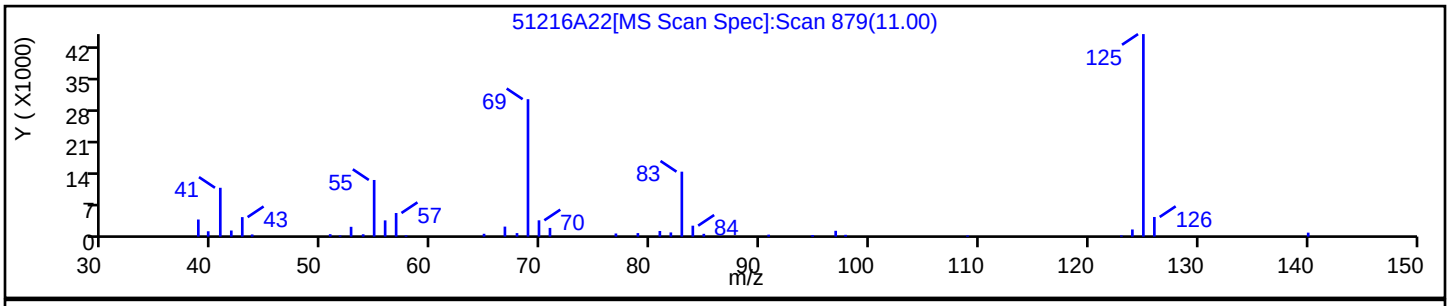
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

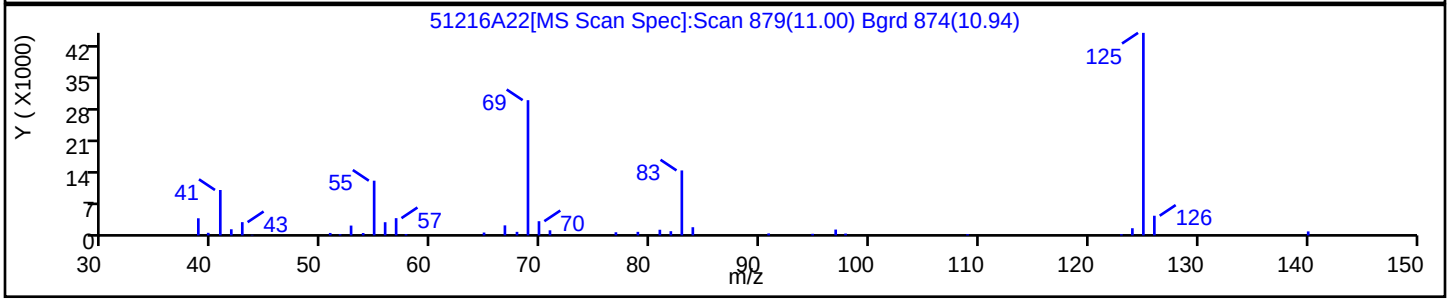
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.987

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





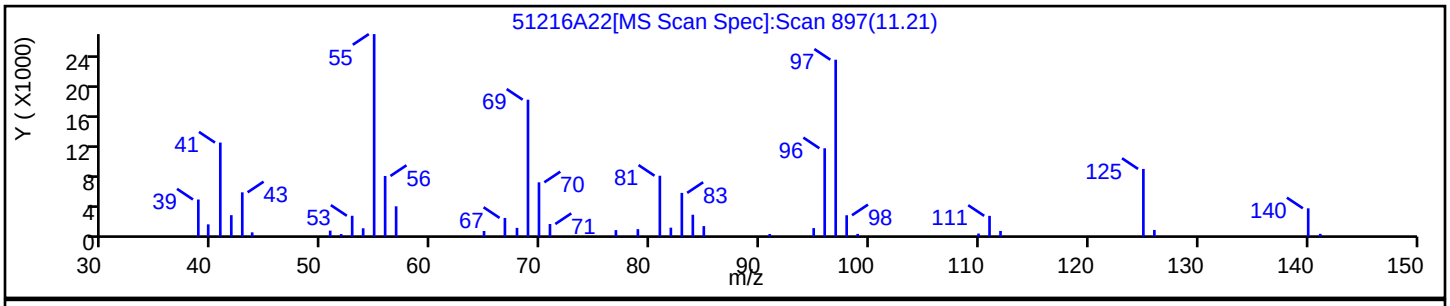
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

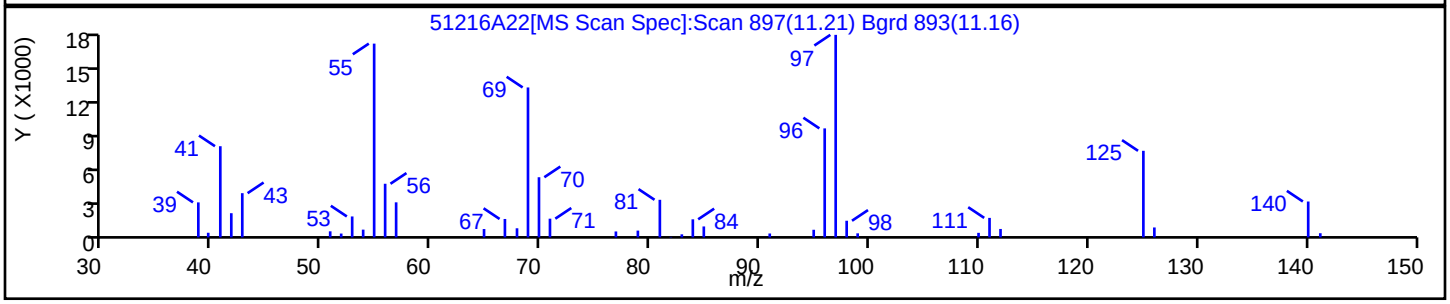
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.200

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





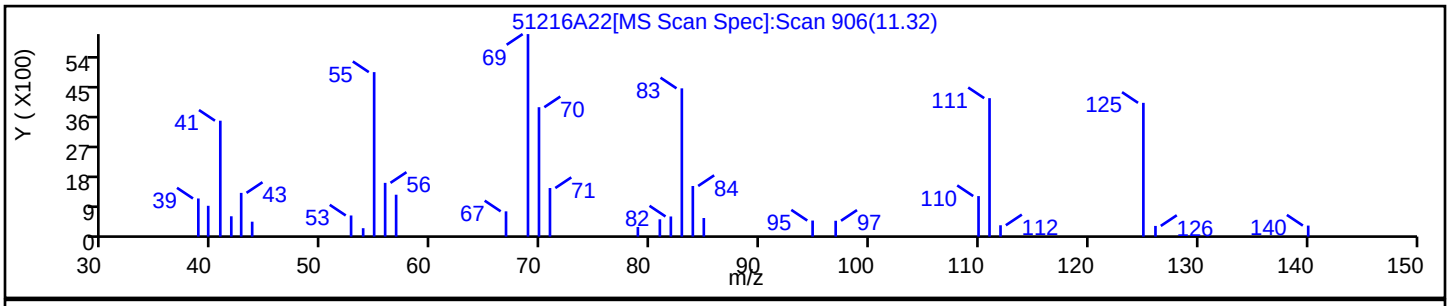
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

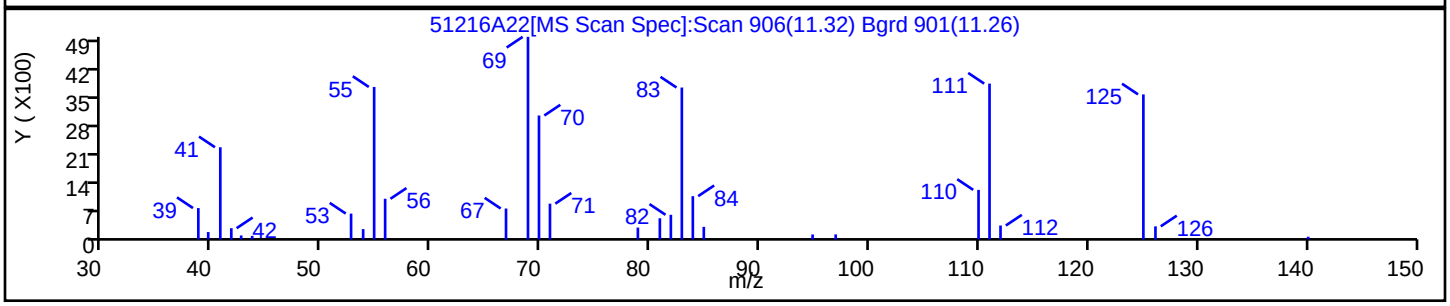
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.307

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





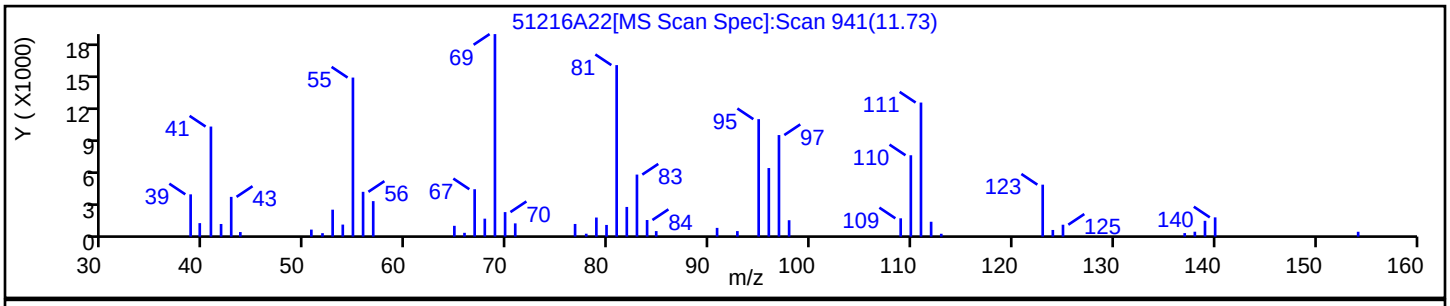
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

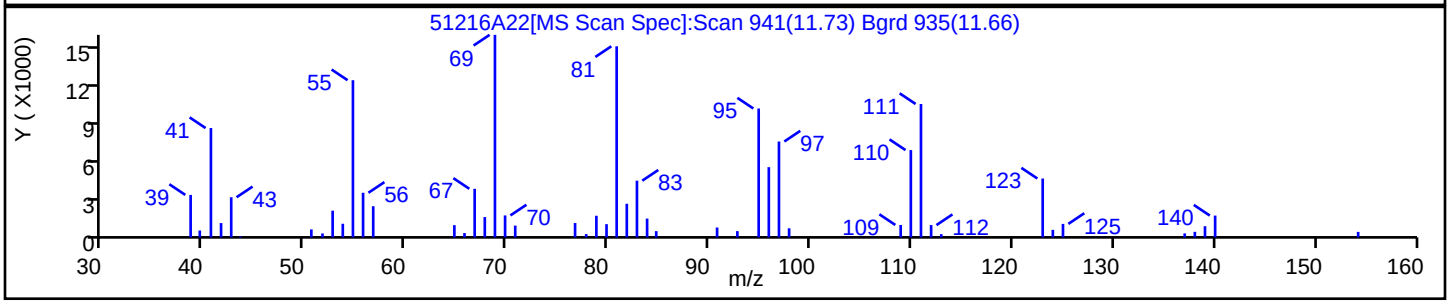
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.722

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





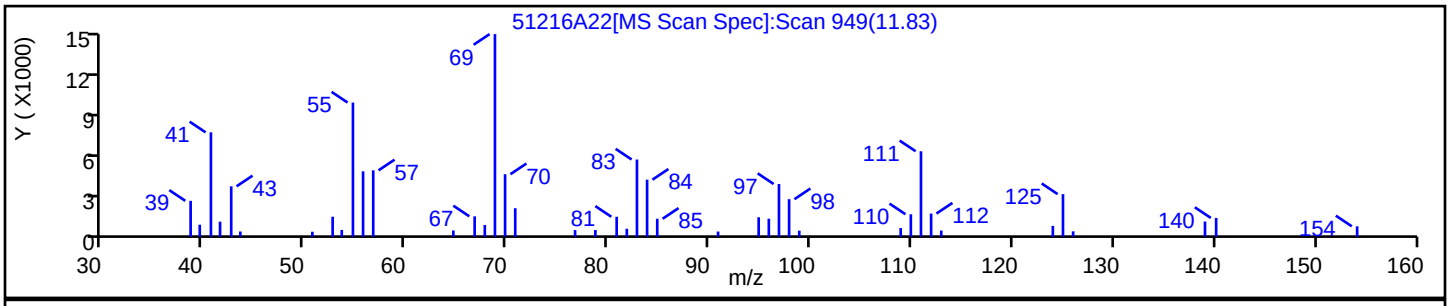
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

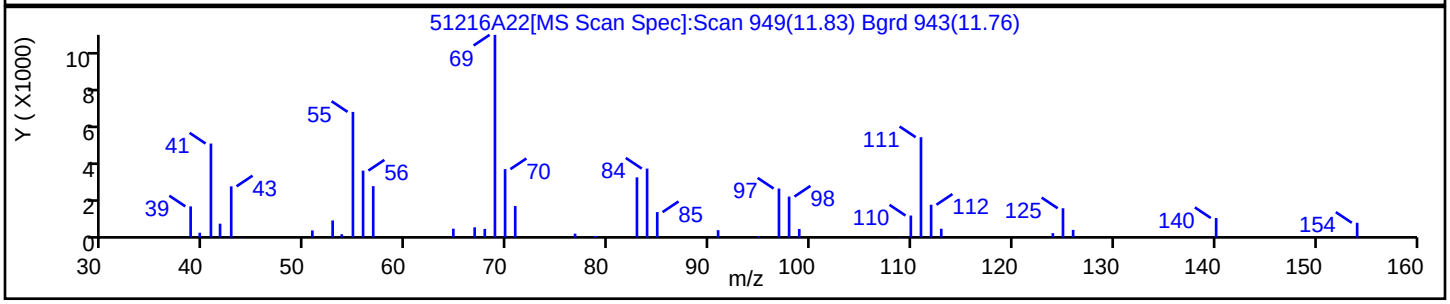
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.817

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





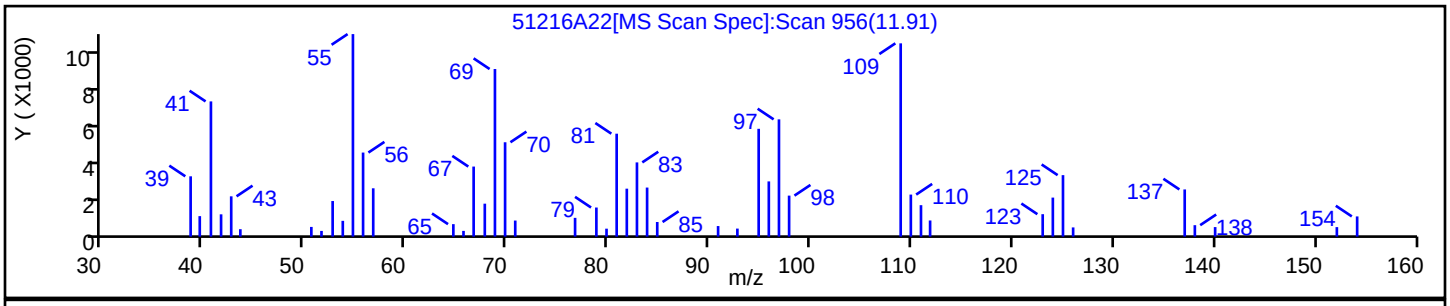
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

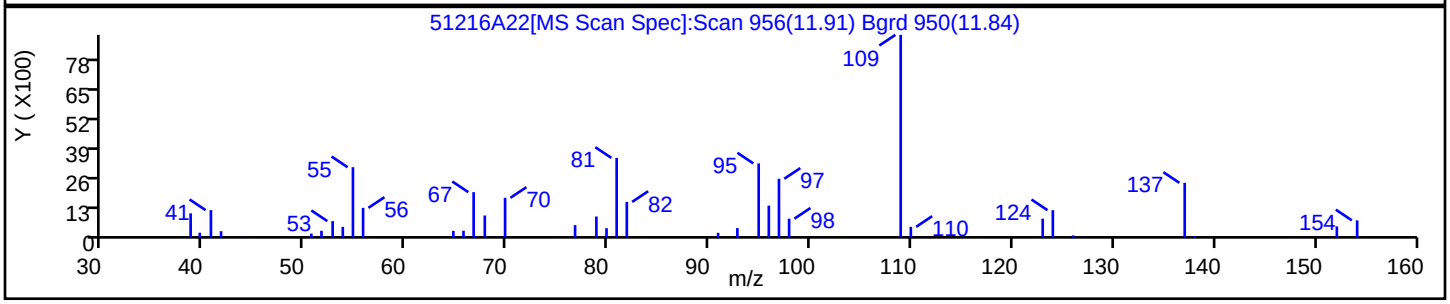
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.900

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





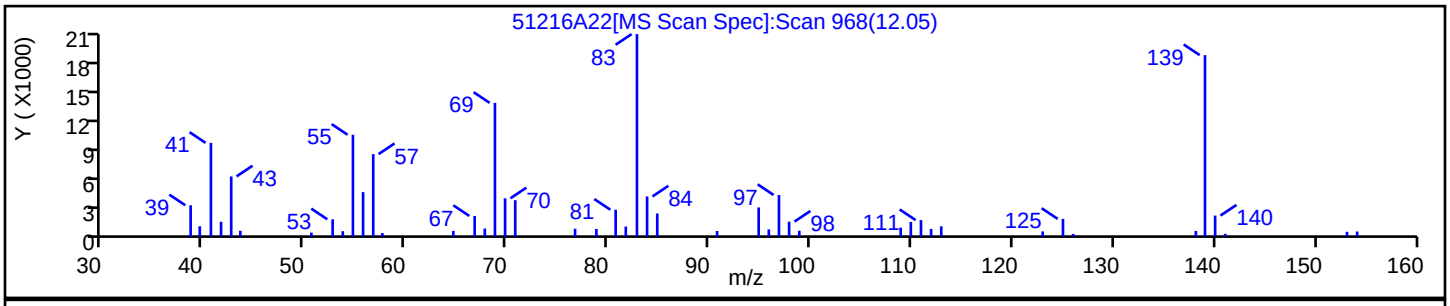
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

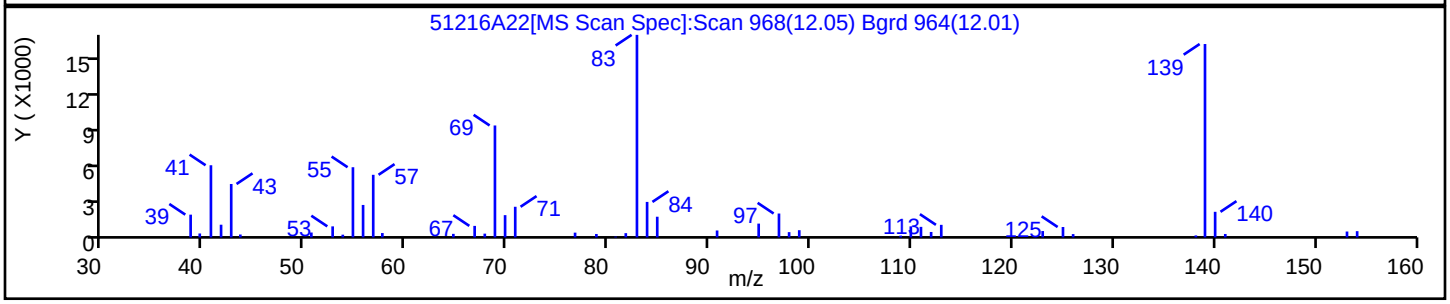
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.042

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





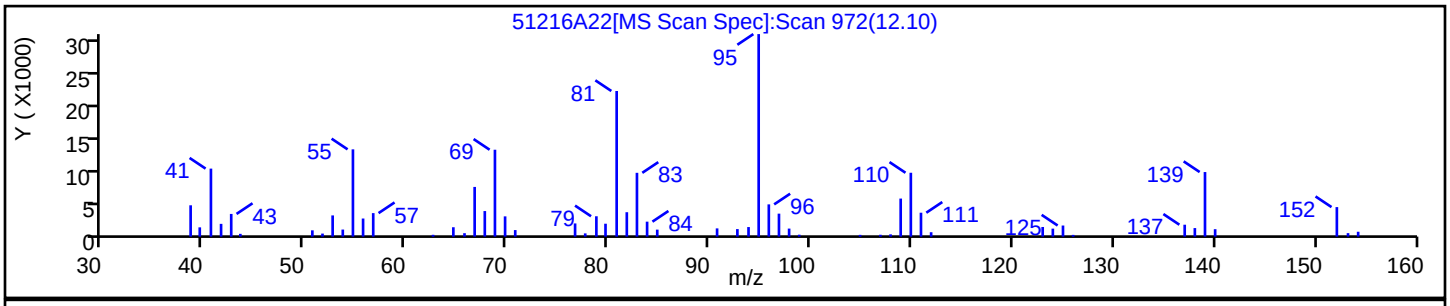
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

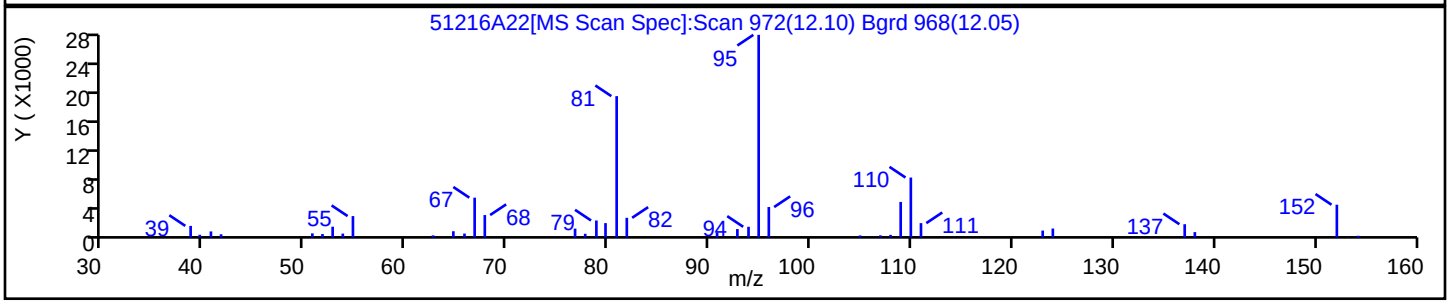
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.090

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





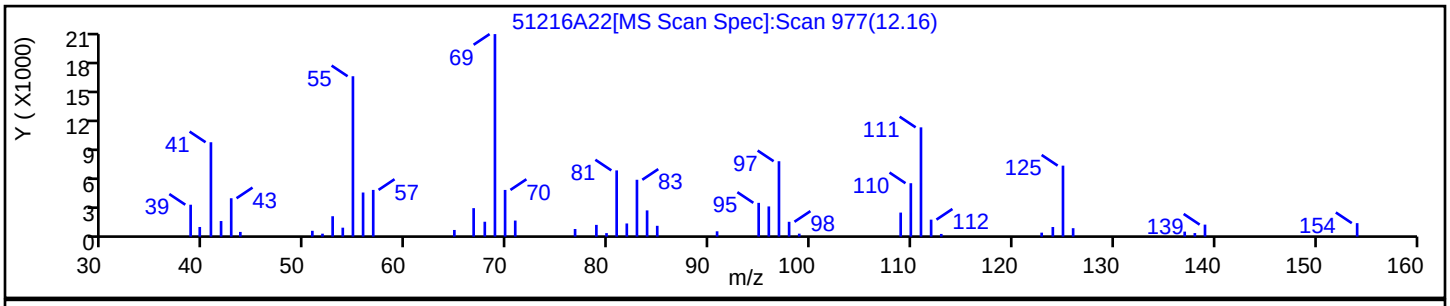
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

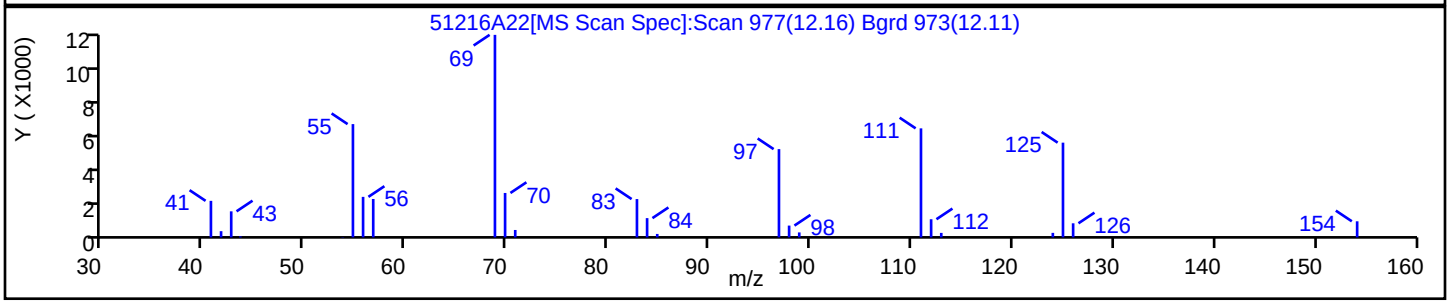
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.149

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





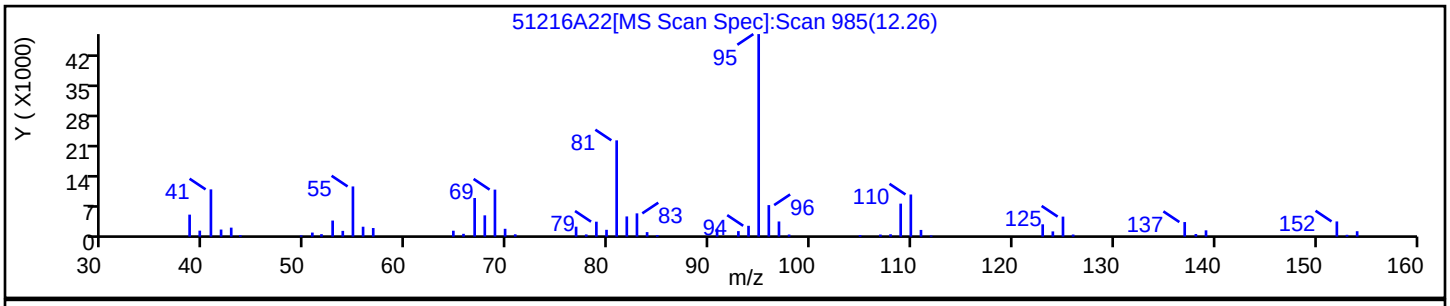
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

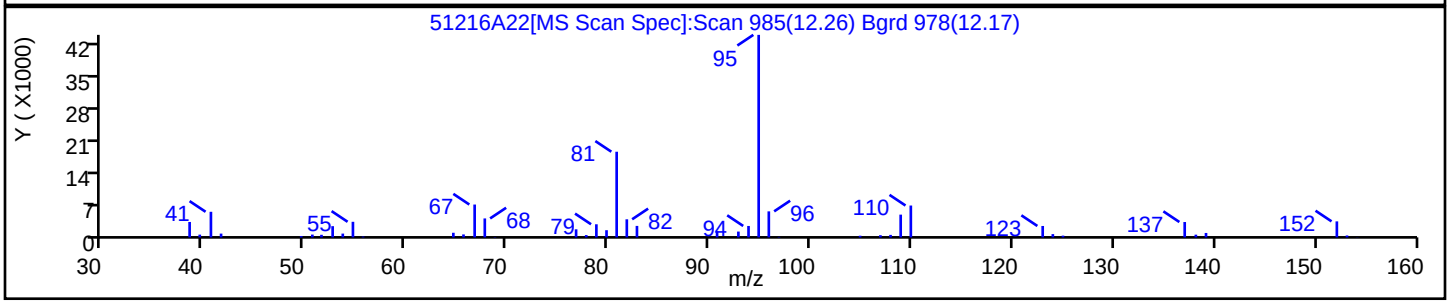
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.244

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





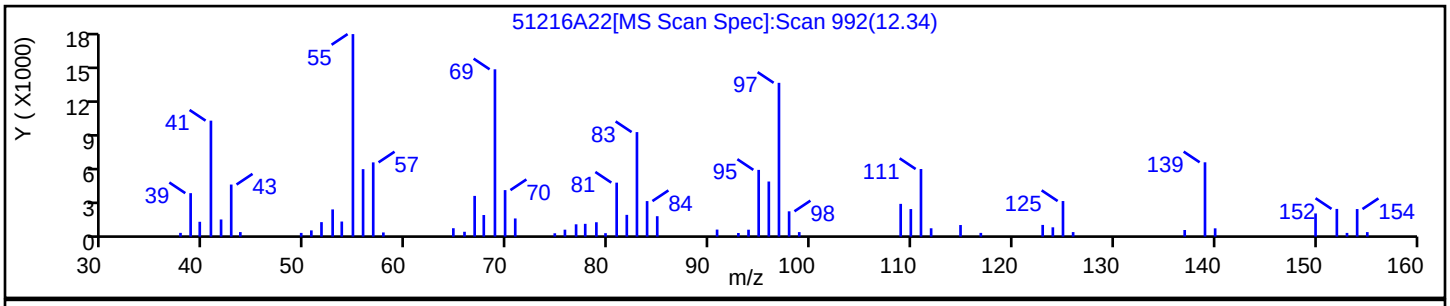
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

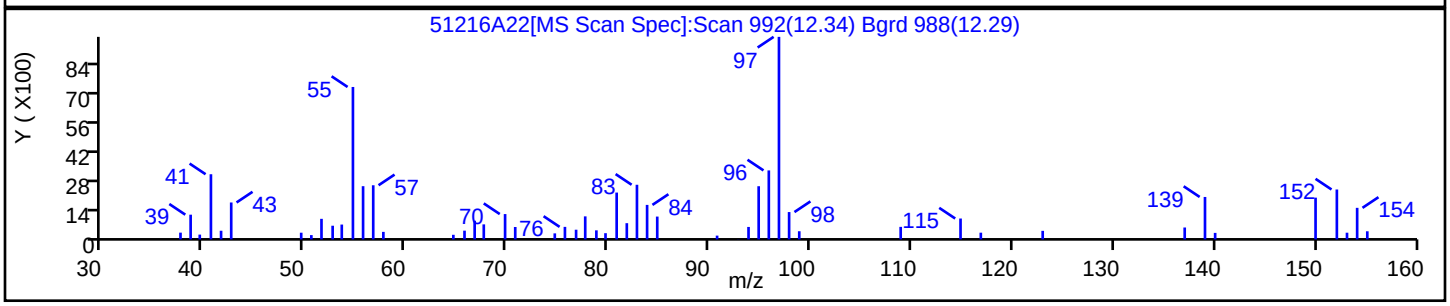
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.327

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





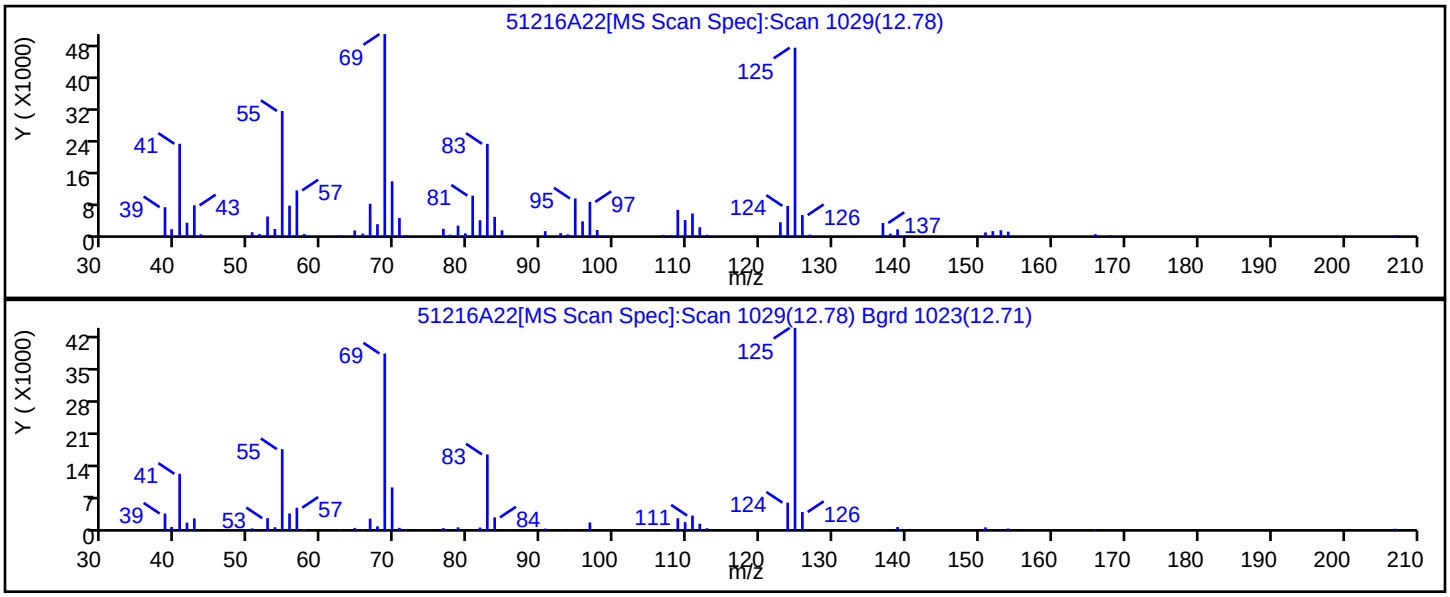
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.766

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



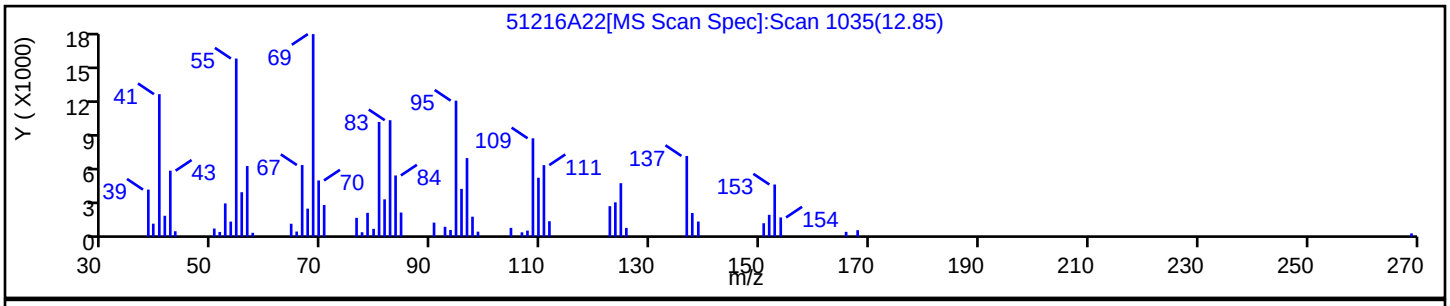
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

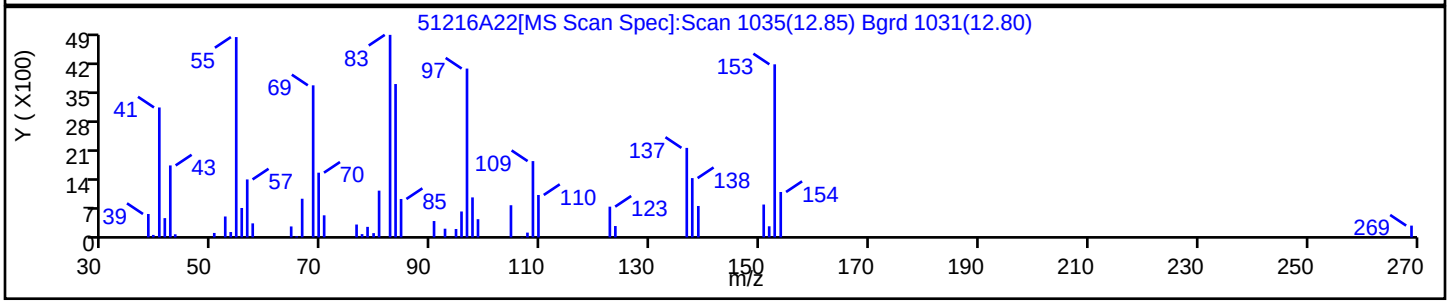
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.837

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.003

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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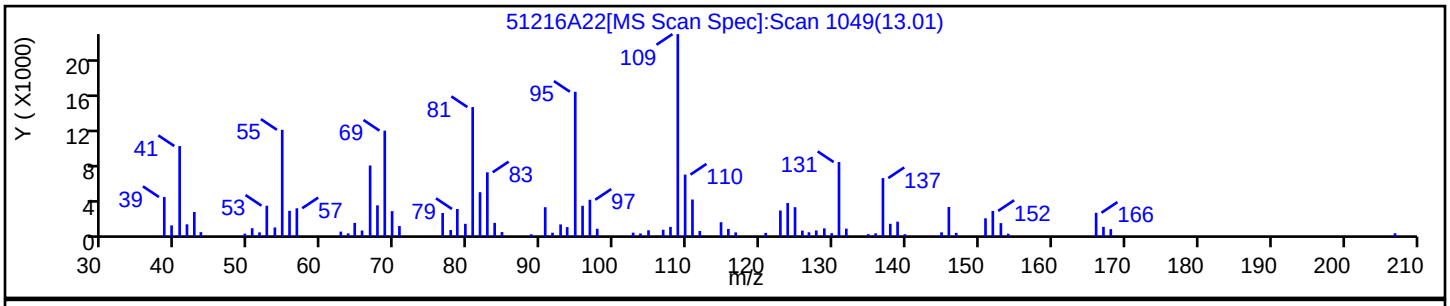
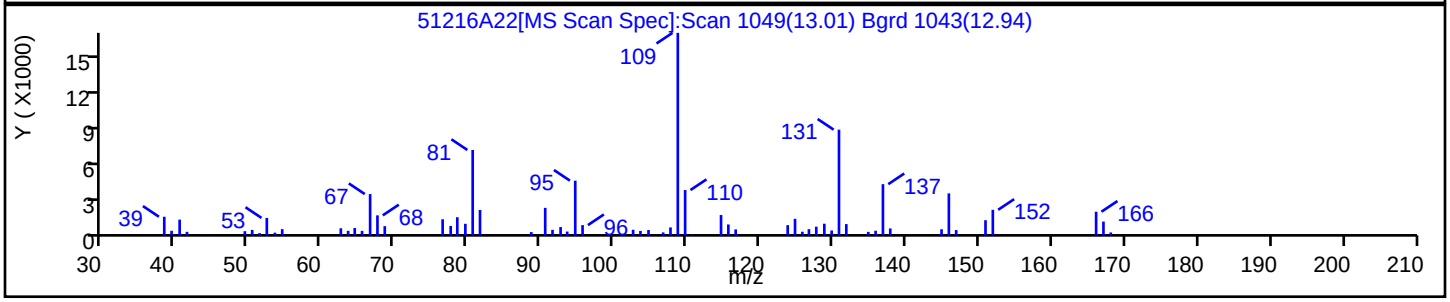




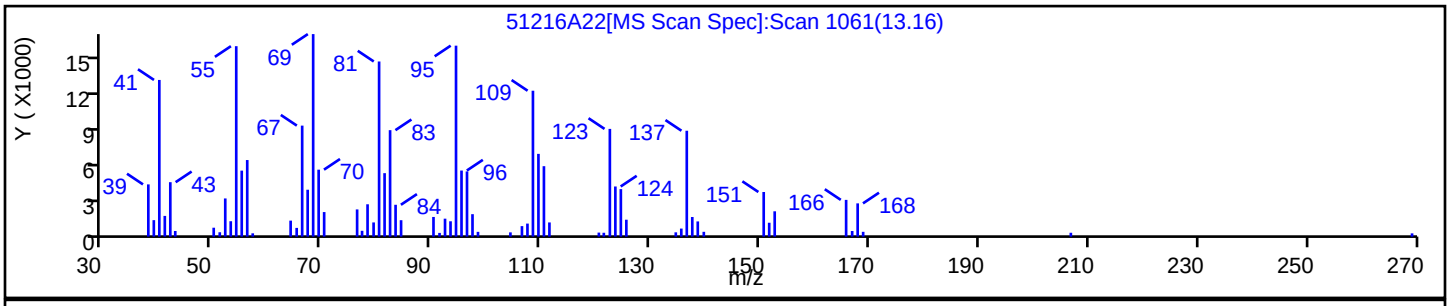
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

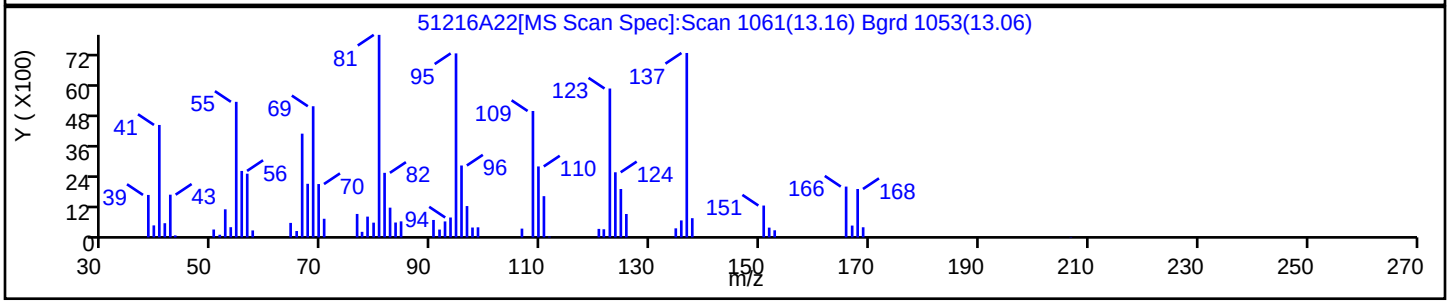
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.145

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





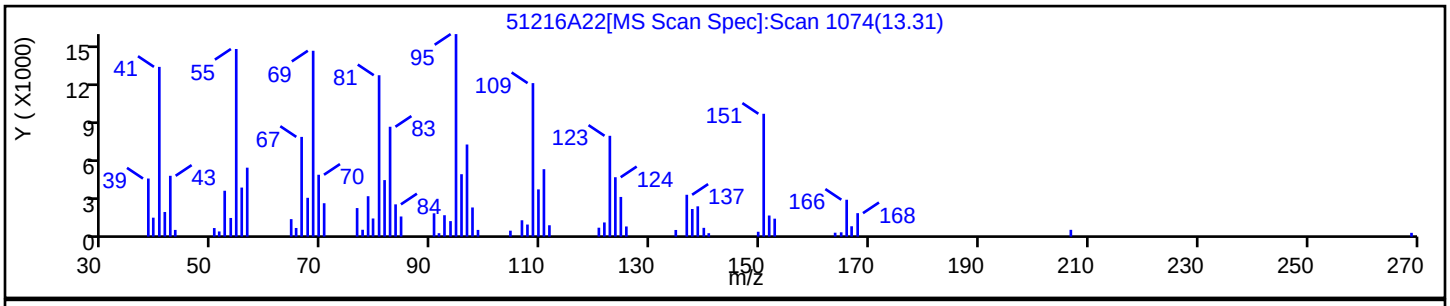
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

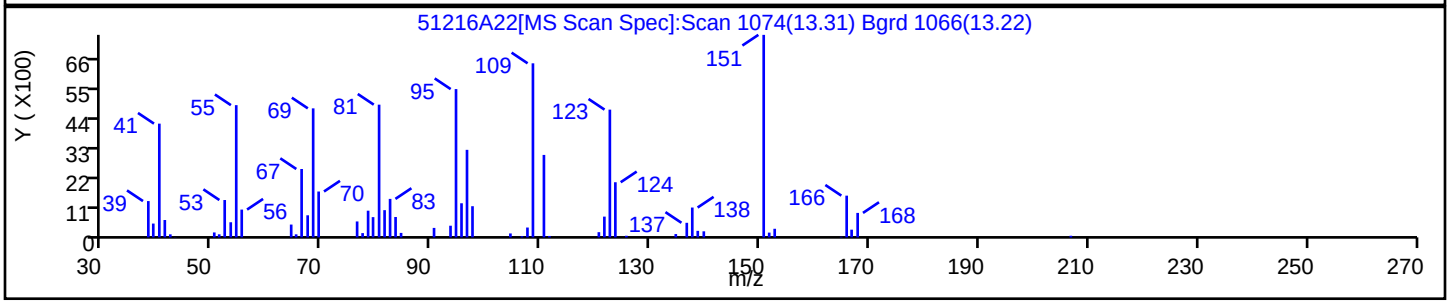
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.299

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





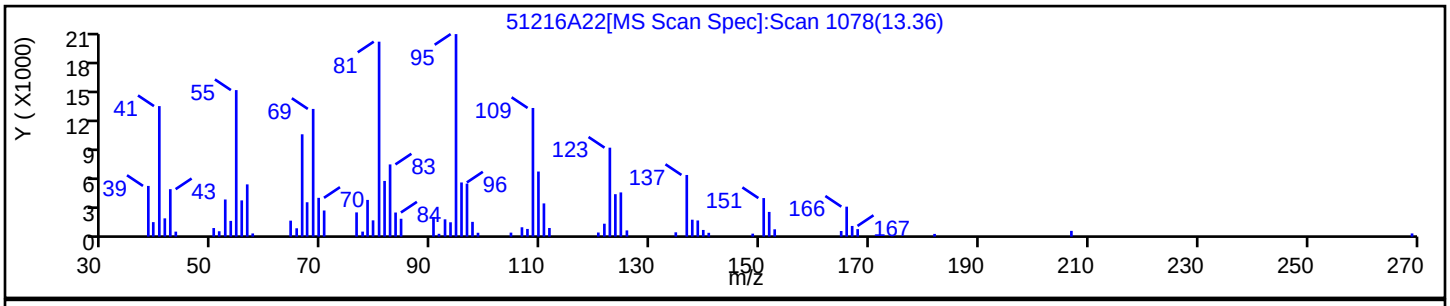
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

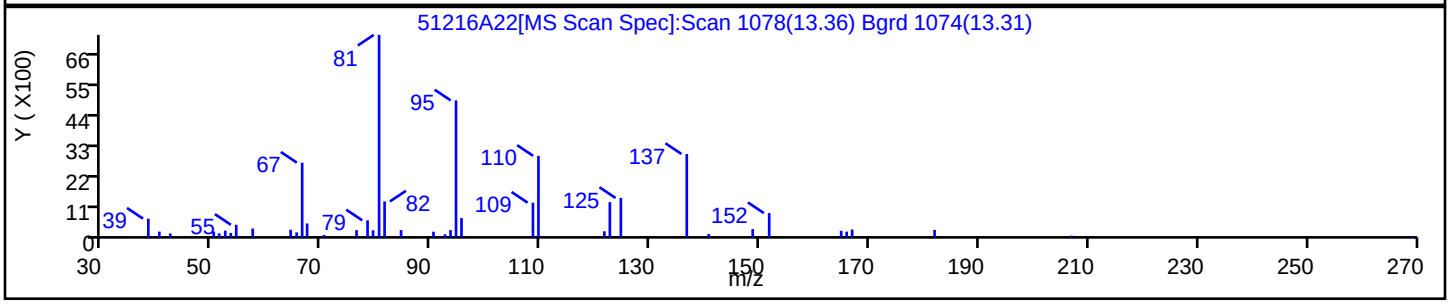
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.347

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





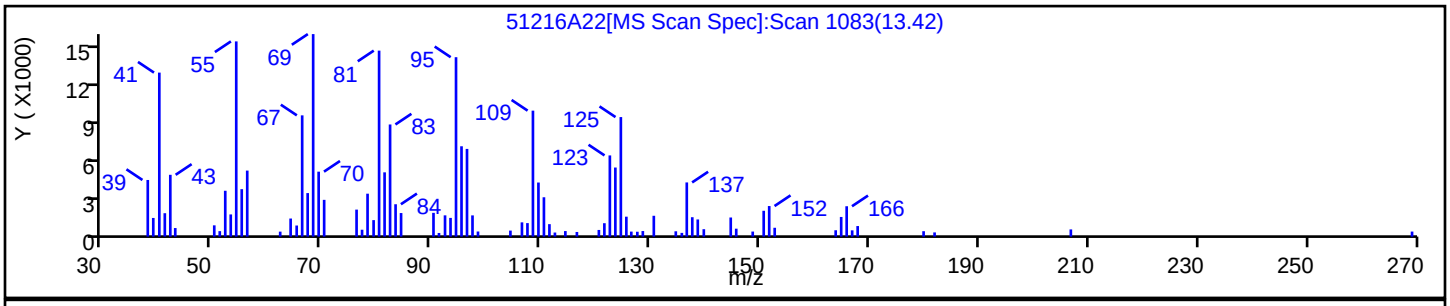
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

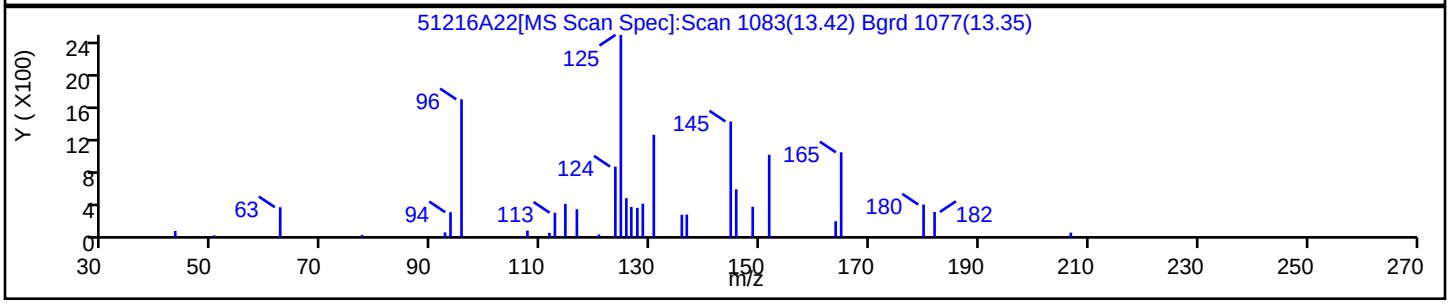
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.406

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





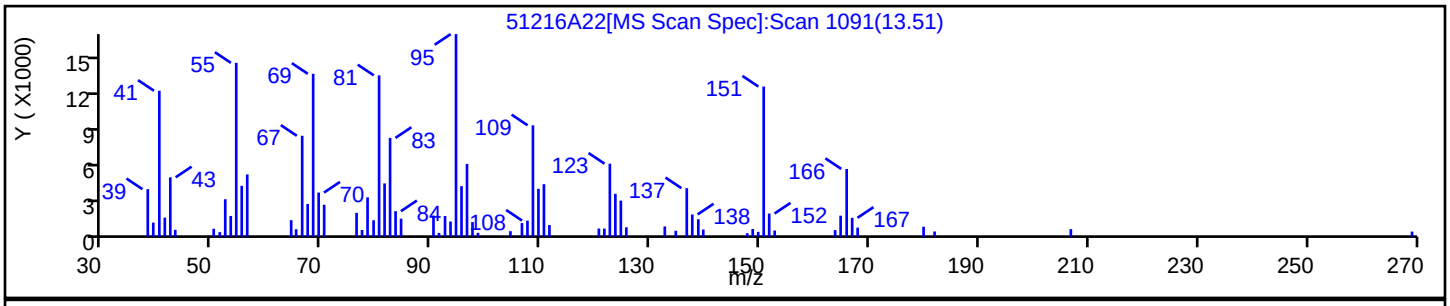
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

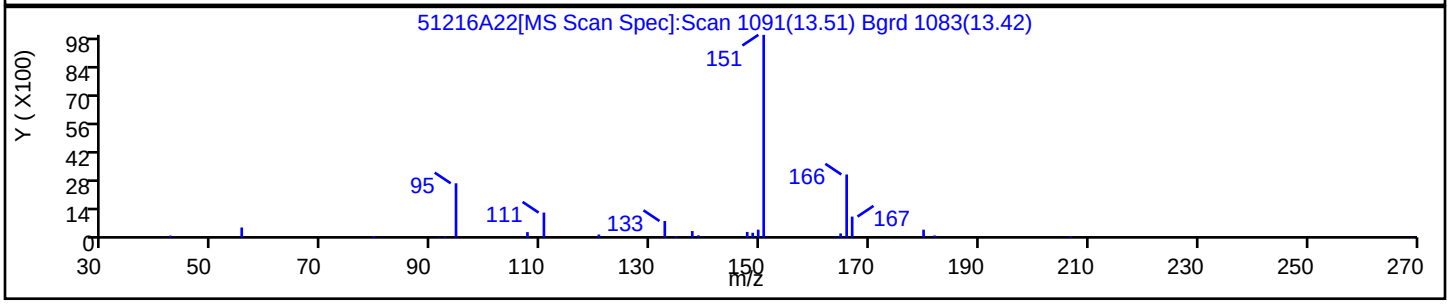
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.501

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





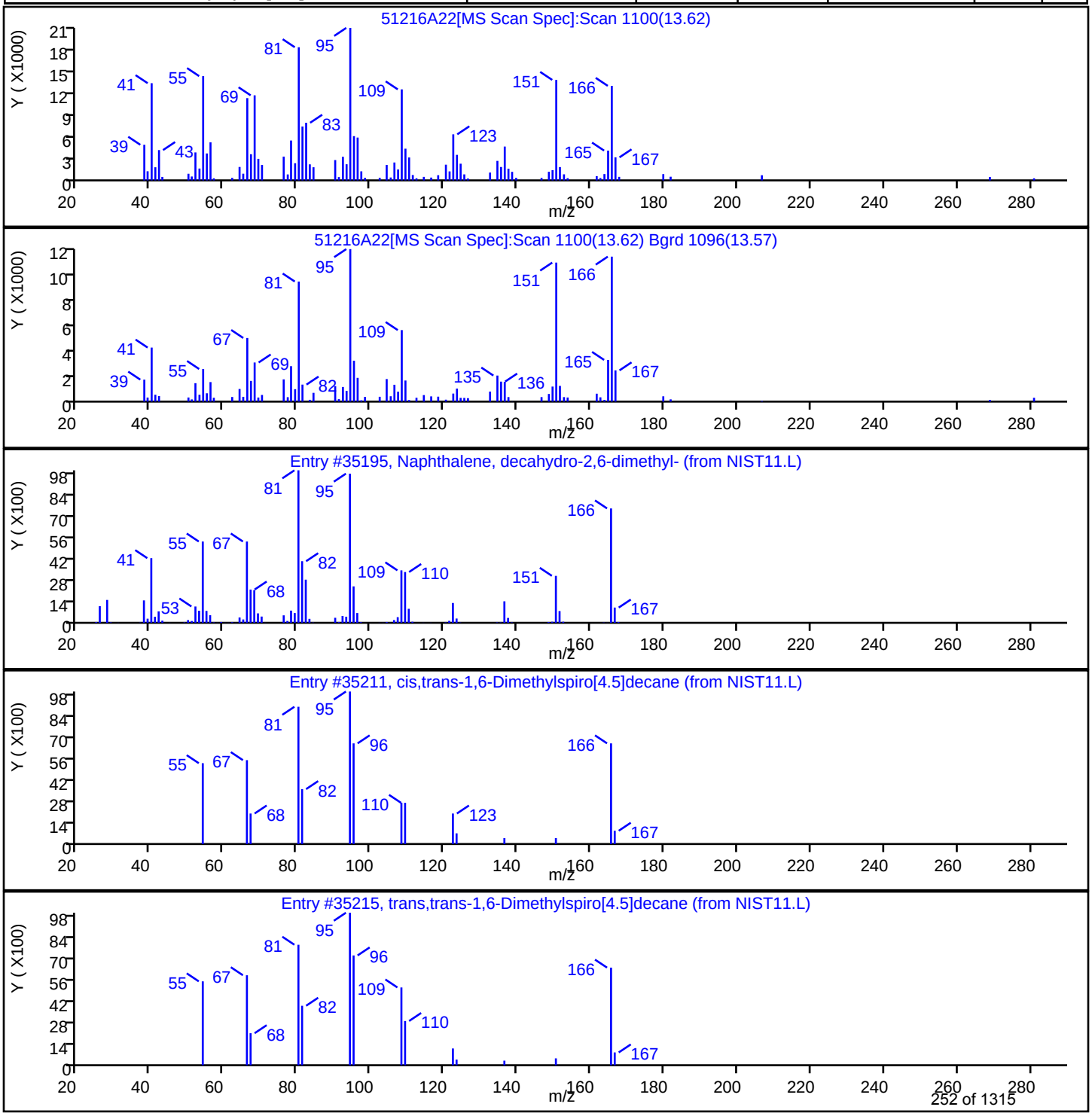
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.608

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, decahydro-2,6-dimethyl-	1618-22-0	NIST11	35195	C12H22	166	93
cis,trans-1,6-Dimethylspiro[4.5]decane	1000111-72-3	NIST11	35211	C12H22	166	89
trans,trans-1,6-Dimethylspiro[4.5]decane	1000111-72-1	NIST11	35215	C12H22	166	89



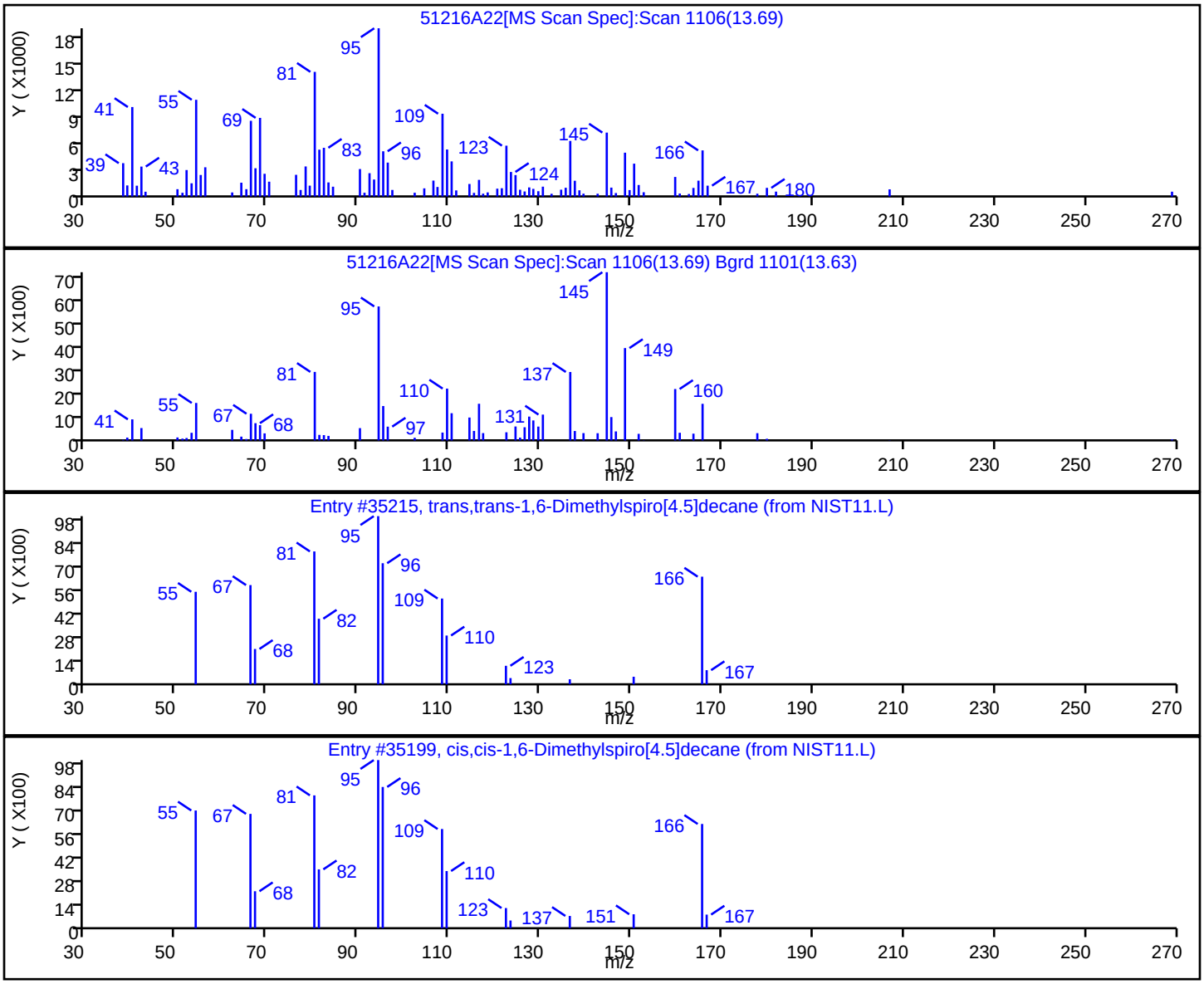
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.679

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
trans,trans-1,6-Dimethylspiro[4.5]decane	1000111-72-1	NIST11	35215	C12H22	166	86
cis,cis-1,6-Dimethylspiro[4.5]decane	1000111-72-4	NIST11	35199	C12H22	166	86



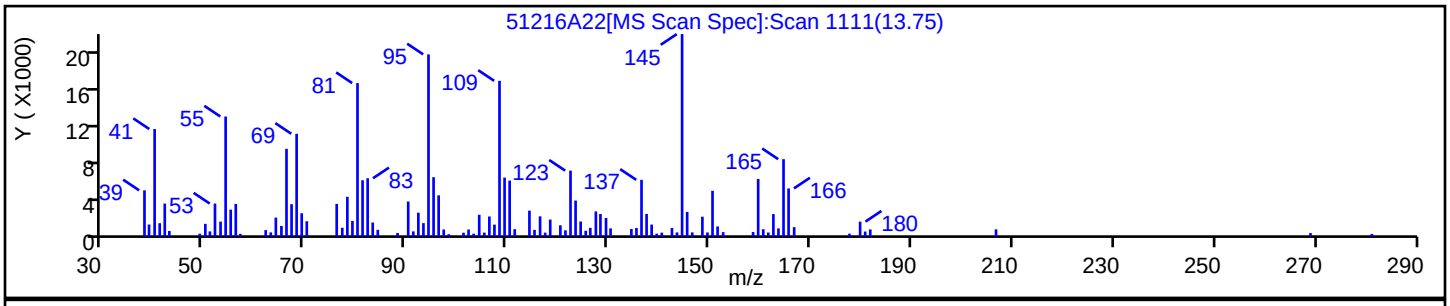
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

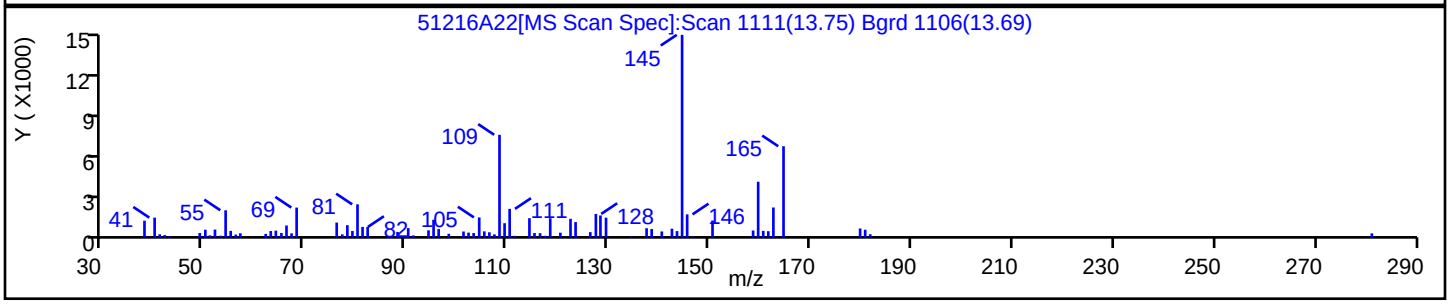
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.738

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





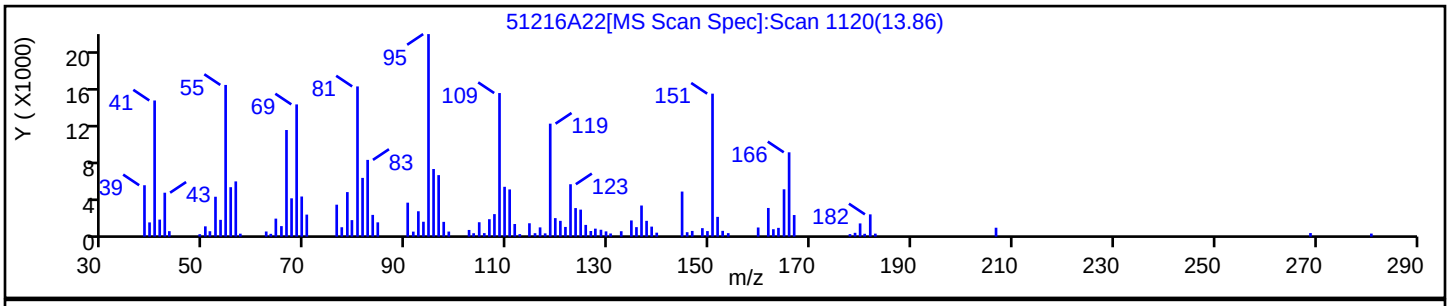
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

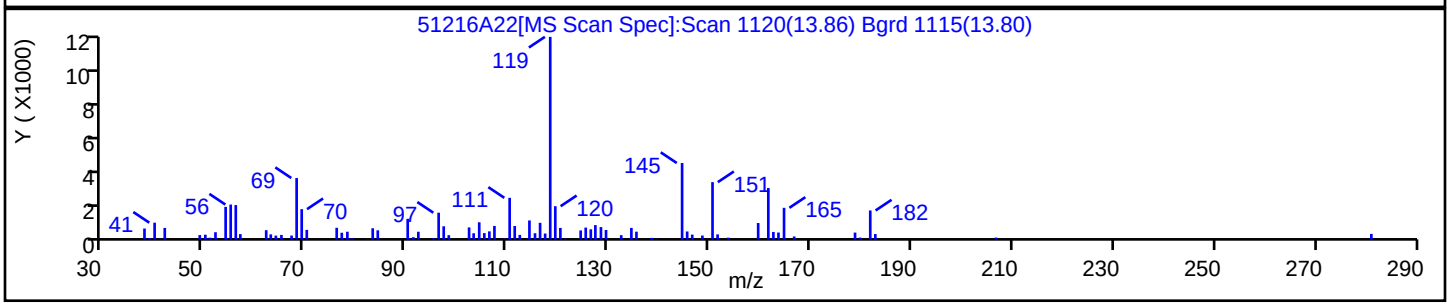
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.845

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





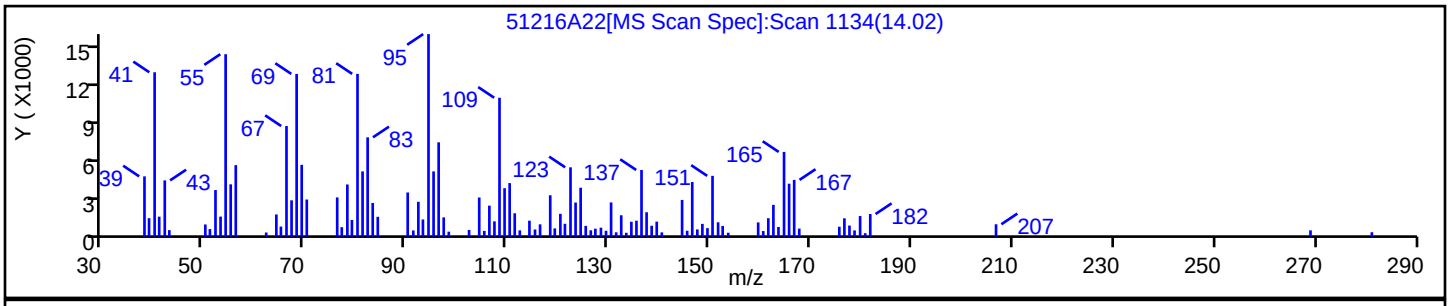
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

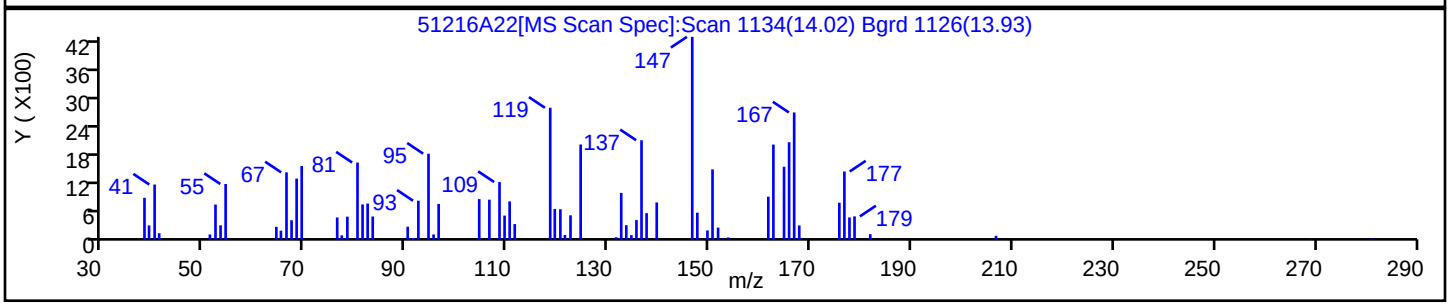
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.011

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





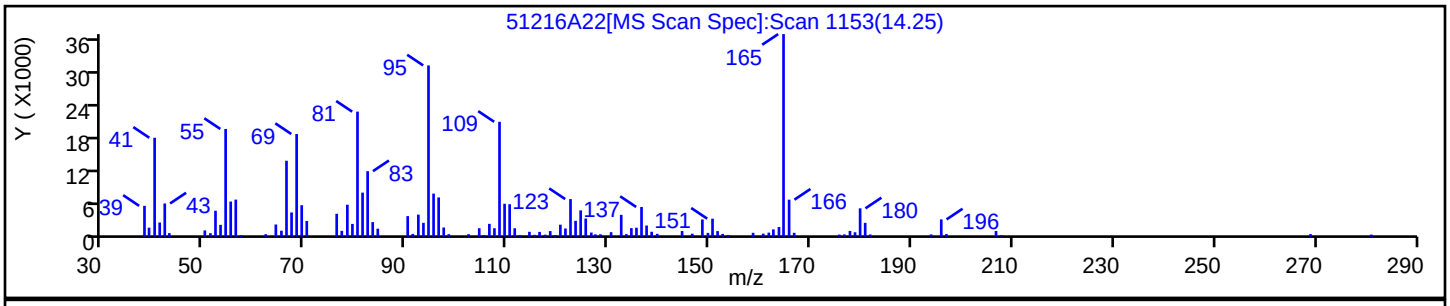
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

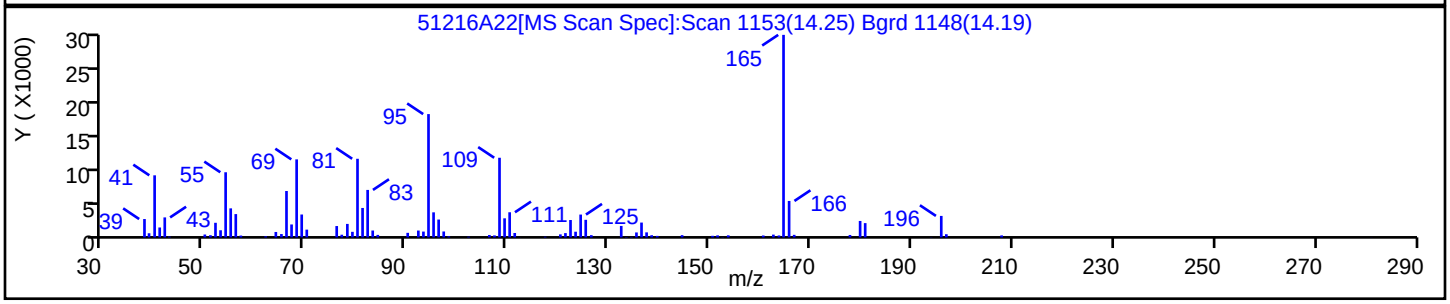
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.236

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





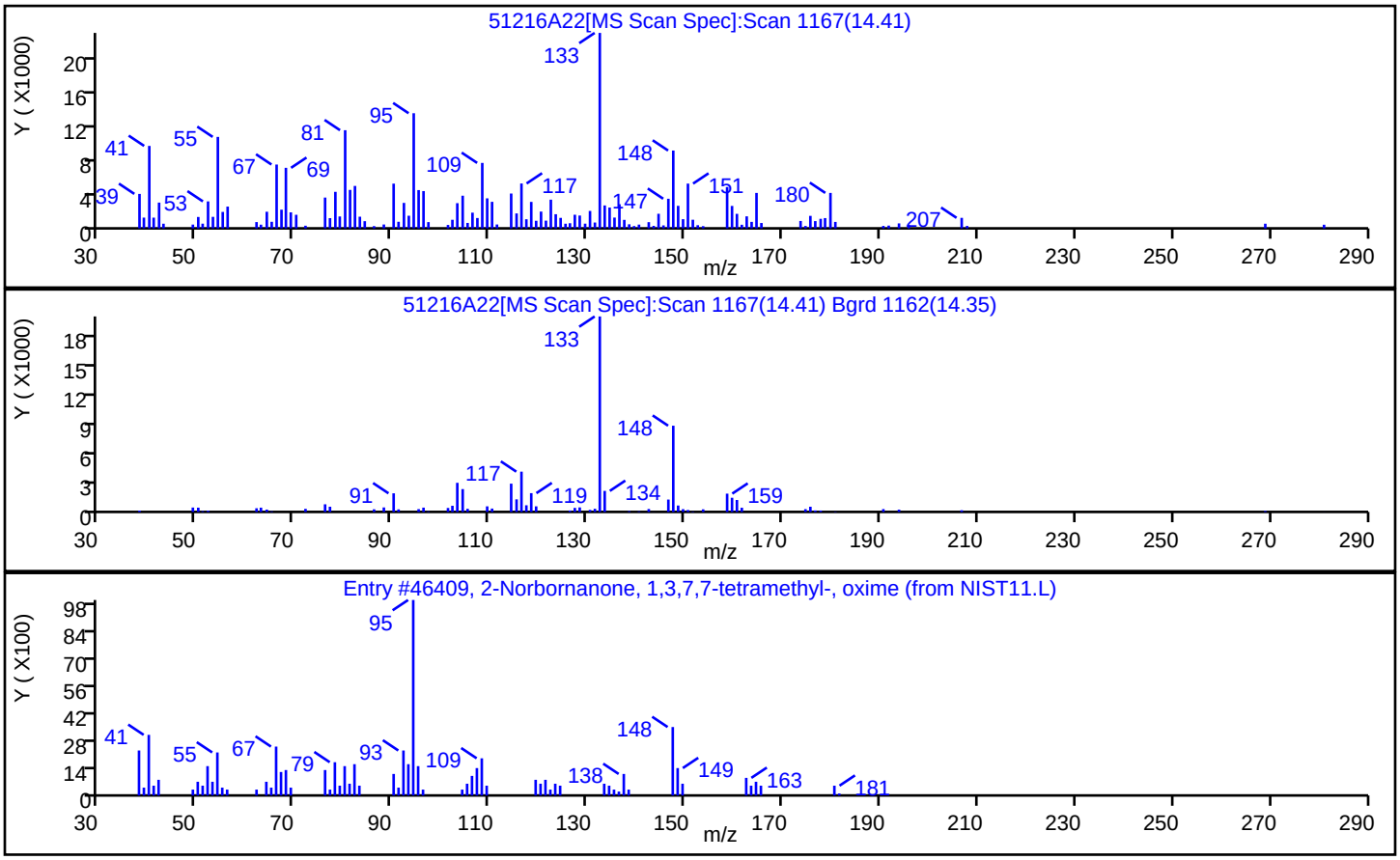
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.402

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
2-Norbornanone, 1,3,7,7-tetramethyl-, ox	32134-53-5	NIST11	46409	C11H19NO	181	90



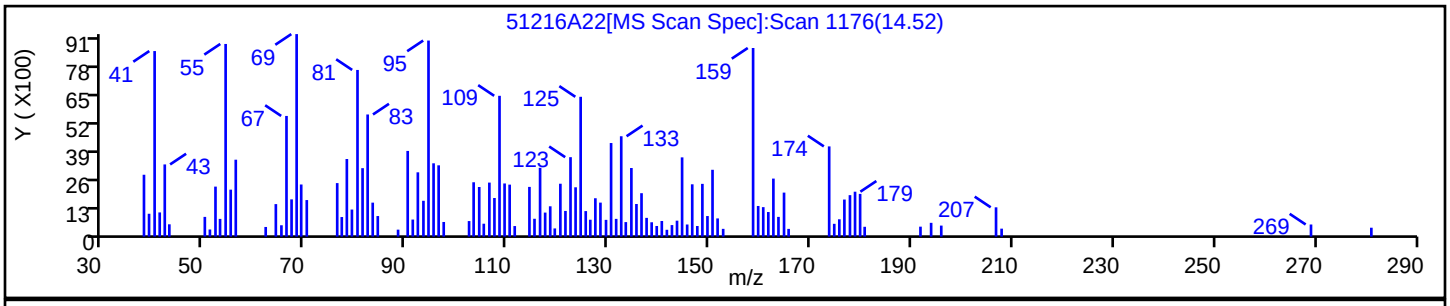
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

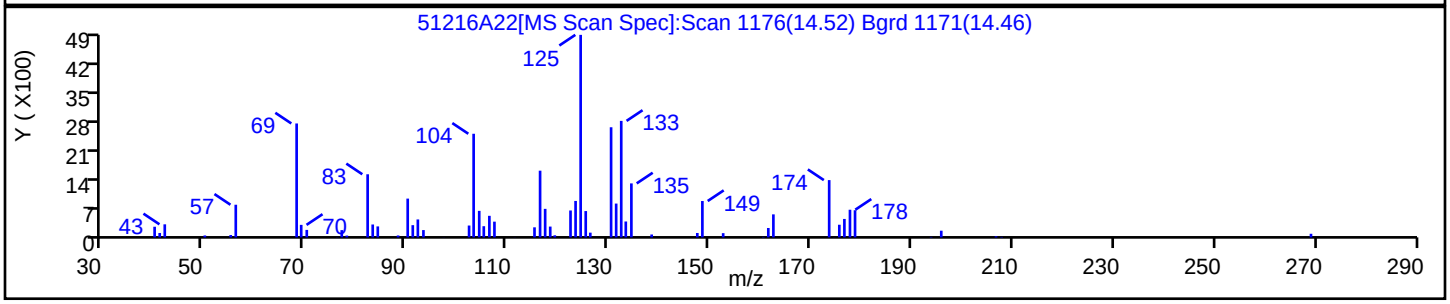
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.509

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





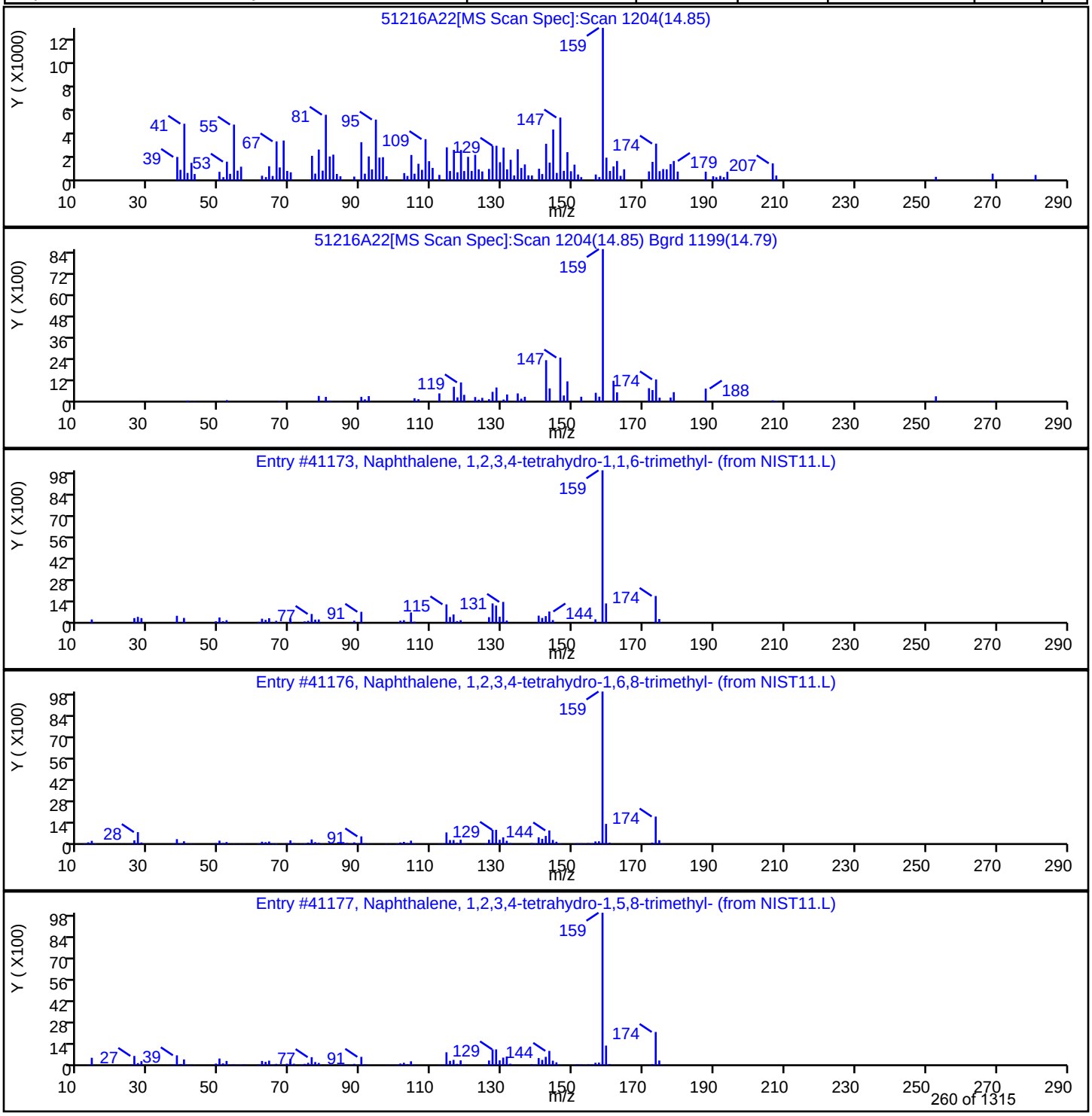
Report Date: 20-Dec-2015 12:53:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A22.D		
Injection Date:	16-Dec-2015 17:26:30	Inst. ID:	msd5.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	5121615.b, QL12004-008		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.841

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2,3,4-tetrahydro-1,1,6-tr	475-03-6	NIST11	41173	C13H18	174	96
Naphthalene, 1,2,3,4-tetrahydro-1,6,8-tr	30316-36-0	NIST11	41176	C13H18	174	95
Naphthalene, 1,2,3,4-tetrahydro-1,5,8-tr	21693-51-6	NIST11	41177	C13H18	174	91



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R28

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-009
Sample wt/vol: 4.72 (g/mL) g
Lab File ID: 51221B13
% Solids: 84.5
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: PT
Heated Purge: (Y/N) Y
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	6.3	U
74-87-3	Chloromethane	6.3	U
75-01-4	Vinyl chloride	6.3	U
74-83-9	Bromomethane	6.3	U
75-00-3	Chloroethane	6.3	U
75-69-4	Trichlorofluoromethane	6.3	U
75-35-4	1,1-Dichloroethene	6.3	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	6.3	U
67-64-1	Acetone	13	U
75-15-0	Carbon disulfide	6.3	U
79-20-9	Methyl acetate	6.3	U
75-09-2	Methylene chloride	6.3	U
156-60-5	trans-1,2-Dichloroethene	6.3	U
1634-04-4	Methyl tert-butyl ether	6.3	U
75-34-3	1,1-Dichloroethane	6.3	U
156-59-2	cis-1,2-Dichloroethene	6.3	U
78-93-3	2-Butanone	13	U
74-97-5	Bromochloromethane	6.3	U
67-66-3	Chloroform	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U
110-82-7	Cyclohexane	6.3	U
56-23-5	Carbon tetrachloride	6.3	U
71-43-2	Benzene	6.3	U
107-06-2	1,2-Dichloroethane	6.3	U
79-01-6	Trichloroethene	6.3	U
108-87-2	Methylcyclohexane	6.3	U
78-87-5	1,2-Dichloropropane	6.3	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R28

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-009
Sample wt/vol: 4.72 (g/mL) g
Lab File ID: 51221B13
% Solids: 84.5
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: PT
Heated Purge: (Y/N) Y
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	6.3	U
10061-01-5	cis-1,3-Dichloropropene	6.3	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	6.3	U
10061-02-6	trans-1,3-Dichloropropene	6.3	U
79-00-5	1,1,2-Trichloroethane	6.3	U
127-18-4	Tetrachloroethene	6.3	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	6.3	U
106-93-4	1,2-Dibromoethane	6.3	U
108-90-7	Chlorobenzene	6.3	U
100-41-4	Ethylbenzene	6.3	U
179601-23-1	m, p-Xylene	6.3	U
95-47-6	o-Xylene	6.3	U
100-42-5	Styrene	6.3	U
75-25-2	Bromoform	6.3	U
98-82-8	Isopropylbenzene	6.3	U
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U
106-46-7	1,4-Dichlorobenzene	6.3	U
95-50-1	1,2-Dichlorobenzene	6.3	U
96-12-8	1,2-Dibromo-3-chloropropane	6.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
87-61-6	1,2,3-Trichlorobenzene	6.3	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R28

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-009
Sample wt/vol: 4.72 (g/mL) g
Lab File ID: 51221B13
% Solids: 84.5
Date Received: 12/12/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) Y
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	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[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B13.D		
Lab Sample ID:	QL12004-009	Client Sample ID:	F6R28
Injection Date:	21-Dec-2015 19:15:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115B, QL12004-009		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5.m		
Method Date:	21-Dec-2015 16:58:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	Client	ALS Bottle:	13
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	4.7200	Weight of sample extracted (g)
M	15.500	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	22-Dec-2015 10:30:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.057		ND			
2 Chloromethane	50.0		2.271		ND			
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	29468	48.824	61.207	
4 Vinyl Chloride	62.0		2.413		ND			
5 Bromomethane	94.0		2.804		ND			
$ 6 Chloroethane-d5	69.0	2.887	2.887	0.000	27393	48.567	60.885	
7 Chloroethane	64.0		2.911		ND			
8 Trichlorofluoromethane	101.0		3.208		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.800	3.801	-0.001	54929	36.029	45.167	
10 1,1-Dichloroethene	96.0		3.824		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.848		ND			
12 Acetone	43.0		3.848		ND			
13 Carbon Disulfide	76.0		4.097		ND			
14 Methyl Acetate	43.0		4.227		ND			
15 Methylene Chloride	84.0		4.358		ND			
16 Methyl tert-Butyl Ether	73.0		4.678		ND			
17 trans-1,2-Dichloroethene	96.0		4.690		ND			
18 1,1-Dichloroethane	63.0		5.164		ND			
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	36130	70.823	88.786	
20 2-Butanone	43.0		5.828		ND			
21 cis-1,2-Dichloroethene	96.0		5.840		ND			
22 Bromochloromethane	128.0		6.125		ND			
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	65699	45.574	57.134	Q
24 Chloroform	83.0		6.196		ND			
25 1,1,1-Trichloroethane	97.0		6.445		ND			
26 Cyclohexane	56.0		6.528		ND			

Report Date: 30-Dec-2015 17:23:30 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B13.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
27 Carbon Tetrachloride	117.0		6.647		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.801	0.000	41248	47.013	58.937	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	145223	47.134	59.089	
30 Benzene	78.0		6.884		ND			
31 1,2-Dichloroethane	62.0		6.884		ND			
* 32 1,4-Difluorobenzene	114.0	7.310	7.311	-0.001	180692	50.000	62.682	
33 Trichloroethene	95.0		7.655		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.820	7.821	-0.001	42712	45.379	56.889	
35 Methylcyclohexane	83.0		7.904		ND			
36 1,2-Dichloropropane	63.0		7.927		ND			
39 Bromodichloromethane	83.0		8.248		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	54019	44.678	56.009	
41 cis-1,3-Dichloropropene	75.0		8.746		ND			
42 4-Methyl-2-pentanone	43.0		8.900		ND			
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	137754	46.016	57.688	
44 Toluene	91.0		9.125		ND			
45 trans-1,3-Dichloropropene	75.0		9.315		ND			
46 1,1,2-Trichloroethane	97.0		9.505		ND			
47 Tetrachloroethene	164.0		9.671		ND			
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	26883	59.744	74.897	Q
49 2-Hexanone	43.0		9.730		ND			
50 Dibromochloromethane	129.0		9.896		ND			
51 1,2-Dibromoethane	107.0		10.014		ND			
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	174855	50.000	62.682	
53 Chlorobenzene	112.0		10.453		ND			
54 Ethylbenzene	91.0		10.536		ND			
55 m+p-Xylenes	106.0		10.643		ND			
56 o-Xylene	106.0		10.975		ND			
57 Styrene	104.0		10.987		ND			
58 Bromoform	173.0		11.153		ND			
59 Isopropylbenzene	105.0		11.271		ND			
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	38533	41.558	52.098	
61 1,1,2,2-Tetrachloroethane	83.0		11.497		ND			
62 1,3-Dichlorobenzene	146.0		12.244		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	95544	50.000	62.682	Q
64 1,4-Dichlorobenzene	146.0		12.303		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	52646	42.304	53.034	Q
66 1,2-Dichlorobenzene	146.0		12.588		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.121		ND			
68 1,2,4-Trichlorobenzene	180.0		13.691		ND			
69 1,2,3-Trichlorobenzene	180.0		14.034		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B13.D		
Lab Sample ID:	QL12004-009	Client Sample ID:	F6R28
Injection Date:	21-Dec-2015 19:15:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115B, QL12004-009		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5.m		
Method Date:	21-Dec-2015 16:58:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	Client	ALS Bottle:	13
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	4.7200	Weight of sample extracted (g)
M	15.500	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	22-Dec-2015 10:30:30

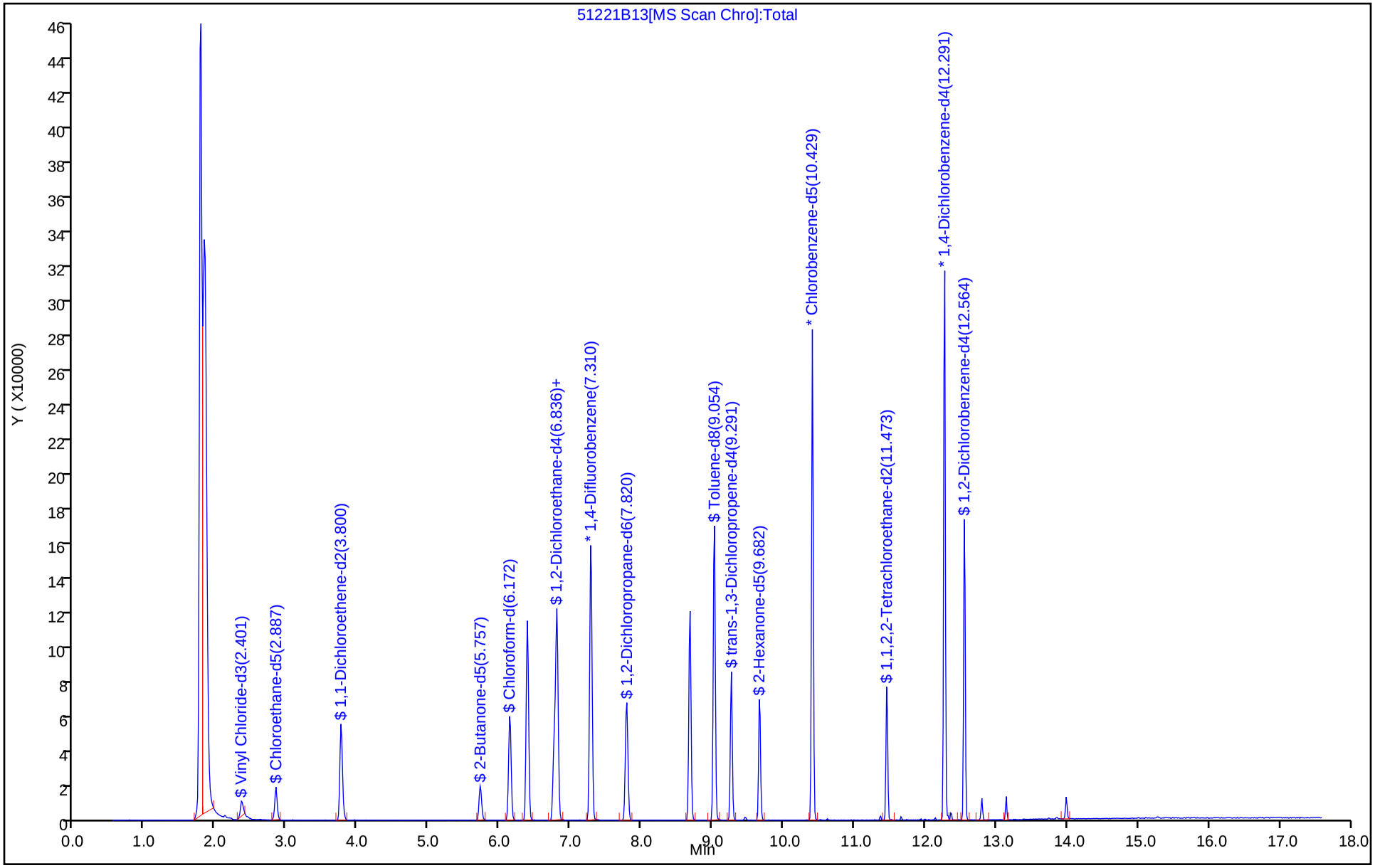
Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B13.D				
Injection Date:	21-Dec-2015 19:15:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	F6R28	Lab ID:	QL12004-009		
Sample Info:	5122115B, QL12004-009				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



VOLATILE STANDARDS DATA

-Initial Calibration Data (Form 6A-OR)

-Continuing Calibration Verification Data (Form 7A-OR)

Initial Calibration

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date(s): 12/16/2015 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Calibration Time(s): 0855 1048

Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 5.0 (mL)

LAB FILE ID: 51216A09 RRF 5.0 = 51216A09 RRF 10 = 51216A04
RRF 50 = 51216A05 RRF 100 = 51216A06 RRF 200 = 51216A07

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.365	0.321	0.404	0.370	0.417	0.375	10.0
Chloromethane	0.680	0.651	0.730	0.637	0.661	0.672	5.4
Vinyl chloride	0.604	0.556	0.627	0.540	0.550	0.575	6.6
Bromomethane	0.257	0.224	0.232	0.198	0.204	0.223	10.6
Chloroethane	0.184	0.162	0.181	0.191	0.186	0.181	6.1
Trichlorofluoromethane	0.388	0.404	0.494	0.455	0.512	0.451	12.0
1,1-Dichloroethene	0.240	0.255	0.278	0.253	0.315	0.268	11.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.176	0.195	0.212	0.196	0.241	0.204	11.9
Acetone	0.038	0.048	0.058	0.049	0.055	0.050	15.9
Carbon disulfide	0.754	0.706	0.741	0.676	0.823	0.740	7.5
Methyl acetate	0.153	0.195	0.208	0.191	0.234	0.196	14.9
Methylene chloride	0.274	0.260	0.282	0.256	0.311	0.276	7.9
trans-1,2-Dichloroethene	0.388	0.291	0.307	0.280	0.341	0.321	13.6
Methyl tert-butyl ether	1.045	0.753	0.808	0.736	0.870	0.842	14.8
1,1-Dichloroethane	0.612	0.511	0.544	0.488	0.594	0.550	9.7
cis-1,2-Dichloroethene	0.409	0.315	0.338	0.309	0.348	0.344	11.6
2-Butanone	0.095	0.078	0.086	0.075	0.086	0.084	9.4
Bromochloromethane	0.260	0.168	0.181	0.165	0.168	0.188	21.5
Chloroform	0.711	0.526	0.543	0.493	0.495	0.554	16.3
1,1,1-Trichloroethane	0.551	0.466	0.508	0.474	0.586	0.517	9.9
Cyclohexane	0.592	0.520	0.580	0.529	0.689	0.582	11.6
Carbon tetrachloride	0.528	0.471	0.525	0.485	0.595	0.521	9.3
Benzene	1.273	1.151	1.249	1.166	1.406	1.249	8.2
1,2-Dichloroethane	0.459	0.407	0.441	0.411	0.422	0.428	5.1
Trichloroethene	0.307	0.310	0.345	0.329	0.454	0.349	17.5
Methylcyclohexane	0.518	0.537	0.605	0.552	0.747	0.592	15.6
1,2-Dichloropropane	0.232	0.277	0.304	0.291	0.388	0.299	19.0
Bromodichloromethane	0.391	0.398	0.448	0.425	0.493	0.431	9.6
cis-1,3-Dichloropropene	0.422	0.474	0.522	0.502	0.638	0.512	15.6
4-Methyl-2-pentanone	0.174	0.227	0.232	0.211	0.246	0.218	12.7
Toluene	1.246	1.215	1.323	1.249	1.683	1.343	14.4
trans-1,3-Dichloropropene	0.429	0.416	0.454	0.444	0.540	0.457	10.6
1,1,2-Trichloroethane	0.260	0.236	0.254	0.243	0.250	0.249	3.7
Tetrachloroethene	0.397	0.318	0.355	0.328	0.350	0.350	8.7
2-Hexanone	0.171	0.157	0.160	0.150	0.142	0.156	7.0

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date(s): 12/16/2015 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Calibration Time(s): 0855 1048

Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 5.0 (mL)

LAB FILE ID: 51216A09 RRF 5.0 = 51216A09 RRF 10 = 51216A04
RRF 50 = 51216A05 RRF 100 = 51216A06 RRF 200 = 51216A07

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Dibromochloromethane	0.413	0.347	0.373	0.358	0.379	0.374	6.7
1,2-Dibromoethane	0.285	0.263	0.274	0.268	0.275	0.273	3.0
Chlorobenzene	0.883	0.878	0.947	0.895	0.932	0.907	3.4
Ethylbenzene	1.558	1.407	1.515	1.406	1.447	1.467	4.6
m, p-Xylene	0.637	0.575	0.641	0.586	0.606	0.609	4.9
o-Xylene	0.681	0.576	0.611	0.555	0.556	0.596	8.9
Styrene	1.085	0.934	0.992	0.945	0.981	0.987	6.0
Bromoform	0.445	0.467	0.475	0.496	0.520	0.481	5.9
Isopropylbenzene	1.801	1.508	1.648	1.464	1.499	1.584	8.8
1,1,2,2-Tetrachloroethane	0.374	0.298	0.317	0.284	0.272	0.309	13.0
1,3-Dichlorobenzene	1.343	1.404	1.411	1.381	1.413	1.390	2.1
1,4-Dichlorobenzene	1.409	1.432	1.475	1.448	1.480	1.449	2.1
1,2-Dichlorobenzene	1.414	1.323	1.333	1.276	1.383	1.346	4.0
1,2-Dibromo-3-chloropropane	0.089	0.094	0.098	0.092	0.108	0.096	7.7
1,2,4-Trichlorobenzene	0.874	0.873	0.921	0.816	1.401	0.977	24.6
1,2,3-Trichlorobenzene	0.685	0.740	0.778	0.695	1.146	0.809	23.8
Vinyl Chloride-d3	0.411	0.389	0.418	0.378	0.373	0.394	5.1
Chloroethane-d5	0.189	0.158	0.180	0.189	0.180	0.179	7.0
1,1-Dichloroethene-d2	0.516	0.511	0.568	0.525	0.622	0.548	8.6
2-Butanone-d5	0.086	0.069	0.086	0.076	0.078	0.079	9.0
Chloroform-d	0.710	0.487	0.546	0.521	0.508	0.555	16.2
1,2-Dichloroethane-d4	0.384	0.314	0.339	0.318	0.316	0.334	8.8
Benzene-d6	1.345	1.054	1.223	1.174	1.434	1.246	11.9
1,2-Dichloropropane-d6	0.263	0.282	0.319	0.311	0.412	0.317	18.1
Toluene-d8	1.058	1.019	1.179	1.132	1.481	1.173	15.6
trans-1,3-Dichloropropene-d4	0.470	0.385	0.426	0.428	0.497	0.441	9.8
2-Hexanone-d5	0.124	0.112	0.111	0.110	0.107	0.113	5.7
1,1,2,2-Tetrachloroethane-d2	0.354	0.267	0.298	0.275	0.256	0.290	13.4
1,2-Dichlorobenzene-d4	0.937	0.795	0.845	0.814	0.828	0.844	6.6

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A04.D		
Lab Sample ID:	VSTD010PE	Client Sample ID:	VSTD010PE
Injection Date:	16-Dec-2015 08:55:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VSTD010PE		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Ical, Level: 3	ALS Bottle:	4
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	16-Dec-2015 09:47:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.105	2.105	0.000	17085	10.000	8.5579	M
2 Chloromethane	50.0	2.318	2.330	-0.012	34627	10.000	9.6881	
$ 3 Vinyl Chloride-d3	65.0	2.461	2.460	0.001	20716	10.000	9.8782	
4 Vinyl Chloride	62.0	2.472	2.472	0.000	29605	10.000	9.6694	
5 Bromomethane	94.0	2.840	2.852	-0.012	11935	10.000	10.059	
$ 6 Chloroethane-d5	69.0	2.935	2.935	0.000	8428	10.000	8.8383	
7 Chloroethane	64.0	2.970	2.970	0.000	8623	10.000	8.9625	
8 Trichlorofluoromethane	101.0	3.279	3.267	0.012	21515	10.000	8.9719	M
$ 9 1,1-Dichloroethene-d2	63.0	3.895	3.883	0.012	27184	10.000	9.3168	
10 1,1-Dichloroethene	96.0	3.907	3.907	0.000	13579	10.000	9.5133	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.931	3.931	0.000	10366	10.000	9.5524	
12 Acetone	43.0	3.943	3.943	0.000	5058	20.000	19.177	
13 Carbon Disulfide	76.0	4.180	4.180	0.000	37548	10.000	9.5384	
14 Methyl Acetate	43.0	4.322	4.322	0.000	10361	10.000	9.9211	
15 Methylene Chloride	84.0	4.453	4.453	0.000	13836	10.000	9.4058	
16 Methyl tert-Butyl Ether	73.0	4.773	4.773	0.000	40045	10.000	8.9379	
17 trans-1,2-Dichloroethene	96.0	4.785	4.785	0.000	15490	10.000	9.0573	
18 1,1-Dichloroethane	63.0	5.271	5.271	0.000	27177	10.000	9.2893	
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	7312	20.000	17.436	
20 2-Butanone	43.0	5.935	5.935	0.000	8294	20.000	18.579	
21 cis-1,2-Dichloroethene	96.0	5.935	5.935	0.000	16741	10.000	9.1513	
22 Bromochloromethane	128.0	6.220	6.220	0.000	8945	10.000	8.9240	
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	25908	10.000	8.7793	
24 Chloroform	83.0	6.303	6.303	0.000	27978	10.000	9.4984	
25 1,1,1-Trichloroethane	97.0	6.552	6.552	0.000	23346	10.000	9.0172	
26 Cyclohexane	56.0	6.635	6.635	0.000	26024	10.000	8.9295	

Report Date: 20-Dec-2015 12:53:15 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A04.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.753	6.753	0.000	23569	10.000	9.0379	
$ 28 1,2-Dichloroethane-d4	65.0	6.908	6.907	0.001	16728	10.000	9.4021	
$ 29 Benzene-d6	84.0	6.943	6.943	0.000	52793	10.000	8.4591	
30 Benzene	78.0	6.991	6.990	0.000	57643	10.000	9.2154	
31 1,2-Dichloroethane	62.0	6.991	6.990	0.000	21655	10.000	9.5118	
* 32 1,4-Difluorobenzene	114.0	7.417	7.429	-0.012	266010	50.000	50.000	
33 Trichloroethene	95.0	7.761	7.761	0.000	15507	10.000	8.8740	
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	14139	10.000	8.8981	
35 Methylcyclohexane	83.0	8.022	8.022	0.000	26896	10.000	9.0754	
36 1,2-Dichloropropane	63.0	8.046	8.034	0.012	13891	10.000	9.2882	M
39 Bromodichloromethane	83.0	8.354	8.354	0.000	19956	10.000	9.2423	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	19261	10.000	8.7184	
41 cis-1,3-Dichloropropene	75.0	8.840	8.852	-0.012	23730	10.000	9.2623	
42 4-Methyl-2-pentanone	43.0	8.995	8.994	0.001	22767	20.000	20.838	
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	51021	10.000	8.6811	
44 Toluene	91.0	9.208	9.208	0.000	60869	10.000	9.0478	
45 trans-1,3-Dichloropropene	75.0	9.410	9.409	0.001	20860	10.000	9.1175	
46 1,1,2-Trichloroethane	97.0	9.599	9.599	0.000	11818	10.000	9.4910	
47 Tetrachloroethene	164.0	9.765	9.765	0.000	15940	10.000	9.0997	
$ 48 2-Hexanone-d5	63.0	9.765	9.777	-0.012	11183	20.000	19.796	
49 2-Hexanone	43.0	9.813	9.825	-0.012	15774	20.000	20.184	
50 Dibromochloromethane	129.0	9.979	9.979	0.000	17357	10.000	9.2735	
51 1,2-Dibromoethane	107.0	10.109	10.109	0.000	13185	10.000	9.6390	
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	250423	50.000	50.000	
53 Chlorobenzene	112.0	10.536	10.536	0.000	43995	10.000	9.6859	
54 Ethylbenzene	91.0	10.619	10.619	0.000	70473	10.000	9.5944	
55 m+p-Xylenes	106.0	10.726	10.726	0.000	28796	10.000	9.4415	
56 o-Xylene	106.0	11.058	11.058	0.000	28843	10.000	9.6704	
57 Styrene	104.0	11.070	11.070	0.000	46798	10.000	9.4628	
58 Bromoform	173.0	11.236	11.236	0.000	13259	10.000	9.7114	
59 Isopropylbenzene	105.0	11.354	11.354	0.000	75517	10.000	9.5195	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	13391	10.000	9.2207	
61 1,1,2,2-Tetrachloroethane	83.0	11.580	11.580	0.000	14938	10.000	9.6480	
62 1,3-Dichlorobenzene	146.0	12.327	12.327	0.000	39905	10.000	10.100	
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	142070	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.386	12.386	0.000	40687	10.000	9.8840	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	22583	10.000	9.4193	
66 1,2-Dichlorobenzene	146.0	12.659	12.659	0.000	37594	10.000	9.8311	
67 1,2-Dibromo-3-chloropropane	75.0	13.193	13.192	0.000	2658	10.000	9.7148	
68 1,2,4-Trichlorobenzene	180.0	13.762	13.762	0.000	24797	10.000	8.9330	
69 1,2,3-Trichlorobenzene	180.0	14.117	14.117	0.000	21039	10.000	9.1544	

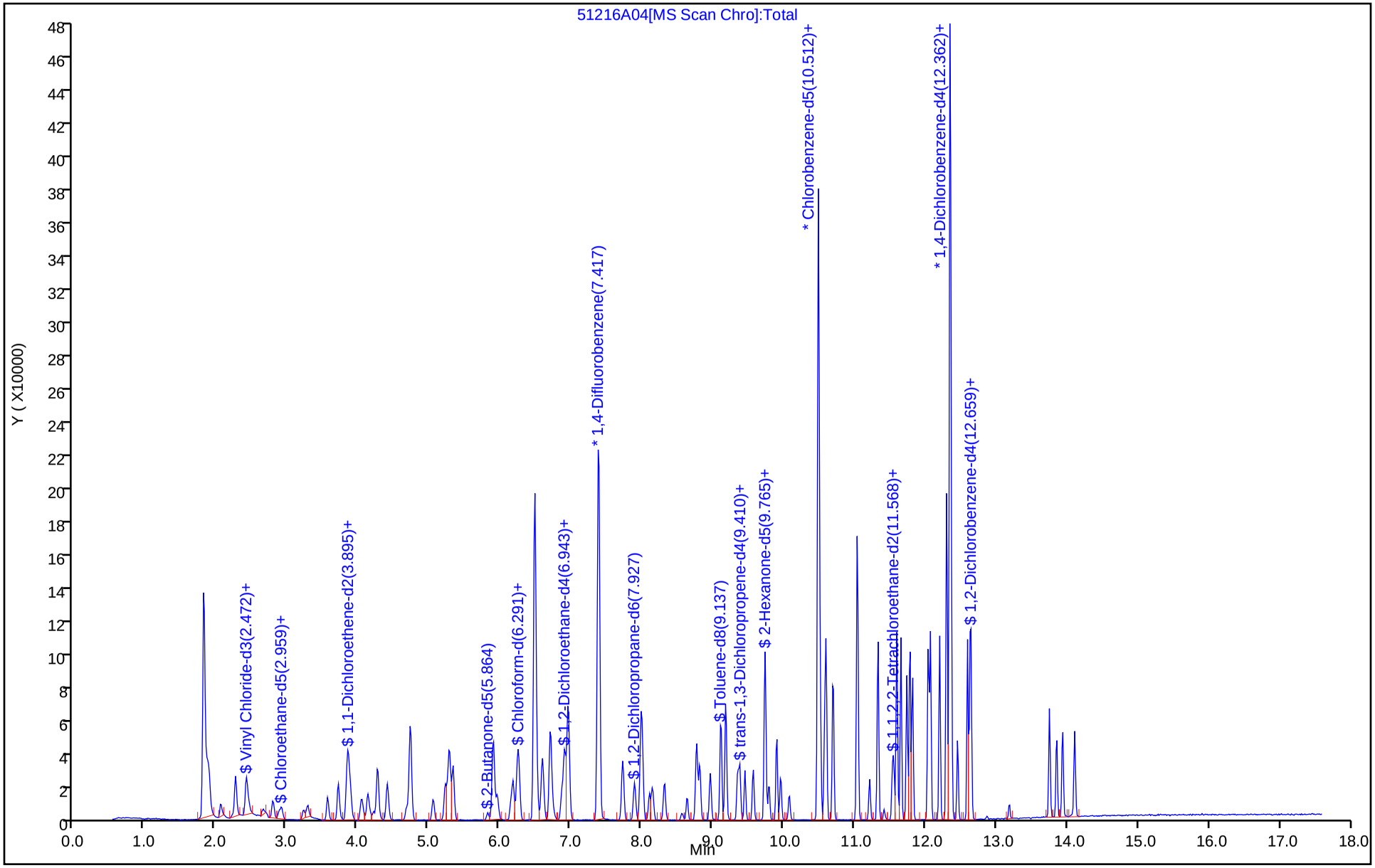
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A04.D				
Injection Date:	16-Dec-2015 08:55:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD010PE	Lab ID:	VSTD010PE		
Sample Info:	5121615.b, VSTD010PE				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 20-Dec-2015 12:53:15 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

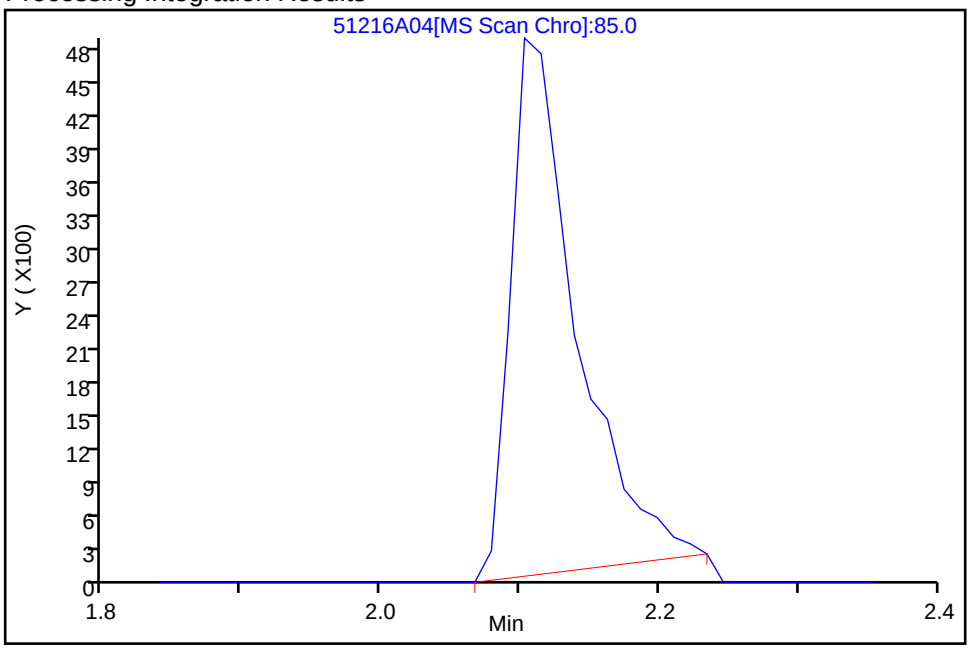
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A04.D		
Injection Date:	16-Dec-2015 08:55:30	Inst. ID:	msd5.i
Client ID:	VSTD010PE	Lab ID:	VSTD010PE
Sample Info:	5121615.b, VSTD010PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 Dichlorodifluoromethane, CAS: 75-71-8

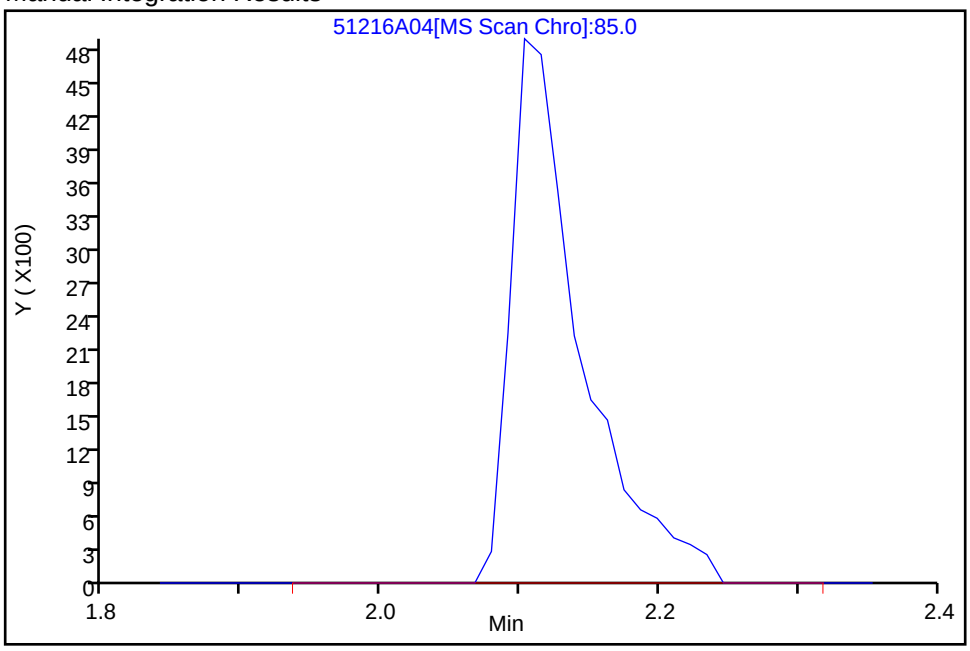
Processing Integration Results

RT: 2.105
Area: 15730
Amount: 8.5784
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 2.105
Area: 17085
Amount: 8.5579
Amount Units: ug/L



Data Editor: pap, 16-Dec-2015 09:46:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 20-Dec-2015 12:53:15 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

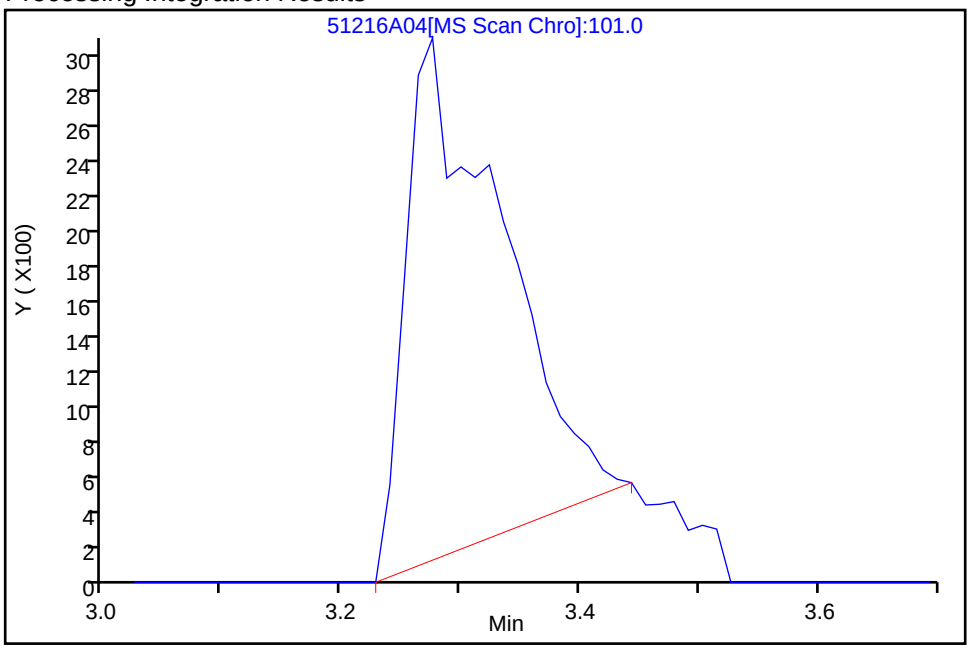
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A04.D		
Injection Date:	16-Dec-2015 08:55:30	Inst. ID:	msd5.i
Client ID:	VSTD010PE	Lab ID:	VSTD010PE
Sample Info:	5121615.b, VSTD010PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

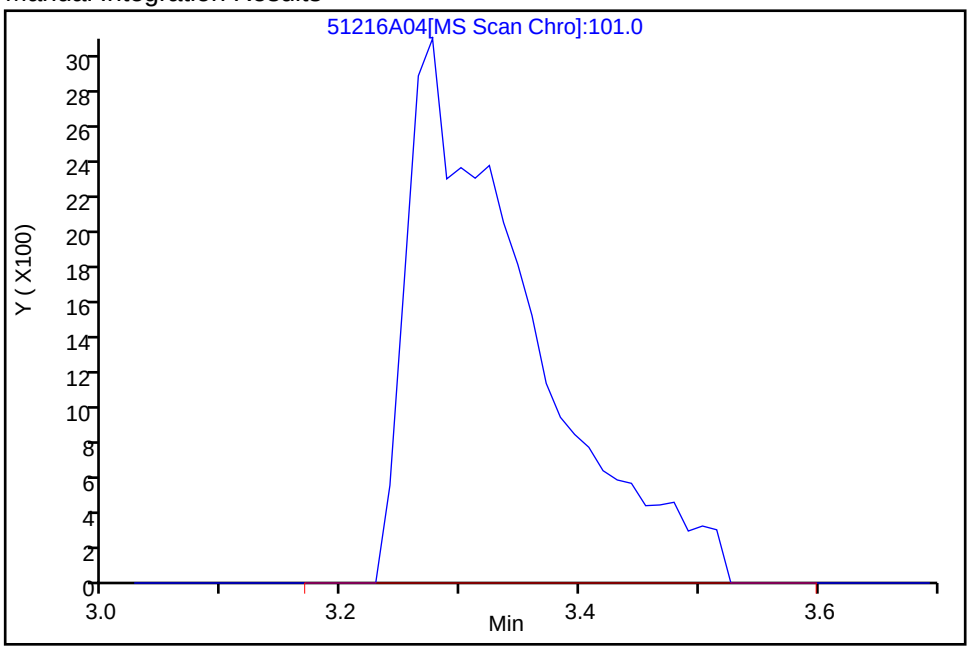
Processing Integration Results

RT: 3.279
Area: 16157
Amount: 10.428
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.279
Area: 21515
Amount: 8.9719
Amount Units: ug/L



Data Editor: pap, 16-Dec-2015 09:46:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 20-Dec-2015 12:53:15 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

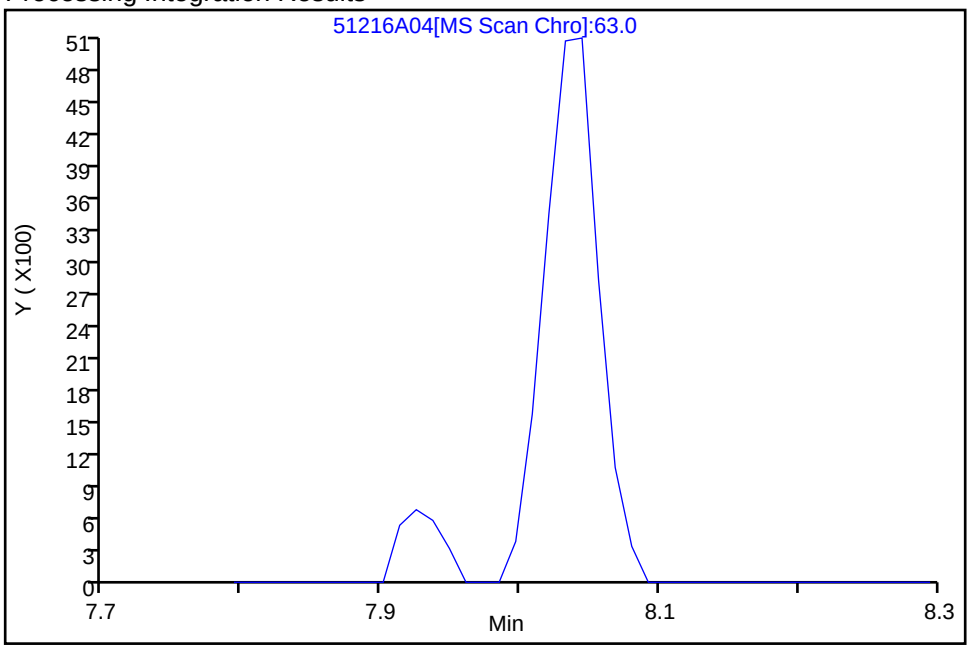
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A04.D		
Injection Date:	16-Dec-2015 08:55:30	Inst. ID:	msd5.i
Client ID:	VSTD010PE	Lab ID:	VSTD010PE
Sample Info:	5121615.b, VSTD010PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

36 1,2-Dichloropropane, CAS: 78-87-5

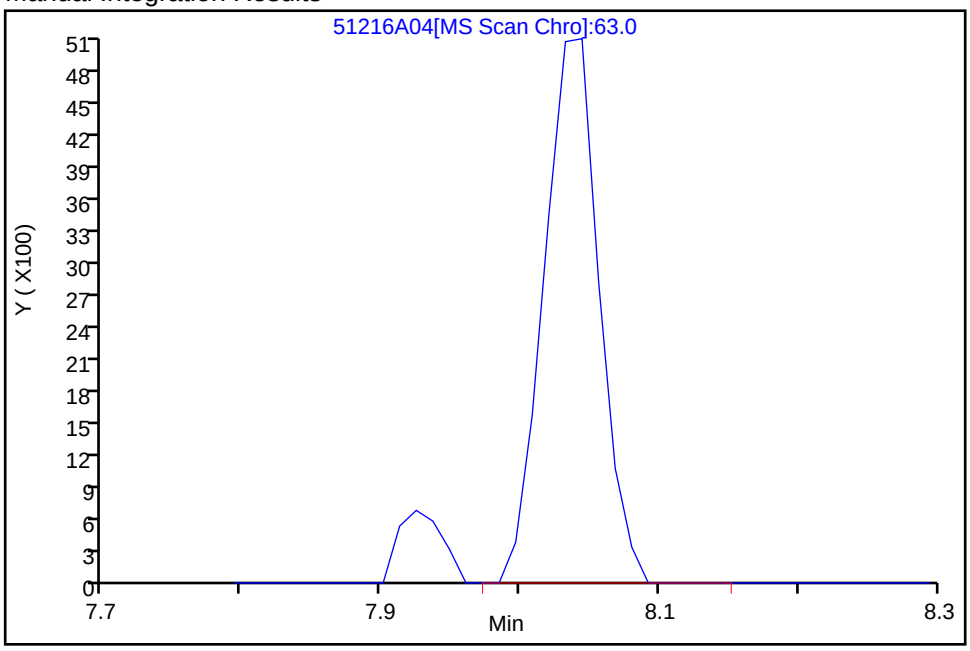
Processing Integration Results

Not Detected
8.034



Manual Integration Results

RT:	8.046
Area:	13891
Amount:	9.2882
Amount Units:	ug/L



Data Editor: pap, 16-Dec-2015 09:47:30
Audit Action: Mint
Audit Reason: NOID

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A05.D		
Lab Sample ID:	VSTD050PE	Client Sample ID:	VSTD050PE
Injection Date:	16-Dec-2015 09:16:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VSTD050PE		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Ical, Level: 4	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	16-Dec-2015 09:44:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.105	2.105	0.000	108820	50.000	53.865	
2 Chloromethane	50.0	2.330	2.330	0.000	196451	50.000	54.315	
$ 3 Vinyl Chloride-d3	65.0	2.460	2.460	0.000	112620	50.000	53.068	
4 Vinyl Chloride	62.0	2.472	2.472	0.000	168687	50.000	54.445	
5 Bromomethane	94.0	2.852	2.852	0.000	62438	50.000	52.004	
$ 6 Chloroethane-d5	69.0	2.935	2.935	0.000	48463	50.000	50.222	
7 Chloroethane	64.0	2.970	2.970	0.000	48806	50.000	50.129	
8 Trichlorofluoromethane	101.0	3.267	3.267	0.000	133029	50.000	54.820	M
$ 9 1,1-Dichloroethene-d2	63.0	3.883	3.883	0.000	152987	50.000	51.815	
10 1,1-Dichloroethene	96.0	3.907	3.907	0.000	74944	50.000	51.886	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.931	3.931	0.000	56945	50.000	51.856	
12 Acetone	43.0	3.943	3.943	0.000	31426	100.00	117.74	
13 Carbon Disulfide	76.0	4.180	4.180	0.000	199392	50.000	50.055	
14 Methyl Acetate	43.0	4.322	4.322	0.000	55978	50.000	52.969	
15 Methylene Chloride	84.0	4.453	4.453	0.000	75822	50.000	50.936	
16 Methyl tert-Butyl Ether	73.0	4.773	4.773	0.000	217444	50.000	47.960	
17 trans-1,2-Dichloroethene	96.0	4.785	4.785	0.000	82699	50.000	47.785	
18 1,1-Dichloroethane	63.0	5.271	5.271	0.000	146378	50.000	49.443	
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	46105	100.00	108.64	
20 2-Butanone	43.0	5.935	5.935	0.000	46361	100.00	102.63	
21 cis-1,2-Dichloroethene	96.0	5.935	5.935	0.000	91019	50.000	49.167	
22 Bromochloromethane	128.0	6.220	6.220	0.000	48591	50.000	47.905	
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	147103	50.000	49.260	
24 Chloroform	83.0	6.303	6.303	0.000	146231	50.000	49.059	
25 1,1,1-Trichloroethane	97.0	6.552	6.552	0.000	124966	50.000	49.099	
26 Cyclohexane	56.0	6.635	6.635	0.000	142713	50.000	49.812	

Report Date: 20-Dec-2015 12:53:16 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A05.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.753	6.753	0.000	129294	50.000	50.434	
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	91165	50.000	50.635	
$ 29 Benzene-d6	84.0	6.943	6.943	0.000	301163	50.000	49.087	
30 Benzene	78.0	6.990	6.990	0.000	307381	50.000	49.988	
31 1,2-Dichloroethane	62.0	6.990	6.990	0.000	118633	50.000	51.494	
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	269186	50.000	50.000	
33 Trichloroethene	95.0	7.761	7.761	0.000	84905	50.000	49.424	
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	78453	50.000	50.223	
35 Methylcyclohexane	83.0	8.022	8.022	0.000	149053	50.000	51.160	
36 1,2-Dichloropropane	63.0	8.034	8.034	0.000	74940	50.000	50.972	
39 Bromodichloromethane	83.0	8.354	8.354	0.000	110236	50.000	51.933	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	104913	50.000	48.306	
41 cis-1,3-Dichloropropene	75.0	8.852	8.852	0.000	128544	50.000	51.038	
42 4-Methyl-2-pentanone	43.0	8.994	8.994	0.000	114469	100.00	106.57	
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	290147	50.000	50.218	
44 Toluene	91.0	9.208	9.208	0.000	325715	50.000	49.249	
45 trans-1,3-Dichloropropene	75.0	9.409	9.409	0.000	111814	50.000	49.713	
46 1,1,2-Trichloroethane	97.0	9.599	9.599	0.000	62452	50.000	51.019	
47 Tetrachloroethene	164.0	9.765	9.765	0.000	87330	50.000	50.713	
$ 48 2-Hexanone-d5	63.0	9.777	9.777	0.000	54760	100.00	98.605	
49 2-Hexanone	43.0	9.825	9.825	0.000	78724	100.00	102.47	
50 Dibromochloromethane	129.0	9.979	9.979	0.000	91725	50.000	49.851	
51 1,2-Dibromoethane	107.0	10.109	10.109	0.000	67523	50.000	50.213	
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	246183	50.000	50.000	
53 Chlorobenzene	112.0	10.536	10.536	0.000	233140	50.000	52.212	
54 Ethylbenzene	91.0	10.619	10.619	0.000	372897	50.000	51.641	
55 m+p-Xylenes	106.0	10.726	10.726	0.000	157777	50.000	52.622	
56 o-Xylene	106.0	11.058	11.058	0.000	150384	50.000	51.289	
57 Styrene	104.0	11.070	11.070	0.000	244146	50.000	50.218	
58 Bromoform	173.0	11.236	11.236	0.000	68674	50.000	49.405	
59 Isopropylbenzene	105.0	11.354	11.354	0.000	405620	50.000	52.012	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	73426	50.000	51.430	
61 1,1,2,2-Tetrachloroethane	83.0	11.580	11.580	0.000	78123	50.000	51.326	
62 1,3-Dichlorobenzene	146.0	12.327	12.327	0.000	204076	50.000	50.735	
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	144643	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.386	12.386	0.000	213414	50.000	50.922	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	122185	50.000	50.056	
66 1,2-Dichlorobenzene	146.0	12.659	12.659	0.000	192838	50.000	49.532	
67 1,2-Dibromo-3-chloropropane	75.0	13.192	13.192	0.000	14239	50.000	51.117	
68 1,2,4-Trichlorobenzene	180.0	13.762	13.762	0.000	133218	50.000	47.137	
69 1,2,3-Trichlorobenzene	180.0	14.117	14.117	0.000	112476	50.000	48.069	

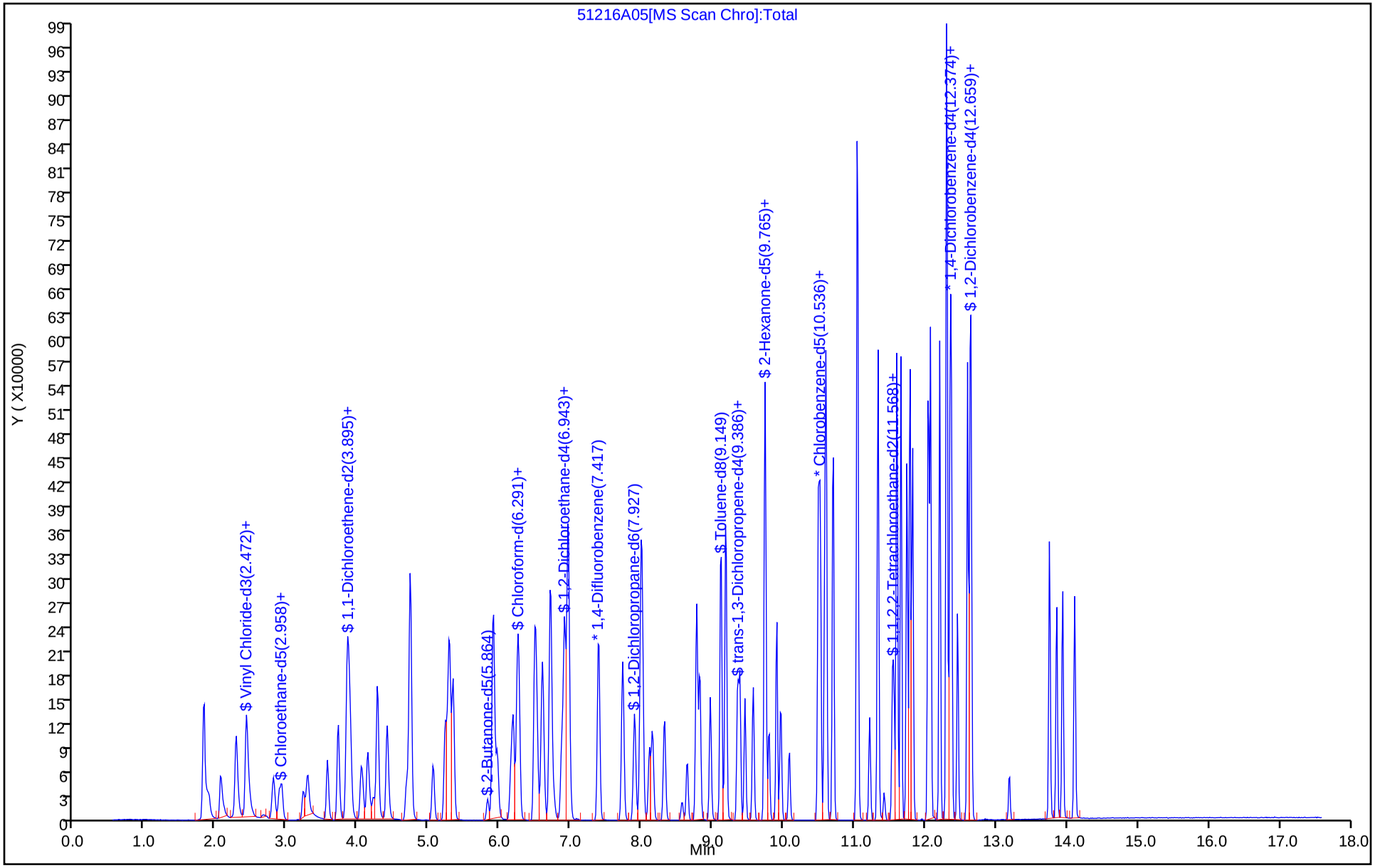
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A05.D				
Injection Date:	16-Dec-2015 09:16:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD050PE	Lab ID:	VSTD050PE		
Sample Info:	5121615.b, VSTD050PE				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 20-Dec-2015 12:53:16 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

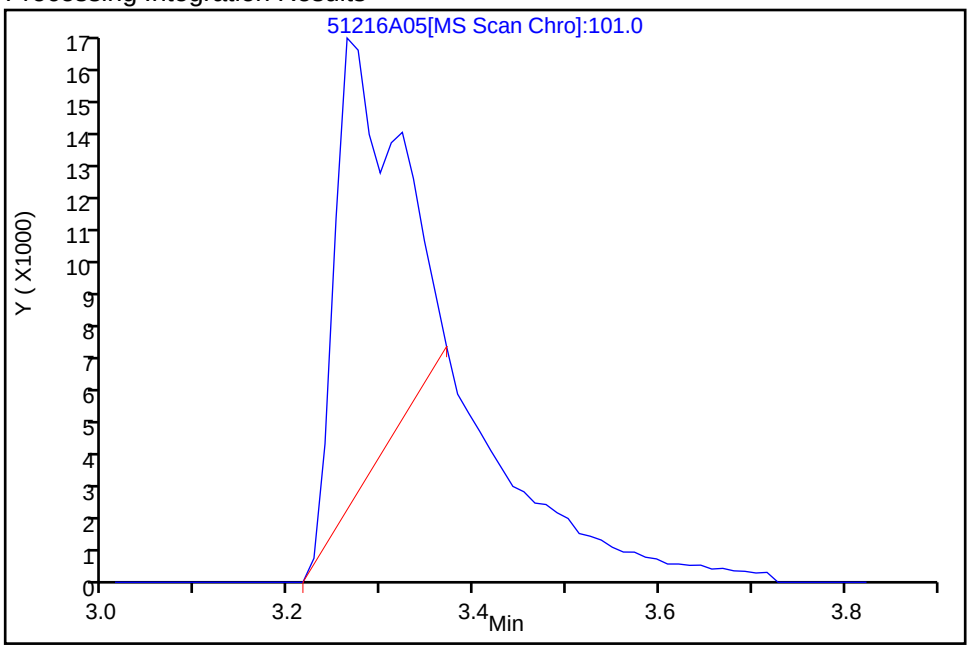
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A05.D		
Injection Date:	16-Dec-2015 09:16:30	Inst. ID:	msd5.i
Client ID:	VSTD050PE	Lab ID:	VSTD050PE
Sample Info:	5121615.b, VSTD050PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

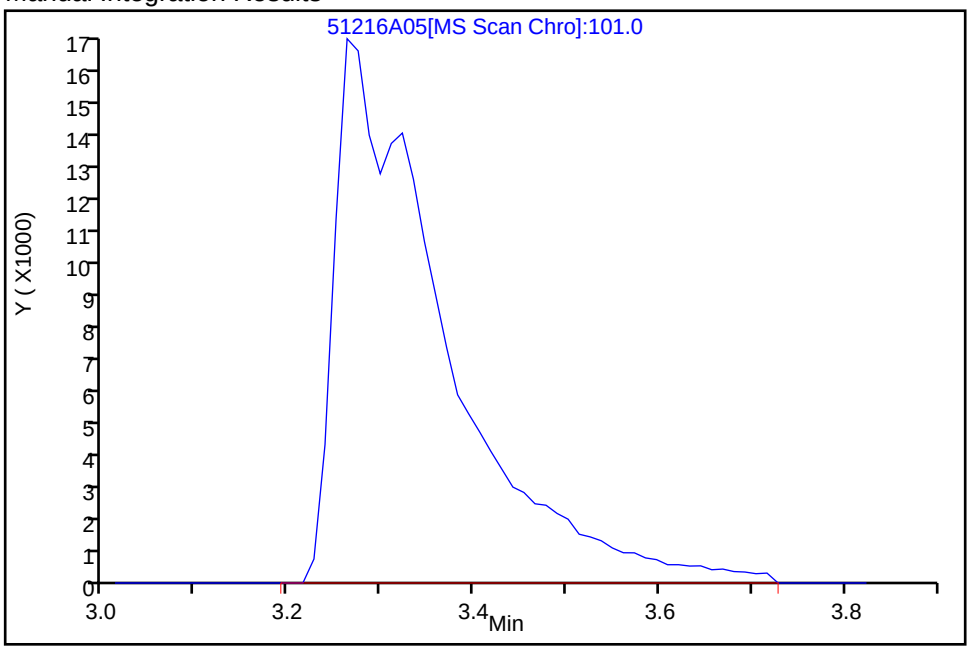
Processing Integration Results

RT: 3.267
Area: 62983
Amount: 50.000
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.267
Area: 133029
Amount: 54.820
Amount Units: ug/L



Data Editor: pap, 16-Dec-2015 09:44:30
Audit Action: Mint
Audit Reason: IAI

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A06.D		
Lab Sample ID:	VSTD100PE	Client Sample ID:	VSTD100PE
Injection Date:	16-Dec-2015 09:38:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VSTD100PE		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Ical, Level: 5	ALS Bottle:	6
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	16-Dec-2015 09:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.105	2.105	0.000	199715	100.00	98.472	
2 Chloromethane	50.0	2.330	2.330	0.000	344408	100.00	94.852	
$ 3 Vinyl Chloride-d3	65.0	2.472	2.460	0.012	204502	100.00	95.988	
4 Vinyl Chloride	62.0	2.472	2.472	0.000	292084	100.00	93.905	
5 Bromomethane	94.0	2.852	2.852	0.000	107229	100.00	88.962	
$ 6 Chloroethane-d5	69.0	2.935	2.935	0.000	102161	100.00	105.46	
7 Chloroethane	64.0	2.970	2.970	0.000	103222	100.00	105.61	
8 Trichlorofluoromethane	101.0	3.279	3.267	0.012	245912	100.00	100.94	M
$ 9 1,1-Dichloroethene-d2	63.0	3.883	3.883	0.000	283722	100.00	95.719	
10 1,1-Dichloroethene	96.0	3.907	3.907	0.000	136491	100.00	94.128	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.931	3.931	0.000	106126	100.00	96.266	
12 Acetone	43.0	3.943	3.943	0.000	52814	200.00	197.10	
13 Carbon Disulfide	76.0	4.180	4.180	0.000	365193	100.00	91.319	
14 Methyl Acetate	43.0	4.322	4.322	0.000	103313	100.00	97.379	
15 Methylene Chloride	84.0	4.453	4.453	0.000	138397	100.00	92.611	
16 Methyl tert-Butyl Ether	73.0	4.773	4.773	0.000	397553	100.00	87.343	
17 trans-1,2-Dichloroethene	96.0	4.785	4.785	0.000	151417	100.00	87.151	
18 1,1-Dichloroethane	63.0	5.271	5.271	0.000	263779	100.00	88.750	
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	82640	200.00	193.97	
20 2-Butanone	43.0	5.935	5.935	0.000	80565	200.00	177.65	
21 cis-1,2-Dichloroethene	96.0	5.947	5.935	0.012	167052	100.00	89.888	
22 Bromochloromethane	128.0	6.220	6.220	0.000	89164	100.00	87.563	
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	281678	100.00	93.957	
24 Chloroform	83.0	6.303	6.303	-0.001	266695	100.00	89.125	
25 1,1,1-Trichloroethane	97.0	6.552	6.552	0.000	228729	100.00	91.729	
26 Cyclohexane	56.0	6.635	6.635	0.000	255329	100.00	90.966	

Report Date: 20-Dec-2015 12:53:16 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A06.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.753	6.753	0.000	233950	100.00	93.148	
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	172059	100.00	95.193	
$ 29 Benzene-d6	84.0	6.943	6.943	0.000	566299	100.00	94.215	
30 Benzene	78.0	6.990	6.990	0.000	562358	100.00	93.349	
31 1,2-Dichloroethane	62.0	7.002	6.990	0.012	222184	100.00	96.066	
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	270239	50.000	50.000	
33 Trichloroethene	95.0	7.761	7.761	0.000	158475	100.00	94.162	
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	149989	100.00	98.009	
35 Methylcyclohexane	83.0	8.022	8.022	0.000	266240	100.00	93.277	
36 1,2-Dichloropropane	63.0	8.034	8.034	0.000	140406	100.00	97.479	
39 Bromodichloromethane	83.0	8.354	8.354	0.000	205216	100.00	98.683	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	206665	100.00	97.129	
41 cis-1,3-Dichloropropene	75.0	8.852	8.852	0.000	242374	100.00	98.228	
42 4-Methyl-2-pentanone	43.0	8.994	8.994	0.000	204021	200.00	193.89	
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	545855	100.00	96.434	
44 Toluene	91.0	9.208	9.208	0.000	602689	100.00	93.017	
45 trans-1,3-Dichloropropene	75.0	9.409	9.409	0.000	214271	100.00	97.241	
46 1,1,2-Trichloroethane	97.0	9.599	9.599	0.000	117354	100.00	97.857	
47 Tetrachloroethene	164.0	9.765	9.765	0.000	158389	100.00	93.883	
$ 48 2-Hexanone-d5	63.0	9.765	9.777	-0.012	106413	200.00	195.59	
49 2-Hexanone	43.0	9.824	9.825	-0.001	144396	200.00	191.85	
50 Dibromochloromethane	129.0	9.991	9.979	0.011	172549	100.00	95.721	
51 1,2-Dibromoethane	107.0	10.109	10.109	0.000	129488	100.00	98.289	
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	241184	50.000	50.000	
53 Chlorobenzene	112.0	10.536	10.536	0.000	431684	100.00	98.680	
54 Ethylbenzene	91.0	10.619	10.619	0.000	678415	100.00	95.899	
55 m+p-Xylenes	106.0	10.726	10.726	0.000	282638	100.00	96.220	
56 o-Xylene	106.0	11.058	11.058	0.000	267493	100.00	93.120	
57 Styrene	104.0	11.070	11.070	0.000	455990	100.00	95.735	
58 Bromoform	173.0	11.236	11.236	0.000	129798	100.00	103.20	
59 Isopropylbenzene	105.0	11.354	11.354	0.000	706353	100.00	92.452	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	132507	100.00	94.736	
61 1,1,2,2-Tetrachloroethane	83.0	11.580	11.580	0.000	136815	100.00	91.750	
62 1,3-Dichlorobenzene	146.0	12.327	12.327	0.000	361552	100.00	99.345	
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	130870	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.386	12.386	0.000	379010	100.00	99.952	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	213033	100.00	96.459	
66 1,2-Dichlorobenzene	146.0	12.659	12.659	0.000	334059	100.00	94.835	
67 1,2-Dibromo-3-chloropropane	75.0	13.192	13.192	0.000	24048	100.00	95.416	
68 1,2,4-Trichlorobenzene	180.0	13.762	13.762	0.000	213463	100.00	83.480	
69 1,2,3-Trichlorobenzene	180.0	14.117	14.117	0.000	181855	100.00	85.900	

QC Flag Legend

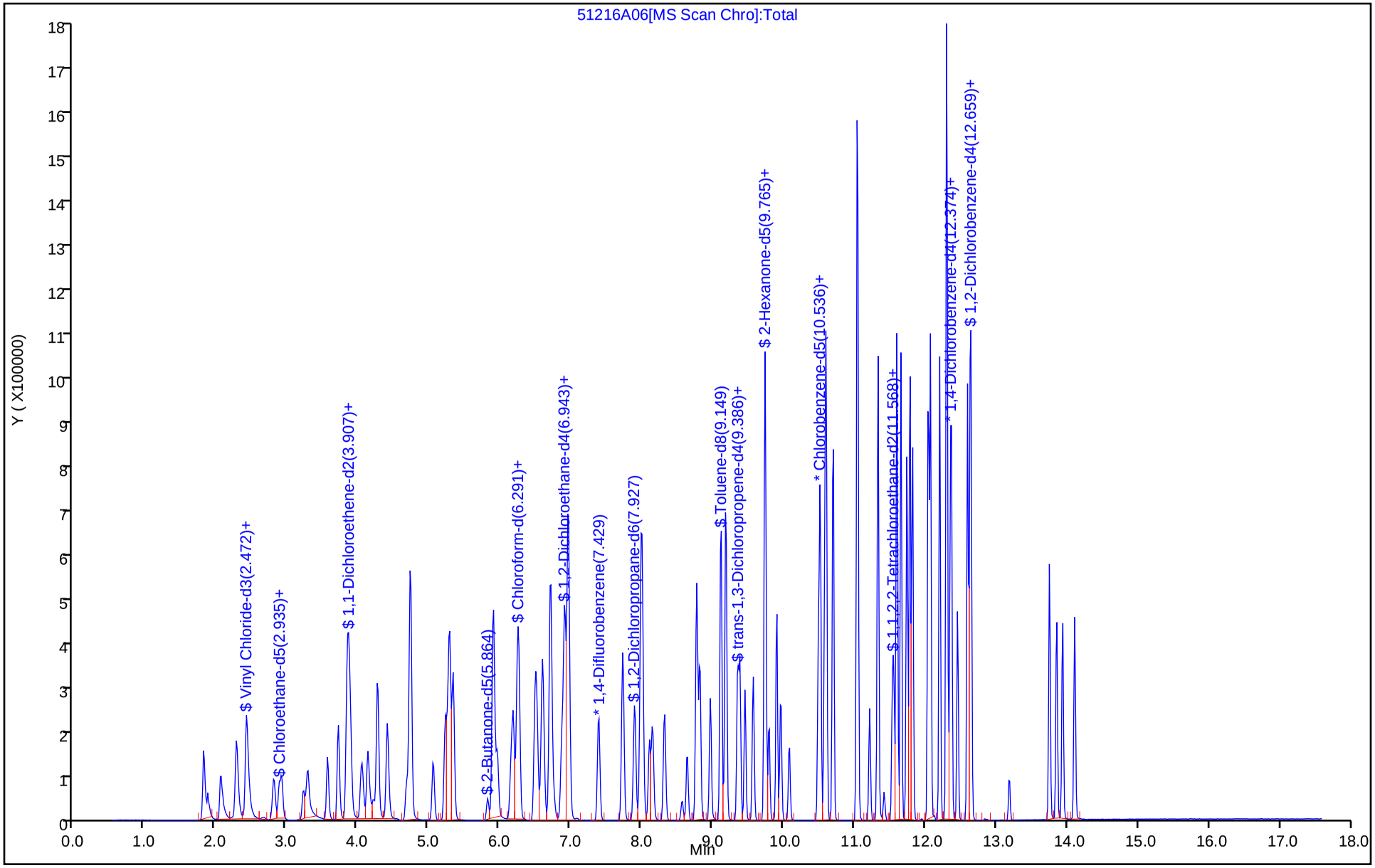
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 20-Dec-2015 12:53:16 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A06.D				
Injection Date:	16-Dec-2015 09:38:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD100PE	Lab ID:	VSTD100PE		
Sample Info:	5121615.b, VSTD100PE				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 20-Dec-2015 12:53:16 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

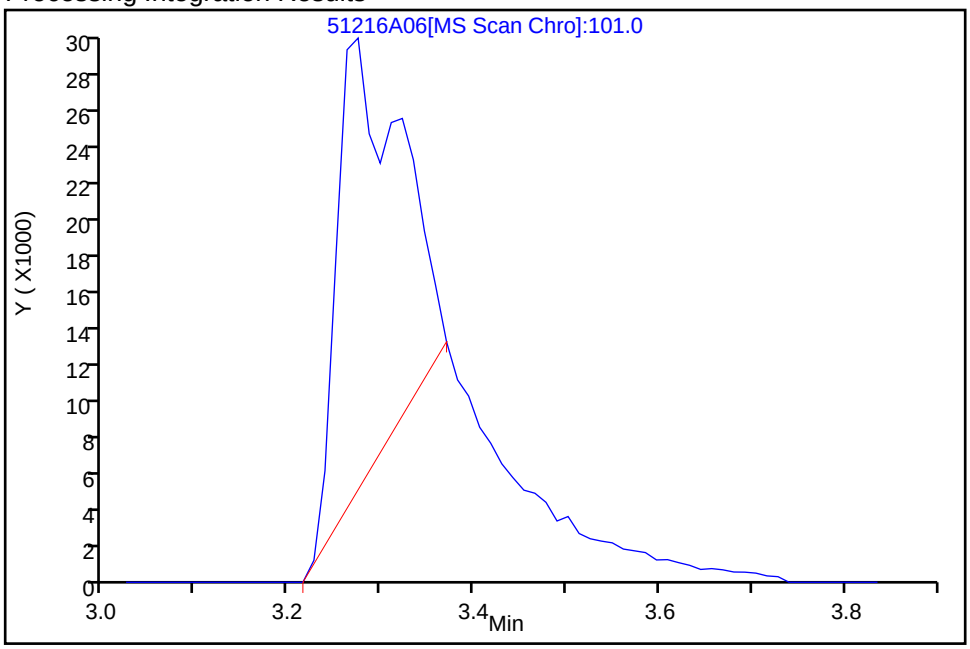
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A06.D		
Injection Date:	16-Dec-2015 09:38:30	Inst. ID:	msd5.i
Client ID:	VSTD100PE	Lab ID:	VSTD100PE
Sample Info:	5121615.b, VSTD100PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

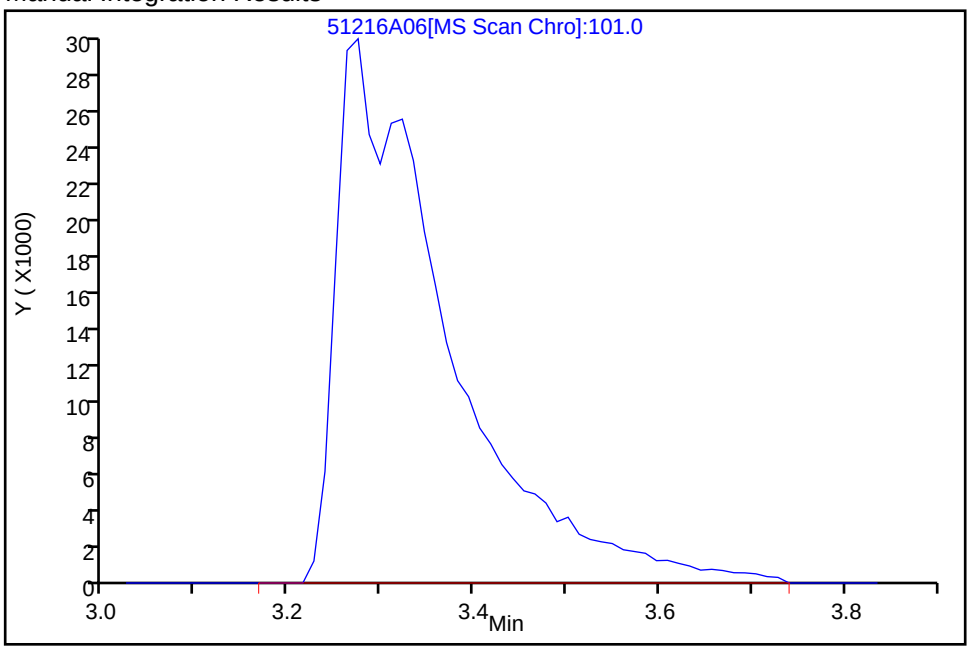
Processing Integration Results

RT: 3.279
Area: 114233
Amount: 61.293
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.279
Area: 245912
Amount: 100.94
Amount Units: ug/L



Data Editor: pap, 16-Dec-2015 09:58:30
Audit Action: Mint
Audit Reason: IAI

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A07.D		
Lab Sample ID:	VSTD200PE	Client Sample ID:	VSTD200PE
Injection Date:	16-Dec-2015 09:59:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VSTD200PE		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Ical, Level: 6	ALS Bottle:	7
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	16-Dec-2015 10:41:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.117	2.105	0.012	402386	200.00	222.15	
2 Chloromethane	50.0	2.342	2.330	0.012	638140	200.00	196.79	
$ 3 Vinyl Chloride-d3	65.0	2.472	2.460	0.012	360413	200.00	189.42	
4 Vinyl Chloride	62.0	2.472	2.472	0.000	530723	200.00	191.06	
5 Bromomethane	94.0	2.852	2.852	0.000	196461	200.00	182.51	
$ 6 Chloroethane-d5	69.0	2.935	2.935	0.000	173741	200.00	200.82	
7 Chloroethane	64.0	2.970	2.970	0.000	179367	200.00	205.48	
8 Trichlorofluoromethane	101.0	3.267	3.267	0.000	494283	200.00	227.18	M
$ 9 1,1-Dichloroethene-d2	63.0	3.895	3.883	0.012	600462	200.00	226.83	
10 1,1-Dichloroethene	96.0	3.907	3.907	0.000	304468	200.00	235.11	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.931	3.931	0.000	232748	200.00	236.40	
12 Acetone	43.0	3.943	3.943	0.000	106571	400.00	445.34	
13 Carbon Disulfide	76.0	4.180	4.180	0.000	794853	200.00	222.55	
14 Methyl Acetate	43.0	4.322	4.322	0.000	226091	200.00	238.62	
15 Methylene Chloride	84.0	4.453	4.453	0.000	300392	200.00	225.08	
16 Methyl tert-Butyl Ether	73.0	4.773	4.773	0.000	839501	200.00	206.52	
17 trans-1,2-Dichloroethene	96.0	4.785	4.785	0.000	328954	200.00	212.00	
18 1,1-Dichloroethane	63.0	5.271	5.271	0.000	573885	200.00	216.20	
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	149806	400.00	393.72	
20 2-Butanone	43.0	5.935	5.935	0.000	166737	400.00	411.67	
21 cis-1,2-Dichloroethene	96.0	5.947	5.935	0.012	336272	200.00	202.60	
22 Bromochloromethane	128.0	6.232	6.220	0.012	162647	200.00	178.85	
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	490738	200.00	183.29	
24 Chloroform	83.0	6.303	6.303	0.000	477953	200.00	178.85	
25 1,1,1-Trichloroethane	97.0	6.552	6.552	0.000	425883	200.00	226.75	
26 Cyclohexane	56.0	6.635	6.635	0.000	500586	200.00	236.78	

Report Date: 20-Dec-2015 12:53:17 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A07.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.753	6.753	0.000	432436	200.00	228.59	
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	305495	200.00	189.25	
$ 29 Benzene-d6	84.0	6.955	6.943	0.012	1041997	200.00	230.15	
30 Benzene	78.0	7.002	6.990	0.012	1021881	200.00	225.20	
31 1,2-Dichloroethane	62.0	7.002	6.990	0.012	407185	200.00	197.13	
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	241346	50.000	50.000	
33 Trichloroethene	95.0	7.761	7.761	0.000	330244	200.00	260.51	
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	299286	200.00	259.64	
35 Methylcyclohexane	83.0	8.022	8.022	0.000	542529	200.00	252.35	
36 1,2-Dichloropropane	63.0	8.046	8.034	0.012	281774	200.00	259.72	
39 Bromodichloromethane	83.0	8.354	8.354	0.000	358531	200.00	228.90	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.386	9.374	0.012	360838	200.00	225.15	
41 cis-1,3-Dichloropropene	75.0	8.852	8.852	0.000	463273	200.00	249.27	
42 4-Methyl-2-pentanone	43.0	8.995	8.994	0.001	357206	400.00	450.68	
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	1075816	200.00	252.33	
44 Toluene	91.0	9.220	9.208	0.012	1222701	200.00	250.54	
45 trans-1,3-Dichloropropene	75.0	9.410	9.409	0.001	392221	200.00	236.32	
46 1,1,2-Trichloroethane	97.0	9.599	9.599	0.000	181907	200.00	201.38	
47 Tetrachloroethene	164.0	9.765	9.765	0.000	254448	200.00	200.24	
$ 48 2-Hexanone-d5	63.0	9.777	9.777	0.000	155370	400.00	379.13	
49 2-Hexanone	43.0	9.825	9.825	0.000	206620	400.00	364.46	
50 Dibromochloromethane	129.0	9.991	9.979	0.012	275416	200.00	202.84	
51 1,2-Dibromoethane	107.0	10.109	10.109	0.000	199481	200.00	201.03	
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	181664	50.000	50.000	
53 Chlorobenzene	112.0	10.536	10.536	0.000	676932	200.00	205.44	
54 Ethylbenzene	91.0	10.619	10.619	0.000	1051160	200.00	197.27	
55 m+p-Xylenes	106.0	10.726	10.726	0.000	440279	200.00	198.99	
56 o-Xylene	106.0	11.058	11.058	0.000	403705	200.00	186.58	
57 Styrene	104.0	11.070	11.070	0.000	712984	200.00	198.74	
58 Bromoform	173.0	11.236	11.236	0.000	206646	200.00	216.42	
59 Isopropylbenzene	105.0	11.354	11.354	0.000	1089063	200.00	189.25	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	185883	200.00	176.44	
61 1,1,2,2-Tetrachloroethane	83.0	11.580	11.580	0.000	197691	200.00	176.01	
62 1,3-Dichlorobenzene	146.0	12.327	12.327	0.000	561526	200.00	203.23	
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	99359	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.386	12.386	0.000	588023	200.00	204.25	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	329111	200.00	196.28	
66 1,2-Dichlorobenzene	146.0	12.659	12.659	0.000	549470	200.00	205.46	
67 1,2-Dibromo-3-chloropropane	75.0	13.193	13.192	0.000	42968	200.00	224.55	
68 1,2,4-Trichlorobenzene	180.0	13.762	13.762	0.000	556835	200.00	286.83	
69 1,2,3-Trichlorobenzene	180.0	14.117	14.117	0.000	455501	200.00	283.39	

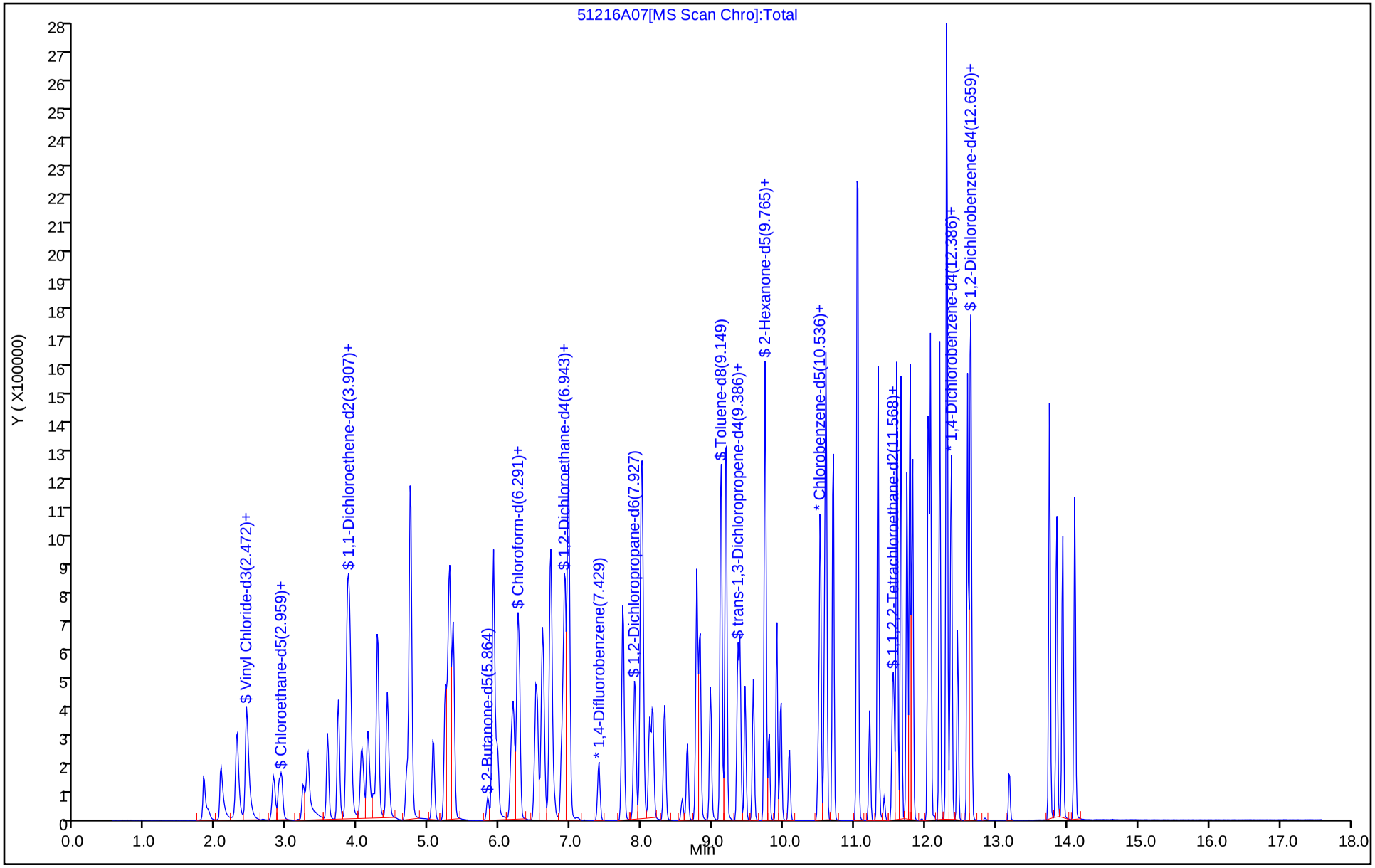
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A07.D				
Injection Date:	16-Dec-2015 09:59:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD200PE	Lab ID:	VSTD200PE		
Sample Info:	5121615.b, VSTD200PE				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 20-Dec-2015 12:53:17 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

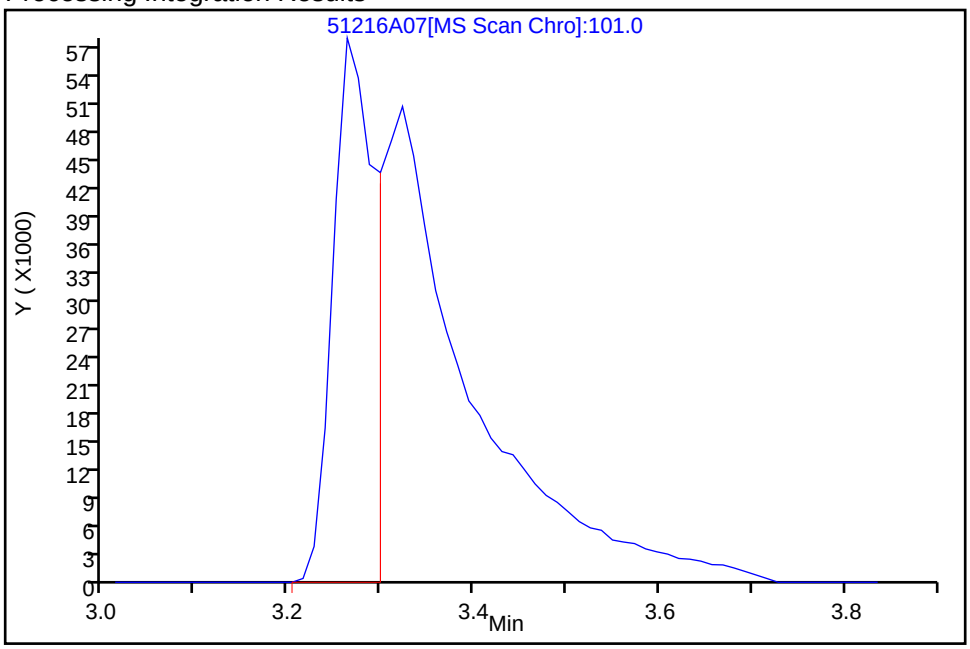
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A07.D		
Injection Date:	16-Dec-2015 09:59:30	Inst. ID:	msd5.i
Client ID:	VSTD200PE	Lab ID:	VSTD200PE
Sample Info:	5121615.b, VSTD200PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

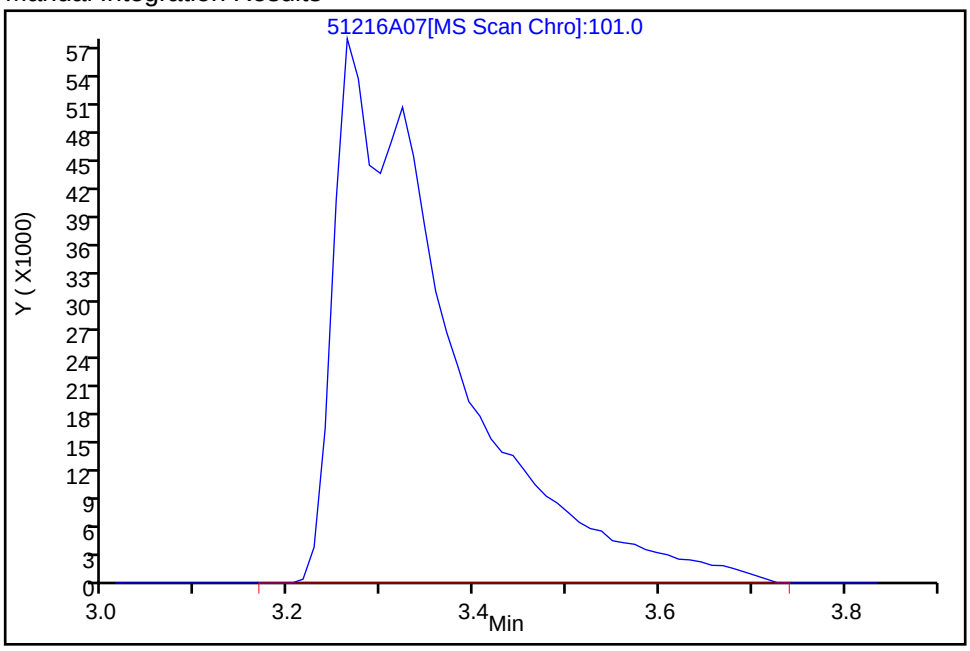
Processing Integration Results

RT: 3.267
Area: 167542
Amount: 96.604
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.267
Area: 494283
Amount: 227.18
Amount Units: ug/L



Data Editor: pap, 16-Dec-2015 10:41:30
Audit Action: Mint
Audit Reason: IAI

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A09.D		
Lab Sample ID:	VSTD005PE	Client Sample ID:	VSTD005PE
Injection Date:	16-Dec-2015 10:48:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VSTD005PE		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Ical, Level: 2	ALS Bottle:	9
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	16-Dec-2015 11:17:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.105	2.105	0.000	7277	5.0000	4.8571	
2 Chloromethane	50.0	2.318	2.330	-0.012	13578	5.0000	5.0621	
$ 3 Vinyl Chloride-d3	65.0	2.460	2.460	0.000	8214	5.0000	5.2191	
4 Vinyl Chloride	62.0	2.472	2.472	0.000	12061	5.0000	5.2491	
5 Bromomethane	94.0	2.840	2.852	-0.012	5128	5.0000	5.7592	
$ 6 Chloroethane-d5	69.0	2.935	2.935	0.000	3768	5.0000	5.2653	
7 Chloroethane	64.0	2.970	2.970	0.000	3674	5.0000	5.0884	
8 Trichlorofluoromethane	101.0	3.267	3.267	0.000	7748	5.0000	4.3053	M
$ 9 1,1-Dichloroethene-d2	63.0	3.883	3.883	0.000	10299	5.0000	4.7035	
10 1,1-Dichloroethene	96.0	3.895	3.907	-0.012	4789	5.0000	4.4708	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.919	3.931	-0.012	3514	5.0000	4.3149	
12 Acetone	43.0	3.943	3.943	0.000	1514	10.000	7.6488	M
13 Carbon Disulfide	76.0	4.168	4.180	-0.012	15053	5.0000	5.0955	
14 Methyl Acetate	43.0	4.322	4.322	0.000	3063	5.0000	3.9082	M
15 Methylene Chloride	84.0	4.441	4.453	-0.012	5460	5.0000	4.9460	
16 Methyl tert-Butyl Ether	73.0	4.773	4.773	0.000	20863	5.0000	6.2049	
17 trans-1,2-Dichloroethene	96.0	4.773	4.785	-0.012	7746	5.0000	6.0353	
18 1,1-Dichloroethane	63.0	5.259	5.271	-0.012	12226	5.0000	5.5685	
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	3423	10.000	10.876	M
20 2-Butanone	43.0	5.935	5.935	0.000	3777	10.000	11.274	
21 cis-1,2-Dichloroethene	96.0	5.935	5.935	0.000	8166	5.0000	5.9481	
22 Bromochloromethane	128.0	6.220	6.220	0.000	5189	5.0000	6.8982	
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	14183	5.0000	6.4042	
24 Chloroform	83.0	6.303	6.303	0.000	14186	5.0000	6.4175	
25 1,1,1-Trichloroethane	97.0	6.552	6.552	0.000	10394	5.0000	5.3262	
26 Cyclohexane	56.0	6.623	6.635	-0.012	11173	5.0000	5.0863	

Report Date: 20-Dec-2015 12:53:18 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A09.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.753	6.753	0.000	9957	5.0000	5.0656	
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	7670	5.0000	5.7444	
$ 29 Benzene-d6	84.0	6.943	6.943	0.000	25389	5.0000	5.3972	
30 Benzene	78.0	6.990	6.990	0.000	24026	5.0000	5.0960	
31 1,2-Dichloroethane	62.0	6.990	6.990	0.000	9163	5.0000	5.3631	M
* 32 1,4-Difluorobenzene	114.0	7.417	7.429	-0.012	199630	50.000	50.000	
33 Trichloroethene	95.0	7.761	7.761	0.000	5795	5.0000	4.3997	
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	4955	5.0000	4.1371	
35 Methylcyclohexane	83.0	8.022	8.022	0.000	9770	5.0000	4.3737	
36 1,2-Dichloropropane	63.0	8.034	8.034	0.000	4387	5.0000	3.8917	M
39 Bromodichloromethane	83.0	8.342	8.354	-0.012	7371	5.0000	4.5290	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	8867	5.0000	5.3249	
41 cis-1,3-Dichloropropene	75.0	8.852	8.852	0.000	7960	5.0000	4.1220	
42 4-Methyl-2-pentanone	43.0	8.994	8.994	0.000	6557	10.000	7.9621	
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	19969	5.0000	4.5077	M
44 Toluene	91.0	9.208	9.208	0.000	23513	5.0000	4.6369	
45 trans-1,3-Dichloropropene	75.0	9.409	9.409	0.000	8105	5.0000	4.6999	
46 1,1,2-Trichloroethane	97.0	9.599	9.599	0.000	4904	5.0000	5.2251	
47 Tetrachloroethene	164.0	9.765	9.765	0.000	7498	5.0000	5.6788	
$ 48 2-Hexanone-d5	63.0	9.765	9.777	-0.012	4677	10.000	10.984	
49 2-Hexanone	43.0	9.825	9.825	-0.001	6454	10.000	10.957	
50 Dibromochloromethane	129.0	9.979	9.979	0.000	7789	5.0000	5.5211	
51 1,2-Dibromoethane	107.0	10.109	10.109	0.000	5381	5.0000	5.2190	
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	188755	50.000	50.000	
53 Chlorobenzene	112.0	10.536	10.536	0.000	16659	5.0000	4.8659	
54 Ethylbenzene	91.0	10.619	10.619	0.000	29409	5.0000	5.3119	
55 m+p-Xylenes	106.0	10.726	10.726	0.000	12026	5.0000	5.2312	
56 o-Xylene	106.0	11.058	11.058	0.000	12849	5.0000	5.7154	
57 Styrene	104.0	11.070	11.070	0.000	20471	5.0000	5.4917	
58 Bromoform	173.0	11.236	11.236	0.000	5827	5.0000	4.6332	M
59 Isopropylbenzene	105.0	11.354	11.354	0.000	33994	5.0000	5.6852	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	6676	5.0000	6.0988	
61 1,1,2,2-Tetrachloroethane	83.0	11.580	11.580	0.000	7067	5.0000	6.0556	
62 1,3-Dichlorobenzene	146.0	12.327	12.327	0.000	17572	5.0000	4.8283	
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	130870	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.386	12.386	0.000	18436	5.0000	4.8619	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	12268	5.0000	5.5548	
66 1,2-Dichlorobenzene	146.0	12.659	12.659	0.000	18504	5.0000	5.2531	
67 1,2-Dibromo-3-chloropropane	75.0	13.192	13.192	0.000	1171	5.0000	4.6462	
68 1,2,4-Trichlorobenzene	180.0	13.762	13.762	0.000	11443	5.0000	4.4751	
69 1,2,3-Trichlorobenzene	180.0	14.117	14.117	0.000	8968	5.0000	4.2361	

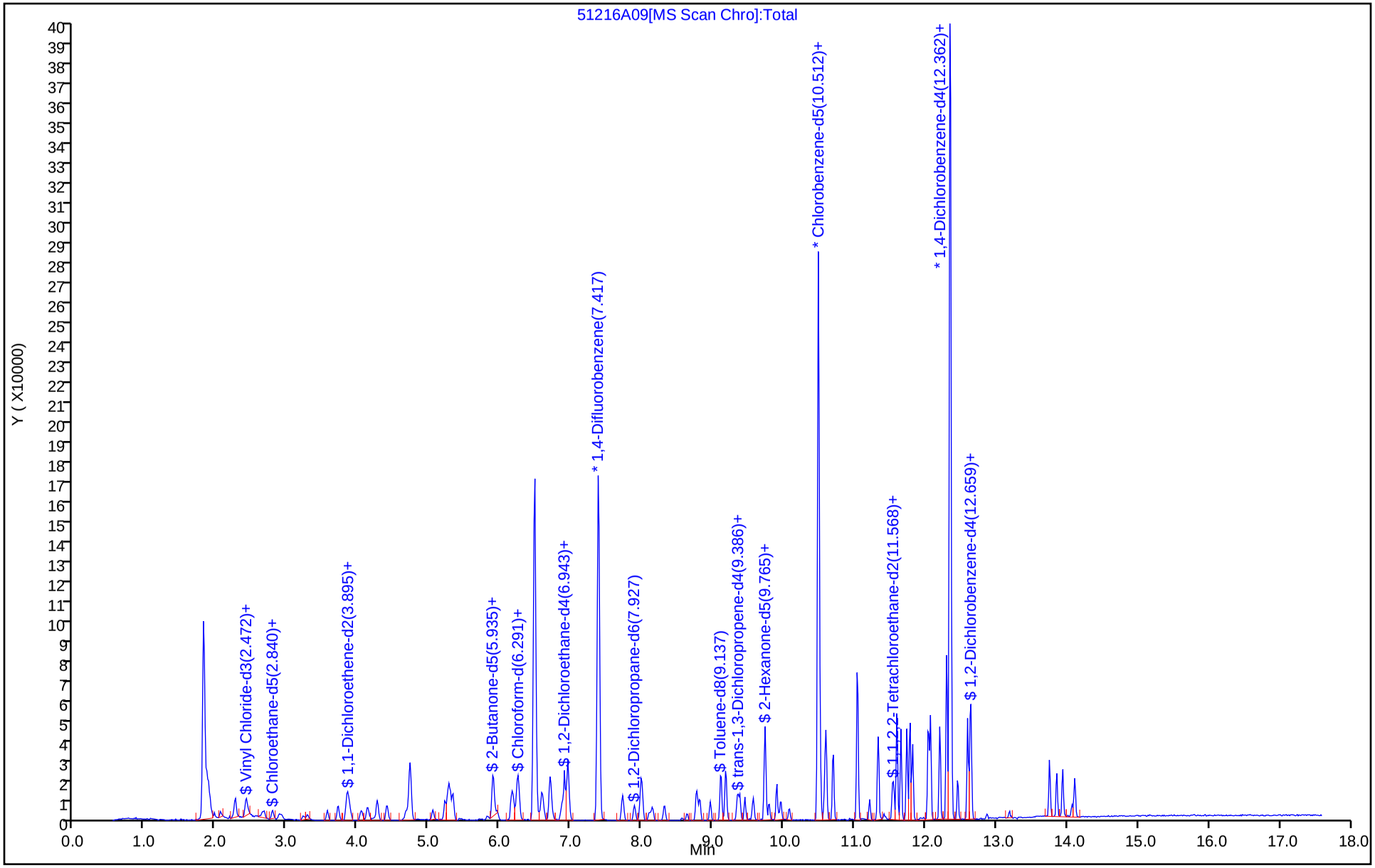
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A09.D				
Injection Date:	16-Dec-2015 10:48:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD005PE	Lab ID:	VSTD005PE		
Sample Info:	5121615.b, VSTD005PE				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 20-Dec-2015 12:53:18 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

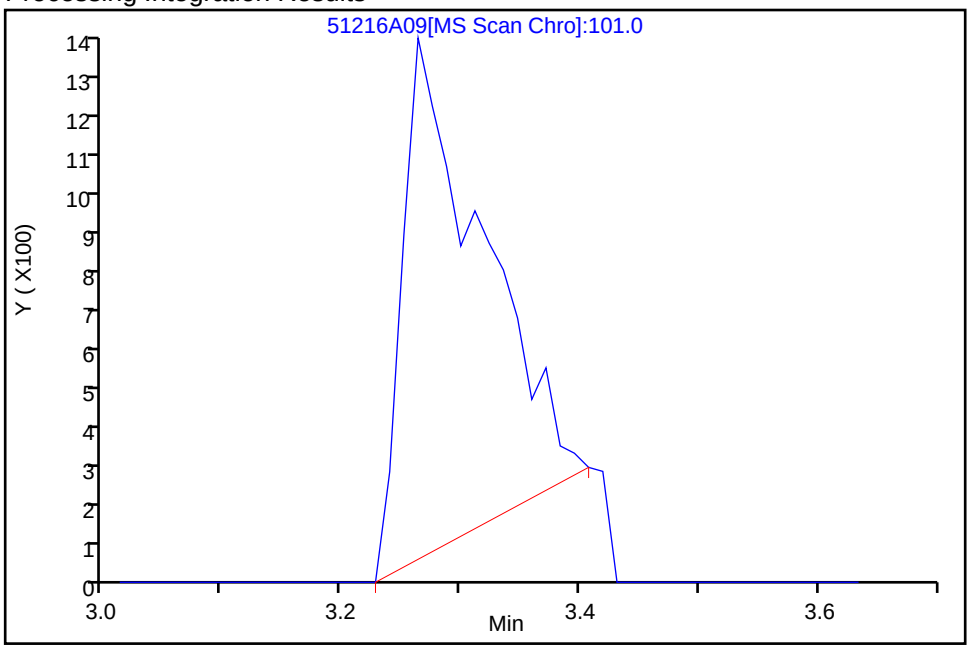
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A09.D		
Injection Date:	16-Dec-2015 10:48:30	Inst. ID:	msd5.i
Client ID:	VSTD005PE	Lab ID:	VSTD005PE
Sample Info:	5121615.b, VSTD005PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

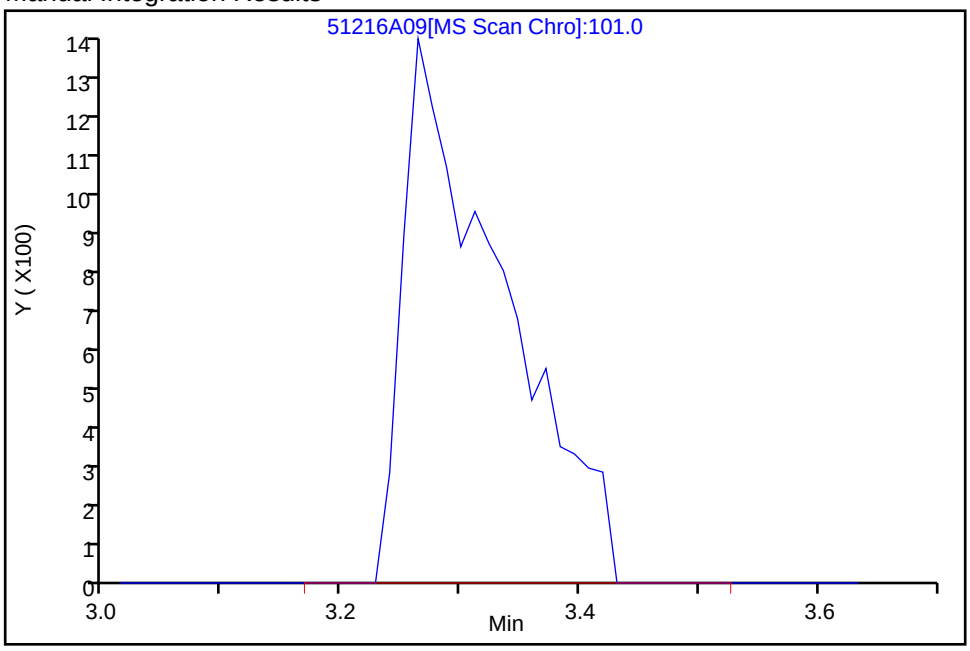
Processing Integration Results

RT: 3.267
Area: 5936
Amount: 3.4369
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.267
Area: 7748
Amount: 4.3053
Amount Units: ug/L



Data Editor: pap, 16-Dec-2015 11:16:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 20-Dec-2015 12:53:18 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

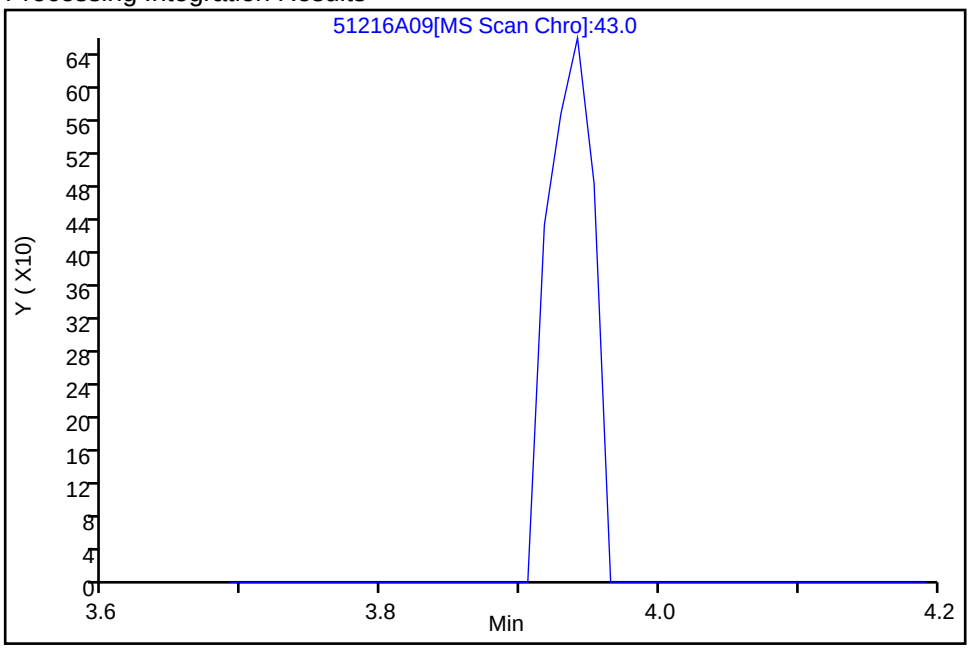
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A09.D		
Injection Date:	16-Dec-2015 10:48:30	Inst. ID:	msd5.i
Client ID:	VSTD005PE	Lab ID:	VSTD005PE
Sample Info:	5121615.b, VSTD005PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

12 Acetone, CAS: 67-64-1

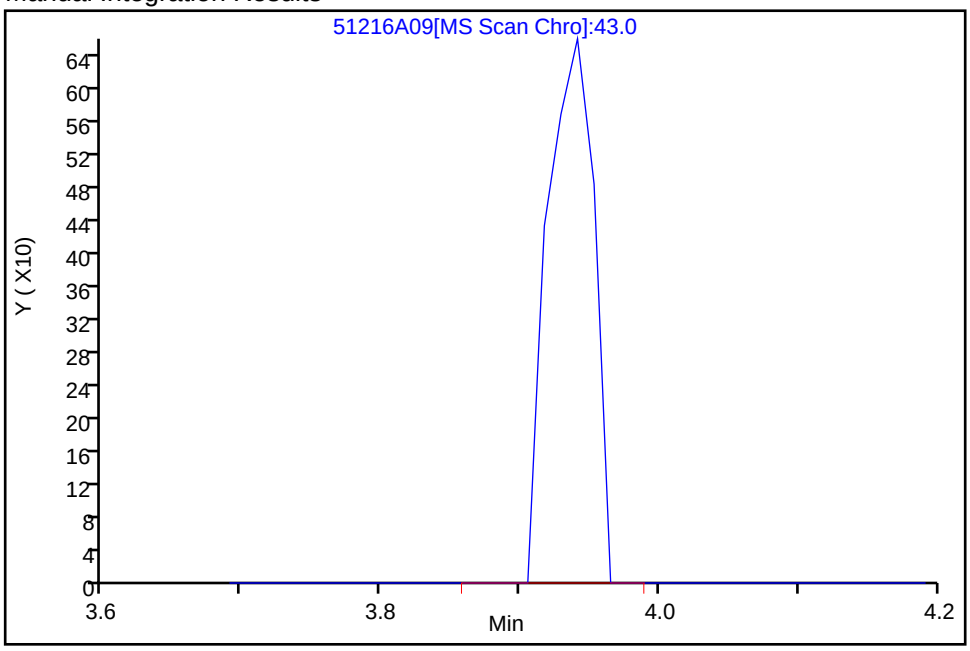
Not Detected
3.943

Processing Integration Results



Manual Integration Results

RT:	3.943
Area:	1514
Amount:	7.6488
Amount Units:	ug/L



Data Editor: pap, 16-Dec-2015 11:16:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 20-Dec-2015 12:53:18 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

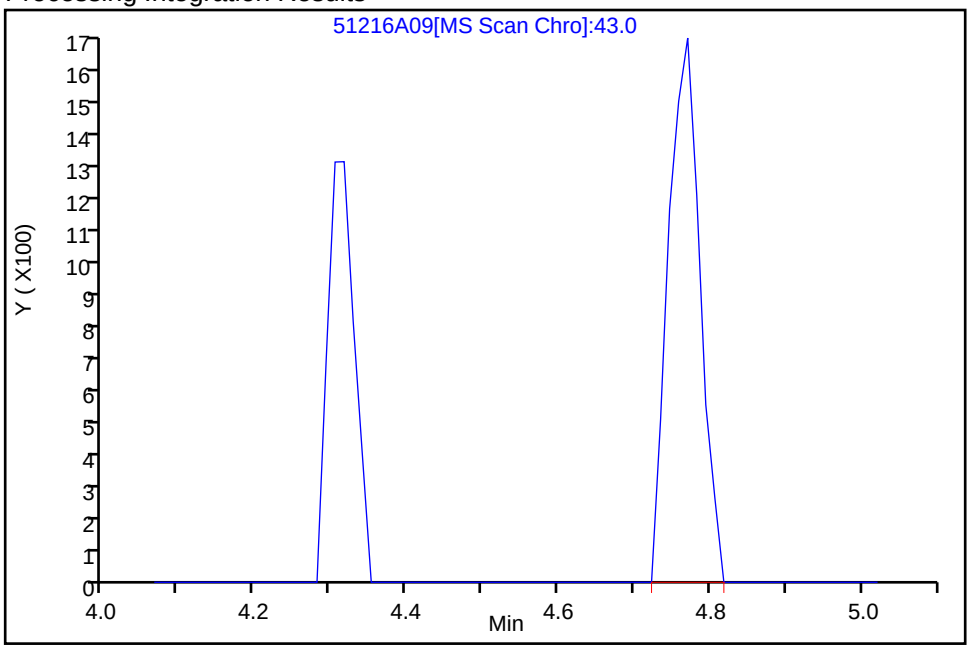
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A09.D		
Injection Date:	16-Dec-2015 10:48:30	Inst. ID:	msd5.i
Client ID:	VSTD005PE	Lab ID:	VSTD005PE
Sample Info:	5121615.b, VSTD005PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

14 Methyl Acetate, CAS: 79-20-9

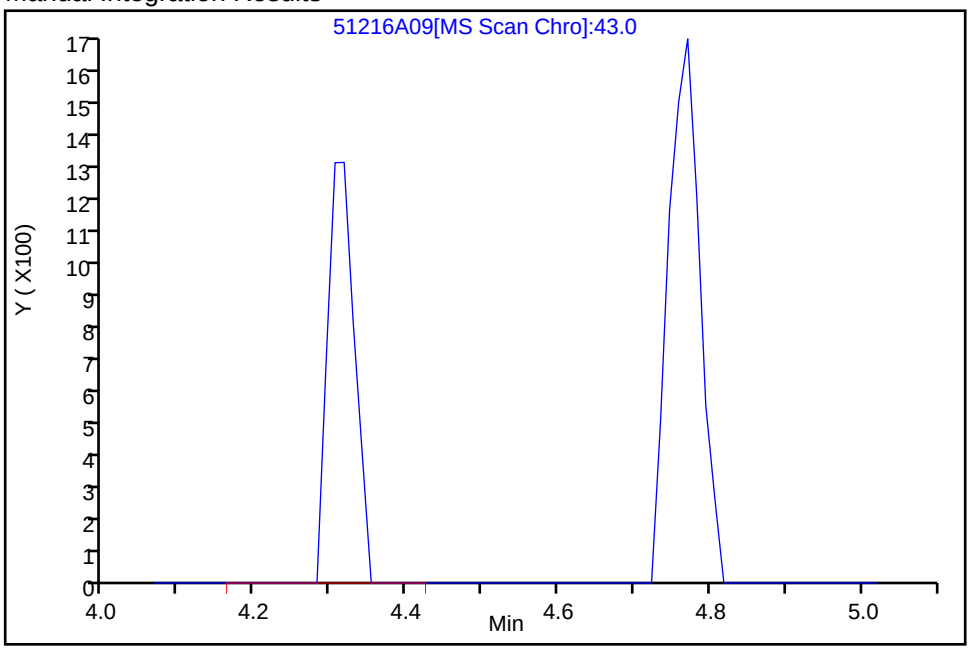
Processing Integration Results

RT: 4.773
Area: 4667
Amount: 5.5042
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 4.322
Area: 3063
Amount: 3.9082
Amount Units: ug/L



Data Editor: pap, 16-Dec-2015 11:17:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 20-Dec-2015 12:53:18 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

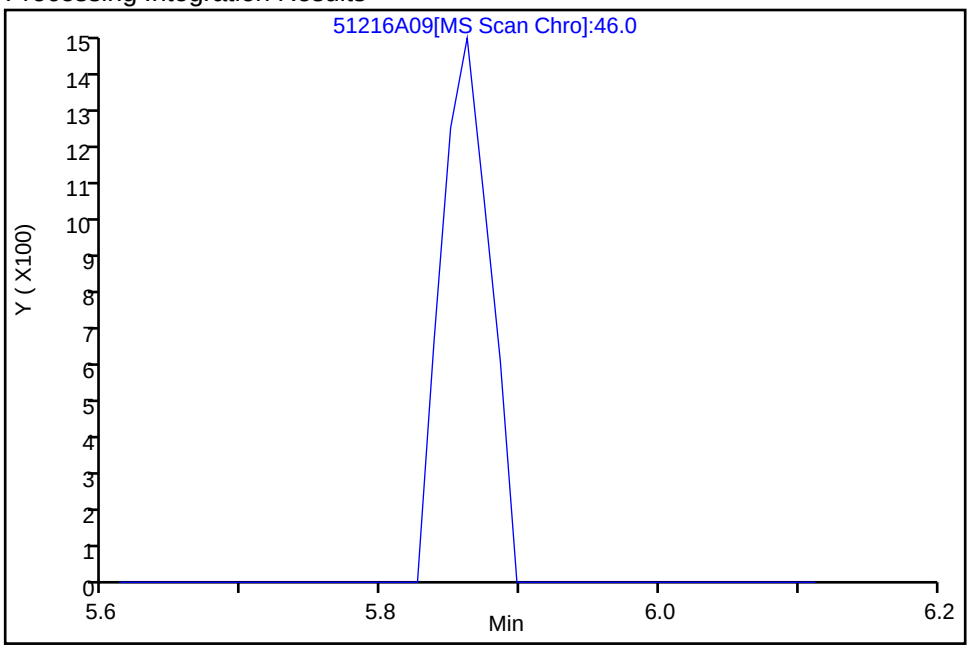
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A09.D		
Injection Date:	16-Dec-2015 10:48:30	Inst. ID:	msd5.i
Client ID:	VSTD005PE	Lab ID:	VSTD005PE
Sample Info:	5121615.b, VSTD005PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 19 2-Butanone-d5, CAS: 24313-50-6

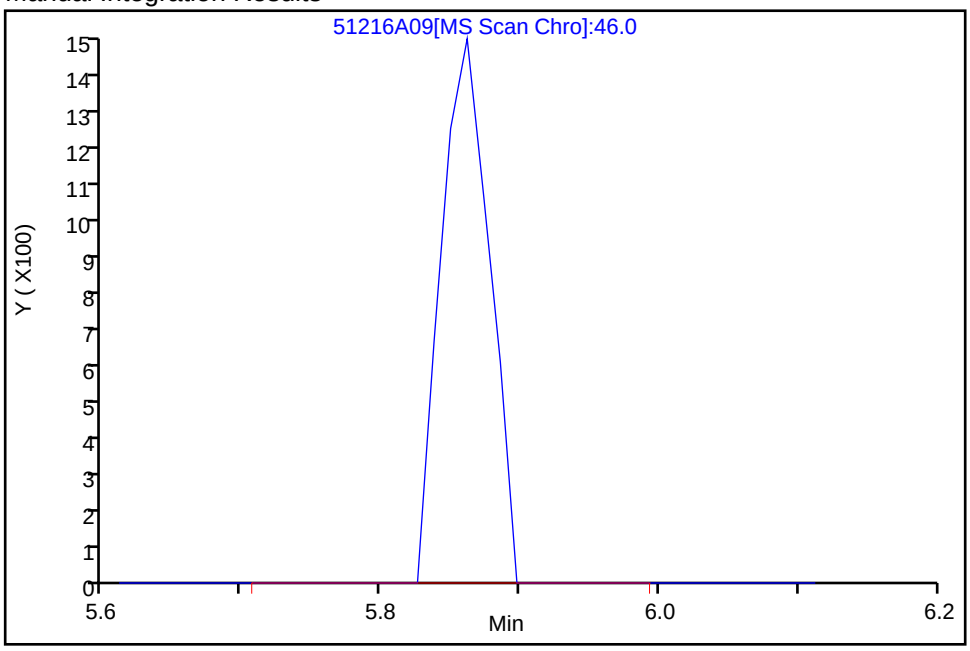
Not Detected
5.864

Processing Integration Results



Manual Integration Results

RT:	5.864
Area:	3423
Amount:	10.876
Amount Units:	ug/L



Data Editor: pap, 16-Dec-2015 11:17:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 20-Dec-2015 12:53:18 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

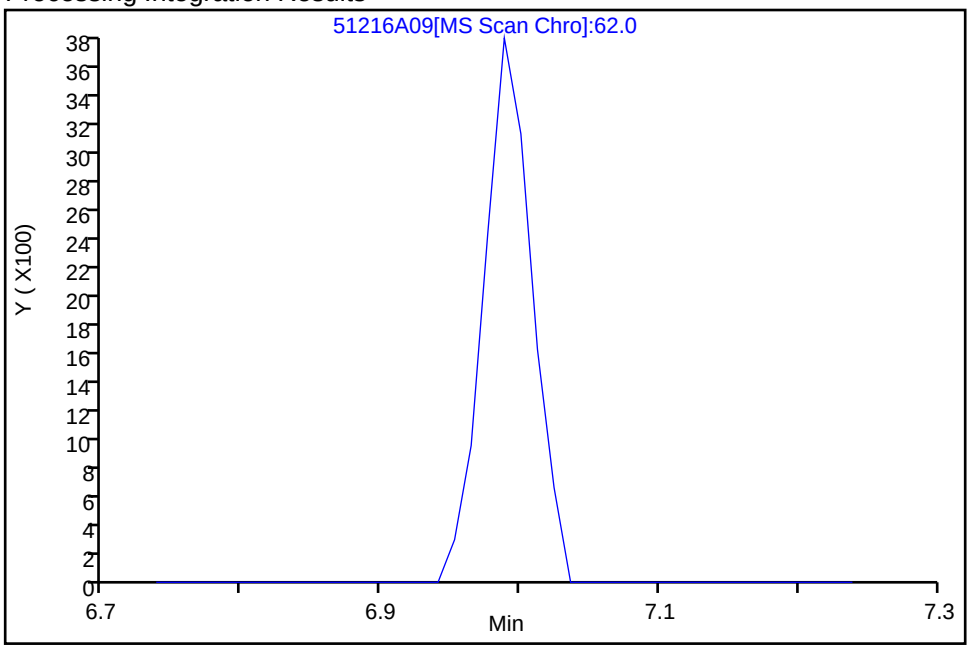
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A09.D		
Injection Date:	16-Dec-2015 10:48:30	Inst. ID:	msd5.i
Client ID:	VSTD005PE	Lab ID:	VSTD005PE
Sample Info:	5121615.b, VSTD005PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

31 1,2-Dichloroethane, CAS: 107-06-2

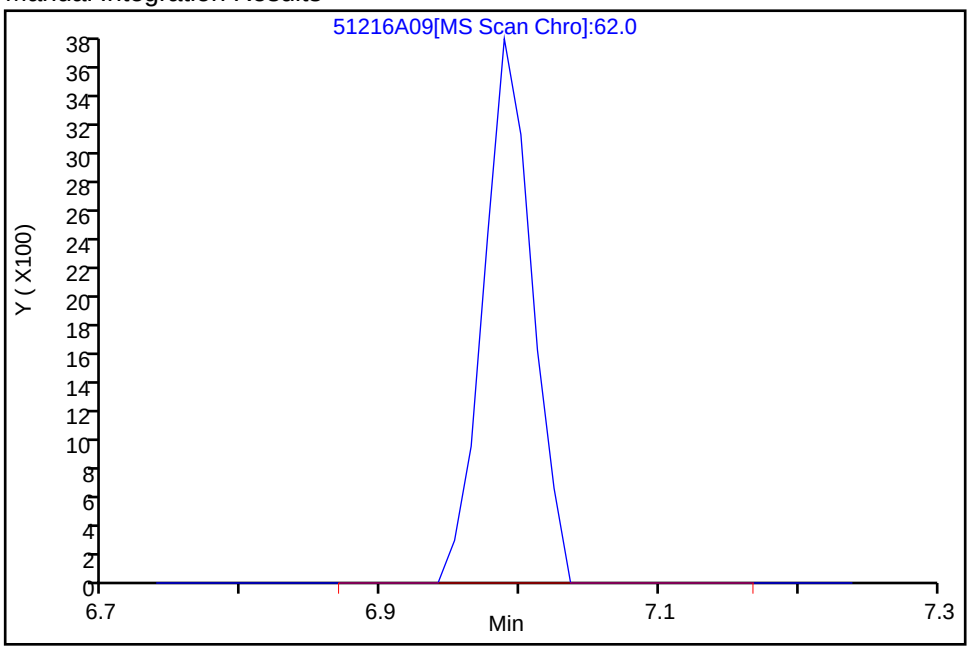
Not Detected
6.990

Processing Integration Results



Manual Integration Results

RT:	6.990
Area:	9163
Amount:	5.3631
Amount Units:	ug/L



Data Editor: pap, 16-Dec-2015 11:17:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 20-Dec-2015 12:53:18 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

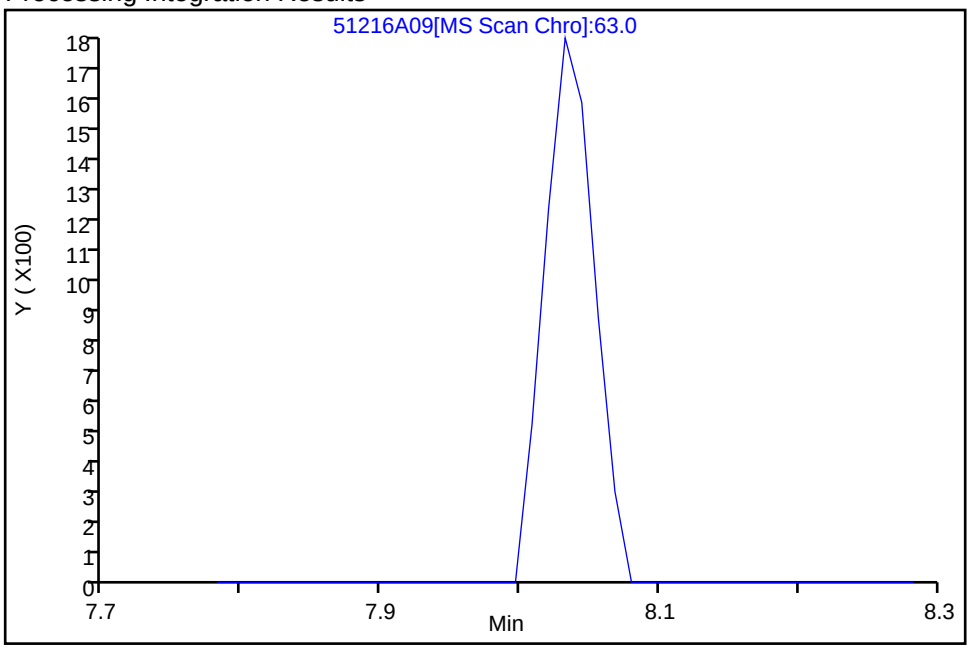
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A09.D		
Injection Date:	16-Dec-2015 10:48:30	Inst. ID:	msd5.i
Client ID:	VSTD005PE	Lab ID:	VSTD005PE
Sample Info:	5121615.b, VSTD005PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

36 1,2-Dichloropropane, CAS: 78-87-5

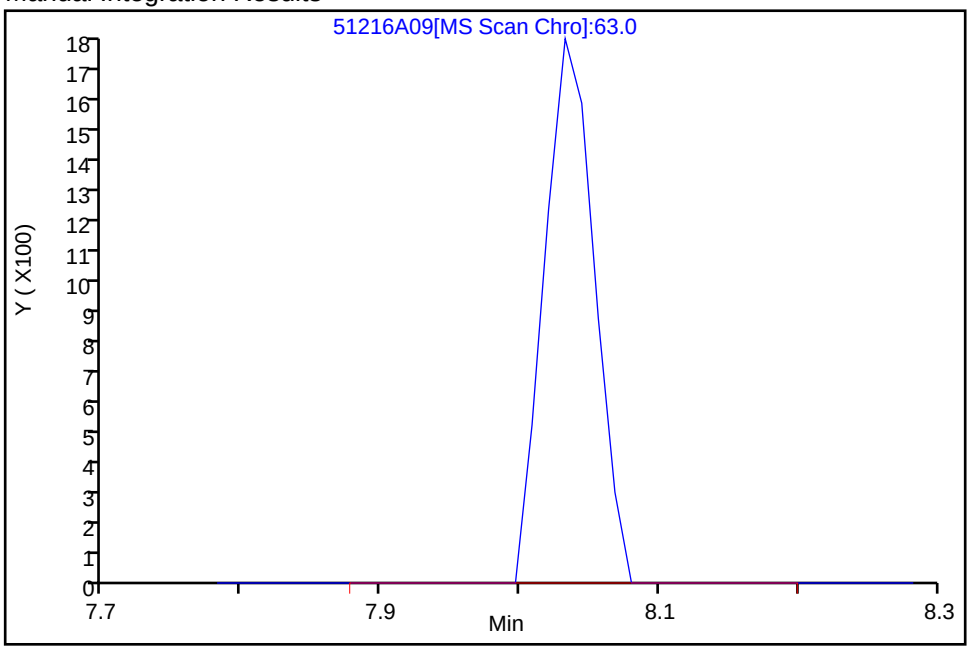
Not Detected
8.034

Processing Integration Results



Manual Integration Results

RT:	8.034
Area:	4387
Amount:	3.8917
Amount Units:	ug/L



Data Editor: pap, 16-Dec-2015 11:17:30
Audit Action: Mint
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Report Date: 20-Dec-2015 12:53:18 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

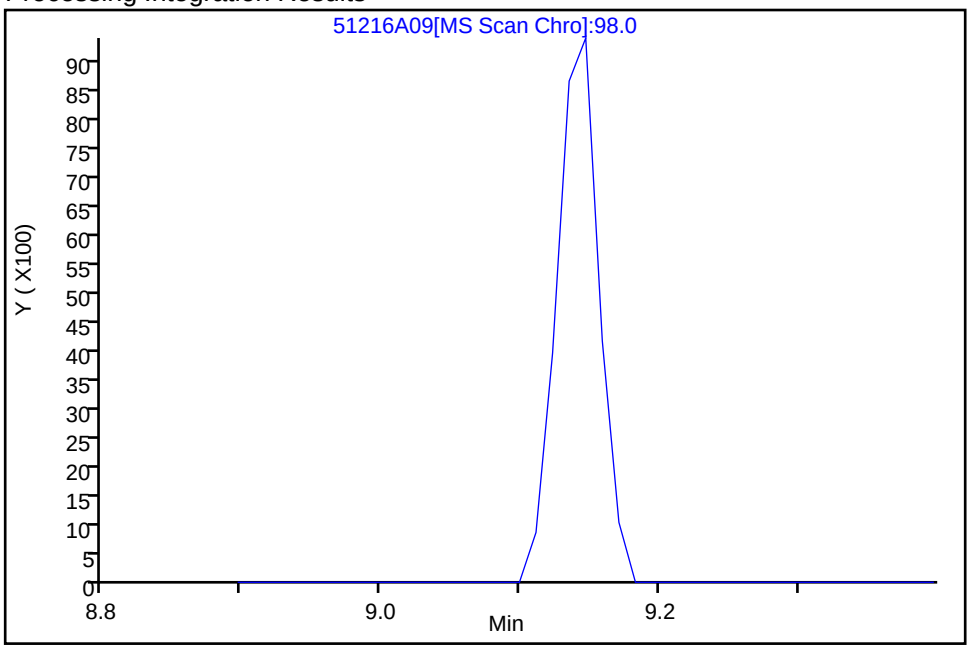
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A09.D		
Injection Date:	16-Dec-2015 10:48:30	Inst. ID:	msd5.i
Client ID:	VSTD005PE	Lab ID:	VSTD005PE
Sample Info:	5121615.b, VSTD005PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 43 Toluene-d8, CAS: 2037-26-5

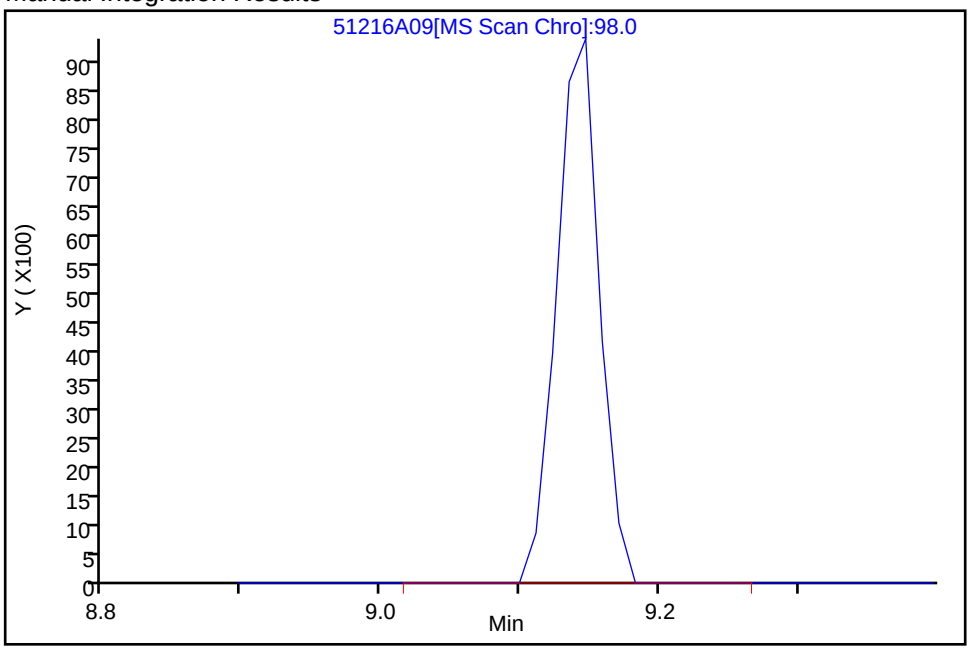
Processing Integration Results

Not Detected
9.149



Manual Integration Results

RT:	9.149
Area:	19969
Amount:	4.5077
Amount Units:	ug/L



Data Editor: pap, 16-Dec-2015 11:17:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 20-Dec-2015 12:53:18 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

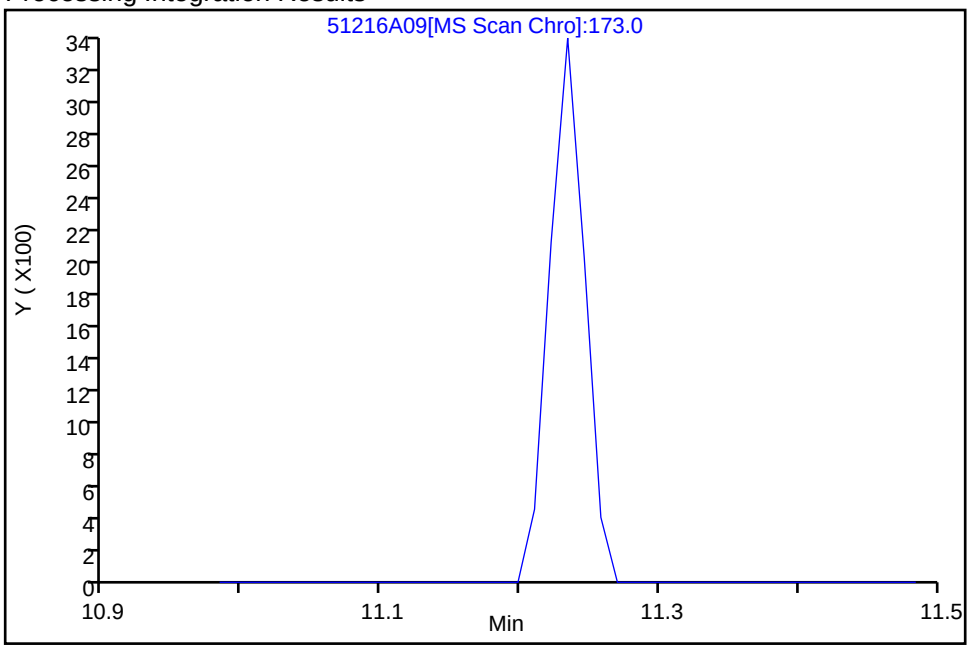
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A09.D		
Injection Date:	16-Dec-2015 10:48:30	Inst. ID:	msd5.i
Client ID:	VSTD005PE	Lab ID:	VSTD005PE
Sample Info:	5121615.b, VSTD005PE		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

58 Bromoform, CAS: 75-25-2

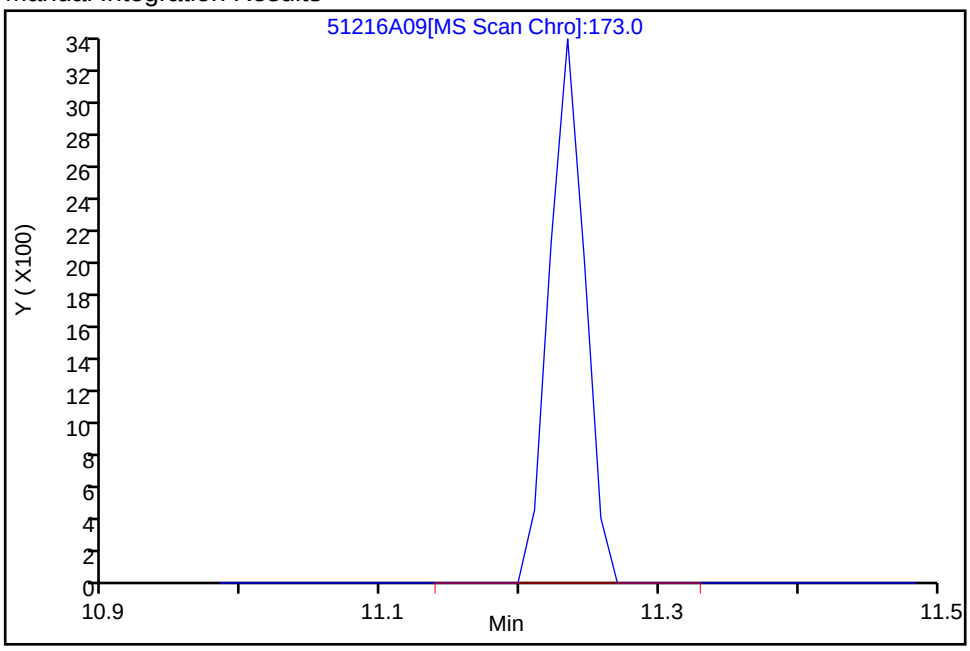
Processing Integration Results

Not Detected
11.236



Manual Integration Results

RT:	11.236
Area:	5827
Amount:	4.6332
Amount Units:	ug/L



Data Editor: pap, 16-Dec-2015 11:17:30
Audit Action: Mint
Audit Reason: NOID

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date(s): 12/20/2015 12/20/2015

GC Column: DB-624 ID: 0.25 (mm) Calibration Time(s): 1510 1636

Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 5.0 (mL)

LAB FILE ID: 51220A08 RRF 5.0 = 51220A08 RRF 10 = 51220A09
RRF 50 = 51220A10 RRF 100 = 51220A11 RRF 200 = 51220A12

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.269	0.306	0.322	0.341	0.369	0.321	11.6
Chloromethane	0.361	0.375	0.382	0.388	0.413	0.384	5.0
Vinyl chloride	0.267	0.300	0.311	0.323	0.347	0.310	9.5
Bromomethane	0.163	0.190	0.181	0.186	0.195	0.183	6.8
Chloroethane	0.160	0.182	0.181	0.179	0.184	0.177	5.5
Trichlorofluoromethane	0.245	0.352	0.401	0.421	0.450	0.374	21.5
1,1-Dichloroethene	0.239	0.258	0.268	0.270	0.285	0.264	6.4
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.137	0.146	0.141	0.172	0.209	0.161	18.8
Acetone	0.107	0.088	0.079	0.057	0.048	0.076	31.1
Carbon disulfide	0.703	0.703	0.659	0.690	0.737	0.698	4.0
Methyl acetate	0.350	0.346	0.295	0.288	0.271	0.310	11.6
Methylene chloride	0.281	0.299	0.274	0.284	0.289	0.286	3.2
trans-1,2-Dichloroethene	0.297	0.314	0.290	0.307	0.318	0.305	3.8
Methyl tert-butyl ether	0.826	0.880	0.774	0.781	0.782	0.809	5.5
1,1-Dichloroethane	0.559	0.601	0.558	0.567	0.596	0.576	3.6
cis-1,2-Dichloroethene	0.335	0.364	0.328	0.342	0.347	0.343	3.9
2-Butanone	0.149	0.117	0.135	0.115	0.093	0.122	17.7
Bromochloromethane	0.165	0.174	0.166	0.172	0.171	0.170	2.4
Chloroform	0.550	0.568	0.512	0.525	0.539	0.539	4.1
1,1,1-Trichloroethane	0.418	0.453	0.432	0.491	0.519	0.463	9.0
Cyclohexane	0.520	0.542	0.583	0.650	0.707	0.600	12.9
Carbon tetrachloride	0.391	0.434	0.448	0.483	0.524	0.456	11.0
Benzene	1.254	1.372	1.325	1.432	1.522	1.381	7.4
1,2-Dichloroethane	0.413	0.445	0.412	0.418	0.433	0.424	3.4
Trichloroethene	0.321	0.345	0.334	0.370	0.395	0.353	8.4
Methylcyclohexane	0.535	0.536	0.578	0.634	0.681	0.593	10.8
1,2-Dichloropropane	0.333	0.363	0.348	0.384	0.401	0.366	7.5
Bromodichloromethane	0.407	0.448	0.434	0.469	0.490	0.449	7.1
cis-1,3-Dichloropropene	0.545	0.579	0.553	0.607	0.635	0.584	6.4
4-Methyl-2-pentanone	0.370	0.369	0.335	0.326	0.318	0.344	7.1
Toluene	1.359	1.431	1.379	1.480	1.558	1.441	5.6
trans-1,3-Dichloropropene	0.495	0.507	0.484	0.524	0.548	0.512	4.9
1,1,2-Trichloroethane	0.280	0.291	0.274	0.293	0.304	0.288	4.0
Tetrachloroethene	0.292	0.296	0.302	0.329	0.353	0.314	8.2
2-Hexanone	0.276	0.278	0.230	0.226	0.234	0.249	10.6

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date(s): 12/20/2015 12/20/2015

GC Column: DB-624 ID: 0.25 (mm) Calibration Time(s): 1510 1636

Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 5.0 (mL)

LAB FILE ID: 51220A08 RRF 5.0 = 51220A08 RRF 10 = 51220A09
RRF 50 = 51220A10 RRF 100 = 51220A11 RRF 200 = 51220A12

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Dibromochloromethane	0.356	0.368	0.347	0.372	0.387	0.366	4.2
1,2-Dibromoethane	0.311	0.311	0.291	0.306	0.317	0.307	3.2
Chlorobenzene	0.960	0.960	0.920	0.964	1.023	0.966	3.8
Ethylbenzene	1.549	1.568	1.523	1.590	1.709	1.588	4.5
m, p-Xylene	0.625	0.623	0.613	0.641	0.685	0.638	4.5
o-Xylene	0.608	0.615	0.583	0.607	0.642	0.611	3.5
Styrene	1.041	1.070	1.007	1.043	1.113	1.055	3.7
Bromoform	0.483	0.523	0.483	0.499	0.499	0.497	3.3
Isopropylbenzene	1.569	1.560	1.532	1.599	1.756	1.603	5.5
1,1,2,2-Tetrachloroethane	0.378	0.384	0.353	0.343	0.363	0.364	4.7
1,3-Dichlorobenzene	1.563	1.599	1.482	1.549	1.596	1.558	3.1
1,4-Dichlorobenzene	1.600	1.612	1.482	1.555	1.605	1.571	3.5
1,2-Dichlorobenzene	1.497	1.466	1.374	1.421	1.497	1.451	3.7
1,2-Dibromo-3-chloropropane	0.121	0.127	0.123	0.115	0.122	0.122	3.5
1,2,4-Trichlorobenzene	1.087	0.897	0.949	1.034	1.174	1.028	10.7
1,2,3-Trichlorobenzene	0.994	0.781	0.810	0.932	1.061	0.916	13.0
Vinyl Chloride-d3	0.203	0.223	0.225	0.226	0.247	0.225	6.9
Chloroethane-d5	0.154	0.202	0.188	0.176	0.188	0.182	9.9
1,1-Dichloroethene-d2	0.462	0.518	0.527	0.525	0.556	0.518	6.6
2-Butanone-d5	0.099	0.118	0.114	0.109	0.086	0.105	12.3
Chloroform-d	0.454	0.522	0.493	0.501	0.512	0.496	5.3
1,2-Dichloroethane-d4	0.270	0.334	0.315	0.300	0.301	0.304	7.7
Benzene-d6	1.016	1.201	1.159	1.255	1.334	1.193	10.0
1,2-Dichloropropane-d6	0.335	0.361	0.351	0.373	0.392	0.362	6.0
Toluene-d8	1.024	1.138	1.114	1.181	1.243	1.140	7.1
trans-1,3-Dichloropropene-d4	0.397	0.453	0.431	0.458	0.484	0.445	7.4
2-Hexanone-d5	0.128	0.139	0.137	0.131	0.135	0.134	3.3
1,1,2,2-Tetrachloroethane-d2	0.328	0.330	0.314	0.304	0.323	0.320	3.3
1,2-Dichlorobenzene-d4	0.803	0.866	0.803	0.805	0.851	0.826	3.7

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D		
Lab Sample ID:	VSTD005ZB	Client Sample ID:	VSTD005ZB
Injection Date:	20-Dec-2015 15:10:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd5.i
Sample Info:	5122015b, VSTD005ZB		
Method:	\\Organics\DD\chem\msd5.i\5122015b.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 09:08:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	Ical, Level: 2	ALS Bottle:	8
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 21:03:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	5825	5.0000	4.1914	M
2 Chloromethane	50.0	2.259	2.271	-0.012	7807	5.0000	4.7053	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	4392	5.0000	4.5156	
4 Vinyl Chloride	62.0	2.401	2.401	0.000	5773	5.0000	4.3116	
5 Bromomethane	94.0	2.733	2.793	-0.060	3520	5.0000	4.4474	
$ 6 Chloroethane-d5	69.0	2.828	2.864	-0.036	3337	5.0000	4.2455	M
7 Chloroethane	64.0	2.864	2.899	-0.035	3461	5.0000	4.5163	
8 Trichlorofluoromethane	101.0	3.172	3.196	-0.024	5292	5.0000	3.2743	M
$ 9 1,1-Dichloroethene-d2	63.0	3.789	3.801	-0.012	9994	5.0000	4.4650	
10 1,1-Dichloroethene	96.0	3.801	3.812	-0.011	5174	5.0000	4.5303	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.824	3.836	-0.012	2955	5.0000	4.2465	
12 Acetone	43.0	3.848	3.848	0.000	4613	10.000	14.083	
13 Carbon Disulfide	76.0	4.073	4.085	-0.012	15194	5.0000	5.0304	
14 Methyl Acetate	43.0	4.227	4.228	-0.001	7568	5.0000	5.6464	
15 Methylene Chloride	84.0	4.346	4.358	-0.012	6082	5.0000	4.9220	
16 Methyl tert-Butyl Ether	73.0	4.666	4.678	-0.012	17871	5.0000	5.1092	
17 trans-1,2-Dichloroethene	96.0	4.678	4.678	0.000	6426	5.0000	4.8687	
18 1,1-Dichloroethane	63.0	5.152	5.164	-0.012	12078	5.0000	4.8454	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	4271	10.000	9.3959	M
20 2-Butanone	43.0	5.828	5.828	0.000	6458	10.000	12.268	
21 cis-1,2-Dichloroethene	96.0	5.828	5.828	0.000	7252	5.0000	4.8825	
22 Bromochloromethane	128.0	6.113	6.113	0.000	3566	5.0000	4.8599	
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	9815	5.0000	4.5709	
24 Chloroform	83.0	6.196	6.196	0.000	11896	5.0000	5.1036	
25 1,1,1-Trichloroethane	97.0	6.433	6.445	-0.012	8647	5.0000	4.5213	
26 Cyclohexane	56.0	6.516	6.528	-0.012	10747	5.0000	4.3317	

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.635	6.647	-0.012	8079	5.0000	4.2854	
$ 28 1,2-Dichloroethane-d4	65.0	6.789	6.789	0.000	5840	5.0000	4.4423	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	20986	5.0000	4.2571	
30 Benzene	78.0	6.884	6.884	0.000	25908	5.0000	4.5400	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	8926	5.0000	4.8655	M
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	0.000	216244	50.000	50.000	
33 Trichloroethene	95.0	7.643	7.643	0.000	6629	5.0000	4.5411	
$ 34 1,2-Dichloropropane-d6	67.0	7.809	7.809	0.000	6918	5.0000	4.6194	
35 Methylcyclohexane	83.0	7.904	7.904	0.000	11045	5.0000	4.5102	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	6888	5.0000	4.5559	M
39 Bromodichloromethane	83.0	8.236	8.248	-0.012	8404	5.0000	4.5246	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	8200	5.0000	4.4638	
41 cis-1,3-Dichloropropene	75.0	8.746	8.746	0.000	11268	5.0000	4.6709	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	15303	10.000	10.773	
$ 43 Toluene-d8	98.0	9.042	9.054	-0.012	21168	5.0000	4.4926	M
44 Toluene	91.0	9.113	9.113	0.000	28074	5.0000	4.7133	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	10237	5.0000	4.8417	
46 1,1,2-Trichloroethane	97.0	9.504	9.505	-0.001	5783	5.0000	4.8509	
47 Tetrachloroethene	164.0	9.670	9.671	-0.001	6027	5.0000	4.6391	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	5300	10.000	9.5763	
49 2-Hexanone	43.0	9.730	9.730	0.000	11422	10.000	11.109	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	7365	5.0000	4.8691	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	6424	5.0000	5.0608	
* 52 Chlorobenzene-d5	117.0	10.429	10.430	-0.001	206623	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	19846	5.0000	4.9739	
54 Ethylbenzene	91.0	10.536	10.536	0.000	32002	5.0000	4.8775	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	12915	5.0000	4.9022	
56 o-Xylene	106.0	10.975	10.975	0.000	12563	5.0000	4.9760	
57 Styrene	104.0	10.987	10.987	0.000	21518	5.0000	4.9363	
58 Bromoform	173.0	11.153	11.153	0.000	5340	5.0000	4.8529	M
59 Isopropylbenzene	105.0	11.271	11.271	0.000	32418	5.0000	4.8932	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	6767	5.0000	5.1218	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	7816	5.0000	5.1926	
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	17295	5.0000	5.0164	
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	110652	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	17702	5.0000	5.0929	M
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	8888	5.0000	4.8647	
66 1,2-Dichlorobenzene	146.0	12.588	12.588	0.000	16569	5.0000	5.1597	
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	1334	5.0000	4.9584	
68 1,2,4-Trichlorobenzene	180.0	13.679	13.679	0.000	12028	5.0000	5.2858	
69 1,2,3-Trichlorobenzene	180.0	14.034	14.035	0.000	10995	5.0000	5.4268	

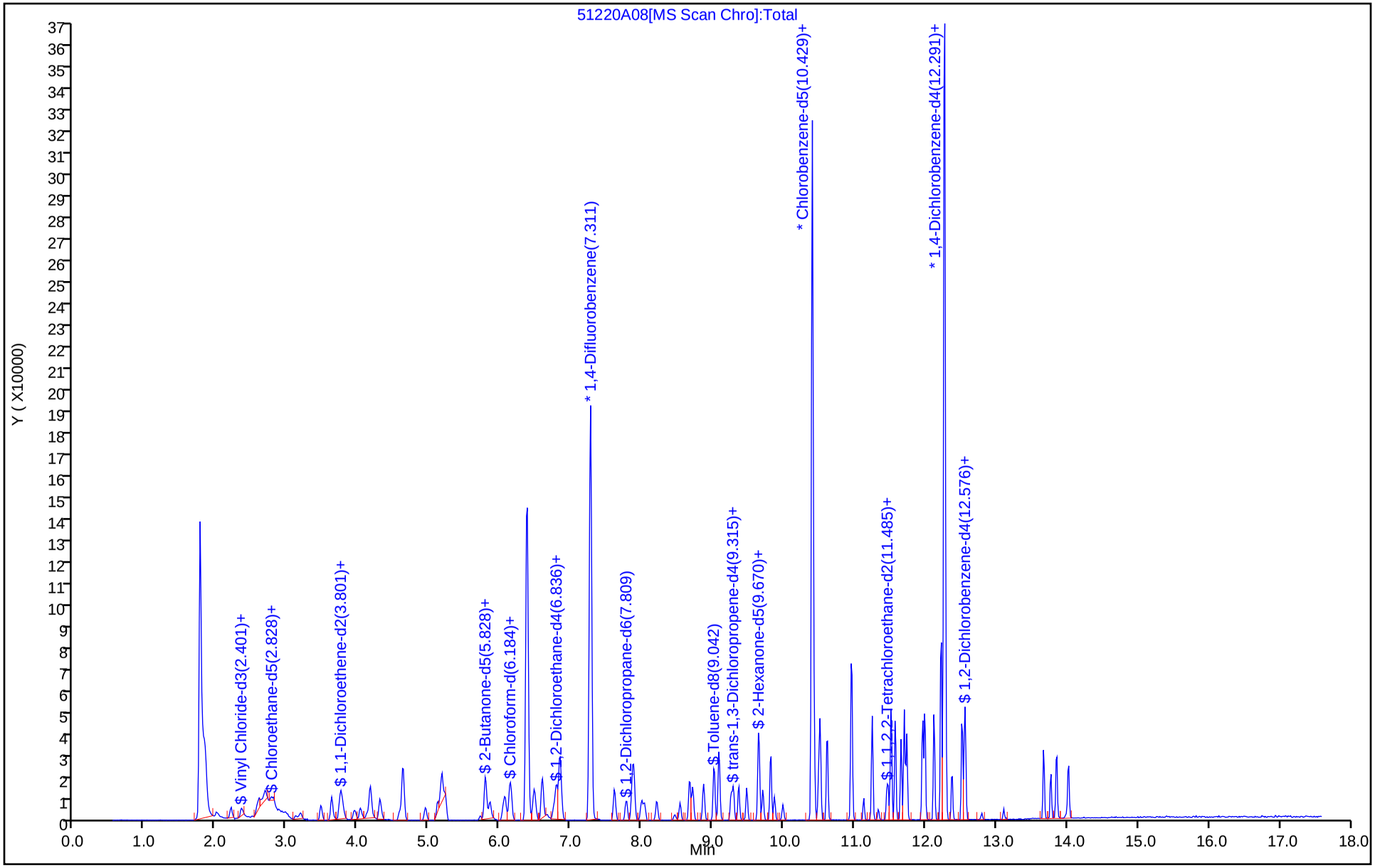
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D				
Injection Date:	20-Dec-2015 15:10:30	Inst. ID:	msd5.i	Operator:	ALL
Client ID:	VSTD005ZB	Lab ID:	VSTD005ZB		
Sample Info:	5122015b, VSTD005ZB				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

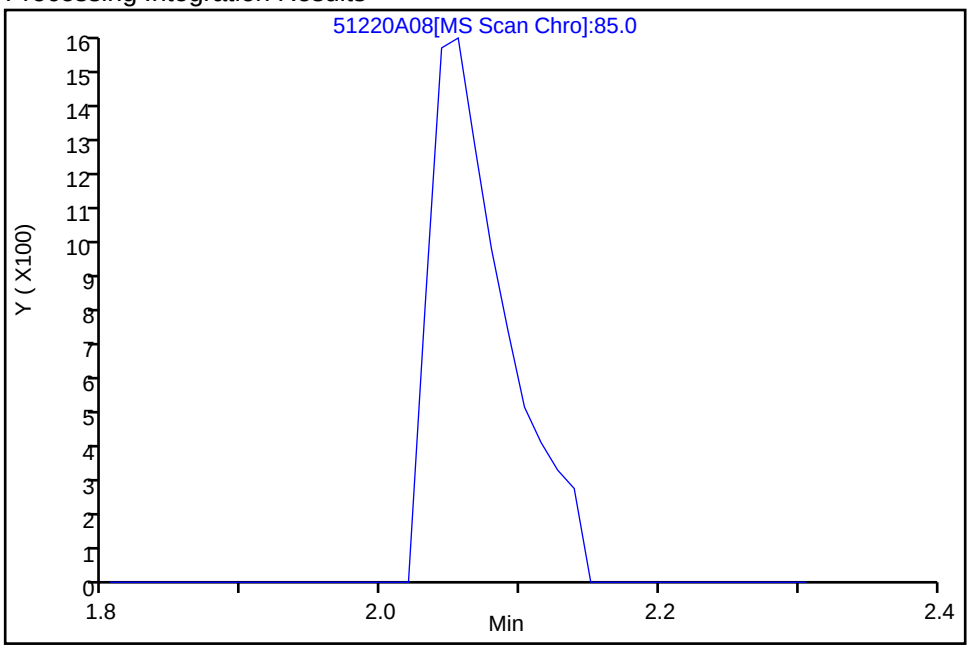
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D		
Injection Date:	20-Dec-2015 15:10:30	Inst. ID:	msd5.i
Client ID:	VSTD005ZB	Lab ID:	VSTD005ZB
Sample Info:	5122015b, VSTD005ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 Dichlorodifluoromethane, CAS: 75-71-8

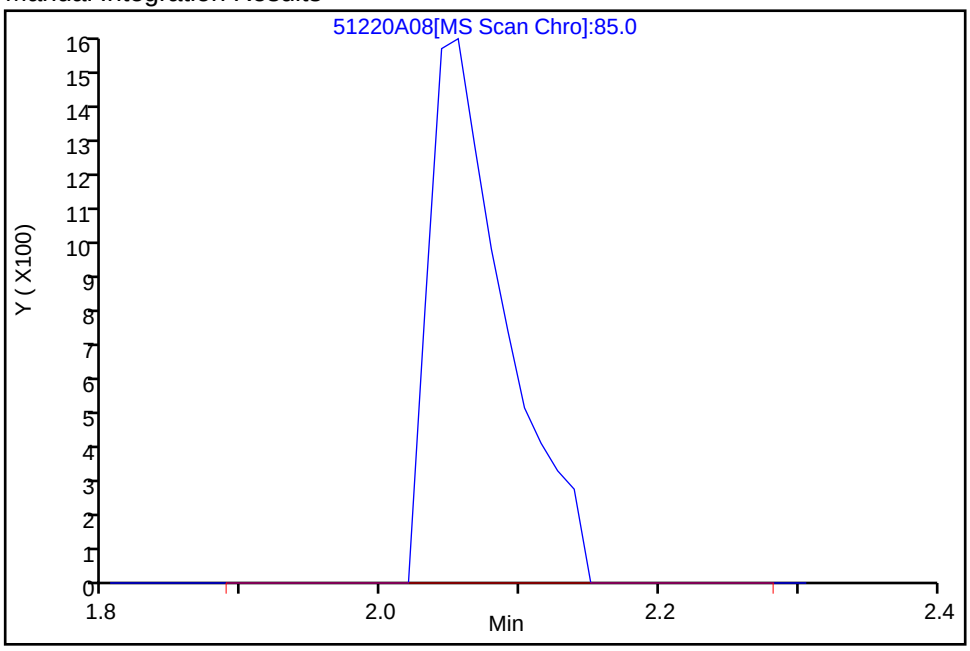
Processing Integration Results

Not Detected
2.057



Manual Integration Results

RT:	2.057
Area:	5825
Amount:	4.1914
Amount Units:	ug/L



Data Editor: pap, 20-Dec-2015 21:01:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

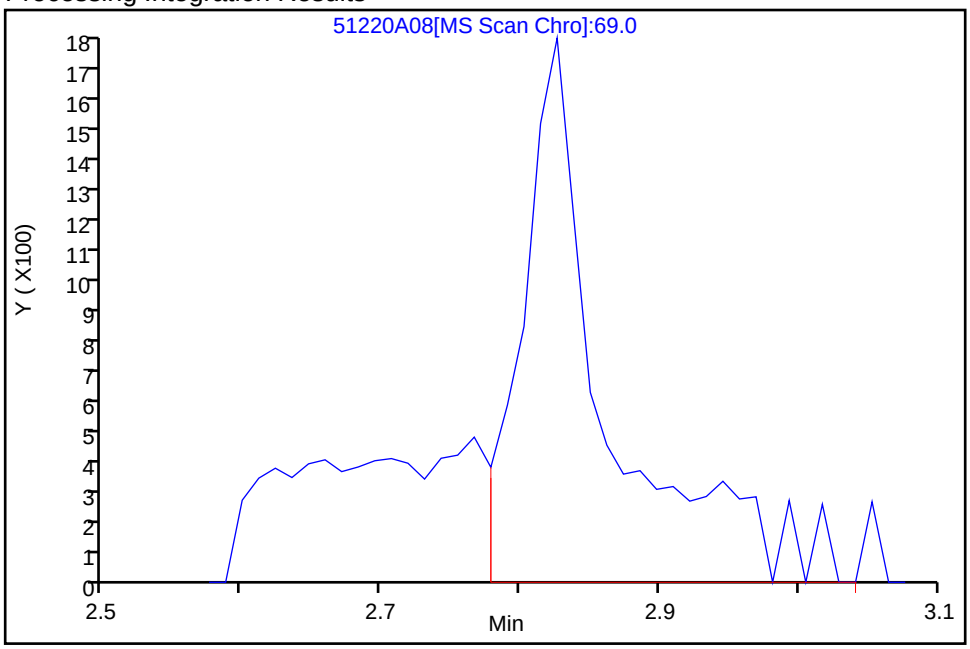
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D		
Injection Date:	20-Dec-2015 15:10:30	Inst. ID:	msd5.i
Client ID:	VSTD005ZB	Lab ID:	VSTD005ZB
Sample Info:	5122015b, VSTD005ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 6 Chloroethane-d5, CAS: 19199-91-8

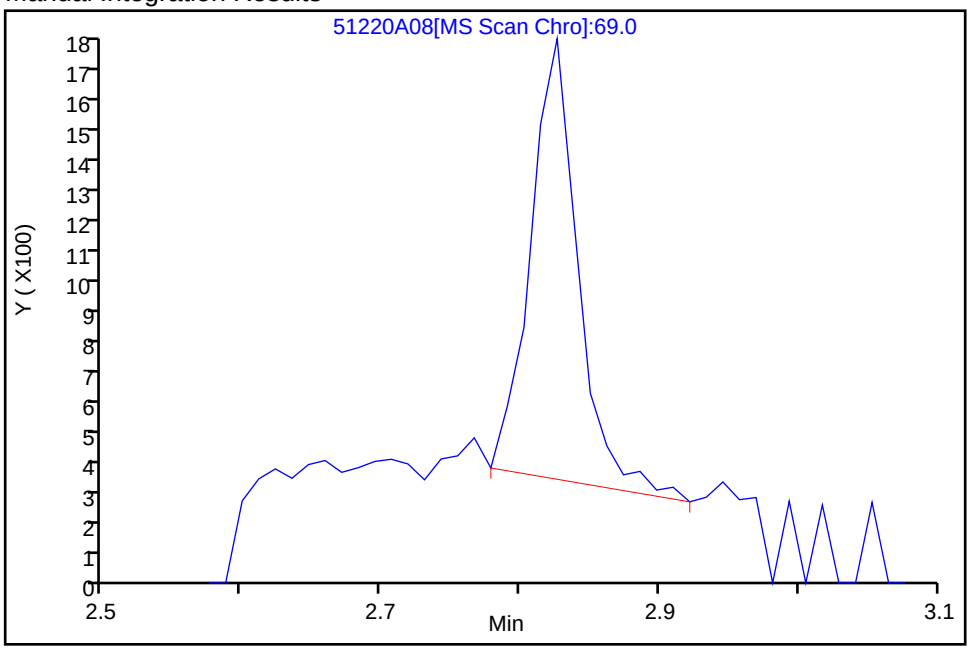
Processing Integration Results

RT: 2.828
Area: 7303
Amount: 7.5905
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 2.828
Area: 3337
Amount: 4.2455
Amount Units: ug/L



Data Editor: pap, 20-Dec-2015 21:01:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

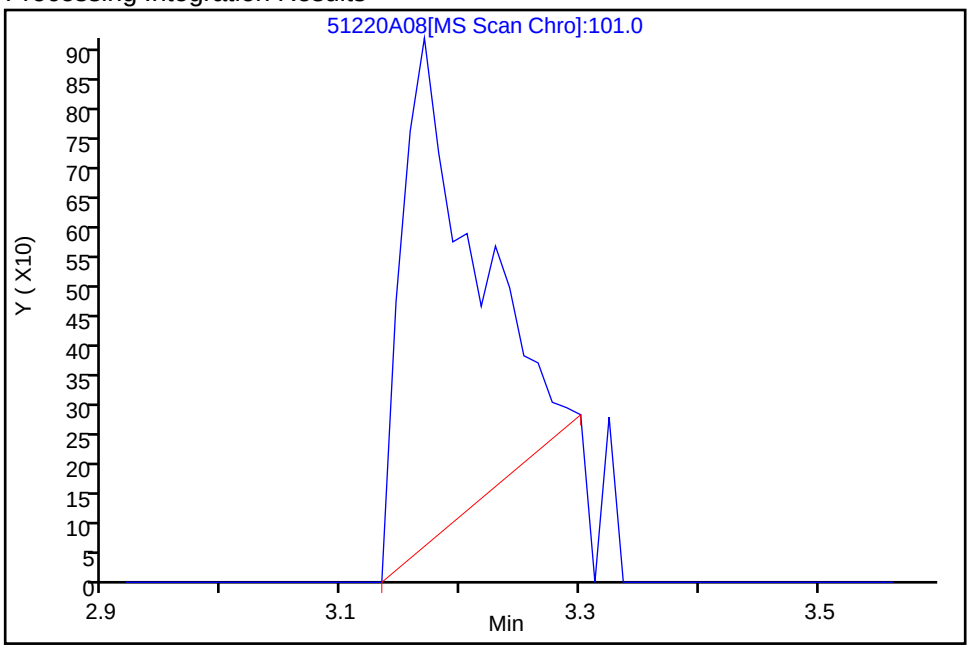
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D		
Injection Date:	20-Dec-2015 15:10:30	Inst. ID:	msd5.i
Client ID:	VSTD005ZB	Lab ID:	VSTD005ZB
Sample Info:	5122015b, VSTD005ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

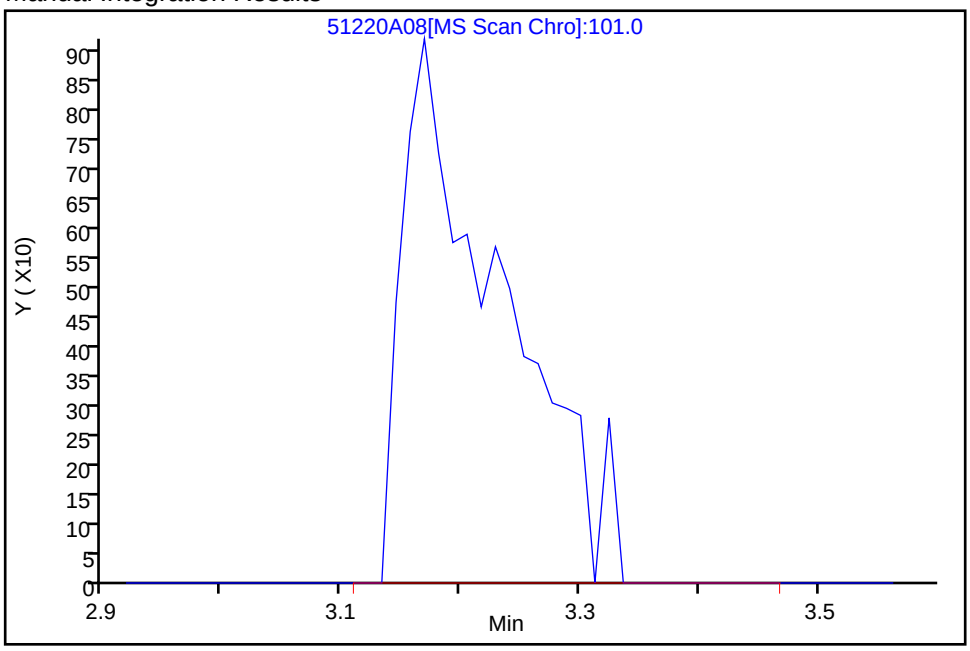
Processing Integration Results

RT: 3.172
Area: 3596
Amount: 2.3122
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.172
Area: 5292
Amount: 3.2743
Amount Units: ug/L



Data Editor: pap, 20-Dec-2015 21:01:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

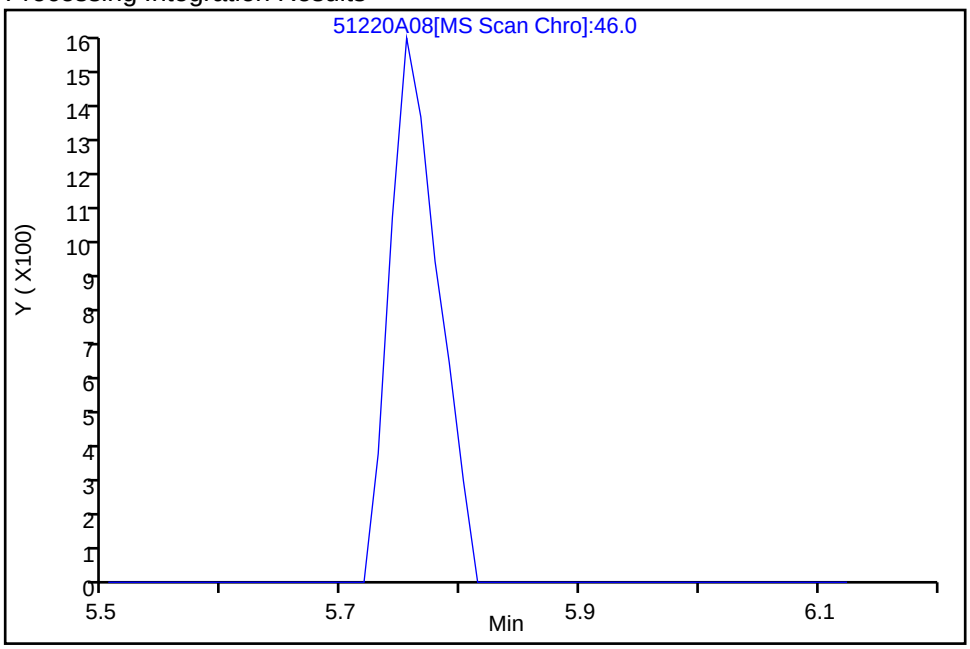
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D		
Injection Date:	20-Dec-2015 15:10:30	Inst. ID:	msd5.i
Client ID:	VSTD005ZB	Lab ID:	VSTD005ZB
Sample Info:	5122015b, VSTD005ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 19 2-Butanone-d5, CAS: 24313-50-6

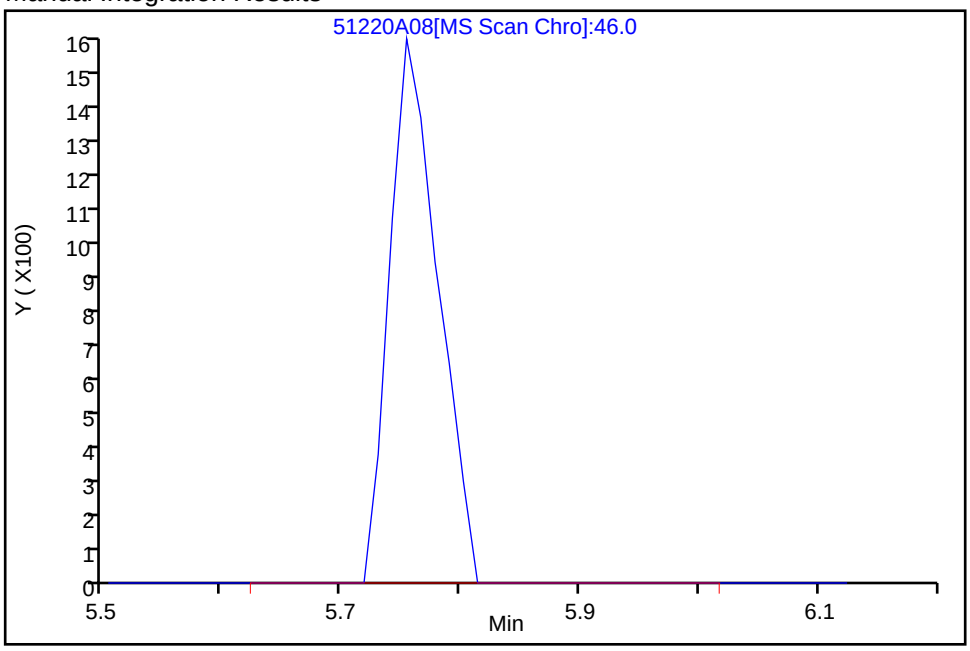
Processing Integration Results

Not Detected
5.757



Manual Integration Results

RT:	5.757
Area:	4271
Amount:	9.3959
Amount Units:	ug/L



Data Editor: pap, 20-Dec-2015 21:02:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

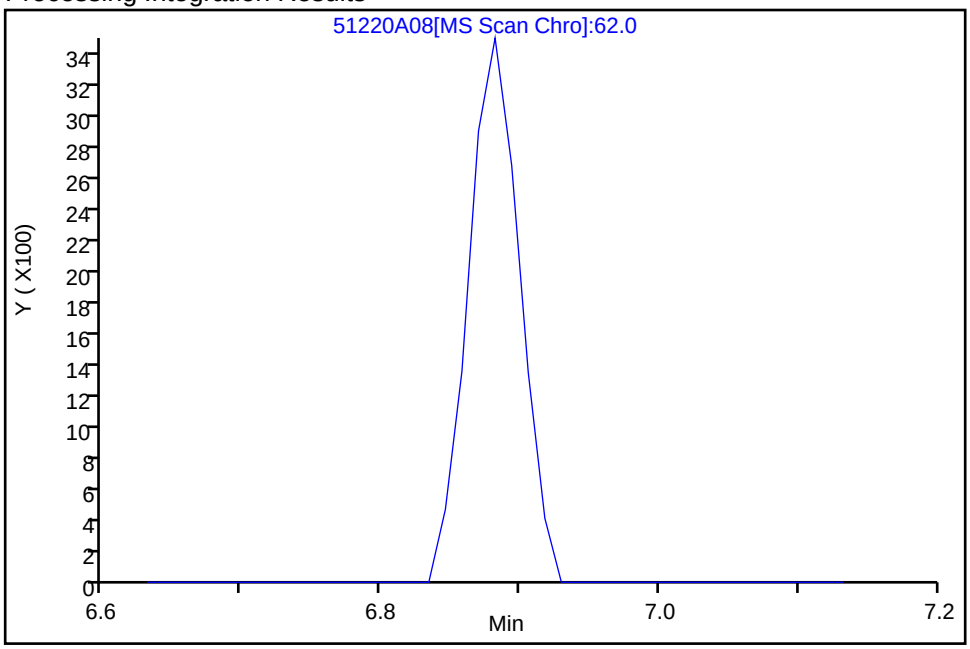
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D		
Injection Date:	20-Dec-2015 15:10:30	Inst. ID:	msd5.i
Client ID:	VSTD005ZB	Lab ID:	VSTD005ZB
Sample Info:	5122015b, VSTD005ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

31 1,2-Dichloroethane, CAS: 107-06-2

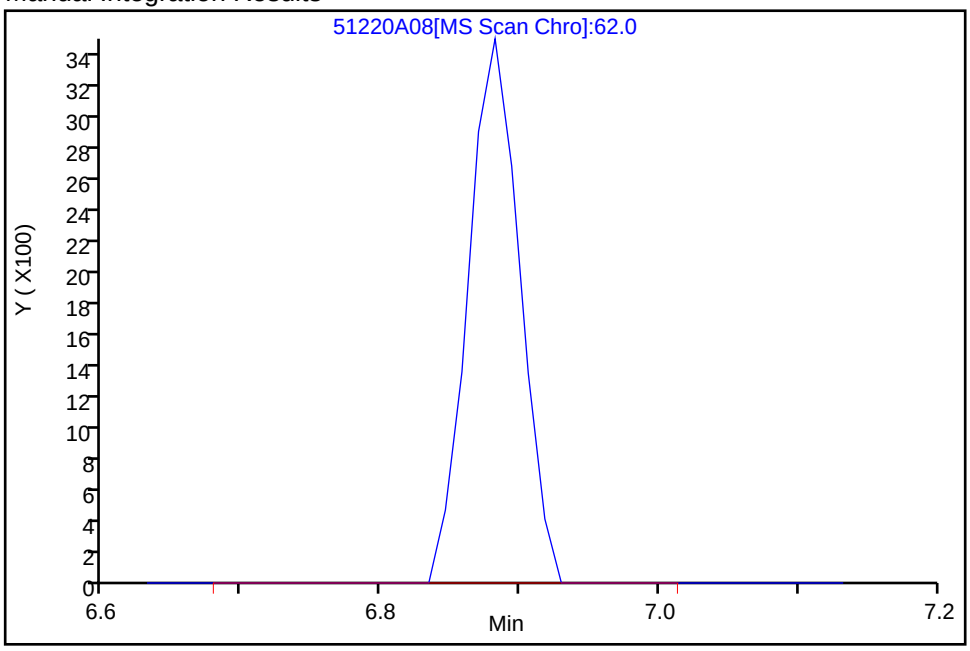
Processing Integration Results

Not Detected
6.884



Manual Integration Results

RT:	6.884
Area:	8926
Amount:	4.8655
Amount Units:	ug/L



Data Editor: pap, 20-Dec-2015 21:02:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

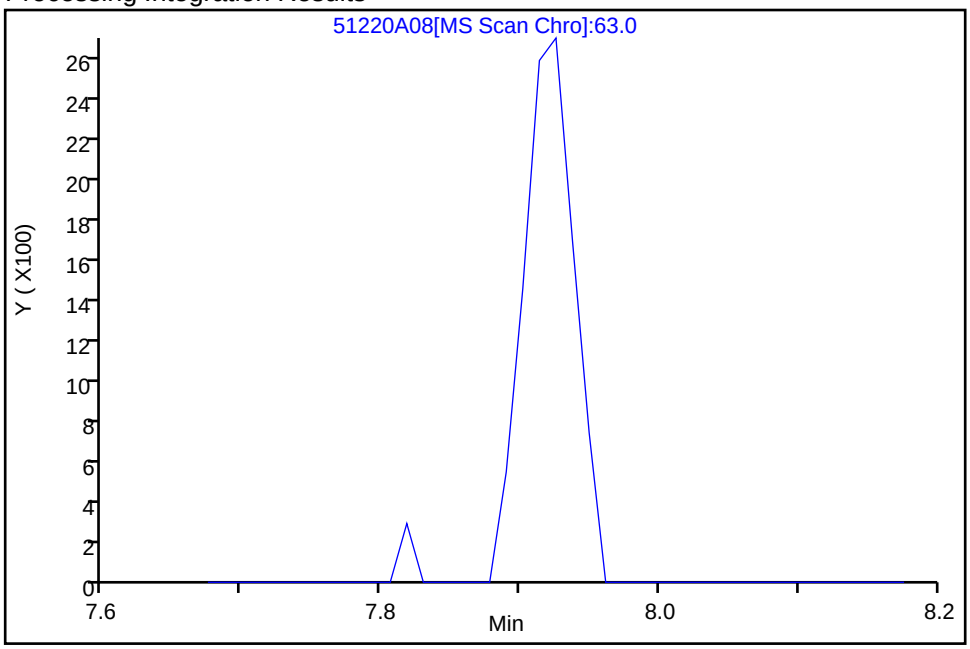
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D		
Injection Date:	20-Dec-2015 15:10:30	Inst. ID:	msd5.i
Client ID:	VSTD005ZB	Lab ID:	VSTD005ZB
Sample Info:	5122015b, VSTD005ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

36 1,2-Dichloropropane, CAS: 78-87-5

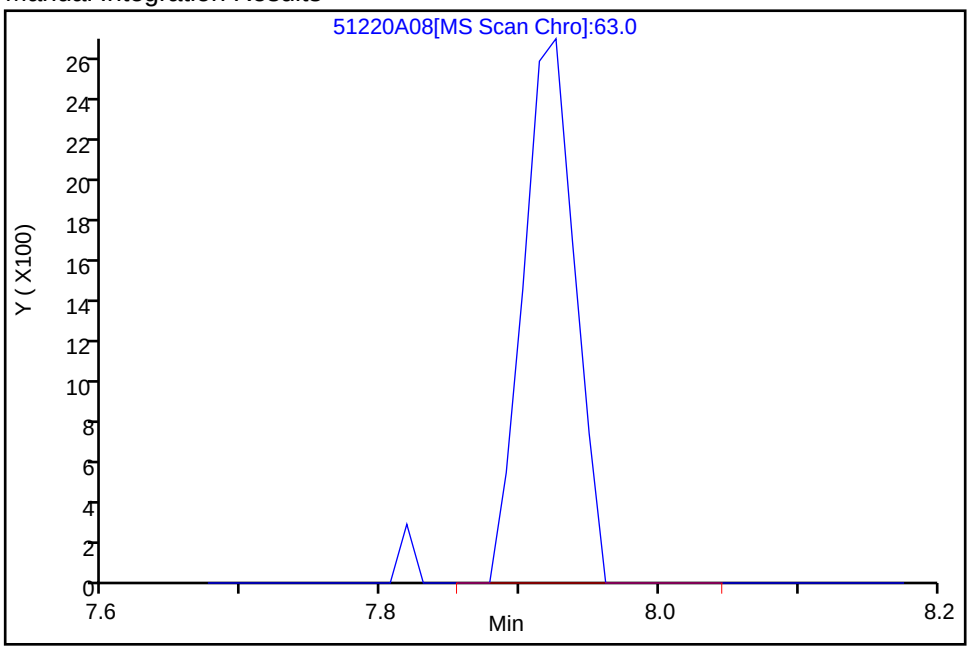
Processing Integration Results

Not Detected
7.927



Manual Integration Results

RT:	7.927
Area:	6888
Amount:	4.5559
Amount Units:	ug/L



Data Editor: pap, 20-Dec-2015 21:02:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

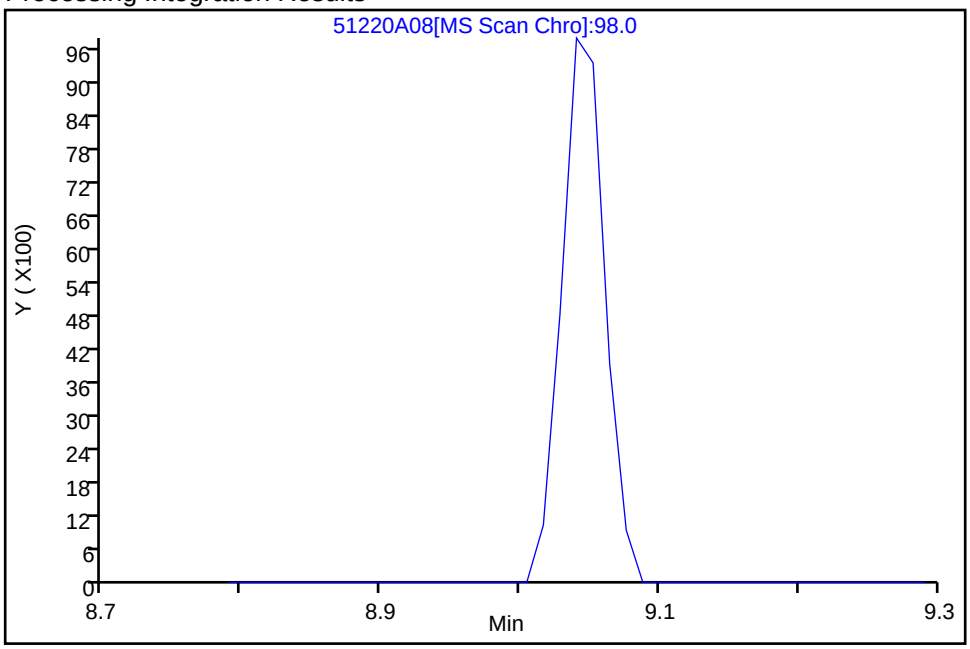
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D		
Injection Date:	20-Dec-2015 15:10:30	Inst. ID:	msd5.i
Client ID:	VSTD005ZB	Lab ID:	VSTD005ZB
Sample Info:	5122015b, VSTD005ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 43 Toluene-d8, CAS: 2037-26-5

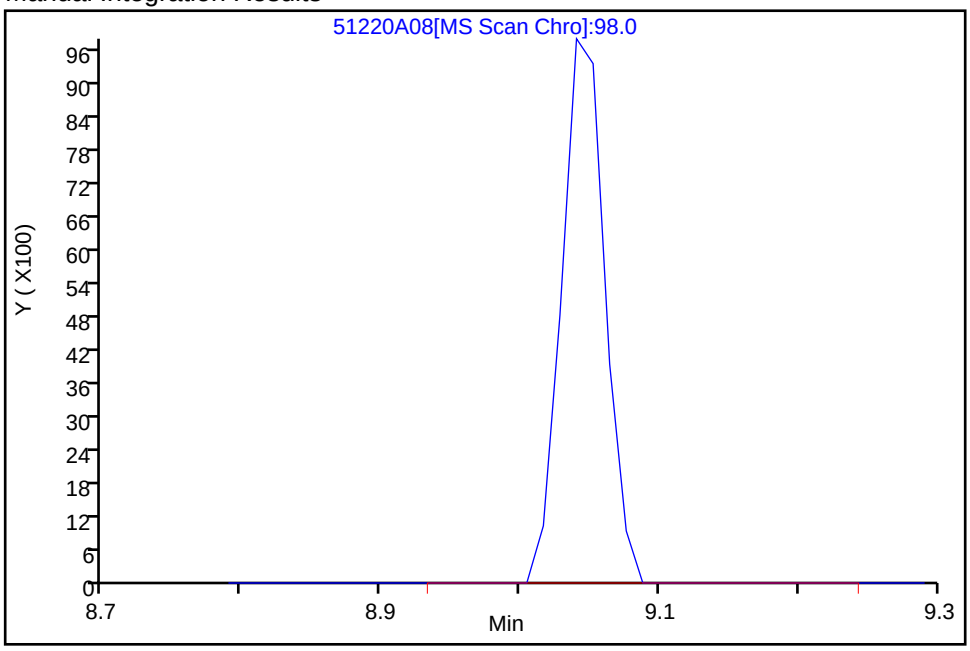
Processing Integration Results

Not Detected
9.054



Manual Integration Results

RT:	9.042
Area:	21168
Amount:	4.4926
Amount Units:	ug/L



Data Editor: pap, 20-Dec-2015 21:02:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

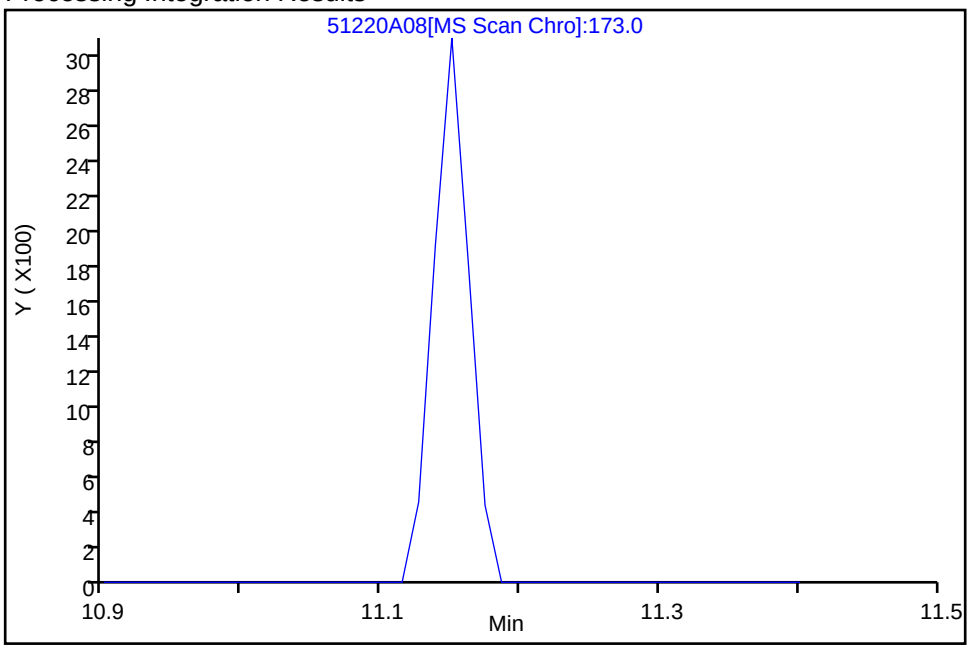
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D		
Injection Date:	20-Dec-2015 15:10:30	Inst. ID:	msd5.i
Client ID:	VSTD005ZB	Lab ID:	VSTD005ZB
Sample Info:	5122015b, VSTD005ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

58 Bromoform, CAS: 75-25-2

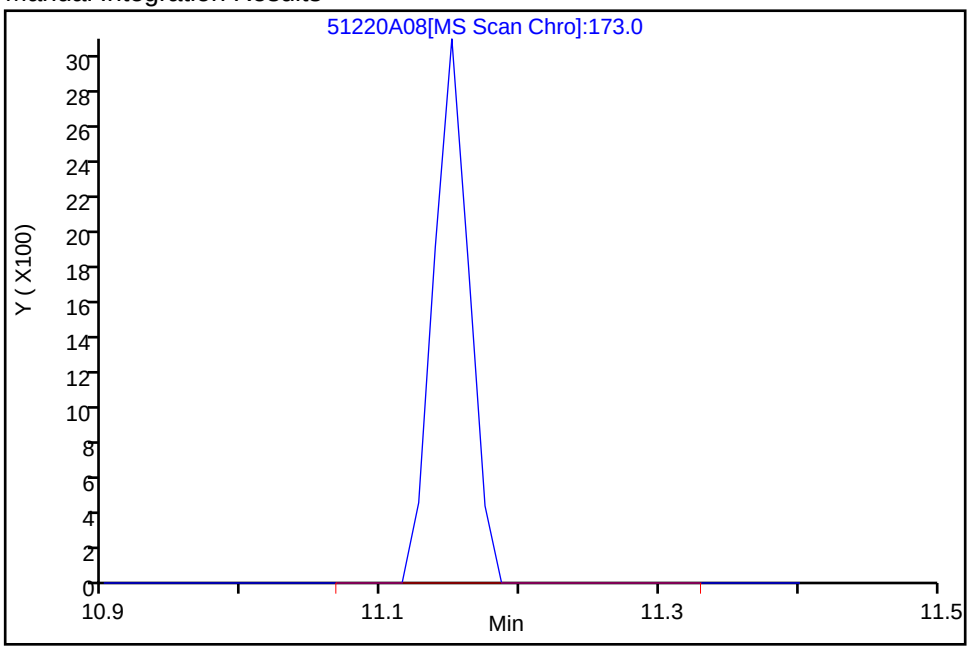
Processing Integration Results

Not Detected
11.153



Manual Integration Results

RT:	11.153
Area:	5340
Amount:	4.8529
Amount Units:	ug/L



Data Editor: pap, 20-Dec-2015 21:02:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

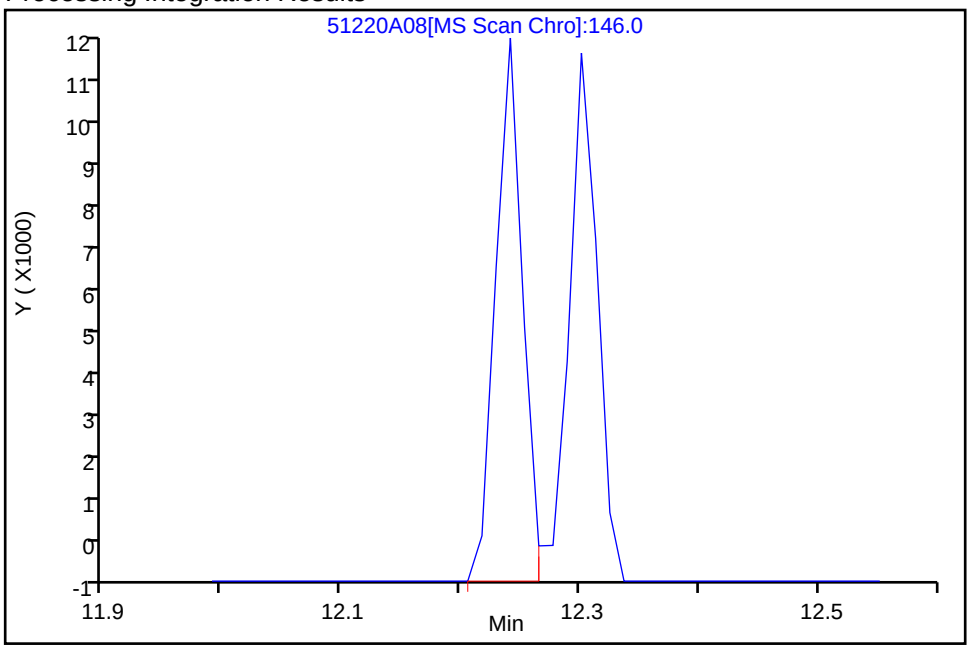
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A08.D		
Injection Date:	20-Dec-2015 15:10:30	Inst. ID:	msd5.i
Client ID:	VSTD005ZB	Lab ID:	VSTD005ZB
Sample Info:	5122015b, VSTD005ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

64 1,4-Dichlorobenzene, CAS: 106-46-7

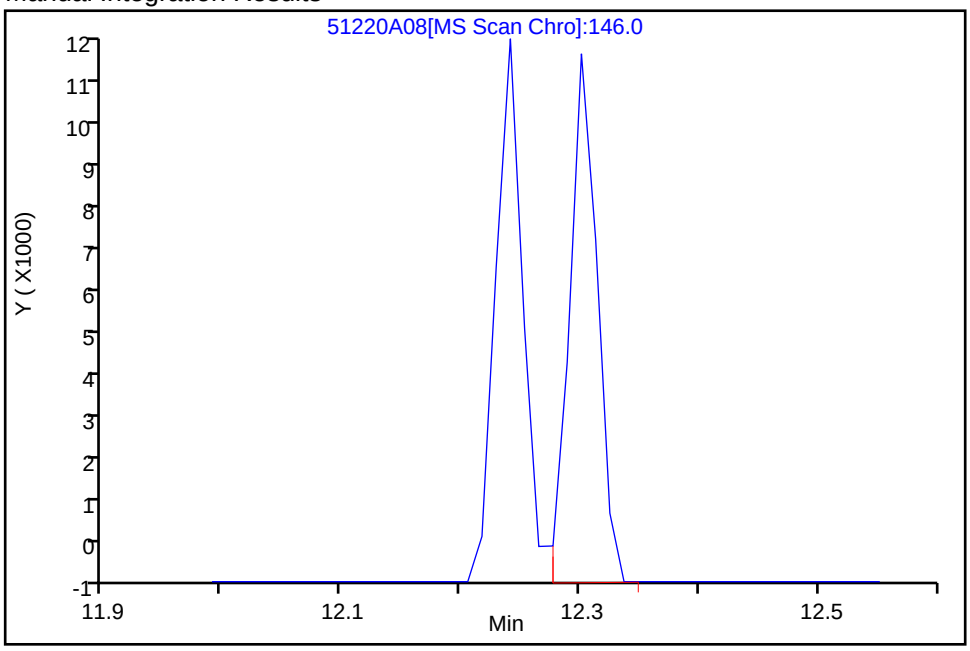
Processing Integration Results

RT:	12.244
Area:	17296
Amount:	5.0384
Amount Units:	ug/L
Conc:	



Manual Integration Results

RT:	12.303
Area:	17702
Amount:	5.0929
Amount Units:	ug/L



Data Editor: pap, 20-Dec-2015 21:03:30

Audit Action: Mint

Audit Reason: NOID

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A09.D		
Lab Sample ID:	VSTD010ZB	Client Sample ID:	VSTD010ZB
Injection Date:	20-Dec-2015 15:31:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd5.i
Sample Info:	5122015b, VSTD010ZB		
Method:	\\Organics\DD\chem\msd5.i\5122015b.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 09:08:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	Ical, Level: 3	ALS Bottle:	9
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 21:03:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	14048	10.000	9.5099	M
2 Chloromethane	50.0	2.259	2.271	-0.012	17232	10.000	9.7707	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	10268	10.000	9.9319	
4 Vinyl Chloride	62.0	2.413	2.401	0.012	13806	10.000	9.7005	
5 Bromomethane	94.0	2.781	2.793	-0.012	8753	10.000	10.404	
$ 6 Chloroethane-d5	69.0	2.864	2.864	0.000	9298	10.000	11.129	
7 Chloroethane	64.0	2.899	2.899	0.000	8378	10.000	10.285	
8 Trichlorofluoromethane	101.0	3.196	3.196	0.000	16168	10.000	9.4113	M
$ 9 1,1-Dichloroethene-d2	63.0	3.801	3.801	0.000	23833	10.000	10.017	
10 1,1-Dichloroethene	96.0	3.812	3.812	0.000	11878	10.000	9.7845	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.836	3.836	0.000	6706	10.000	9.0663	
12 Acetone	43.0	3.848	3.848	0.000	8058	20.000	23.143	
13 Carbon Disulfide	76.0	4.085	4.085	0.000	32296	10.000	10.059	
14 Methyl Acetate	43.0	4.227	4.228	-0.001	15899	10.000	11.160	
15 Methylene Chloride	84.0	4.358	4.358	0.000	13752	10.000	10.470	
16 Methyl tert-Butyl Ether	73.0	4.678	4.678	0.000	40440	10.000	10.877	
17 trans-1,2-Dichloroethene	96.0	4.678	4.678	0.000	14441	10.000	10.293	
18 1,1-Dichloroethane	63.0	5.164	5.164	0.000	27634	10.000	10.430	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	10871	20.000	22.499	
20 2-Butanone	43.0	5.828	5.828	0.000	10784	20.000	19.273	
21 cis-1,2-Dichloroethene	96.0	5.828	5.828	0.000	16737	10.000	10.601	
22 Bromochloromethane	128.0	6.113	6.113	0.000	8017	10.000	10.279	
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	23985	10.000	10.509	
24 Chloroform	83.0	6.196	6.196	0.000	26126	10.000	10.545	
25 1,1,1-Trichloroethane	97.0	6.445	6.445	0.000	19608	10.000	9.7852	
26 Cyclohexane	56.0	6.528	6.528	0.000	23489	10.000	9.0359	

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Data File: \\Organics\DD\chem\msd5.i\5122015b.b\51220A09.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.647	6.647	0.000	18806	10.000	9.5207	
$ 28 1,2-Dichloroethane-d4	65.0	6.789	6.789	0.000	15377	10.000	11.004	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	51985	10.000	10.065	
30 Benzene	78.0	6.884	6.884	0.000	59410	10.000	9.9361	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	20458	10.000	10.491	
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	0.000	229854	50.000	50.000	
33 Trichloroethene	95.0	7.655	7.643	0.012	14958	10.000	9.7797	
$ 34 1,2-Dichloropropane-d6	67.0	7.809	7.809	0.000	15629	10.000	9.9603	
35 Methylcyclohexane	83.0	7.904	7.904	0.000	23203	10.000	9.0429	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	15699	10.000	9.9103	
39 Bromodichloromethane	83.0	8.248	8.248	0.000	19402	10.000	9.9695	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	19622	10.000	10.194	
41 cis-1,3-Dichloropropene	75.0	8.746	8.746	0.000	25061	10.000	9.9148	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	31984	20.000	21.491	
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	49279	10.000	9.9819	
44 Toluene	91.0	9.113	9.113	0.000	61974	10.000	9.9303	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	21953	10.000	9.9096	
46 1,1,2-Trichloroethane	97.0	9.505	9.505	-0.001	12608	10.000	10.094	
47 Tetrachloroethene	164.0	9.671	9.671	0.000	12815	10.000	9.4143	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	12059	20.000	20.795	
49 2-Hexanone	43.0	9.730	9.730	0.000	24113	20.000	22.383	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	15916	10.000	10.042	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	13447	10.000	10.111	
* 52 Chlorobenzene-d5	117.0	10.429	10.430	-0.001	216493	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	41561	10.000	9.9413	
54 Ethylbenzene	91.0	10.536	10.536	0.000	67896	10.000	9.8764	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	26966	10.000	9.7689	
56 o-Xylene	106.0	10.975	10.975	0.000	26619	10.000	10.063	
57 Styrene	104.0	10.987	10.987	0.000	46316	10.000	10.141	
58 Bromoform	173.0	11.153	11.153	0.000	11377	10.000	10.521	
59 Isopropylbenzene	105.0	11.271	11.271	0.000	67539	10.000	9.7297	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	14290	10.000	10.323	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	16638	10.000	10.550	
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	34785	10.000	10.266	
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	108745	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	35051	10.000	10.261	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	18841	10.000	10.493	
66 1,2-Dichlorobenzene	146.0	12.576	12.588	-0.012	31882	10.000	10.102	
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	2756	10.000	10.423	
68 1,2,4-Trichlorobenzene	180.0	13.679	13.679	0.000	19506	10.000	8.7223	
69 1,2,3-Trichlorobenzene	180.0	14.034	14.035	0.000	16980	10.000	8.5278	

QC Flag Legend

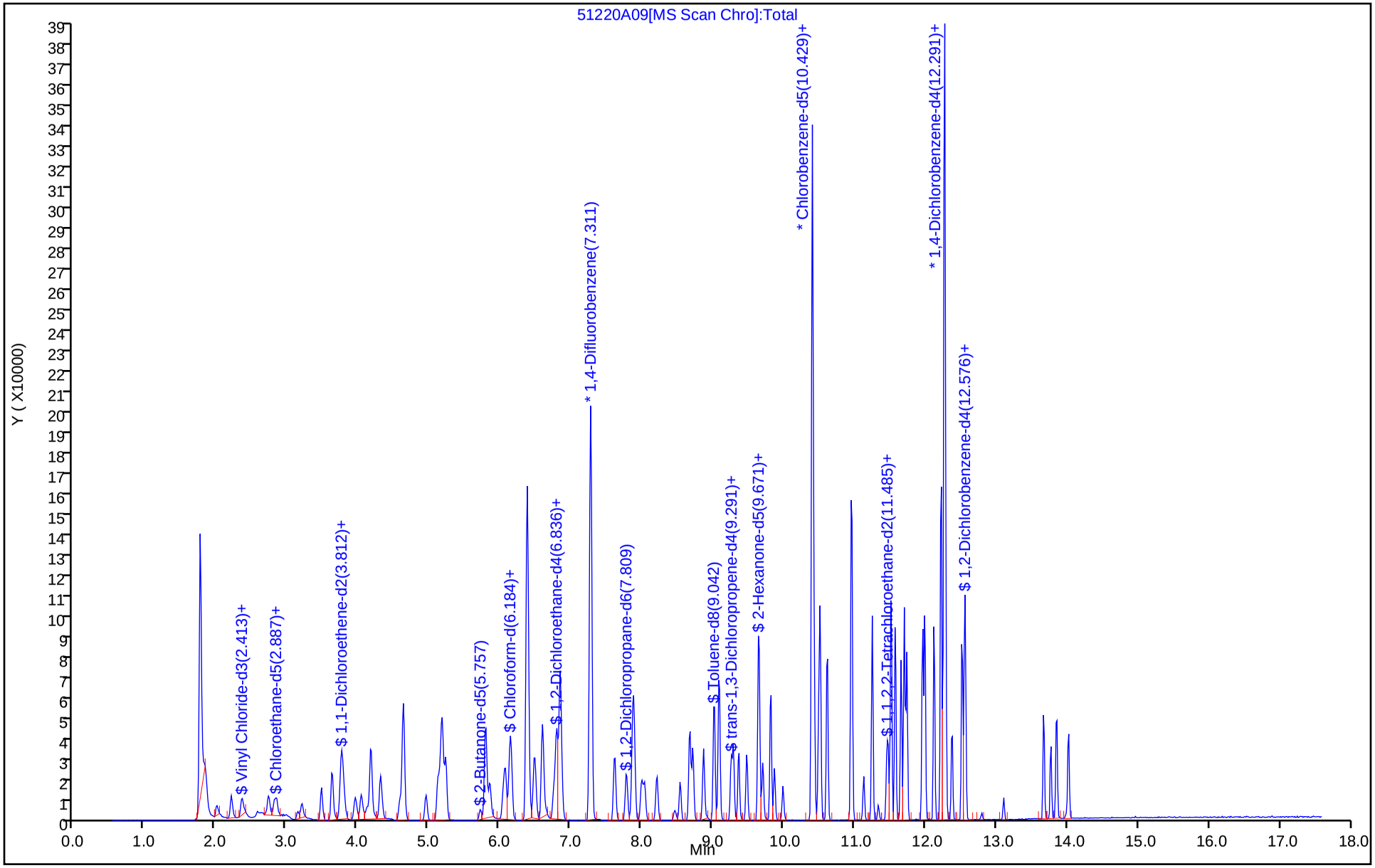
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A09.D				
Injection Date:	20-Dec-2015 15:31:30	Inst. ID:	msd5.i	Operator:	ALL
Client ID:	VSTD010ZB	Lab ID:	VSTD010ZB		
Sample Info:	5122015b, VSTD010ZB				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

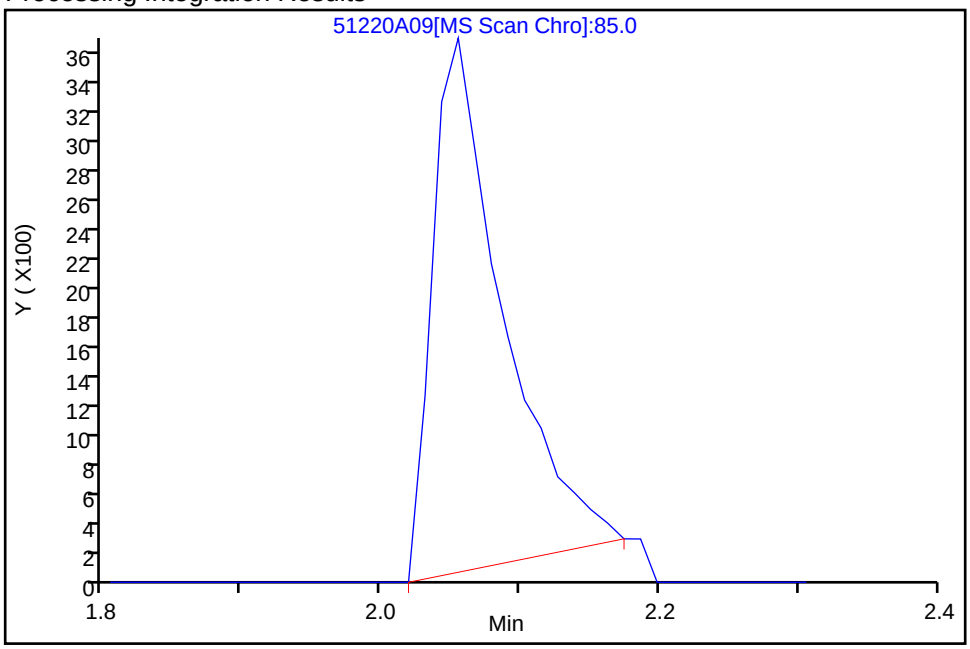
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A09.D		
Injection Date:	20-Dec-2015 15:31:30	Inst. ID:	msd5.i
Client ID:	VSTD010ZB	Lab ID:	VSTD010ZB
Sample Info:	5122015b, VSTD010ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 Dichlorodifluoromethane, CAS: 75-71-8

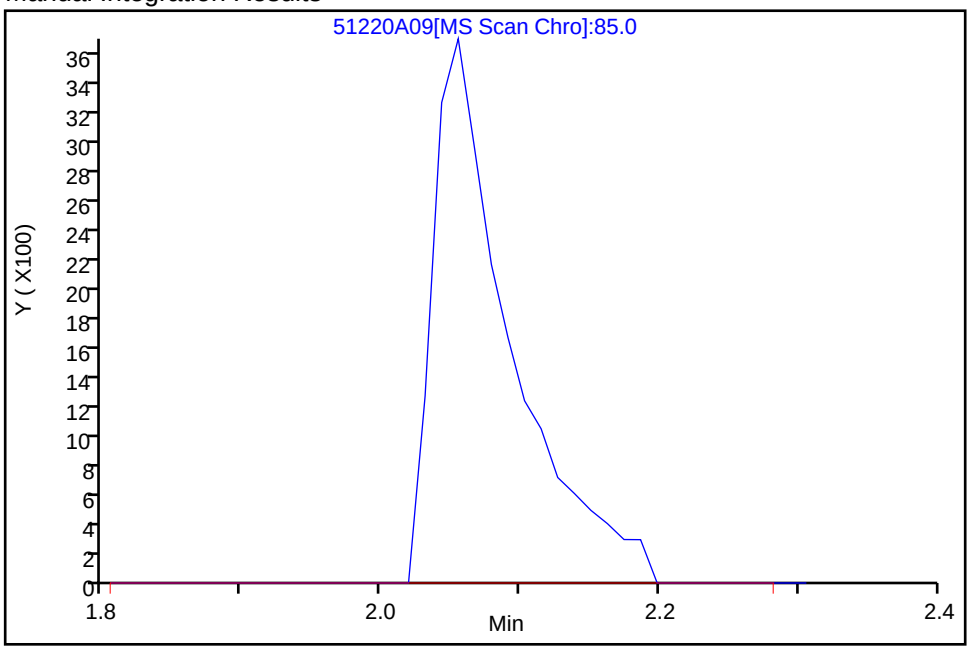
Processing Integration Results

RT:	2.057
Area:	12398
Amount:	8.2892
Amount Units:	ug/L
Conc:	



Manual Integration Results

RT:	2.057
Area:	14048
Amount:	9.5099
Amount Units:	ug/L



Data Editor: pap, 20-Dec-2015 21:03:30

Audit Action: Mint

Audit Reason: IAI

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

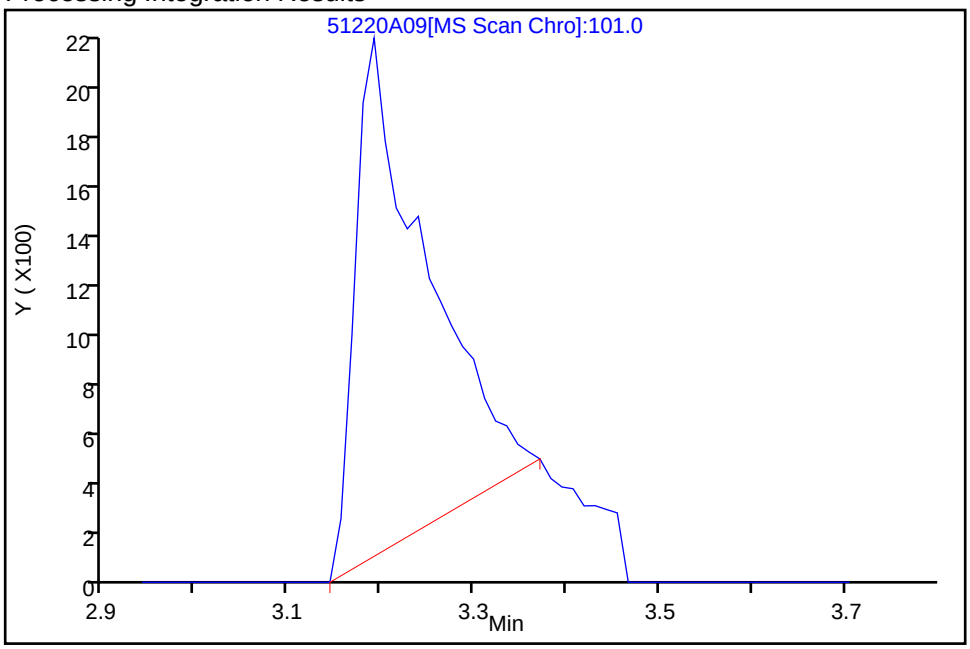
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A09.D		
Injection Date:	20-Dec-2015 15:31:30	Inst. ID:	msd5.i
Client ID:	VSTD010ZB	Lab ID:	VSTD010ZB
Sample Info:	5122015b, VSTD010ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

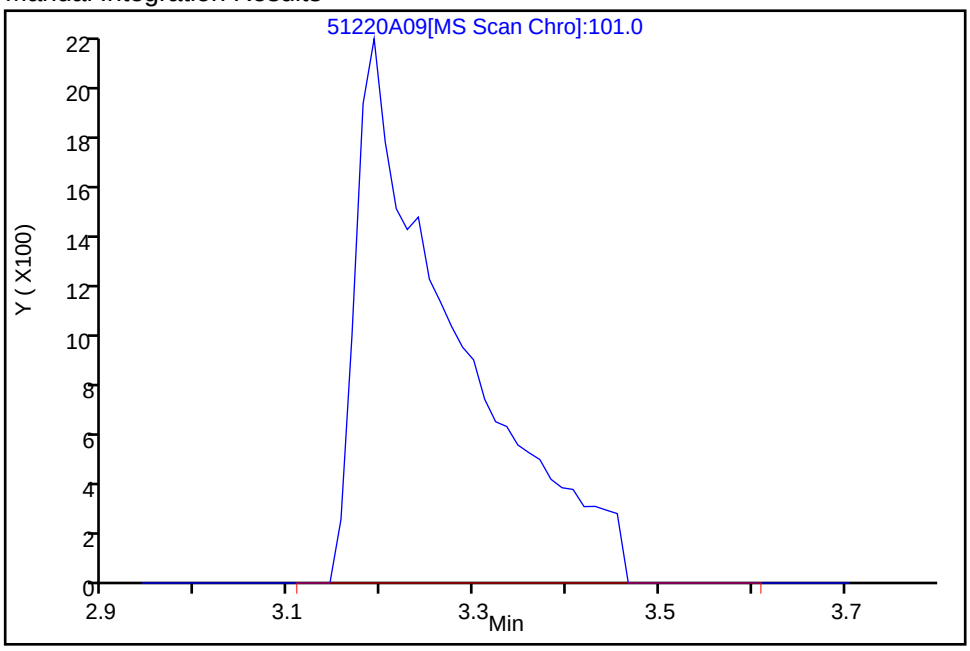
Processing Integration Results

RT: 3.196
Area: 10957
Amount: 7.1075
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.196
Area: 16168
Amount: 9.4113
Amount Units: ug/L



Data Editor: pap, 20-Dec-2015 21:03:30
Audit Action: Mint
Audit Reason: IAI

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A10.D		
Lab Sample ID:	VSTD050ZB	Client Sample ID:	VSTD050ZB
Injection Date:	20-Dec-2015 15:53:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd5.i
Sample Info:	5122015b, VSTD050ZB		
Method:	\\Organics\DD\chem\msd5.i\5122015b.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 09:08:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	Ical, Level: 4	ALS Bottle:	10
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 20:57:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	74382	50.000	50.140	
2 Chloromethane	50.0	2.271	2.271	0.000	88065	50.000	49.722	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	51841	50.000	49.931	
4 Vinyl Chloride	62.0	2.401	2.401	0.000	71770	50.000	50.214	
5 Bromomethane	94.0	2.793	2.793	0.000	41784	50.000	49.456	
$ 6 Chloroethane-d5	69.0	2.864	2.864	0.000	43386	50.000	51.709	
7 Chloroethane	64.0	2.899	2.899	0.000	41755	50.000	51.042	
8 Trichlorofluoromethane	101.0	3.196	3.196	0.000	92596	50.000	53.671	M
$ 9 1,1-Dichloroethene-d2	63.0	3.801	3.801	0.000	121621	50.000	50.902	
10 1,1-Dichloroethene	96.0	3.812	3.812	0.000	61902	50.000	50.775	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.836	3.836	0.000	32561	50.000	43.835	
12 Acetone	43.0	3.848	3.848	0.000	36570	100.00	104.58	
13 Carbon Disulfide	76.0	4.085	4.085	0.000	152210	50.000	47.209	
14 Methyl Acetate	43.0	4.228	4.228	0.000	68108	50.000	47.603	
15 Methylene Chloride	84.0	4.358	4.358	0.000	63333	50.000	48.014	
16 Methyl tert-Butyl Ether	73.0	4.678	4.678	0.000	178678	50.000	47.855	
17 trans-1,2-Dichloroethene	96.0	4.678	4.678	0.000	66922	50.000	47.499	
18 1,1-Dichloroethane	63.0	5.164	5.164	0.000	128898	50.000	48.442	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	52517	100.00	108.23	
20 2-Butanone	43.0	5.828	5.828	0.000	62275	100.00	110.83	
21 cis-1,2-Dichloroethene	96.0	5.828	5.828	0.000	75822	50.000	47.822	
22 Bromochloromethane	128.0	6.113	6.113	0.000	38293	50.000	48.889	
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	113845	50.000	49.668	
24 Chloroform	83.0	6.196	6.196	0.000	118109	50.000	47.469	
25 1,1,1-Trichloroethane	97.0	6.445	6.445	0.000	90259	50.000	46.715	
26 Cyclohexane	56.0	6.528	6.528	0.000	121619	50.000	48.522	

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122015b.b\51220A10.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.647	6.647	0.000	93605	50.000	49.148	
$ 28 1,2-Dichloroethane-d4	65.0	6.789	6.789	0.000	72600	50.000	51.734	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	242022	50.000	48.596	
30 Benzene	78.0	6.884	6.884	0.000	276519	50.000	47.964	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	95147	50.000	48.587	
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	0.000	230833	50.000	50.000	
33 Trichloroethene	95.0	7.643	7.643	0.000	69751	50.000	47.297	
$ 34 1,2-Dichloropropane-d6	67.0	7.809	7.809	0.000	73333	50.000	48.470	
35 Methylcyclohexane	83.0	7.904	7.904	0.000	120656	50.000	48.769	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	72574	50.000	47.515	
39 Bromodichloromethane	83.0	8.248	8.248	0.000	90504	50.000	48.231	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	89898	50.000	48.440	
41 cis-1,3-Dichloropropene	75.0	8.746	8.746	0.000	115518	50.000	47.399	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	139735	100.00	97.376	
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	232617	50.000	48.868	
44 Toluene	91.0	9.113	9.113	0.000	287881	50.000	47.841	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	100991	50.000	47.280	
46 1,1,2-Trichloroethane	97.0	9.505	9.505	0.000	57240	50.000	47.526	
47 Tetrachloroethene	164.0	9.671	9.671	0.000	63107	50.000	48.082	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	57115	100.00	102.15	
49 2-Hexanone	43.0	9.730	9.730	0.000	95838	100.00	92.264	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	72402	50.000	47.379	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	60823	50.000	47.430	
* 52 Chlorobenzene-d5	117.0	10.430	10.430	0.000	208743	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	192121	50.000	47.661	
54 Ethylbenzene	91.0	10.536	10.536	0.000	317899	50.000	47.960	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	128061	50.000	48.115	
56 o-Xylene	106.0	10.975	10.975	0.000	121693	50.000	47.711	
57 Styrene	104.0	10.987	10.987	0.000	210244	50.000	47.741	
58 Bromoform	173.0	11.153	11.153	0.000	52317	50.000	48.542	
59 Isopropylbenzene	105.0	11.271	11.271	0.000	319811	50.000	47.783	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	65597	50.000	49.144	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	73702	50.000	48.467	
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	160600	50.000	47.559	
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	108379	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	160569	50.000	47.165	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	87000	50.000	48.617	
66 1,2-Dichlorobenzene	146.0	12.588	12.588	0.000	148862	50.000	47.329	
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	13341	50.000	50.627	
68 1,2,4-Trichlorobenzene	180.0	13.679	13.679	0.000	102855	50.000	46.148	
69 1,2,3-Trichlorobenzene	180.0	14.035	14.035	0.000	87751	50.000	44.220	

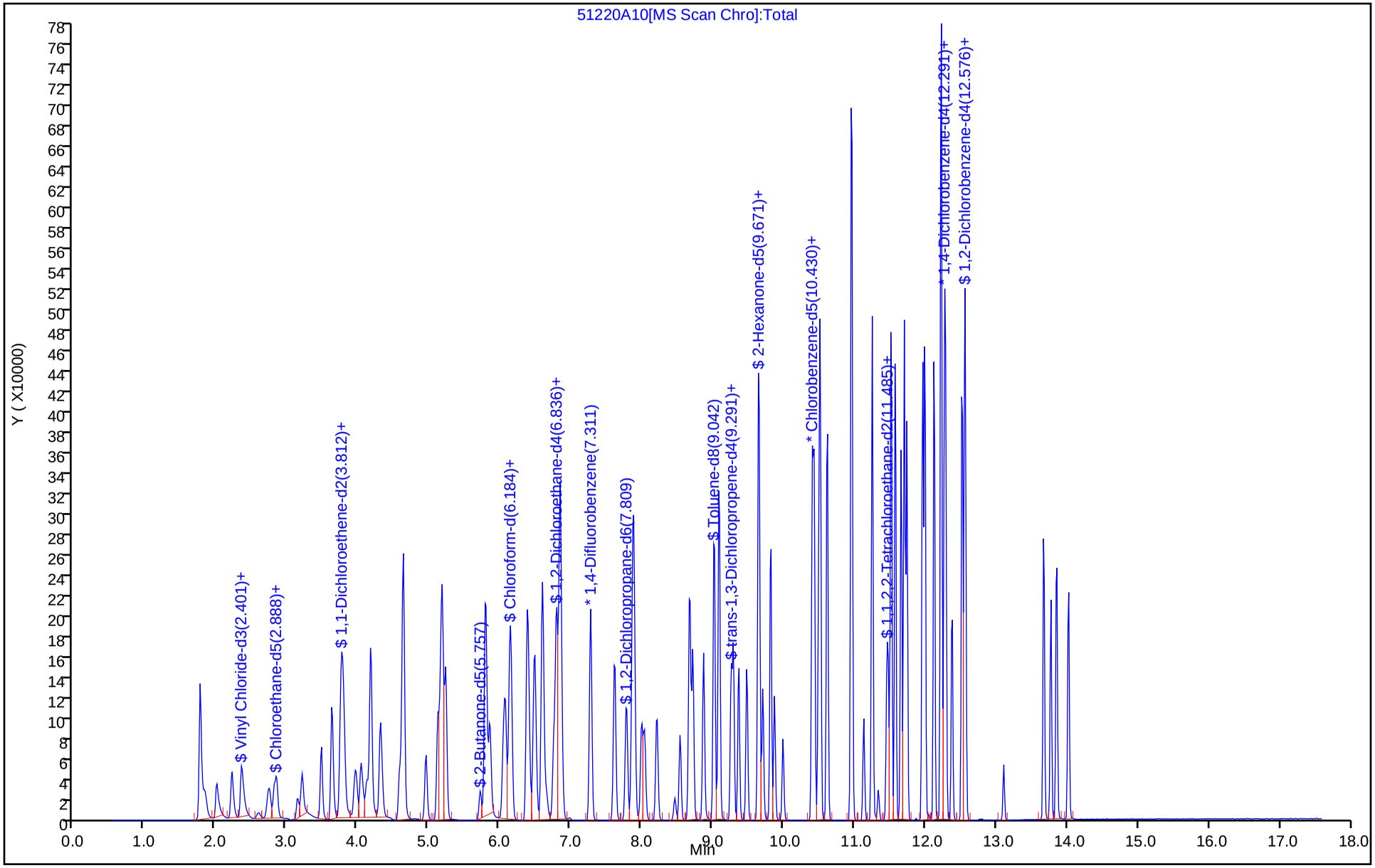
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A10.D				
Injection Date:	20-Dec-2015 15:53:30	Inst. ID:	msd5.i	Operator:	ALL
Client ID:	VSTD050ZB	Lab ID:	VSTD050ZB		
Sample Info:	5122015b, VSTD050ZB				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

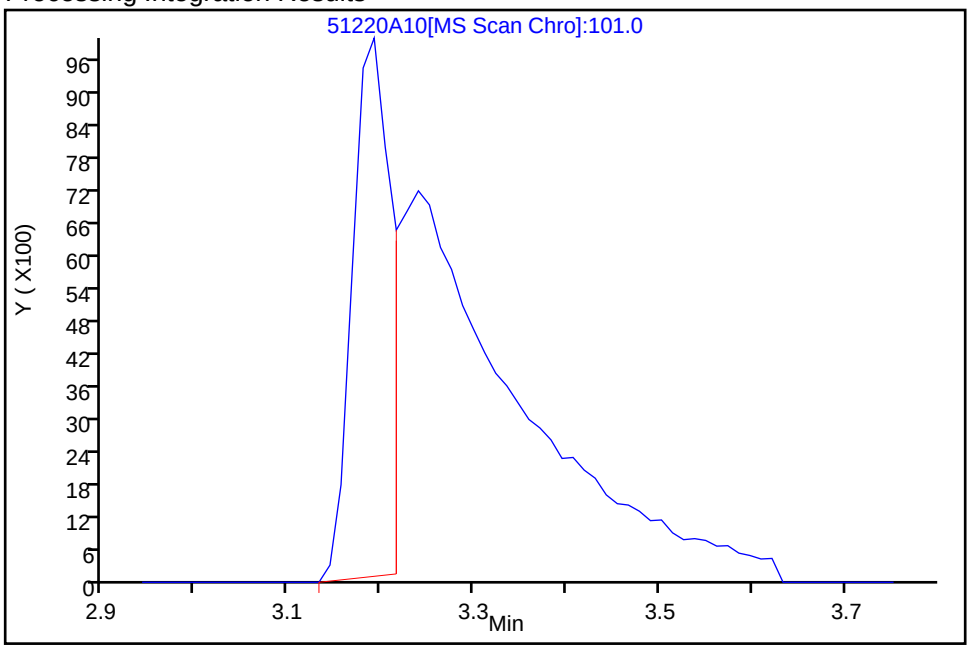
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A10.D		
Injection Date:	20-Dec-2015 15:53:30	Inst. ID:	msd5.i
Client ID:	VSTD050ZB	Lab ID:	VSTD050ZB
Sample Info:	5122015b, VSTD050ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

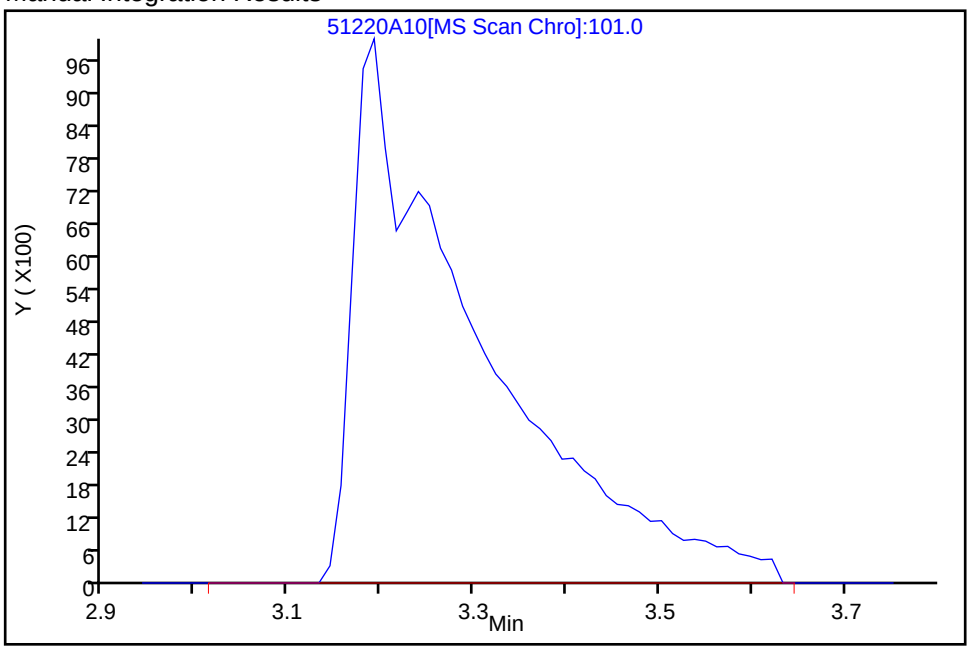
Processing Integration Results

RT: 3.196
Area: 26855
Amount: 50.000
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.196
Area: 92596
Amount: 53.671
Amount Units: ug/L



Data Editor: pap, 20-Dec-2015 20:57:30
Audit Action: Mint
Audit Reason: IAI

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A11.D		
Lab Sample ID:	VSTD100ZB	Client Sample ID:	VSTD100ZB
Injection Date:	20-Dec-2015 16:15:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd5.i
Sample Info:	5122015b, VSTD100ZB		
Method:	\\Organics\DD\chem\msd5.i\5122015b.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 09:08:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	Ical, Level: 5	ALS Bottle:	11
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 20:59:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	160151	100.00	106.02	
2 Chloromethane	50.0	2.271	2.271	0.000	182454	100.00	101.17	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	106378	100.00	100.63	
4 Vinyl Chloride	62.0	2.413	2.401	0.012	151689	100.00	104.23	
5 Bromomethane	94.0	2.792	2.793	-0.001	87216	100.00	101.38	
$ 6 Chloroethane-d5	69.0	2.864	2.864	0.000	82769	100.00	96.882	
7 Chloroethane	64.0	2.899	2.899	0.000	84131	100.00	101.00	
8 Trichlorofluoromethane	101.0	3.196	3.196	0.000	197989	100.00	112.71	M
$ 9 1,1-Dichloroethene-d2	63.0	3.800	3.801	-0.001	246625	100.00	101.37	
10 1,1-Dichloroethene	96.0	3.812	3.812	0.000	126732	100.00	102.09	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.836	3.836	0.000	80744	100.00	106.76	
12 Acetone	43.0	3.848	3.848	0.000	53692	200.00	150.80	
13 Carbon Disulfide	76.0	4.085	4.085	0.000	324308	100.00	98.786	
14 Methyl Acetate	43.0	4.227	4.228	-0.001	135341	100.00	92.901	
15 Methylene Chloride	84.0	4.358	4.358	0.000	133713	100.00	99.557	
16 Methyl tert-Butyl Ether	73.0	4.678	4.678	0.000	367309	100.00	96.614	
17 trans-1,2-Dichloroethene	96.0	4.678	4.678	0.000	144207	100.00	100.52	
18 1,1-Dichloroethane	63.0	5.164	5.164	0.000	266732	100.00	98.449	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	102345	200.00	207.15	
20 2-Butanone	43.0	5.828	5.828	0.000	107659	200.00	188.16	
21 cis-1,2-Dichloroethene	96.0	5.840	5.828	0.012	160992	100.00	99.723	
22 Bromochloromethane	128.0	6.113	6.113	0.000	80705	100.00	101.19	
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	235653	100.00	100.97	
24 Chloroform	83.0	6.196	6.196	0.000	246887	100.00	97.449	
25 1,1,1-Trichloroethane	97.0	6.445	6.445	0.000	198878	100.00	106.10	
26 Cyclohexane	56.0	6.528	6.528	0.000	263199	100.00	108.24	

Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122015b.b\51220A11.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.646	6.647	-0.001	195694	100.00	105.91	
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.789	0.012	140997	100.00	98.675	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	508222	100.00	105.18	
30 Benzene	78.0	6.884	6.884	0.000	580094	100.00	103.71	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	196331	100.00	98.462	
* 32 1,4-Difluorobenzene	114.0	7.310	7.311	-0.001	235039	50.000	50.000	
33 Trichloroethene	95.0	7.654	7.643	0.011	150045	100.00	104.87	
$ 34 1,2-Dichloropropane-d6	67.0	7.820	7.809	0.011	151166	100.00	102.98	
35 Methylcyclohexane	83.0	7.903	7.904	-0.001	256651	100.00	106.93	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	155607	100.00	105.01	
39 Bromodichloromethane	83.0	8.247	8.248	-0.001	189812	100.00	104.26	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	185422	100.00	102.98	
41 cis-1,3-Dichloropropene	75.0	8.745	8.746	-0.001	245739	100.00	103.93	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	264153	200.00	189.74	
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	478243	100.00	103.56	
44 Toluene	91.0	9.125	9.113	0.012	599502	100.00	102.69	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	212335	100.00	102.46	
46 1,1,2-Trichloroethane	97.0	9.504	9.505	-0.001	118775	100.00	101.65	
47 Tetrachloroethene	164.0	9.670	9.671	-0.001	133387	100.00	104.75	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	105867	200.00	195.16	
49 2-Hexanone	43.0	9.730	9.730	0.000	182741	200.00	181.33	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	150797	100.00	101.71	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	123888	100.00	99.578	
* 52 Chlorobenzene-d5	117.0	10.429	10.430	-0.001	202518	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	390330	100.00	99.809	
54 Ethylbenzene	91.0	10.536	10.536	0.000	644016	100.00	100.15	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	259588	100.00	100.53	
56 o-Xylene	106.0	10.975	10.975	0.000	245734	100.00	99.304	
57 Styrene	104.0	10.987	10.987	0.000	422592	100.00	98.910	
58 Bromoform	173.0	11.153	11.153	0.000	103966	100.00	100.38	
59 Isopropylbenzene	105.0	11.271	11.271	0.000	647551	100.00	99.724	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	123082	100.00	95.046	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	138919	100.00	94.162	
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	322691	100.00	99.441	
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	104149	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	323884	100.00	99.001	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	167618	100.00	97.471	
66 1,2-Dichlorobenzene	146.0	12.588	12.588	0.000	296086	100.00	97.960	
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	24002	100.00	94.784	
68 1,2,4-Trichlorobenzene	180.0	13.690	13.679	0.011	215348	100.00	100.54	
69 1,2,3-Trichlorobenzene	180.0	14.034	14.035	0.000	194208	100.00	101.84	

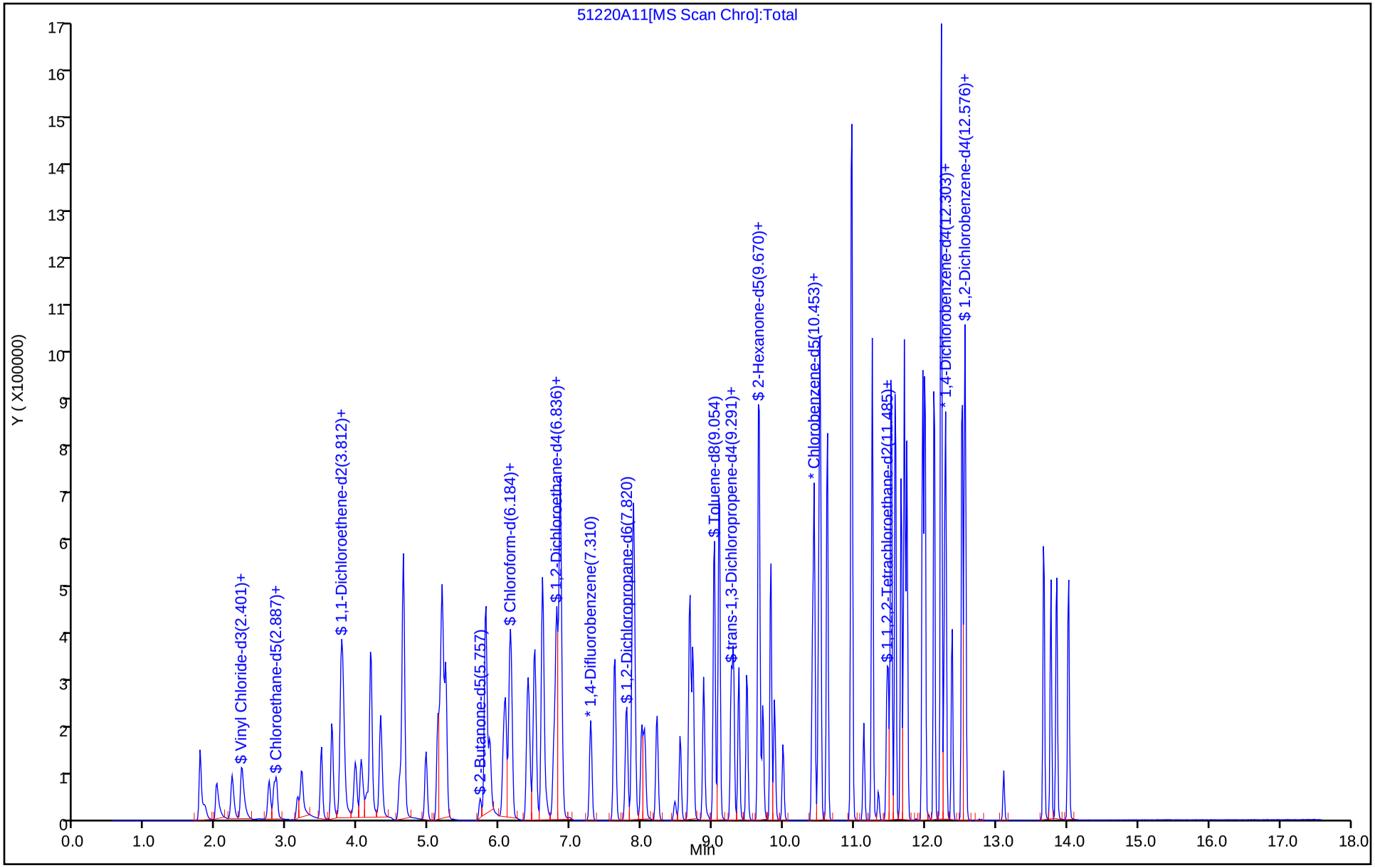
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A11.D				
Injection Date:	20-Dec-2015 16:15:30	Inst. ID:	msd5.i	Operator:	ALL
Client ID:	VSTD100ZB	Lab ID:	VSTD100ZB		
Sample Info:	5122015b, VSTD100ZB				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 21-Dec-2015 09:10:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

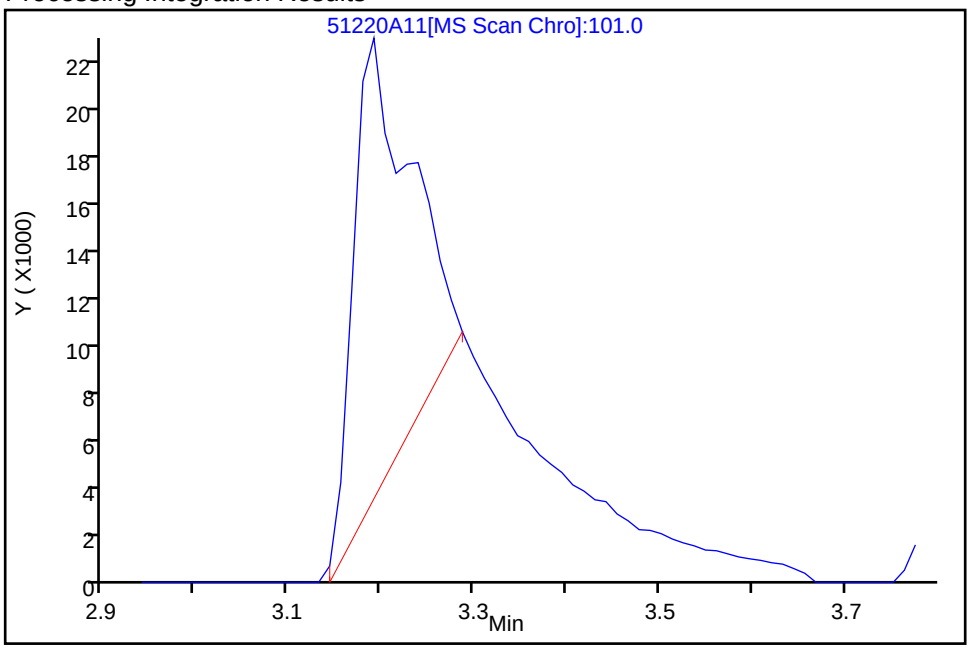
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A11.D		
Injection Date:	20-Dec-2015 16:15:30	Inst. ID:	msd5.i
Client ID:	VSTD100ZB	Lab ID:	VSTD100ZB
Sample Info:	5122015b, VSTD100ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

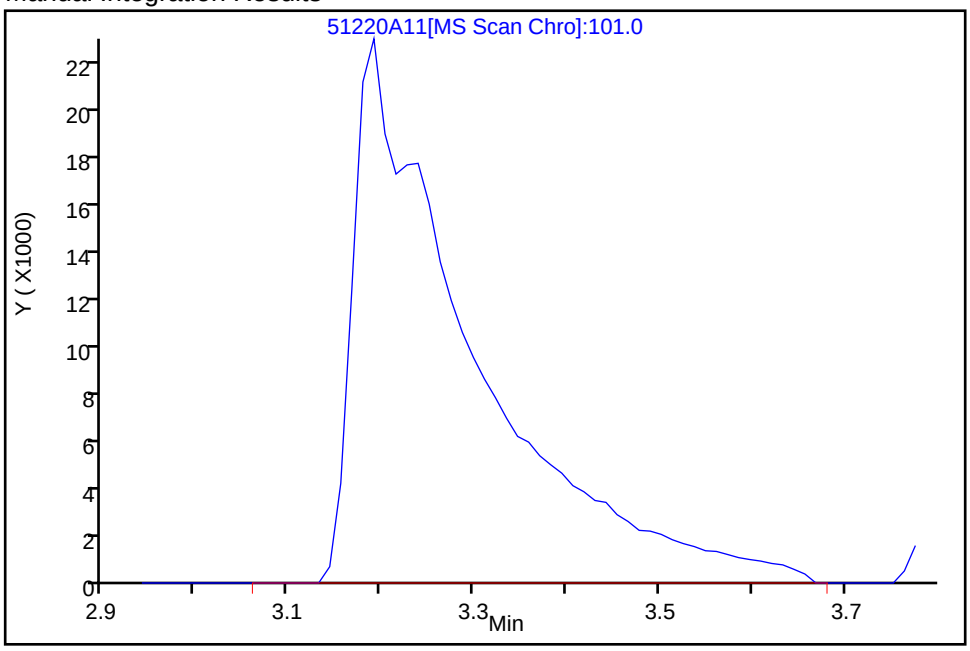
Processing Integration Results

RT: 3.196
Area: 80166
Amount: 59.662
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.196
Area: 197989
Amount: 112.71
Amount Units: ug/L



Data Editor: pap, 20-Dec-2015 20:59:30
Audit Action: Mint
Audit Reason: IAI

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A12.D		
Lab Sample ID:	VSTD200ZB	Client Sample ID:	VSTD200ZB
Injection Date:	20-Dec-2015 16:36:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd5.i
Sample Info:	5122015b, VSTD200ZB		
Method:	\\Organics\DD\chem\msd5.i\5122015b.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 09:08:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	Ical, Level: 6	ALS Bottle:	12
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 20:59:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.045	2.057	-0.012	327990	200.00	229.54	
2 Chloromethane	50.0	2.271	2.271	0.000	367030	200.00	215.14	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	219773	200.00	219.76	
4 Vinyl Chloride	62.0	2.401	2.401	0.000	308665	200.00	224.21	
5 Bromomethane	94.0	2.781	2.793	-0.012	173691	200.00	213.44	
$ 6 Chloroethane-d5	69.0	2.852	2.864	-0.012	167292	200.00	207.00	
7 Chloroethane	64.0	2.875	2.899	-0.024	163475	200.00	207.47	
8 Trichlorofluoromethane	101.0	3.184	3.196	-0.012	400001	200.00	240.71	M
$ 9 1,1-Dichloroethene-d2	63.0	3.800	3.801	-0.001	494102	200.00	214.70	
10 1,1-Dichloroethene	96.0	3.812	3.812	0.000	253423	200.00	215.81	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.836	3.836	0.000	186000	200.00	259.97	
12 Acetone	43.0	3.848	3.848	0.000	85514	400.00	253.90	
13 Carbon Disulfide	76.0	4.085	4.085	0.000	655841	200.00	211.18	
14 Methyl Acetate	43.0	4.227	4.228	-0.001	240812	200.00	174.74	
15 Methylene Chloride	84.0	4.358	4.358	0.000	257342	200.00	202.55	
16 Methyl tert-Butyl Ether	73.0	4.678	4.678	0.000	695695	200.00	193.44	
17 trans-1,2-Dichloroethene	96.0	4.678	4.678	0.000	282739	200.00	208.35	
18 1,1-Dichloroethane	63.0	5.164	5.164	0.000	530329	200.00	206.92	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	152805	400.00	326.95	
20 2-Butanone	43.0	5.828	5.828	0.000	164627	400.00	304.17	
21 cis-1,2-Dichloroethene	96.0	5.828	5.828	0.000	308398	200.00	201.94	
22 Bromochloromethane	128.0	6.113	6.113	0.000	152454	200.00	202.08	
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	455644	200.00	206.38	
24 Chloroform	83.0	6.196	6.196	0.000	479763	200.00	200.19	
25 1,1,1-Trichloroethane	97.0	6.445	6.445	0.000	383825	200.00	224.39	
26 Cyclohexane	56.0	6.528	6.528	0.000	522469	200.00	235.45	

Report Date: 21-Dec-2015 09:10:32 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122015b.b\51220A12.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.646	6.647	-0.001	387413	200.00	229.76	
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.789	0.012	267552	200.00	197.94	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	986209	200.00	223.67	
30 Benzene	78.0	6.884	6.884	0.000	1124907	200.00	220.39	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	385326	200.00	204.28	
* 32 1,4-Difluorobenzene	114.0	7.310	7.311	-0.001	222339	50.000	50.000	
33 Trichloroethene	95.0	7.643	7.643	0.000	292242	200.00	223.83	
$ 34 1,2-Dichloropropane-d6	67.0	7.820	7.809	0.011	289554	200.00	216.17	
35 Methylcyclohexane	83.0	7.903	7.904	-0.001	503346	200.00	229.80	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	296790	200.00	219.48	
39 Bromodichloromethane	83.0	8.247	8.248	-0.001	362455	200.00	218.18	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	357913	200.00	217.83	
41 cis-1,3-Dichloropropene	75.0	8.745	8.746	-0.001	469109	200.00	217.41	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	470416	400.00	370.27	
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	918999	200.00	218.07	
44 Toluene	91.0	9.113	9.113	0.000	1151357	200.00	216.12	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	404869	200.00	214.09	
46 1,1,2-Trichloroethane	97.0	9.504	9.505	-0.001	224649	200.00	210.69	
47 Tetrachloroethene	164.0	9.670	9.671	-0.001	260656	200.00	224.32	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	199051	400.00	402.11	
49 2-Hexanone	43.0	9.730	9.730	0.000	346021	400.00	376.26	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	286058	200.00	211.44	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	234420	200.00	206.48	
* 52 Chlorobenzene-d5	117.0	10.429	10.430	-0.001	184806	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	756430	200.00	211.96	
54 Ethylbenzene	91.0	10.536	10.536	0.000	1263133	200.00	215.24	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	506649	200.00	215.01	
56 o-Xylene	106.0	10.975	10.975	0.000	474794	200.00	210.26	
57 Styrene	104.0	10.987	10.987	0.000	822452	200.00	210.95	
58 Bromoform	173.0	11.153	11.153	0.000	202141	200.00	200.54	
59 Isopropylbenzene	105.0	11.271	11.271	0.000	1298289	200.00	219.10	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	238715	200.00	202.01	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	268070	200.00	199.12	
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	647100	200.00	204.90	
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	101360	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	650793	200.00	204.40	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	345000	200.00	206.14	
66 1,2-Dichlorobenzene	146.0	12.588	12.588	0.000	606931	200.00	206.33	
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	49565	200.00	201.12	
68 1,2,4-Trichlorobenzene	180.0	13.678	13.679	-0.001	476180	200.00	228.44	
69 1,2,3-Trichlorobenzene	180.0	14.034	14.035	0.000	430230	200.00	231.81	

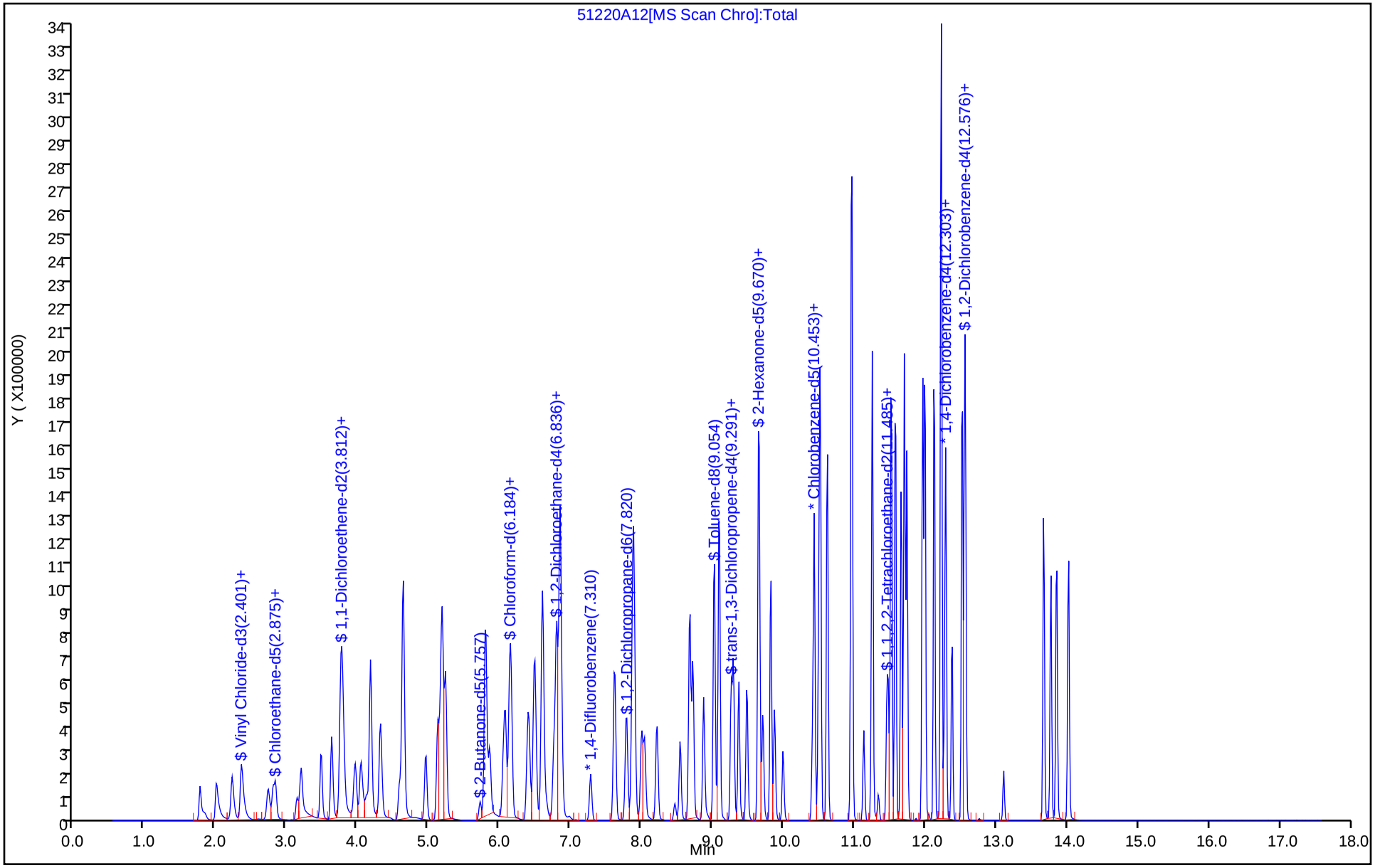
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A12.D				
Injection Date:	20-Dec-2015 16:36:30	Inst. ID:	msd5.i	Operator:	ALL
Client ID:	VSTD200ZB	Lab ID:	VSTD200ZB		
Sample Info:	5122015b, VSTD200ZB				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 21-Dec-2015 09:10:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

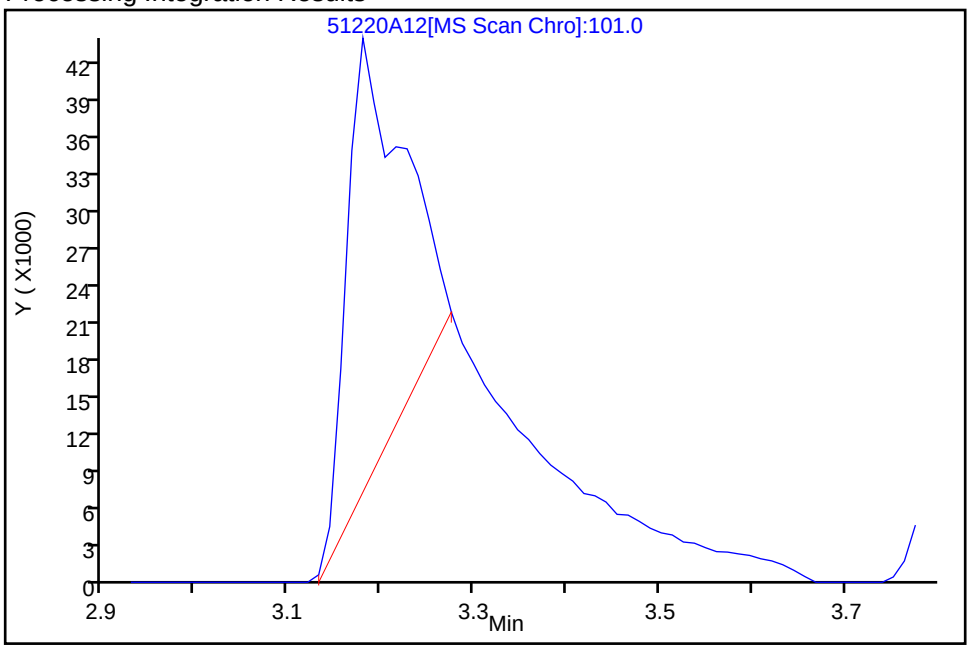
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A12.D		
Injection Date:	20-Dec-2015 16:36:30	Inst. ID:	msd5.i
Client ID:	VSTD200ZB	Lab ID:	VSTD200ZB
Sample Info:	5122015b, VSTD200ZB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

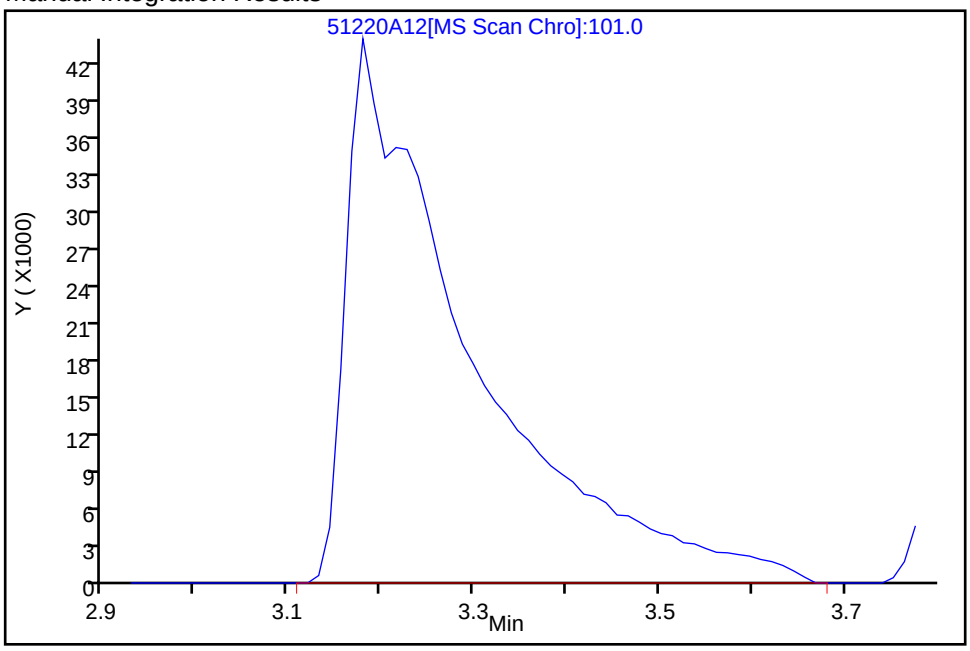
Processing Integration Results

RT: 3.184
Area: 148563
Amount: 135.68
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.184
Area: 400001
Amount: 240.71
Amount Units: ug/L



Data Editor: pap, 20-Dec-2015 20:59:30
Audit Action: Mint
Audit Reason: IAI

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date(s): 12/21/2015 12/21/2015

GC Column: DB-624 ID: 0.25 (mm) Calibration Time(s): 1504 1633

Length: 30 (m)

Heated Purge: (Y/N) Y Purge Volume: 5.0 (mL)

LAB FILE ID: 51221B02 RRF 5.0 = 51221B02 RRF 10 = 51221B03
RRF 50 = 51221B04 RRF 100 = 51221B05 RRF 200 = 51221B06

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.243	0.274	0.297	0.271	0.276	0.272	7.1
Chloromethane	0.350	0.324	0.336	0.323	0.311	0.329	4.5
Vinyl chloride	0.227	0.248	0.276	0.259	0.252	0.253	7.0
Bromomethane	0.160	0.161	0.175	0.168	0.160	0.165	4.1
Chloroethane	0.151	0.165	0.173	0.166	0.161	0.163	4.9
Trichlorofluoromethane	0.241	0.288	0.362	0.308	0.319	0.304	14.5
1,1-Dichloroethene	0.209	0.206	0.226	0.213	0.208	0.212	3.8
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.155	0.150	0.179	0.166	0.170	0.164	7.2
Acetone	0.145	0.095	0.079	0.080	0.082	0.096	29.3
Carbon disulfide	0.701	0.652	0.692	0.665	0.633	0.668	4.2
Methyl acetate	0.342	0.257	0.255	0.247	0.249	0.270	15.0
Methylene chloride	0.269	0.256	0.248	0.238	0.237	0.250	5.4
trans-1,2-Dichloroethene	0.234	0.237	0.255	0.245	0.237	0.242	3.7
Methyl tert-butyl ether	0.633	0.666	0.696	0.671	0.685	0.670	3.5
1,1-Dichloroethane	0.435	0.452	0.484	0.469	0.457	0.459	4.0
cis-1,2-Dichloroethene	0.263	0.268	0.288	0.279	0.271	0.274	3.6
2-Butanone	0.173	0.153	0.147	0.144	0.144	0.152	8.1
Bromochloromethane	0.124	0.135	0.142	0.141	0.142	0.137	5.7
Chloroform	0.422	0.428	0.450	0.430	0.425	0.431	2.5
1,1,1-Trichloroethane	0.351	0.337	0.391	0.363	0.368	0.362	5.6
Cyclohexane	0.465	0.430	0.501	0.458	0.464	0.464	5.4
Carbon tetrachloride	0.326	0.309	0.371	0.346	0.358	0.342	7.2
Benzene	1.024	0.985	1.094	1.045	1.040	1.037	3.8
1,2-Dichloroethane	0.322	0.333	0.358	0.347	0.351	0.342	4.2
Trichloroethene	0.254	0.238	0.278	0.264	0.264	0.260	5.6
Methylcyclohexane	0.438	0.413	0.476	0.429	0.442	0.439	5.3
1,2-Dichloropropane	0.273	0.259	0.298	0.288	0.288	0.281	5.4
Bromodichloromethane	0.333	0.323	0.366	0.353	0.360	0.347	5.3
cis-1,3-Dichloropropene	0.411	0.419	0.484	0.462	0.467	0.449	7.1
4-Methyl-2-pentanone	0.334	0.304	0.323	0.310	0.313	0.317	3.7
Toluene	1.094	1.025	1.171	1.114	1.104	1.102	4.7
trans-1,3-Dichloropropene	0.362	0.375	0.420	0.403	0.410	0.394	6.3
1,1,2-Trichloroethane	0.230	0.217	0.239	0.230	0.232	0.230	3.4
Tetrachloroethene	0.239	0.219	0.255	0.241	0.237	0.238	5.4
2-Hexanone	0.264	0.238	0.248	0.227	0.226	0.241	6.6

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date(s): 12/21/2015 12/21/2015

GC Column: DB-624 ID: 0.25 (mm) Calibration Time(s): 1504 1633

Length: 30 (m)

Heated Purge: (Y/N) Y Purge Volume: 5.0 (mL)

LAB FILE ID: 51221B02 RRF 5.0 = 51221B02 RRF 10 = 51221B03
RRF 50 = 51221B04 RRF 100 = 51221B05 RRF 200 = 51221B06

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Dibromochloromethane	0.272	0.263	0.303	0.291	0.298	0.285	6.0
1,2-Dibromoethane	0.225	0.221	0.250	0.242	0.246	0.237	5.5
Chlorobenzene	0.739	0.712	0.798	0.761	0.753	0.753	4.2
Ethylbenzene	1.238	1.150	1.313	1.223	1.218	1.228	4.7
m, p-Xylene	0.500	0.461	0.529	0.500	0.491	0.496	4.9
o-Xylene	0.471	0.461	0.515	0.487	0.484	0.484	4.2
Styrene	0.834	0.815	0.894	0.837	0.830	0.842	3.6
Bromoform	0.312	0.360	0.392	0.388	0.392	0.369	9.3
Isopropylbenzene	1.259	1.194	1.345	1.265	1.259	1.264	4.3
1,1,2,2-Tetrachloroethane	0.296	0.294	0.319	0.303	0.310	0.304	3.4
1,3-Dichlorobenzene	1.266	1.175	1.249	1.200	1.152	1.208	4.0
1,4-Dichlorobenzene	1.304	1.185	1.260	1.198	1.154	1.220	5.0
1,2-Dichlorobenzene	1.155	1.132	1.200	1.147	1.113	1.150	2.8
1,2-Dibromo-3-chloropropane	0.104	0.093	0.108	0.107	0.105	0.103	5.8
1,2,4-Trichlorobenzene	0.821	0.797	0.844	0.813	0.815	0.818	2.1
1,2,3-Trichlorobenzene	0.763	0.705	0.792	0.732	0.753	0.749	4.3
Vinyl Chloride-d3	0.150	0.169	0.177	0.169	0.170	0.167	6.1
Chloroethane-d5	0.152	0.157	0.164	0.154	0.153	0.156	3.2
1,1-Dichloroethene-d2	0.403	0.408	0.444	0.428	0.427	0.422	4.0
2-Butanone-d5	0.161	0.140	0.139	0.132	0.135	0.141	8.4
Chloroform-d	0.387	0.395	0.410	0.404	0.399	0.399	2.2
1,2-Dichloroethane-d4	0.228	0.249	0.250	0.242	0.245	0.243	3.7
Benzene-d6	0.861	0.844	0.922	0.883	0.895	0.881	3.4
1,2-Dichloropropane-d6	0.258	0.257	0.284	0.272	0.275	0.269	4.4
Toluene-d8	0.847	0.814	0.897	0.857	0.865	0.856	3.5
trans-1,3-Dichloropropene-d4	0.340	0.321	0.364	0.348	0.357	0.346	4.8
2-Hexanone-d5	0.145	0.124	0.129	0.122	0.123	0.129	7.5
1,1,2,2-Tetrachloroethane-d2	0.265	0.255	0.272	0.263	0.272	0.265	2.6
1,2-Dichlorobenzene-d4	0.695	0.640	0.663	0.635	0.622	0.651	4.4

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Lab Sample ID:	VSTD005SC	Client Sample ID:	VSTD005SC
Injection Date:	21-Dec-2015 15:04:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VSTD005SC		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5.m		
Method Date:	21-Dec-2015 16:58:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	Ical, Level: 2	ALS Bottle:	2
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 16:42:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	4593	5.0000	4.4635	QM
2 Chloromethane	50.0	2.247	2.271	-0.024	6614	5.0000	5.3211	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	2829	5.0000	4.4814	
4 Vinyl Chloride	62.0	2.413	2.413	0.000	4297	5.0000	4.5019	
5 Bromomethane	94.0	2.792	2.804	-0.012	3024	5.0000	4.8574	
$ 6 Chloroethane-d5	69.0	2.875	2.887	-0.012	2879	5.0000	4.8803	QM
7 Chloroethane	64.0	2.911	2.911	0.000	2860	5.0000	4.6340	
8 Trichlorofluoromethane	101.0	3.207	3.208	-0.001	4553	5.0000	3.9672	M
$ 9 1,1-Dichloroethene-d2	63.0	3.800	3.801	-0.001	7611	5.0000	4.7730	
10 1,1-Dichloroethene	96.0	3.812	3.824	-0.012	3946	5.0000	4.9177	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.836	3.848	-0.012	2927	5.0000	4.7218	
12 Acetone	43.0	3.848	3.848	0.000	5490	10.000	15.108	
13 Carbon Disulfide	76.0	4.085	4.097	-0.012	13241	5.0000	5.2406	
14 Methyl Acetate	43.0	4.227	4.227	0.000	6454	5.0000	6.3310	
15 Methylene Chloride	84.0	4.358	4.358	0.000	5083	5.0000	5.3884	
16 Methyl tert-Butyl Ether	73.0	4.678	4.678	0.000	11972	5.0000	4.7262	
17 trans-1,2-Dichloroethene	96.0	4.678	4.690	-0.012	4417	5.0000	4.8378	
18 1,1-Dichloroethane	63.0	5.164	5.164	0.000	8212	5.0000	4.7303	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	6103	10.000	11.438	M
20 2-Butanone	43.0	5.828	5.828	0.000	6553	10.000	11.389	
21 cis-1,2-Dichloroethene	96.0	5.828	5.840	-0.012	4962	5.0000	4.7971	
22 Bromochloromethane	128.0	6.113	6.125	-0.012	2343	5.0000	4.5317	Q
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	7311	5.0000	4.8489	
24 Chloroform	83.0	6.196	6.196	0.000	7983	5.0000	4.8987	
25 1,1,1-Trichloroethane	97.0	6.433	6.445	-0.012	6222	5.0000	4.8496	Q
26 Cyclohexane	56.0	6.528	6.528	0.000	8246	5.0000	5.0185	

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.646	6.647	-0.001	5778	5.0000	4.7700	
$ 28 1,2-Dichloroethane-d4	65.0	6.789	6.801	-0.012	4310	5.0000	4.6967	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	15260	5.0000	4.8878	
30 Benzene	78.0	6.884	6.884	0.000	18147	5.0000	4.9359	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	6089	5.0000	4.7053	M
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	0.000	188989	50.000	50.000	
33 Trichloroethene	95.0	7.643	7.655	-0.012	4498	5.0000	4.8885	
$ 34 1,2-Dichloropropane-d6	67.0	7.809	7.821	-0.012	4571	5.0000	4.7926	
35 Methylcyclohexane	83.0	7.903	7.904	-0.001	7758	5.0000	4.9831	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	4837	5.0000	4.8523	M
39 Bromodichloromethane	83.0	8.247	8.248	-0.001	5899	5.0000	4.7964	QM
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	6017	5.0000	4.9111	
41 cis-1,3-Dichloropropene	75.0	8.745	8.746	-0.001	7284	5.0000	4.5825	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	11829	10.000	10.535	
$ 43 Toluene-d8	98.0	9.042	9.054	-0.012	15014	5.0000	4.9495	QM
44 Toluene	91.0	9.113	9.125	-0.012	19377	5.0000	4.9641	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	6407	5.0000	4.5886	
46 1,1,2-Trichloroethane	97.0	9.504	9.505	0.000	4067	5.0000	4.9980	
47 Tetrachloroethene	164.0	9.670	9.671	-0.001	4237	5.0000	5.0145	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	5140	10.000	11.273	
49 2-Hexanone	43.0	9.730	9.730	0.000	9361	10.000	10.981	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	4813	5.0000	4.7631	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	3987	5.0000	4.7521	
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	177182	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	13094	5.0000	4.9090	
54 Ethylbenzene	91.0	10.536	10.536	0.000	21940	5.0000	5.0403	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	8855	5.0000	5.0363	
56 o-Xylene	106.0	10.975	10.975	0.000	8338	5.0000	4.8644	
57 Styrene	104.0	10.987	10.987	0.000	14773	5.0000	4.9509	
58 Bromoform	173.0	11.153	11.153	0.000	2900	5.0000	4.2309	QM
59 Isopropylbenzene	105.0	11.271	11.271	0.000	22305	5.0000	4.9779	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	4687	5.0000	4.9885	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	5250	5.0000	4.8687	QM
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	11756	5.0000	5.2377	Q
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	92875	50.000	50.000	Q
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	12109	5.0000	5.3434	QM
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	6459	5.0000	5.3393	
66 1,2-Dichlorobenzene	146.0	12.588	12.588	0.000	10724	5.0000	5.0225	QM
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	962	5.0000	5.0068	
68 1,2,4-Trichlorobenzene	180.0	13.690	13.691	-0.001	7628	5.0000	5.0201	QM
69 1,2,3-Trichlorobenzene	180.0	14.034	14.034	0.000	7082	5.0000	5.0912	QM

QC Flag Legend

Processing Flags

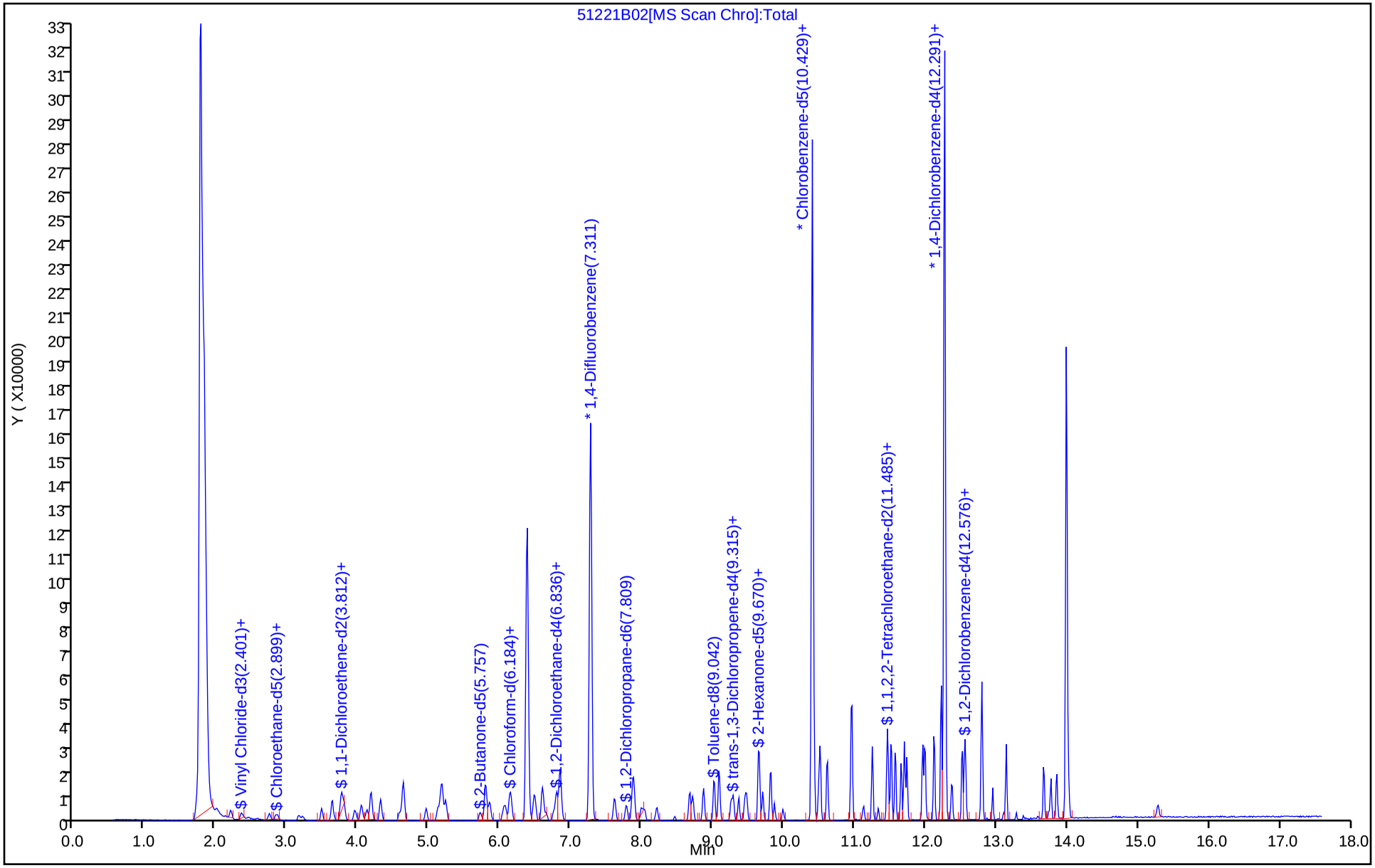
Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D				
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD005SC	Lab ID:	VSTD005SC		
Sample Info:	5122115b, VSTD005SC				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

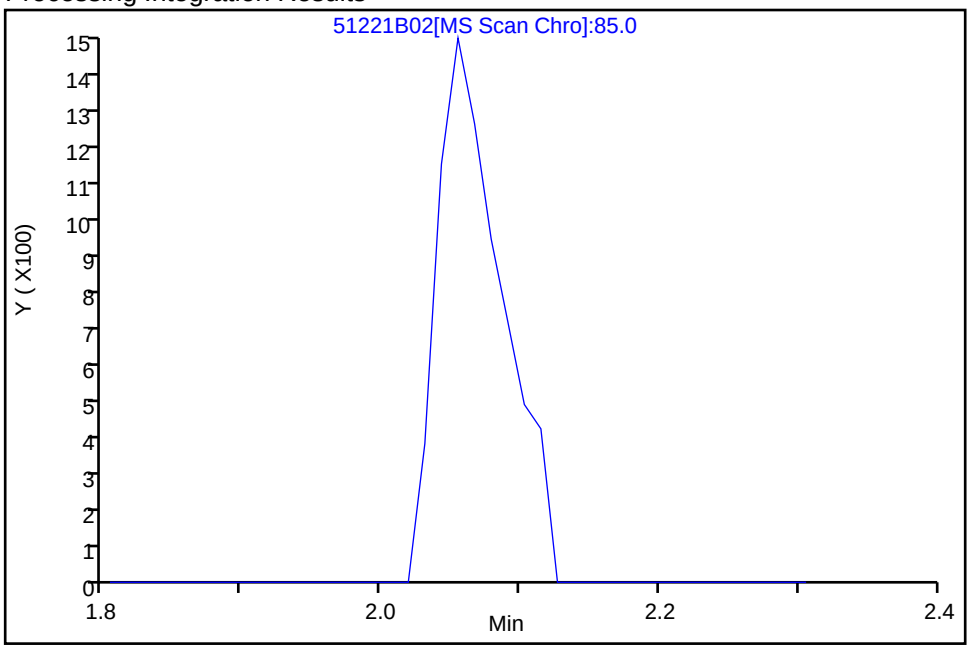
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 Dichlorodifluoromethane, CAS: 75-71-8

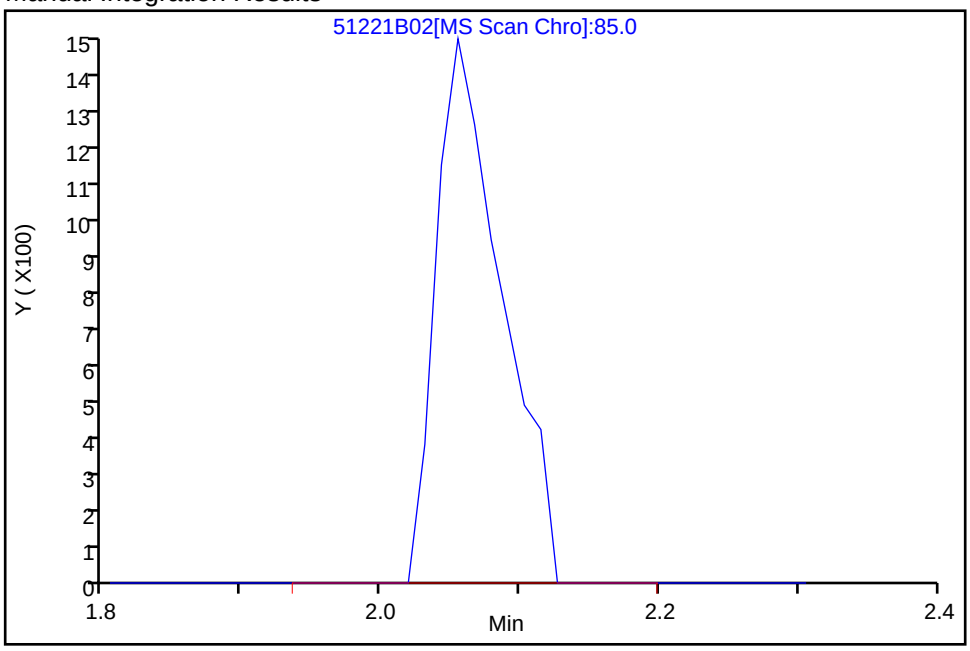
Processing Integration Results

Not Detected
2.057



Manual Integration Results

RT:	2.057
Area:	4593
Amount:	4.4635
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:40:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

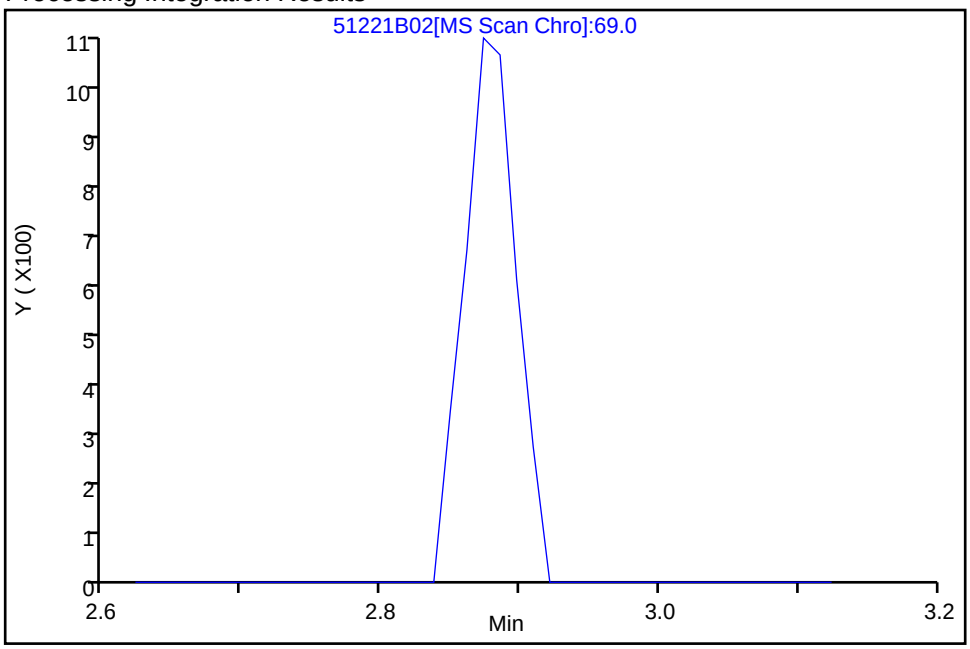
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 6 Chloroethane-d5, CAS: 19199-91-8

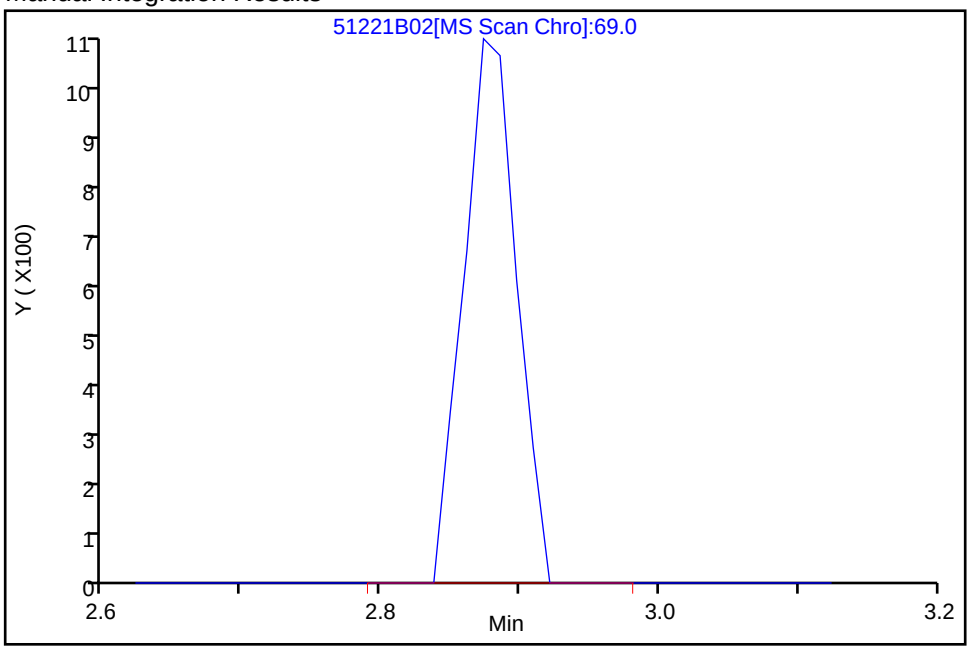
Processing Integration Results

Not Detected
2.887



Manual Integration Results

RT:	2.875
Area:	2879
Amount:	4.8803
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:40:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

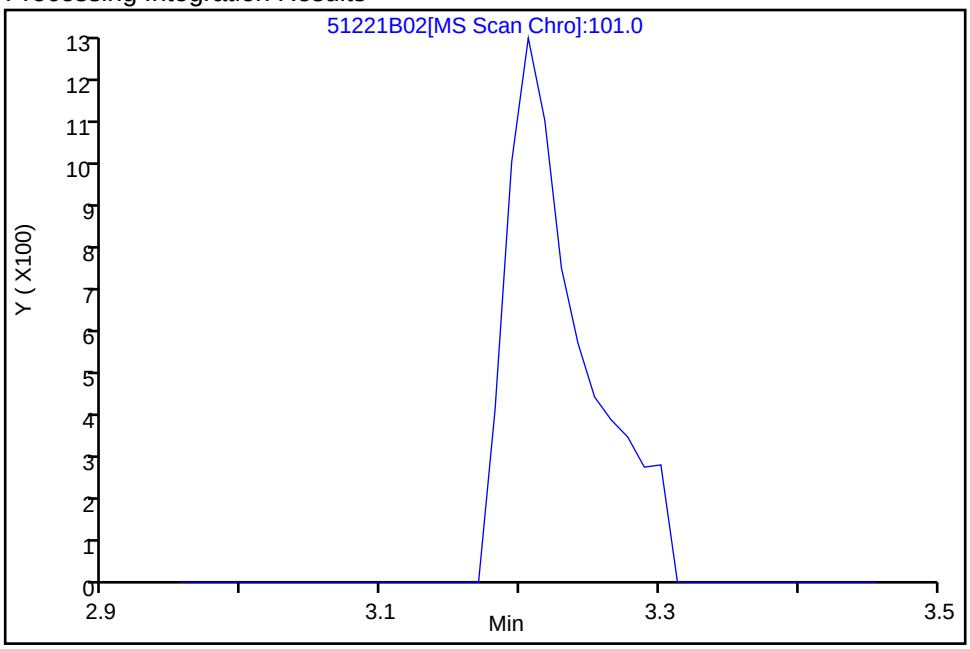
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

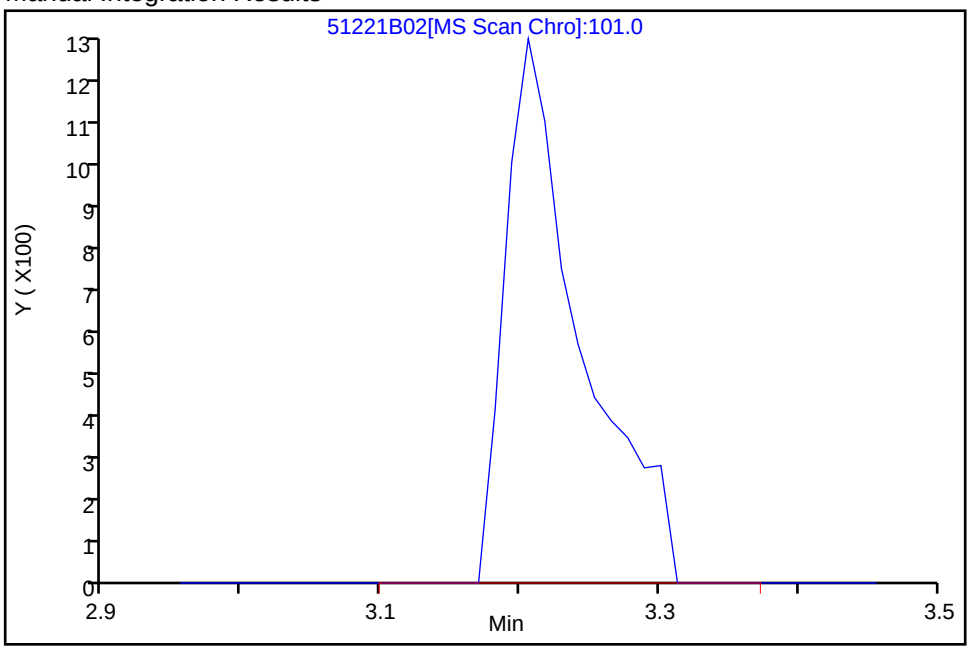
Processing Integration Results

Not Detected
3.208



Manual Integration Results

RT:	3.207
Area:	4553
Amount:	3.9672
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:40:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

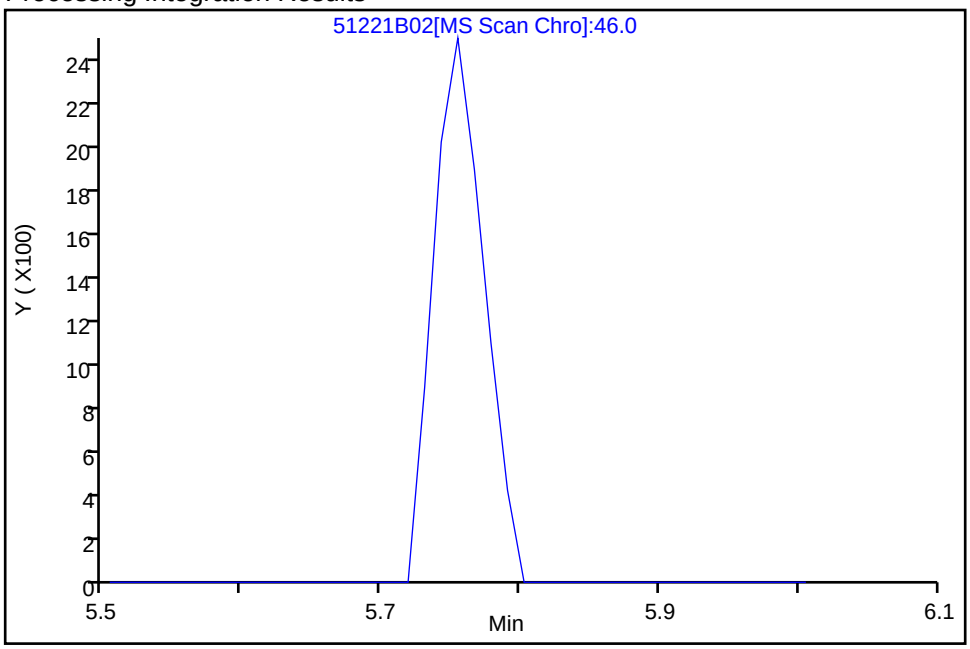
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 19 2-Butanone-d5, CAS: 24313-50-6

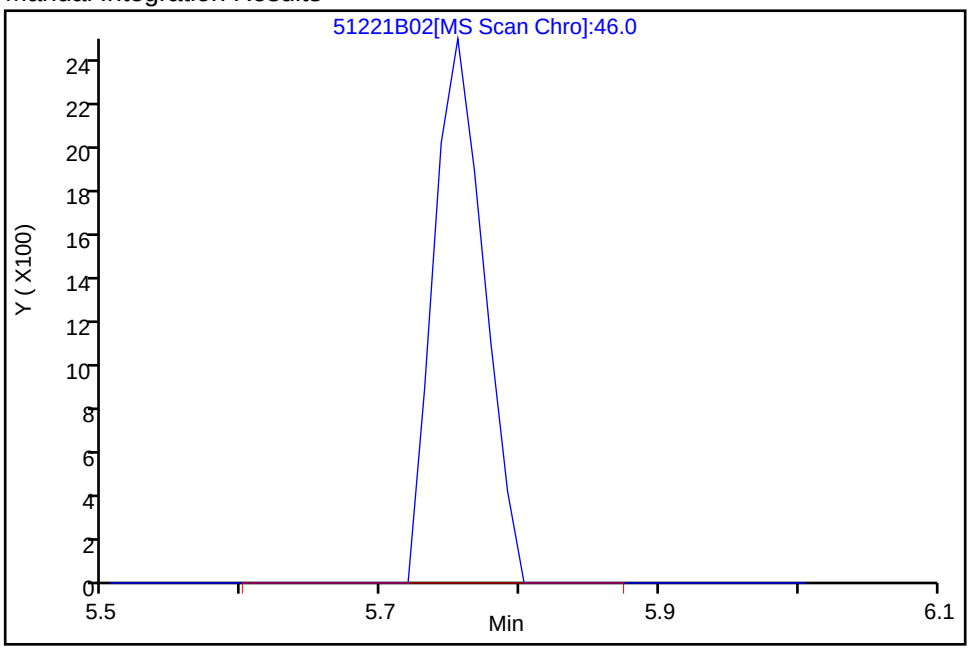
Processing Integration Results

Not Detected
5.757



Manual Integration Results

RT:	5.757
Area:	6103
Amount:	11.438
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:40:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

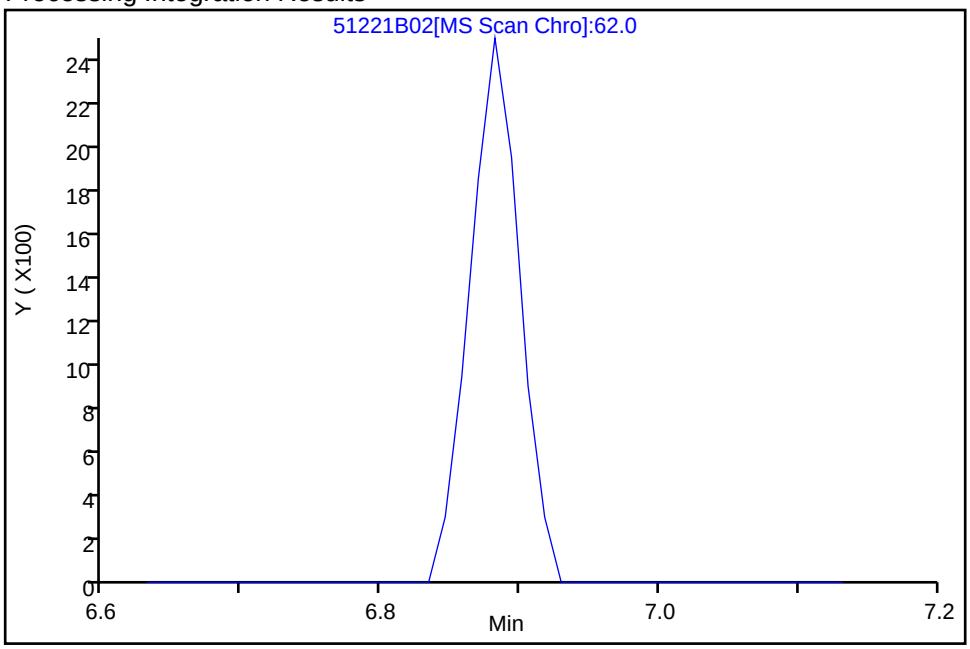
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

31 1,2-Dichloroethane, CAS: 107-06-2

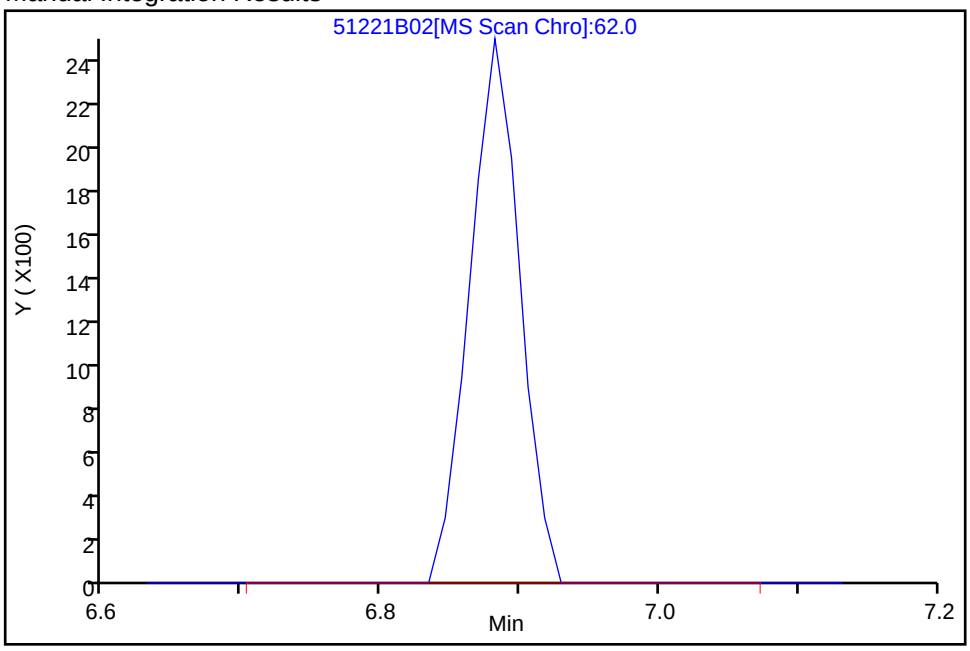
Processing Integration Results

Not Detected
6.884



Manual Integration Results

RT:	6.884
Area:	6089
Amount:	4.7053
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:41:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

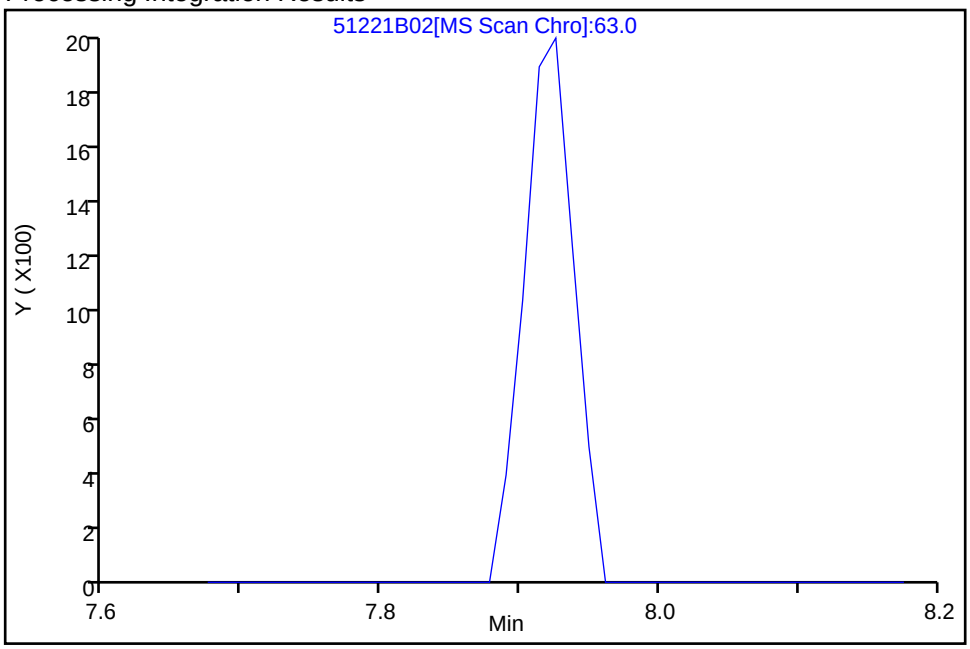
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

36 1,2-Dichloropropane, CAS: 78-87-5

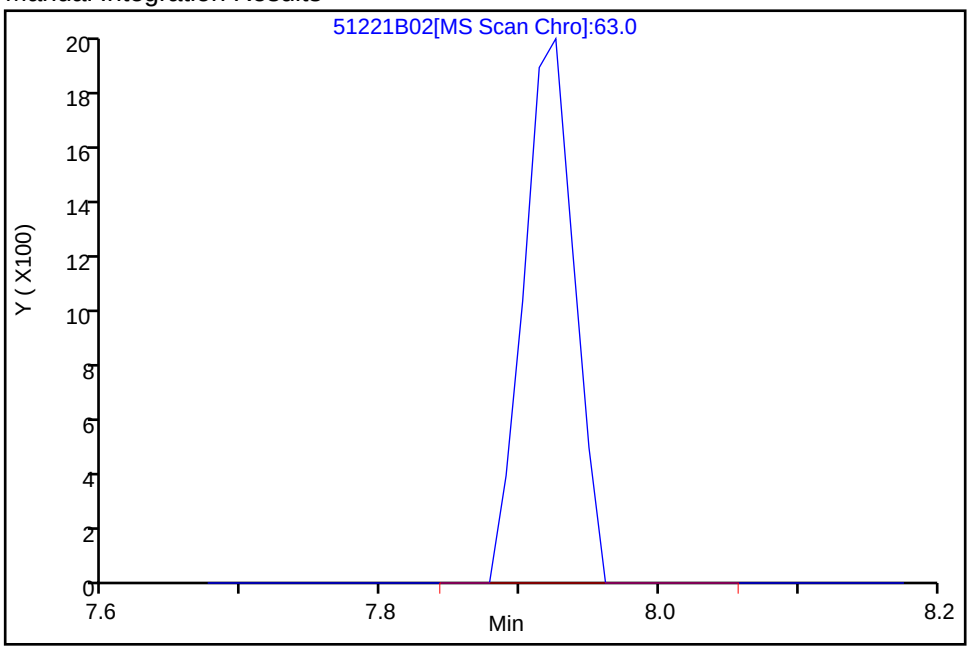
Processing Integration Results

Not Detected
7.927



Manual Integration Results

RT:	7.927
Area:	4837
Amount:	4.8523
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:41:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

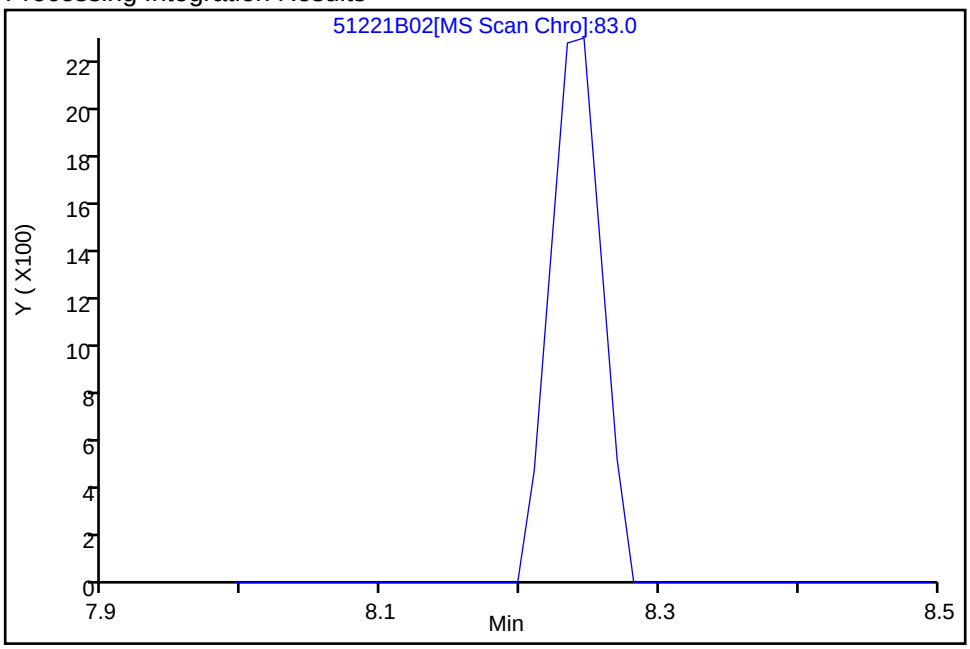
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

39 Bromodichloromethane, CAS: 75-27-4

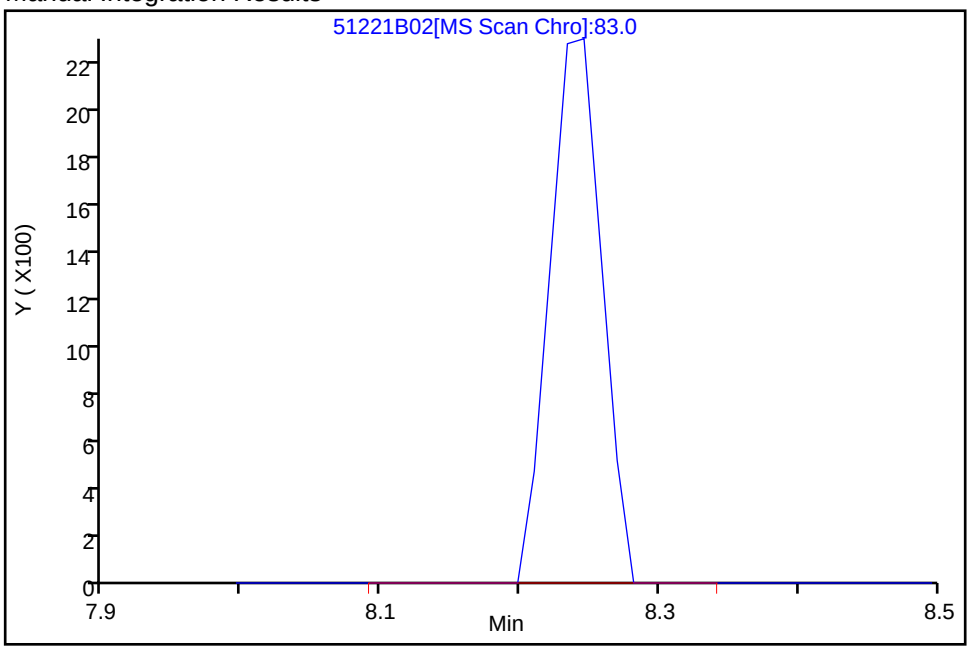
Processing Integration Results

Not Detected
8.248



Manual Integration Results

RT:	8.247
Area:	5899
Amount:	4.7964
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:41:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

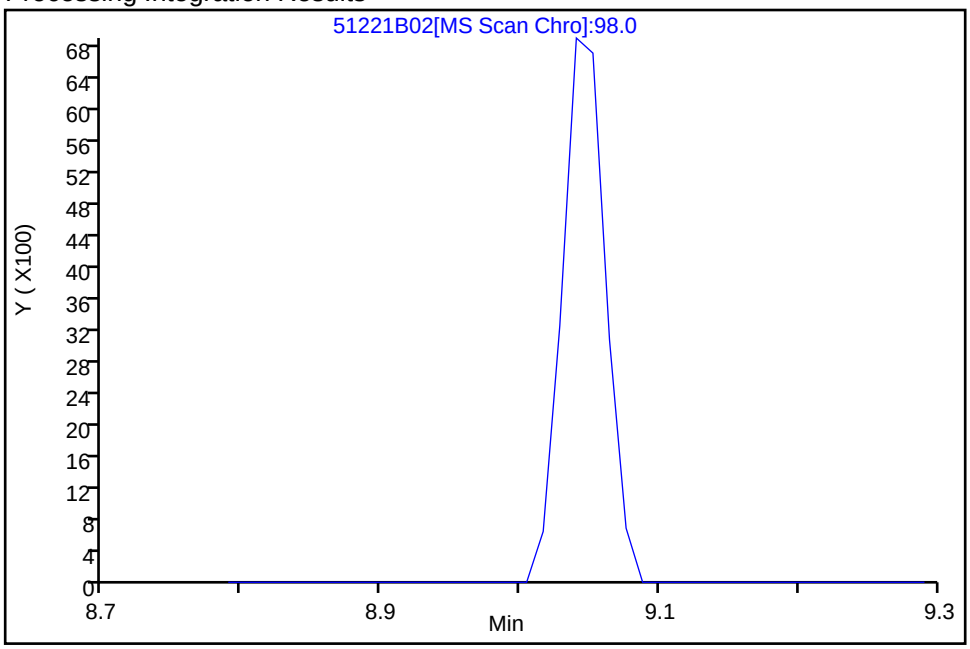
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 43 Toluene-d8, CAS: 2037-26-5

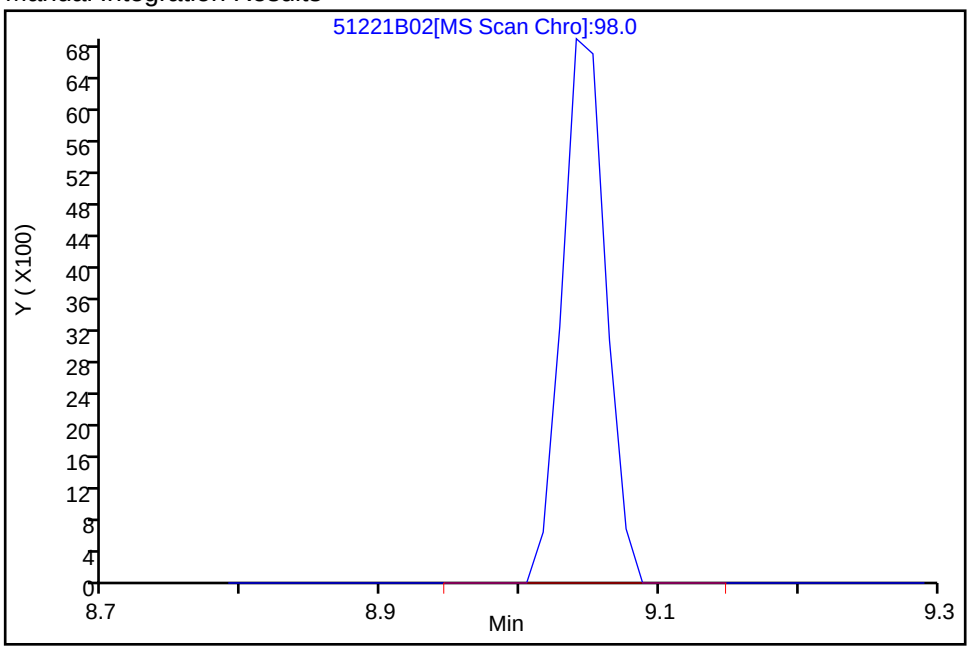
Processing Integration Results

Not Detected
9.054



Manual Integration Results

RT:	9.042
Area:	15014
Amount:	4.9495
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:41:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

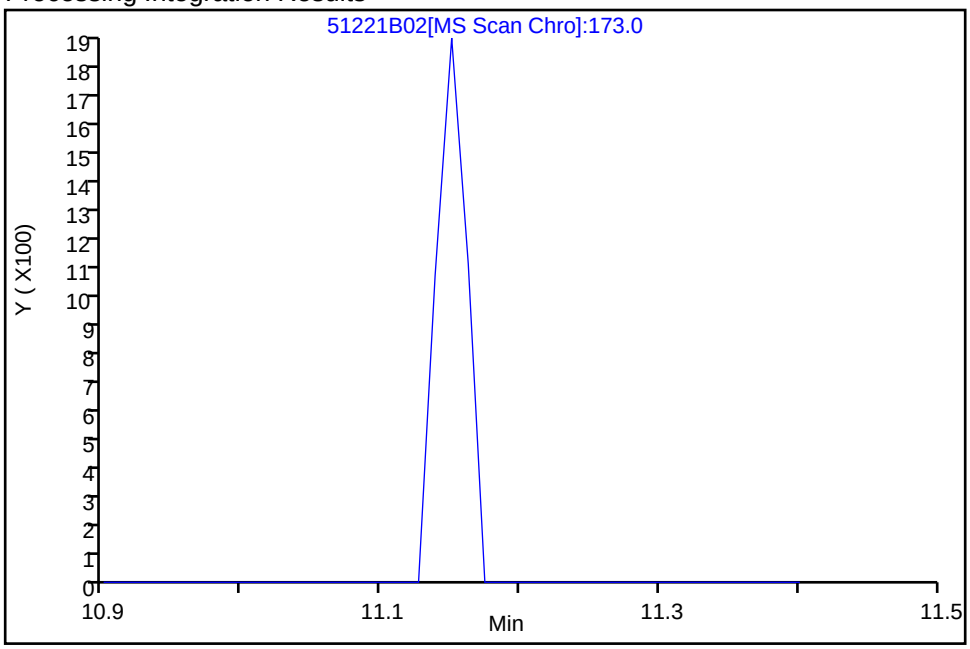
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

58 Bromoform, CAS: 75-25-2

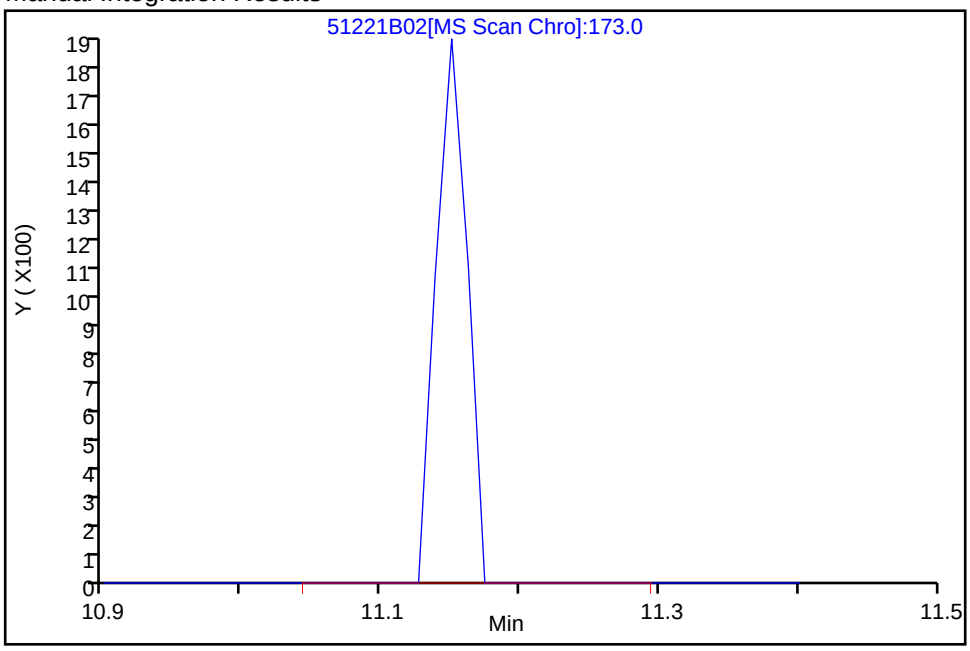
Processing Integration Results

Not Detected
11.153



Manual Integration Results

RT:	11.153
Area:	2900
Amount:	4.2309
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:41:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

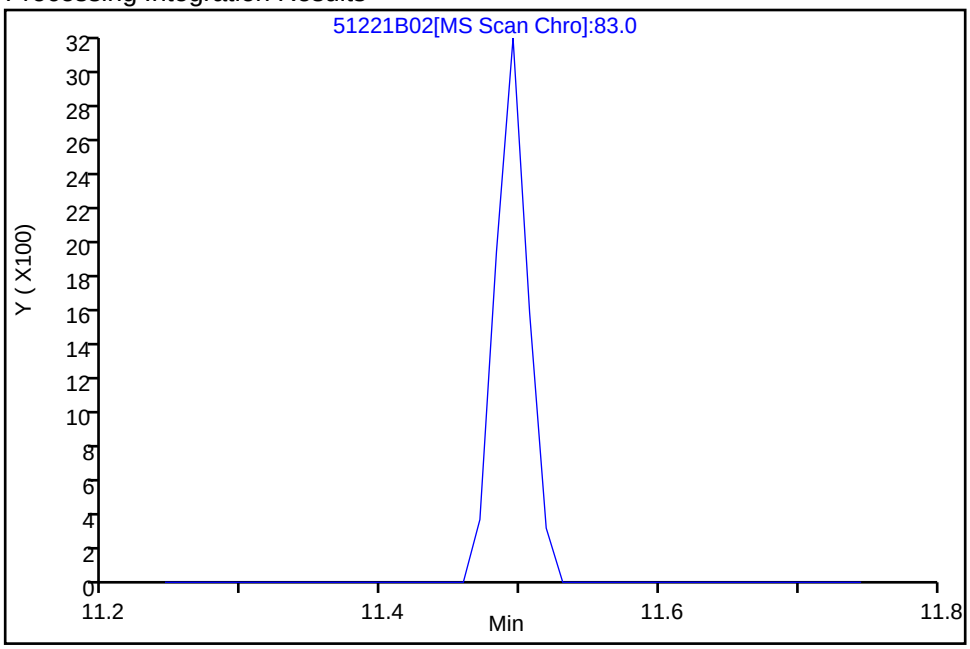
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

61 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

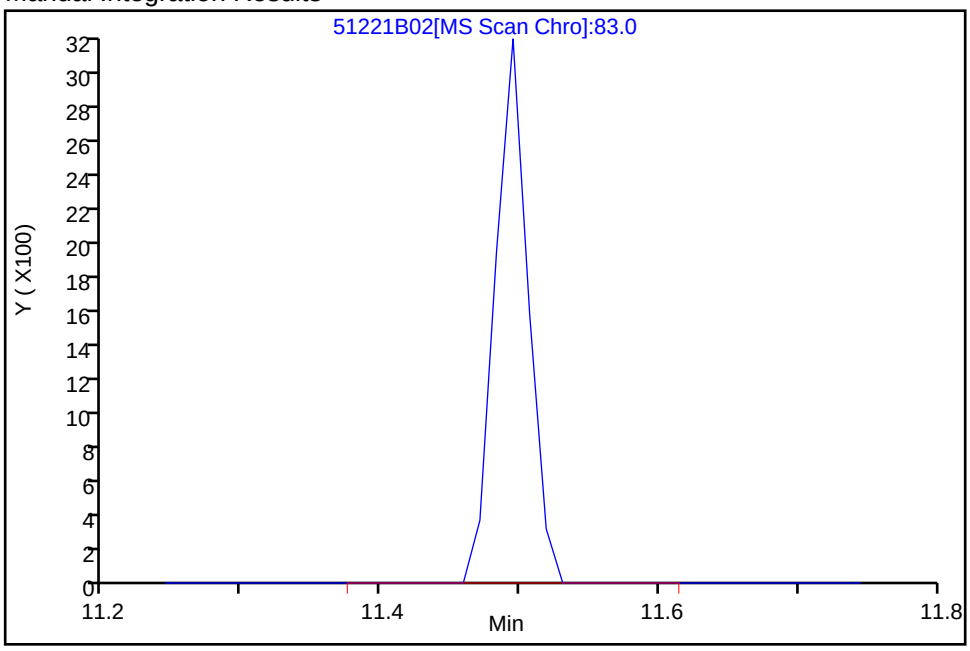
Processing Integration Results

Not Detected
11.497



Manual Integration Results

RT:	11.497
Area:	5250
Amount:	4.8687
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:41:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

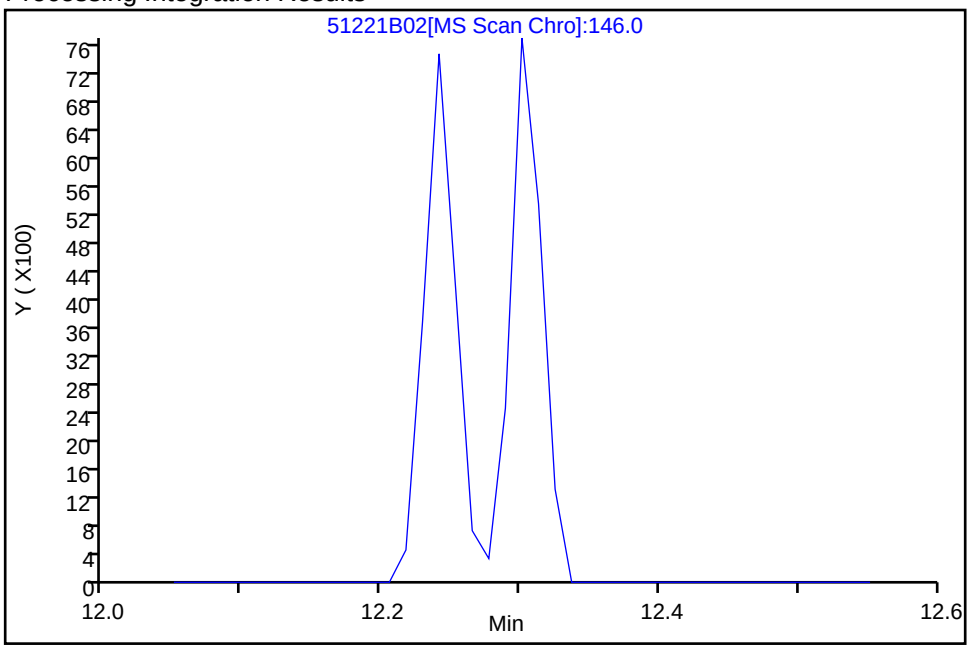
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

64 1,4-Dichlorobenzene, CAS: 106-46-7

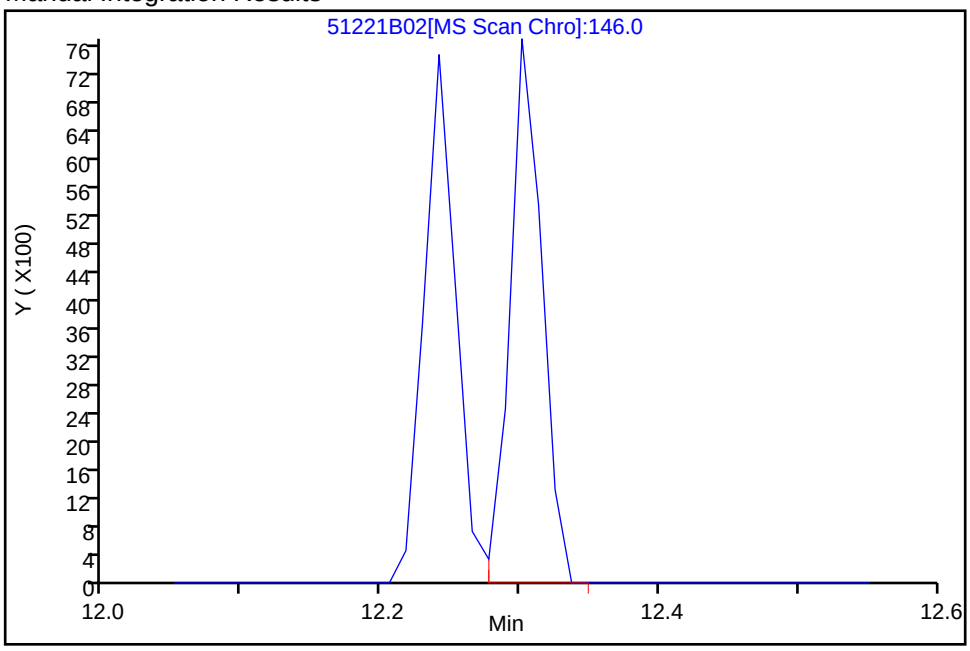
Not Detected
12.303

Processing Integration Results



Manual Integration Results

RT:	12.303
Area:	12109
Amount:	5.3434
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:41:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

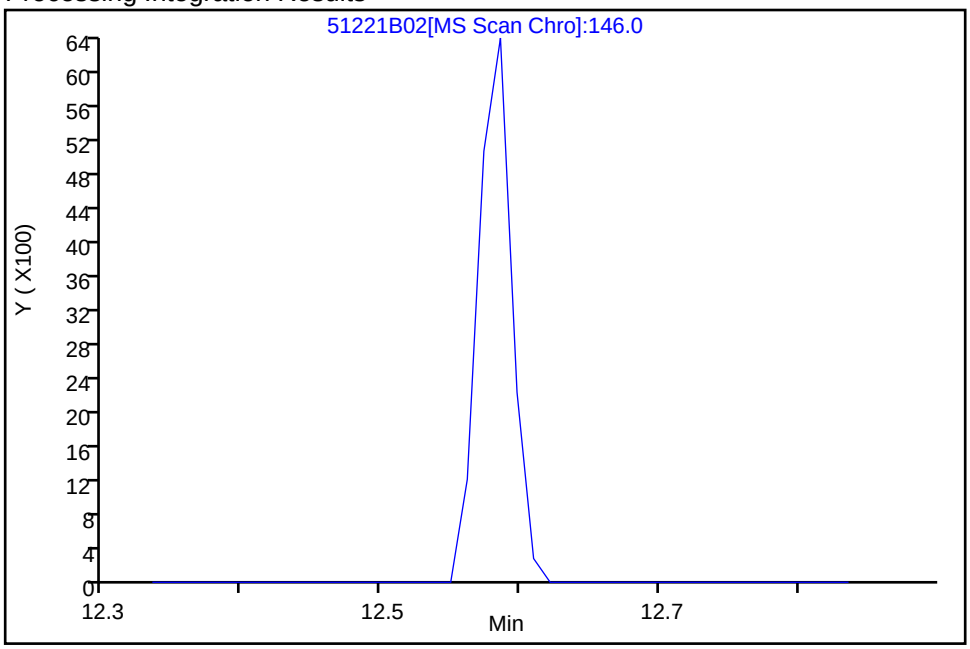
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

66 1,2-Dichlorobenzene, CAS: 95-50-1

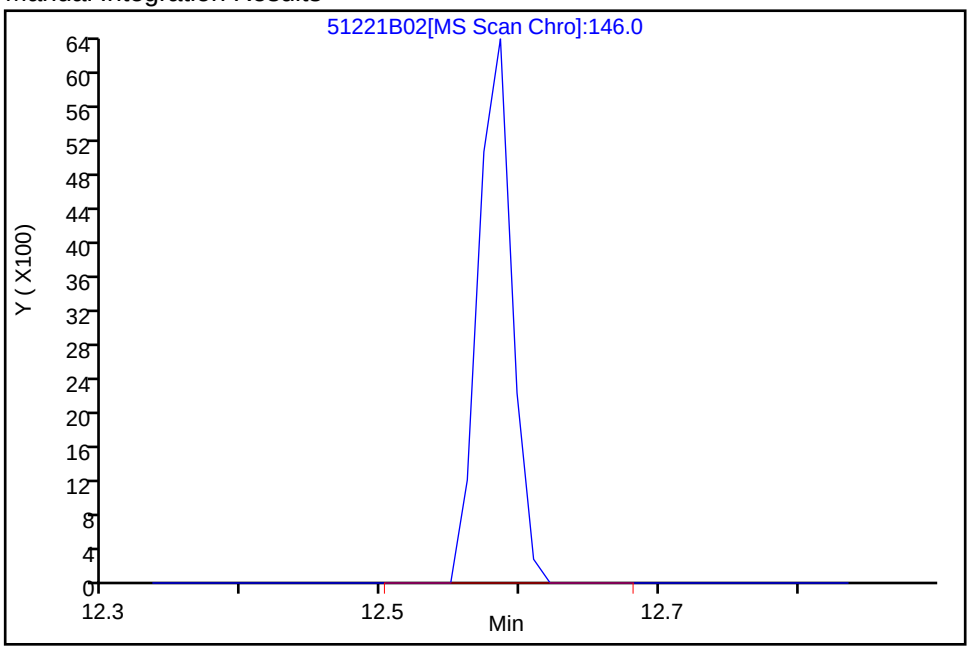
Processing Integration Results

Not Detected
12.588



Manual Integration Results

RT:	12.588
Area:	10724
Amount:	5.0225
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:42:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

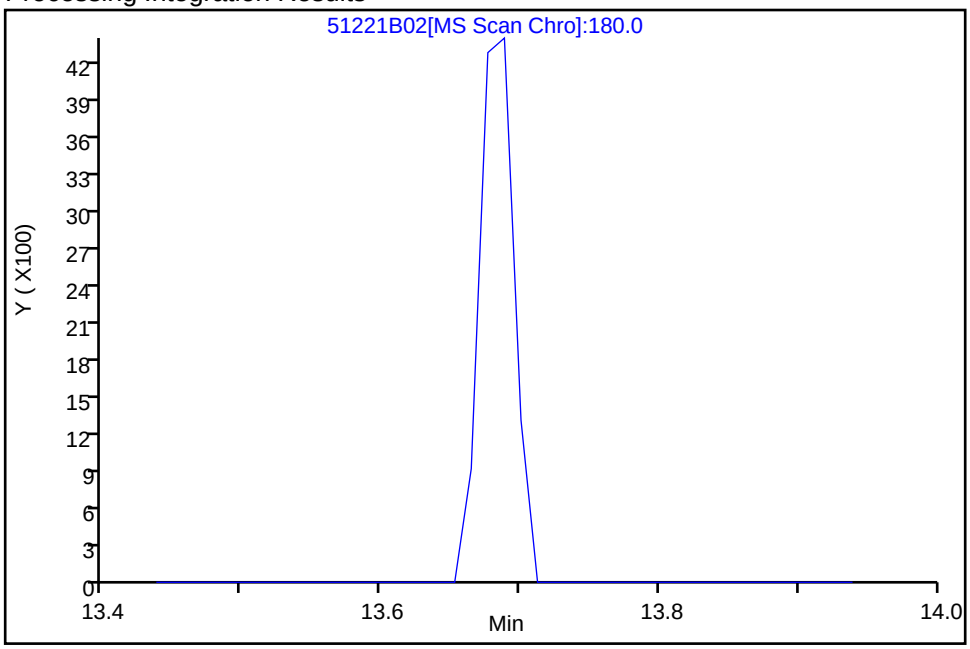
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

68 1,2,4-Trichlorobenzene, CAS: 120-82-1

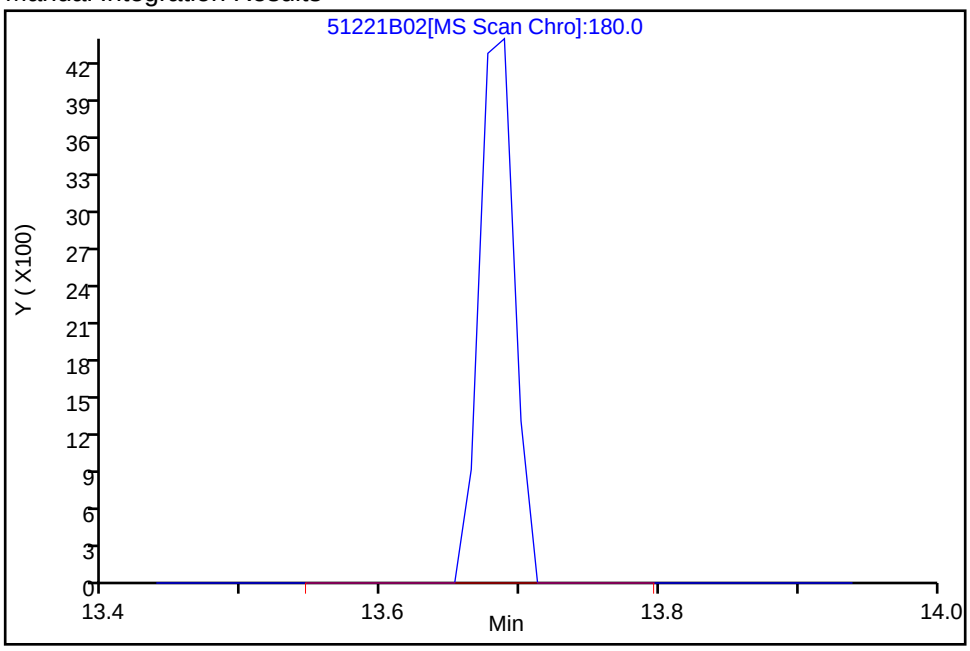
Not Detected
13.691

Processing Integration Results



Manual Integration Results

RT:	13.690
Area:	7628
Amount:	5.0201
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:42:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

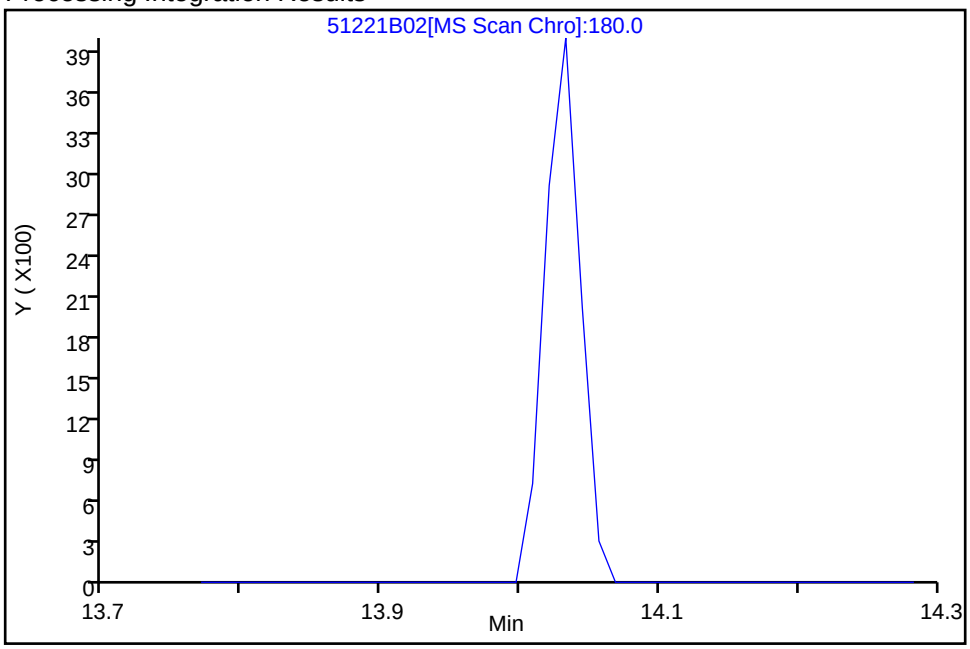
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B02.D		
Injection Date:	21-Dec-2015 15:04:30	Inst. ID:	msd5.i
Client ID:	VSTD005SC	Lab ID:	VSTD005SC
Sample Info:	5122115b, VSTD005SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

69 1,2,3-Trichlorobenzene, CAS: 87-61-6

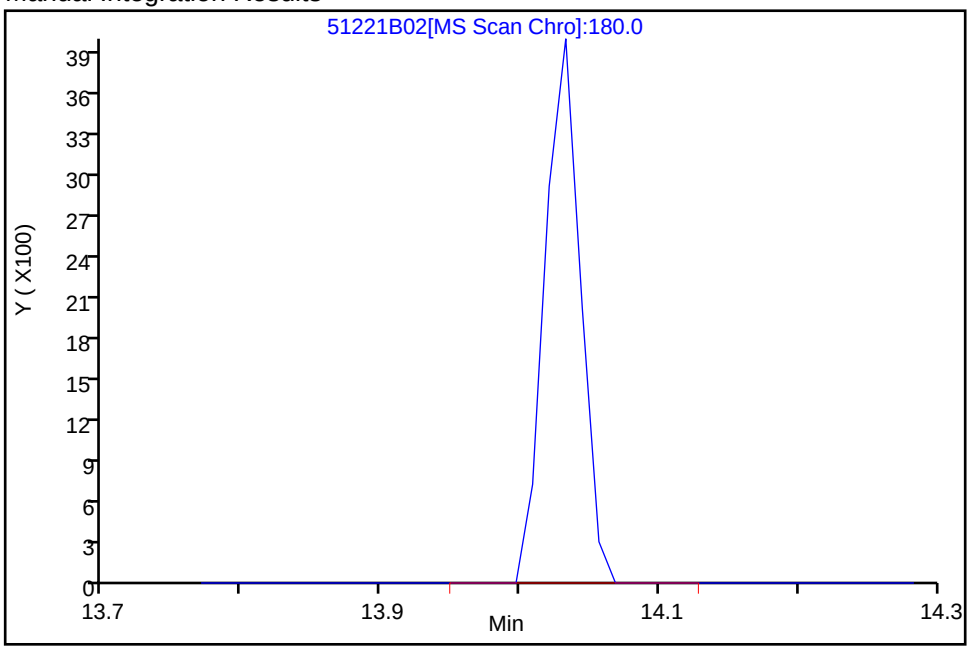
Not Detected
14.034

Processing Integration Results



Manual Integration Results

RT:	14.034
Area:	7082
Amount:	5.0912
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:42:30
Audit Action: Mint
Audit Reason: NOID

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B03.D		
Lab Sample ID:	VSTD010SC	Client Sample ID:	VSTD010SC
Injection Date:	21-Dec-2015 15:26:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VSTD010SC		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5.m		
Method Date:	21-Dec-2015 16:58:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	Ical, Level: 3	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 16:43:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	10192	10.000	10.052	QM
2 Chloromethane	50.0	2.259	2.271	-0.012	12072	10.000	9.8568	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	6306	10.000	10.138	
4 Vinyl Chloride	62.0	2.413	2.413	0.000	9230	10.000	9.8139	
5 Bromomethane	94.0	2.793	2.804	-0.011	5980	10.000	9.7484	
$ 6 Chloroethane-d5	69.0	2.876	2.887	-0.011	5843	10.000	10.052	Q
7 Chloroethane	64.0	2.911	2.911	0.000	6151	10.000	10.115	
8 Trichlorofluoromethane	101.0	3.208	3.208	0.000	10740	10.000	9.4974	
$ 9 1,1-Dichloroethene-d2	63.0	3.800	3.801	-0.001	15182	10.000	9.6626	
10 1,1-Dichloroethene	96.0	3.812	3.824	-0.012	7658	10.000	9.6858	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.836	3.848	-0.012	5576	10.000	9.1289	
12 Acetone	43.0	3.848	3.848	0.000	7059	20.000	19.715	
13 Carbon Disulfide	76.0	4.085	4.097	-0.012	24300	10.000	9.7607	
14 Methyl Acetate	43.0	4.227	4.227	0.000	9562	10.000	9.5193	
15 Methylene Chloride	84.0	4.358	4.358	0.000	9528	10.000	10.251	
16 Methyl tert-Butyl Ether	73.0	4.678	4.678	0.000	24801	10.000	9.9365	
17 trans-1,2-Dichloroethene	96.0	4.690	4.690	0.000	8817	10.000	9.8008	
18 1,1-Dichloroethane	63.0	5.164	5.164	0.000	16823	10.000	9.8346	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	10394	20.000	19.770	
20 2-Butanone	43.0	5.828	5.828	0.000	11372	20.000	20.059	
21 cis-1,2-Dichloroethene	96.0	5.840	5.840	0.000	9965	10.000	9.7771	
22 Bromochloromethane	128.0	6.113	6.125	-0.012	5019	10.000	9.8519	Q
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	14703	10.000	9.8966	
24 Chloroform	83.0	6.196	6.196	0.000	15940	10.000	9.9271	
25 1,1,1-Trichloroethane	97.0	6.445	6.445	0.000	12444	10.000	9.3024	Q
26 Cyclohexane	56.0	6.528	6.528	0.000	15899	10.000	9.2802	

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B03.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.647	6.647	0.000	11409	10.000	9.0334	
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.801	0.000	9258	10.000	10.239	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	31186	10.000	9.5802	
30 Benzene	78.0	6.884	6.884	0.000	36385	10.000	9.4918	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	12420	10.000	9.7404	M
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	0.000	186218	50.000	50.000	
33 Trichloroethene	95.0	7.655	7.655	-0.001	8803	10.000	9.1760	
$ 34 1,2-Dichloropropane-d6	67.0	7.821	7.821	0.000	9478	10.000	9.5311	M
35 Methylcyclohexane	83.0	7.904	7.904	0.000	15250	10.000	9.3947	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	9578	10.000	9.2153	M
39 Bromodichloromethane	83.0	8.247	8.248	-0.001	11921	10.000	9.2963	Q
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	11853	10.000	9.2788	
41 cis-1,3-Dichloropropene	75.0	8.745	8.746	-0.001	15491	10.000	9.3471	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	22469	20.000	19.192	
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	30091	10.000	9.5140	Q
44 Toluene	91.0	9.125	9.125	0.000	37877	10.000	9.3066	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	13857	10.000	9.5183	
46 1,1,2-Trichloroethane	97.0	9.504	9.505	0.000	8029	10.000	9.4633	
47 Tetrachloroethene	164.0	9.670	9.671	-0.001	8102	10.000	9.1966	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	9197	20.000	19.346	
49 2-Hexanone	43.0	9.730	9.730	0.000	17578	20.000	19.777	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	9705	10.000	9.2115	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	8163	10.000	9.3315	
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	184739	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	26316	10.000	9.4625	
54 Ethylbenzene	91.0	10.536	10.536	0.000	42477	10.000	9.3592	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	17039	10.000	9.2946	
56 o-Xylene	106.0	10.975	10.975	0.000	17043	10.000	9.5361	
57 Styrene	104.0	10.987	10.987	0.000	30124	10.000	9.6825	
58 Bromoform	173.0	11.153	11.153	0.000	7041	10.000	9.7643	M
59 Isopropylbenzene	105.0	11.271	11.271	0.000	44113	10.000	9.4422	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	9428	10.000	9.6240	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	10856	10.000	9.6558	Q
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	22968	10.000	9.7270	Q
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	97706	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	23147	10.000	9.7092	Q
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	12514	10.000	9.8332	
66 1,2-Dichlorobenzene	146.0	12.588	12.588	0.000	22129	10.000	9.8514	Q
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	1820	10.000	9.0040	
68 1,2,4-Trichlorobenzene	180.0	13.679	13.691	-0.012	15570	10.000	9.7401	Q
69 1,2,3-Trichlorobenzene	180.0	14.034	14.034	0.000	13779	10.000	9.4158	Q

QC Flag Legend

Processing Flags

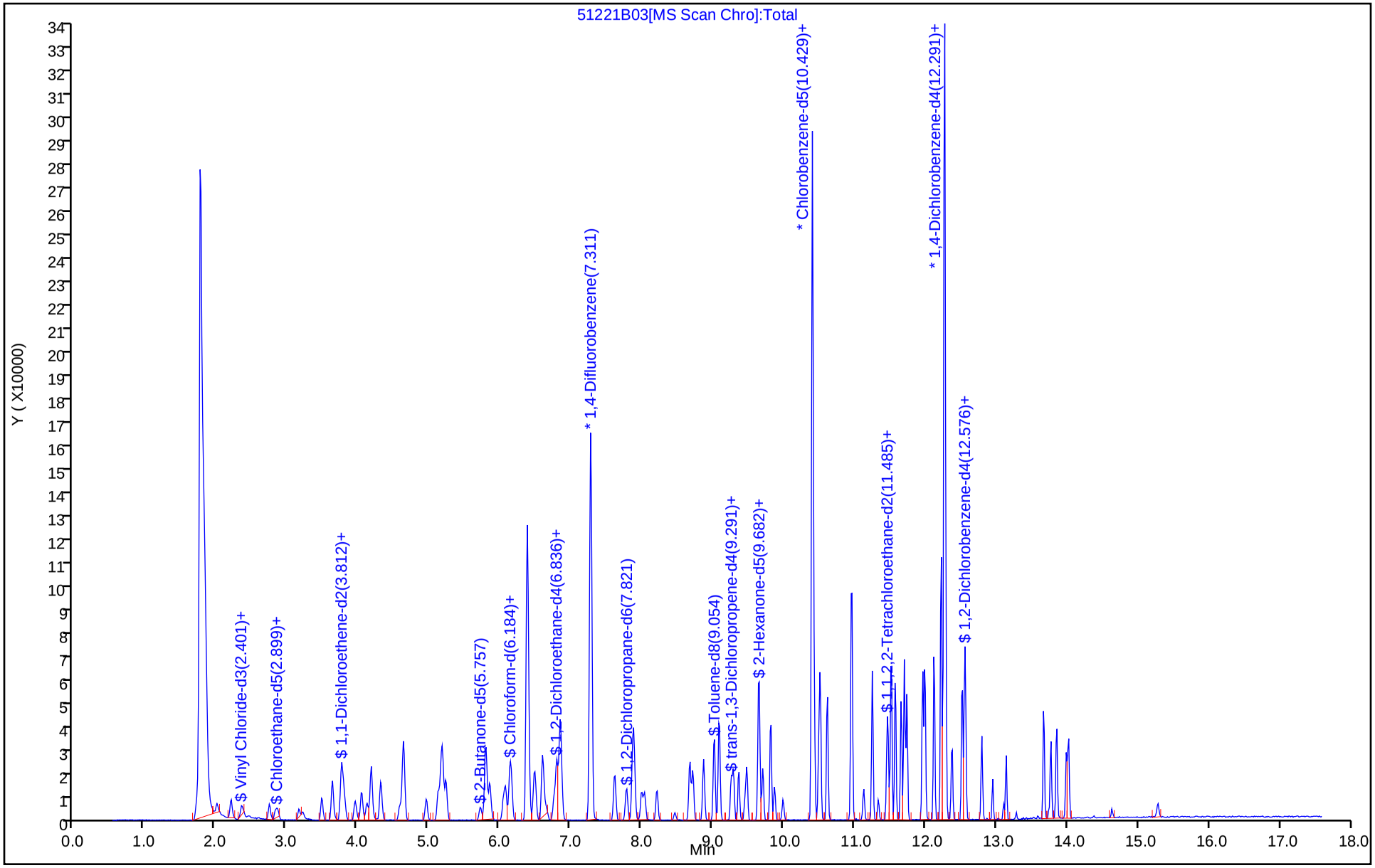
Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B03.D				
Injection Date:	21-Dec-2015 15:26:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD010SC	Lab ID:	VSTD010SC		
Sample Info:	5122115b, VSTD010SC				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

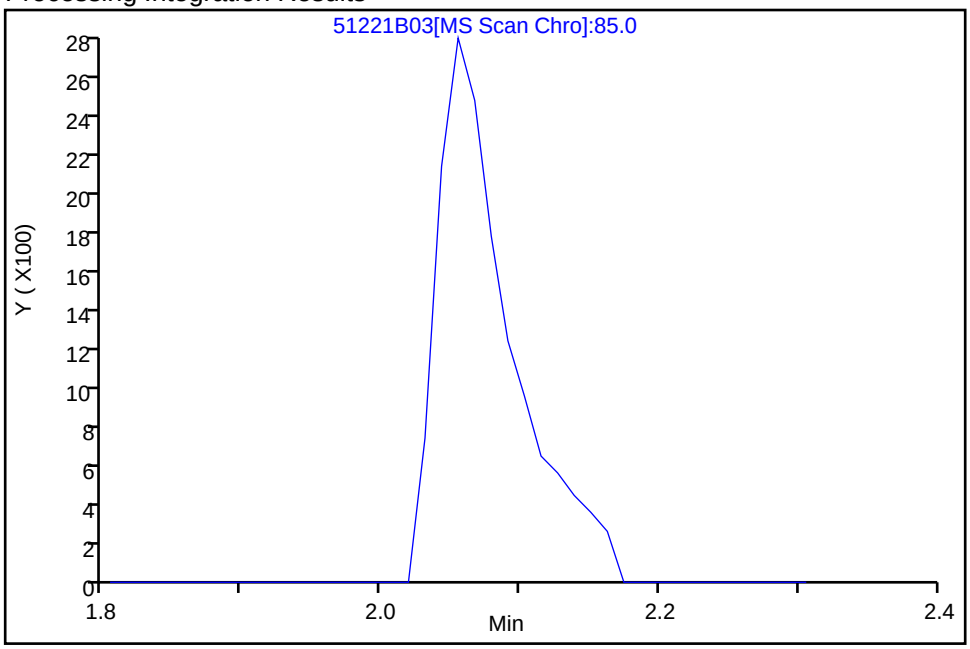
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B03.D		
Injection Date:	21-Dec-2015 15:26:30	Inst. ID:	msd5.i
Client ID:	VSTD010SC	Lab ID:	VSTD010SC
Sample Info:	5122115b, VSTD010SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 Dichlorodifluoromethane, CAS: 75-71-8

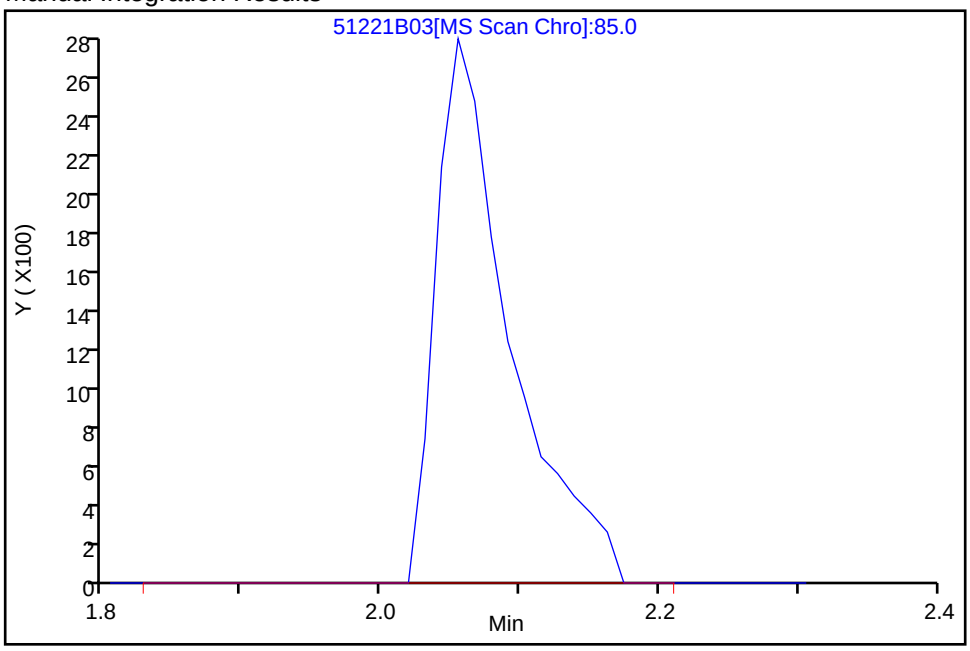
Processing Integration Results

Not Detected
2.057



Manual Integration Results

RT:	2.057
Area:	10192
Amount:	10.052
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:42:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

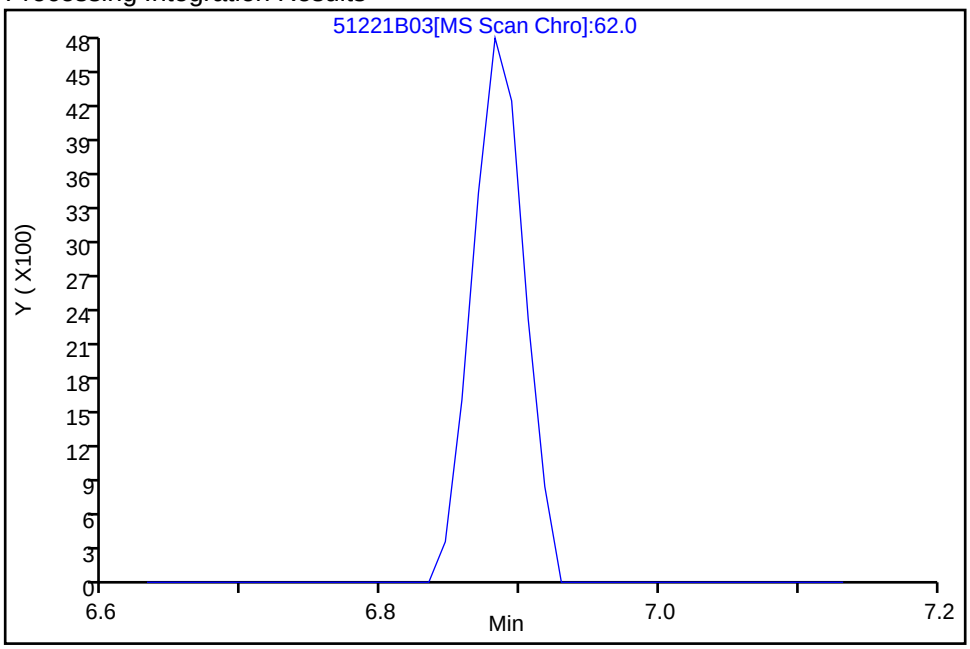
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B03.D		
Injection Date:	21-Dec-2015 15:26:30	Inst. ID:	msd5.i
Client ID:	VSTD010SC	Lab ID:	VSTD010SC
Sample Info:	5122115b, VSTD010SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

31 1,2-Dichloroethane, CAS: 107-06-2

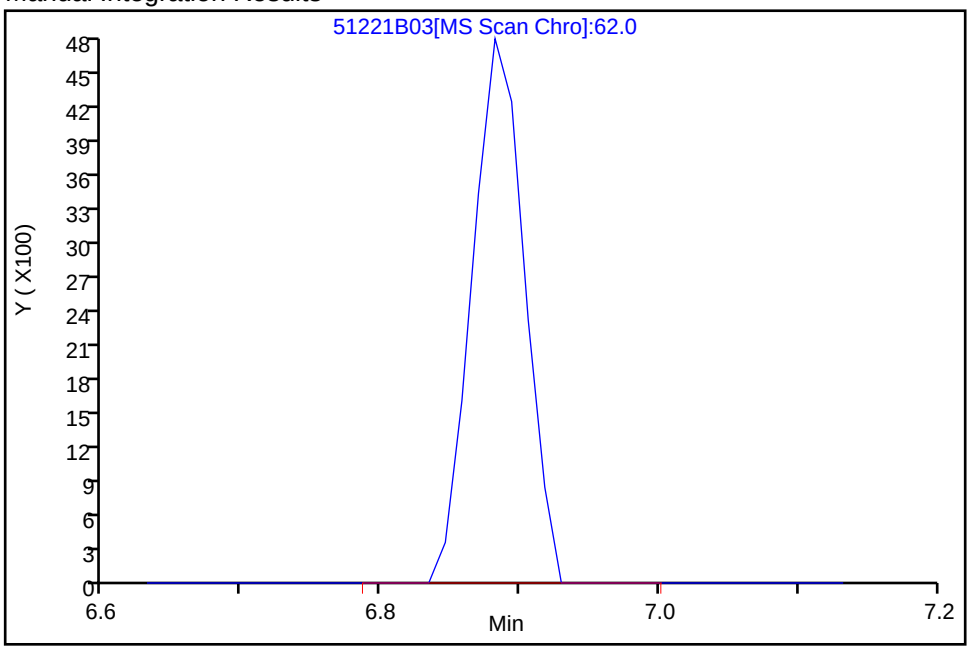
Processing Integration Results

Not Detected
6.884



Manual Integration Results

RT:	6.884
Area:	12420
Amount:	9.7404
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:42:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

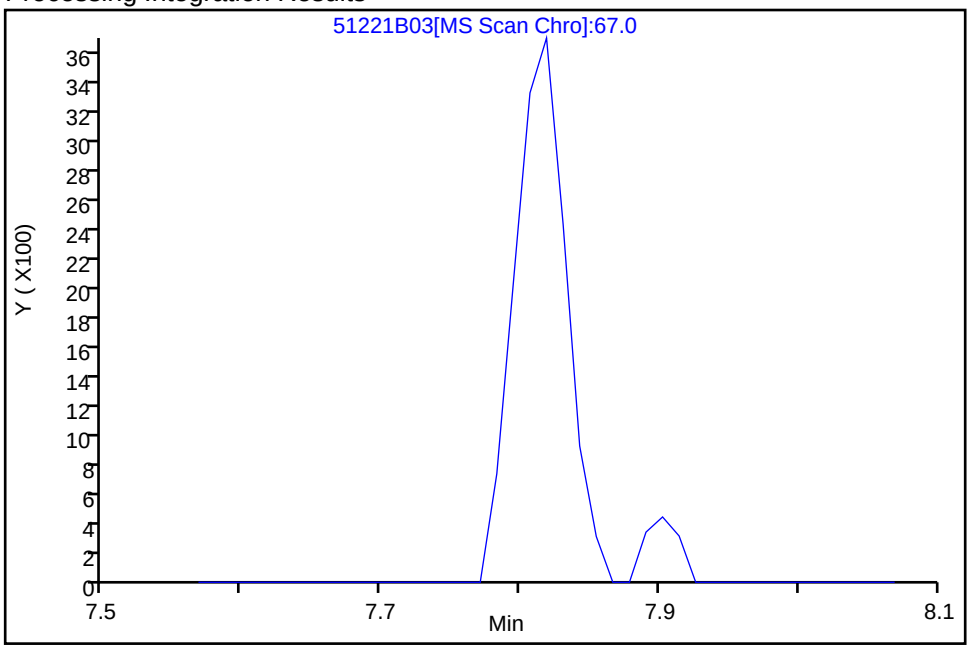
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B03.D		
Injection Date:	21-Dec-2015 15:26:30	Inst. ID:	msd5.i
Client ID:	VSTD010SC	Lab ID:	VSTD010SC
Sample Info:	5122115b, VSTD010SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 34 1,2-Dichloropropane-d6, CAS: 93952-08-0

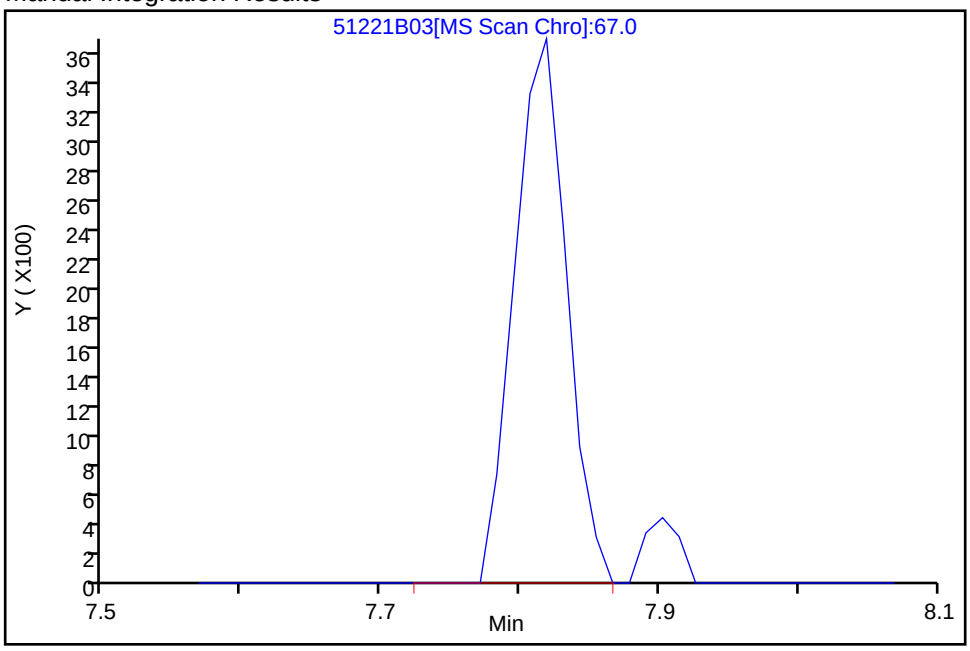
Processing Integration Results

Not Detected
7.821



Manual Integration Results

RT:	7.821
Area:	9478
Amount:	9.5311
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:42:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

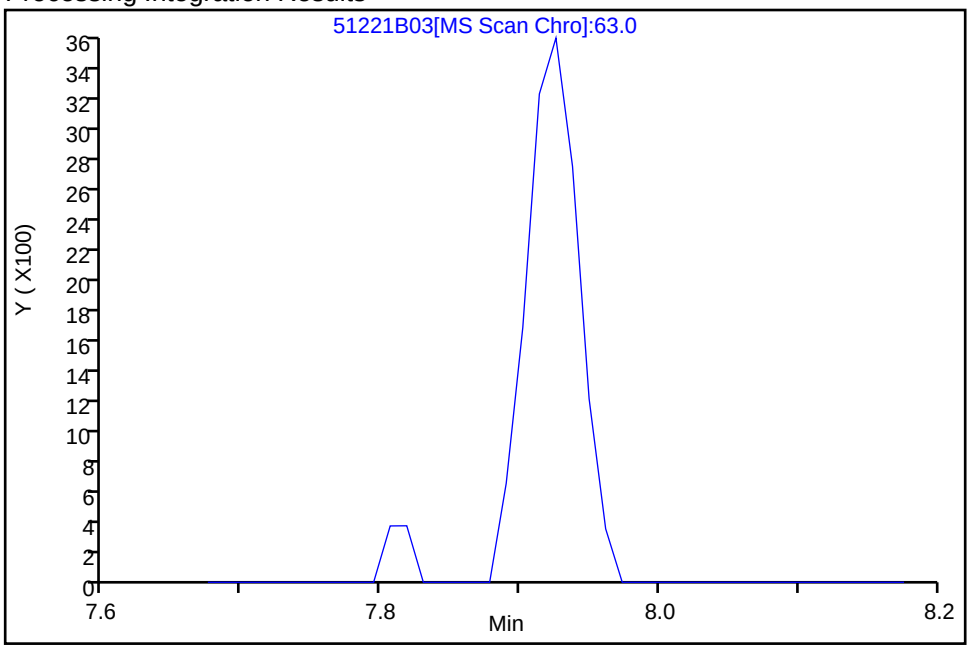
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B03.D		
Injection Date:	21-Dec-2015 15:26:30	Inst. ID:	msd5.i
Client ID:	VSTD010SC	Lab ID:	VSTD010SC
Sample Info:	5122115b, VSTD010SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

36 1,2-Dichloropropane, CAS: 78-87-5

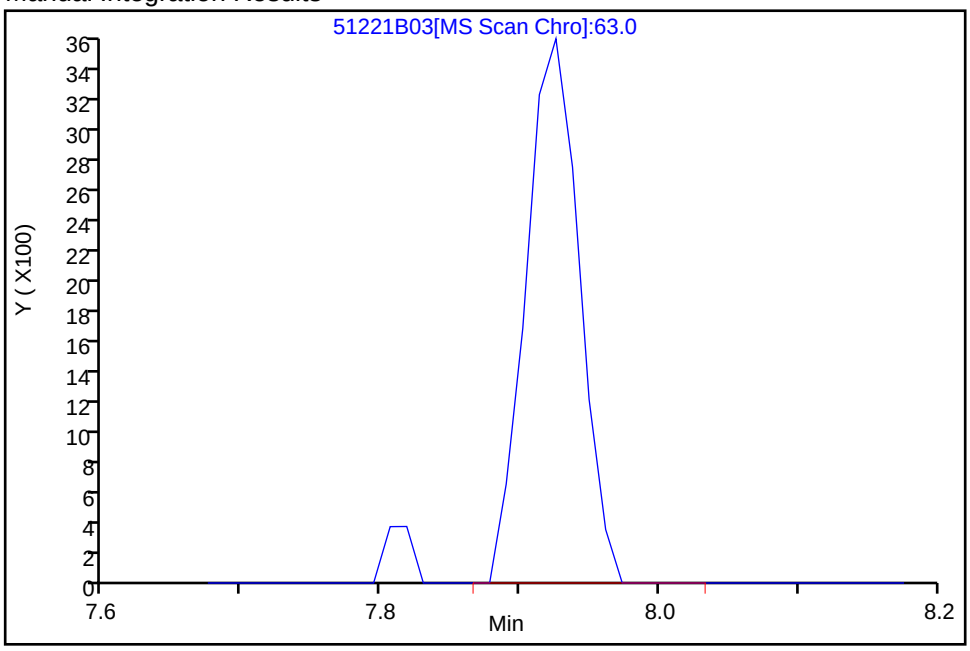
Processing Integration Results

Not Detected
7.927



Manual Integration Results

RT:	7.927
Area:	9578
Amount:	9.2153
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:43:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 17:23:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

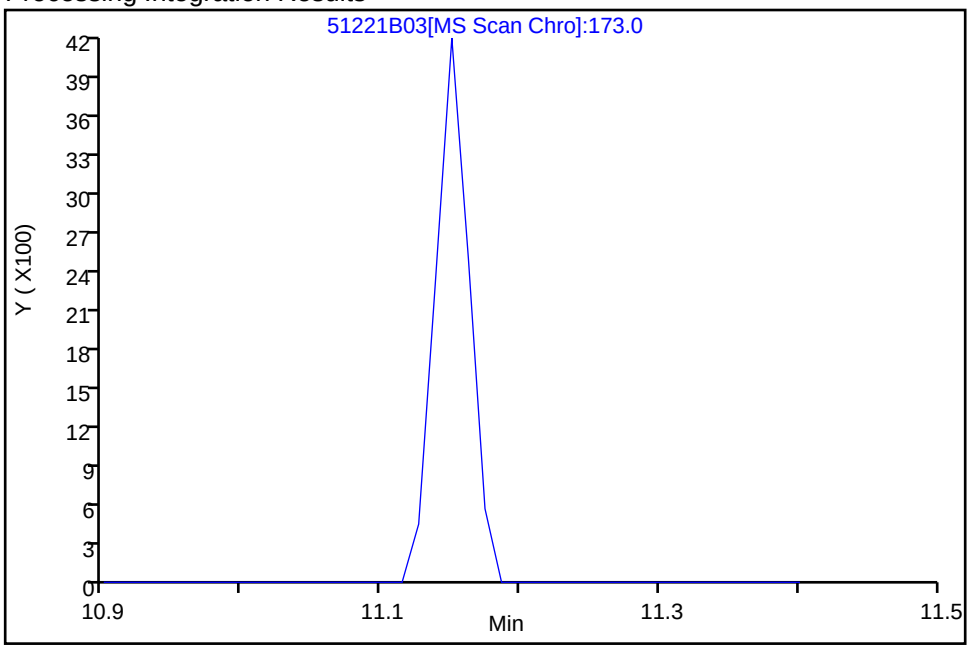
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B03.D		
Injection Date:	21-Dec-2015 15:26:30	Inst. ID:	msd5.i
Client ID:	VSTD010SC	Lab ID:	VSTD010SC
Sample Info:	5122115b, VSTD010SC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

58 Bromoform, CAS: 75-25-2

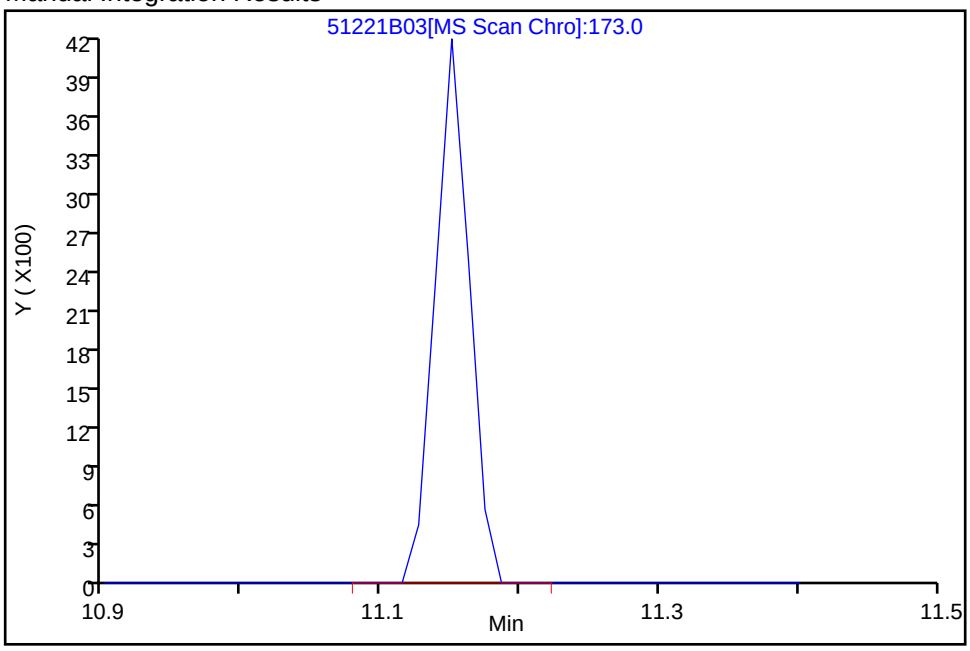
Processing Integration Results

Not Detected
11.153



Manual Integration Results

RT:	11.153
Area:	7041
Amount:	9.7643
Amount Units:	ug/L



Data Editor: pap, 21-Dec-2015 16:43:30
Audit Action: Mint
Audit Reason: NOID

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B04.D		
Lab Sample ID:	VSTD050SC	Client Sample ID:	VSTD050SC
Injection Date:	21-Dec-2015 15:49:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VSTD050SC		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5.m		
Method Date:	21-Dec-2015 16:58:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	Ical, Level: 4	ALS Bottle:	4
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 16:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	56238	50.000	54.583	
2 Chloromethane	50.0	2.271	2.271	0.000	63619	50.000	51.118	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	33446	50.000	52.914	
4 Vinyl Chloride	62.0	2.413	2.413	0.000	52264	50.000	54.686	
5 Bromomethane	94.0	2.804	2.804	0.000	33100	50.000	53.099	
$ 6 Chloroethane-d5	69.0	2.887	2.887	0.000	31099	50.000	52.649	
7 Chloroethane	64.0	2.911	2.911	0.000	32784	50.000	53.051	
8 Trichlorofluoromethane	101.0	3.208	3.208	0.000	68420	50.000	59.541	
$ 9 1,1-Dichloroethene-d2	63.0	3.801	3.801	0.000	84092	50.000	52.669	
10 1,1-Dichloroethene	96.0	3.824	3.824	0.000	42761	50.000	53.223	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.848	3.848	0.000	33913	50.000	54.638	
12 Acetone	43.0	3.848	3.848	0.000	30037	100.00	82.553	
13 Carbon Disulfide	76.0	4.097	4.097	0.000	130858	50.000	51.725	
14 Methyl Acetate	43.0	4.227	4.227	0.000	48195	50.000	47.216	
15 Methylene Chloride	84.0	4.358	4.358	0.000	46985	50.000	49.744	
16 Methyl tert-Butyl Ether	73.0	4.678	4.678	0.000	131670	50.000	51.913	
17 trans-1,2-Dichloroethene	96.0	4.690	4.690	0.000	48315	50.000	52.851	
18 1,1-Dichloroethane	63.0	5.164	5.164	0.000	91579	50.000	52.684	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	52448	100.00	98.170	
20 2-Butanone	43.0	5.828	5.828	0.000	55736	100.00	96.747	
21 cis-1,2-Dichloroethene	96.0	5.840	5.840	0.000	54515	50.000	52.636	
22 Bromochloromethane	128.0	6.125	6.125	0.000	26915	50.000	51.991	
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	77512	50.000	51.342	
24 Chloroform	83.0	6.196	6.196	0.000	85135	50.000	52.176	
25 1,1,1-Trichloroethane	97.0	6.445	6.445	0.000	70379	50.000	54.021	Q
26 Cyclohexane	56.0	6.528	6.528	0.000	90074	50.000	53.985	

Report Date: 30-Dec-2015 17:23:26 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B04.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.647	6.647	0.000	66662	50.000	54.196	
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.801	0.000	47379	50.000	51.564	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	165890	50.000	52.326	
30 Benzene	78.0	6.884	6.884	0.000	196819	50.000	52.720	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	67756	50.000	52.292	
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	0.000	189231	50.000	50.000	
33 Trichloroethene	95.0	7.655	7.655	0.000	49970	50.000	53.483	
$ 34 1,2-Dichloropropane-d6	67.0	7.821	7.821	0.000	51122	50.000	52.785	
35 Methylcyclohexane	83.0	7.904	7.904	0.000	85604	50.000	54.149	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	53630	50.000	52.982	
39 Bromodichloromethane	83.0	8.248	8.248	0.000	65850	50.000	52.727	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	65461	50.000	52.617	
41 cis-1,3-Dichloropropene	75.0	8.746	8.746	0.000	87018	50.000	53.912	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	116244	100.00	101.95	
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	161307	50.000	52.367	
44 Toluene	91.0	9.125	9.125	0.000	210635	50.000	53.141	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	75586	50.000	53.310	
46 1,1,2-Trichloroethane	97.0	9.505	9.505	0.000	42946	50.000	51.974	
47 Tetrachloroethene	164.0	9.671	9.671	0.000	45925	50.000	53.526	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	46575	100.00	100.59	
49 2-Hexanone	43.0	9.730	9.730	0.000	89123	100.00	102.96	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	54460	50.000	53.075	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	44934	50.000	52.742	
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	179919	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	143649	50.000	53.036	
54 Ethylbenzene	91.0	10.536	10.536	0.000	236199	50.000	53.437	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	95172	50.000	53.306	
56 o-Xylene	106.0	10.975	10.975	0.000	92650	50.000	53.229	
57 Styrene	104.0	10.987	10.987	0.000	160892	50.000	53.100	
58 Bromoform	173.0	11.153	11.153	0.000	38519	50.000	53.167	Q
59 Isopropylbenzene	105.0	11.271	11.271	0.000	242072	50.000	53.203	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	48894	50.000	51.248	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	57417	50.000	52.437	
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	122580	50.000	51.670	
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	98166	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	123646	50.000	51.621	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	65114	50.000	50.925	
66 1,2-Dichlorobenzene	146.0	12.588	12.588	0.000	117824	50.000	52.207	
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	10568	50.000	52.037	
68 1,2,4-Trichlorobenzene	180.0	13.691	13.691	0.000	82855	50.000	51.589	
69 1,2,3-Trichlorobenzene	180.0	14.034	14.034	0.000	77714	50.000	52.857	

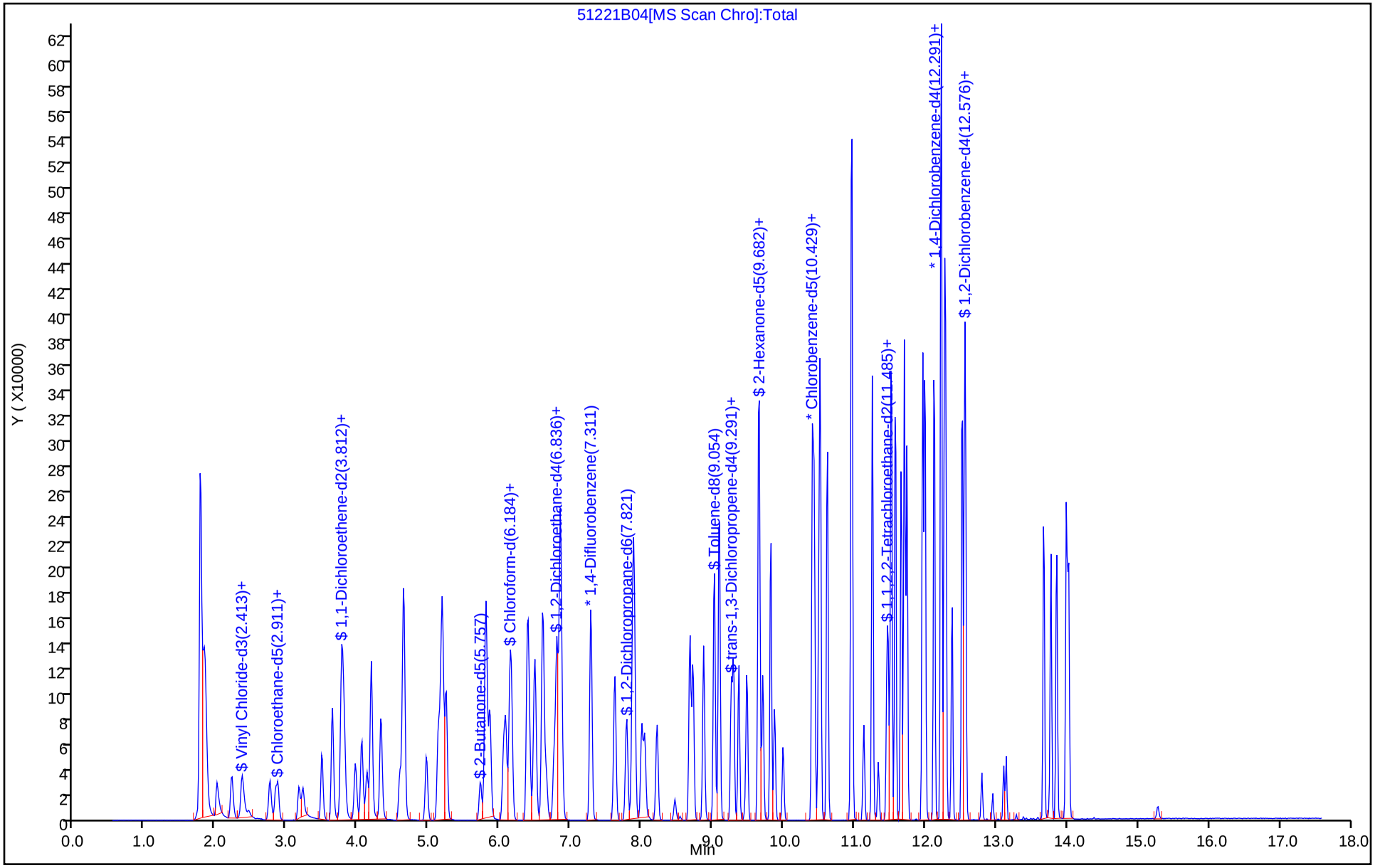
QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B04.D				
Injection Date:	21-Dec-2015 15:49:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD050SC	Lab ID:	VSTD050SC		
Sample Info:	5122115b, VSTD050SC				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B05.D		
Lab Sample ID:	VSTD100SC	Client Sample ID:	VSTD100SC
Injection Date:	21-Dec-2015 16:11:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VSTD100SC		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5.m		
Method Date:	21-Dec-2015 16:58:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	Ical, Level: 5	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 16:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	104915	100.00	99.612	
2 Chloromethane	50.0	2.271	2.271	0.000	124795	100.00	98.091	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	65502	100.00	101.37	
4 Vinyl Chloride	62.0	2.413	2.413	0.000	100106	100.00	102.47	
5 Bromomethane	94.0	2.804	2.804	0.000	65150	100.00	102.24	
$ 6 Chloroethane-d5	69.0	2.876	2.887	-0.011	59516	100.00	98.566	
7 Chloroethane	64.0	2.911	2.911	0.000	64094	100.00	101.46	
8 Trichlorofluoromethane	101.0	3.208	3.208	0.000	119099	100.00	101.39	Q
$ 9 1,1-Dichloroethene-d2	63.0	3.801	3.801	-0.001	165625	100.00	101.48	
10 1,1-Dichloroethene	96.0	3.812	3.824	-0.012	82243	100.00	100.14	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.848	3.848	0.000	64236	100.00	101.24	
12 Acetone	43.0	3.848	3.848	0.000	61617	200.00	165.66	
13 Carbon Disulfide	76.0	4.085	4.097	-0.012	257098	100.00	99.414	
14 Methyl Acetate	43.0	4.227	4.227	0.000	95416	100.00	91.444	
15 Methylene Chloride	84.0	4.358	4.358	0.000	92144	100.00	95.432	
16 Methyl tert-Butyl Ether	73.0	4.678	4.678	0.000	259570	100.00	100.11	
17 trans-1,2-Dichloroethene	96.0	4.690	4.690	0.000	94959	100.00	101.61	
18 1,1-Dichloroethane	63.0	5.164	5.164	0.000	181528	100.00	102.16	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	101792	200.00	186.39	
20 2-Butanone	43.0	5.828	5.828	0.000	111592	200.00	189.49	
21 cis-1,2-Dichloroethene	96.0	5.840	5.840	0.000	107798	100.00	101.82	
22 Bromochloromethane	128.0	6.113	6.125	-0.012	54728	100.00	103.42	
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	156245	100.00	101.24	
24 Chloroform	83.0	6.196	6.196	0.000	166415	100.00	99.770	
25 1,1,1-Trichloroethane	97.0	6.445	6.445	0.000	134395	100.00	100.35	Q
26 Cyclohexane	56.0	6.528	6.528	0.000	169561	100.00	98.855	

Report Date: 30-Dec-2015 17:23:26 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B05.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.647	6.647	0.000	127828	100.00	101.09	
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.801	0.000	93511	100.00	99.556	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	326606	100.00	100.21	
30 Benzene	78.0	6.884	6.884	0.000	386461	100.00	100.70	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	134367	100.00	101.44	
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	0.000	193440	50.000	50.000	
33 Trichloroethene	95.0	7.655	7.655	0.000	97759	100.00	101.78	
$ 34 1,2-Dichloropropane-d6	67.0	7.821	7.821	0.000	100635	100.00	101.08	
35 Methylcyclohexane	83.0	7.904	7.904	0.000	158577	100.00	97.574	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	106674	100.00	102.51	
39 Bromodichloromethane	83.0	8.247	8.248	-0.001	130760	100.00	101.85	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	128620	100.00	100.57	
41 cis-1,3-Dichloropropene	75.0	8.746	8.746	0.000	170922	100.00	103.01	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	229633	200.00	195.91	
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	317071	100.00	100.13	
44 Toluene	91.0	9.125	9.125	0.000	411979	100.00	101.10	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	149171	100.00	102.34	
46 1,1,2-Trichloroethane	97.0	9.504	9.505	0.000	85128	100.00	100.22	
47 Tetrachloroethene	164.0	9.670	9.671	-0.001	89188	100.00	101.12	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	90031	200.00	189.15	
49 2-Hexanone	43.0	9.730	9.730	0.000	168037	200.00	188.84	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	107692	100.00	102.09	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	89400	100.00	102.08	
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	184959	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	281367	100.00	101.05	
54 Ethylbenzene	91.0	10.536	10.536	0.000	452587	100.00	99.602	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	185028	100.00	100.81	
56 o-Xylene	106.0	10.975	10.975	0.000	180329	100.00	100.78	
57 Styrene	104.0	10.987	10.987	0.000	309747	100.00	99.441	
58 Bromoform	173.0	11.153	11.153	0.000	77197	100.00	105.05	
59 Isopropylbenzene	105.0	11.271	11.271	0.000	468100	100.00	100.08	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	97127	100.00	99.029	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	111930	100.00	99.437	
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	238994	100.00	99.313	
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	99576	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	238574	100.00	98.192	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	126429	100.00	97.479	
66 1,2-Dichlorobenzene	146.0	12.588	12.588	0.000	228406	100.00	99.773	
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	21392	100.00	103.84	
68 1,2,4-Trichlorobenzene	180.0	13.691	13.691	-0.001	161952	100.00	99.410	
69 1,2,3-Trichlorobenzene	180.0	14.034	14.034	0.000	145780	100.00	97.747	

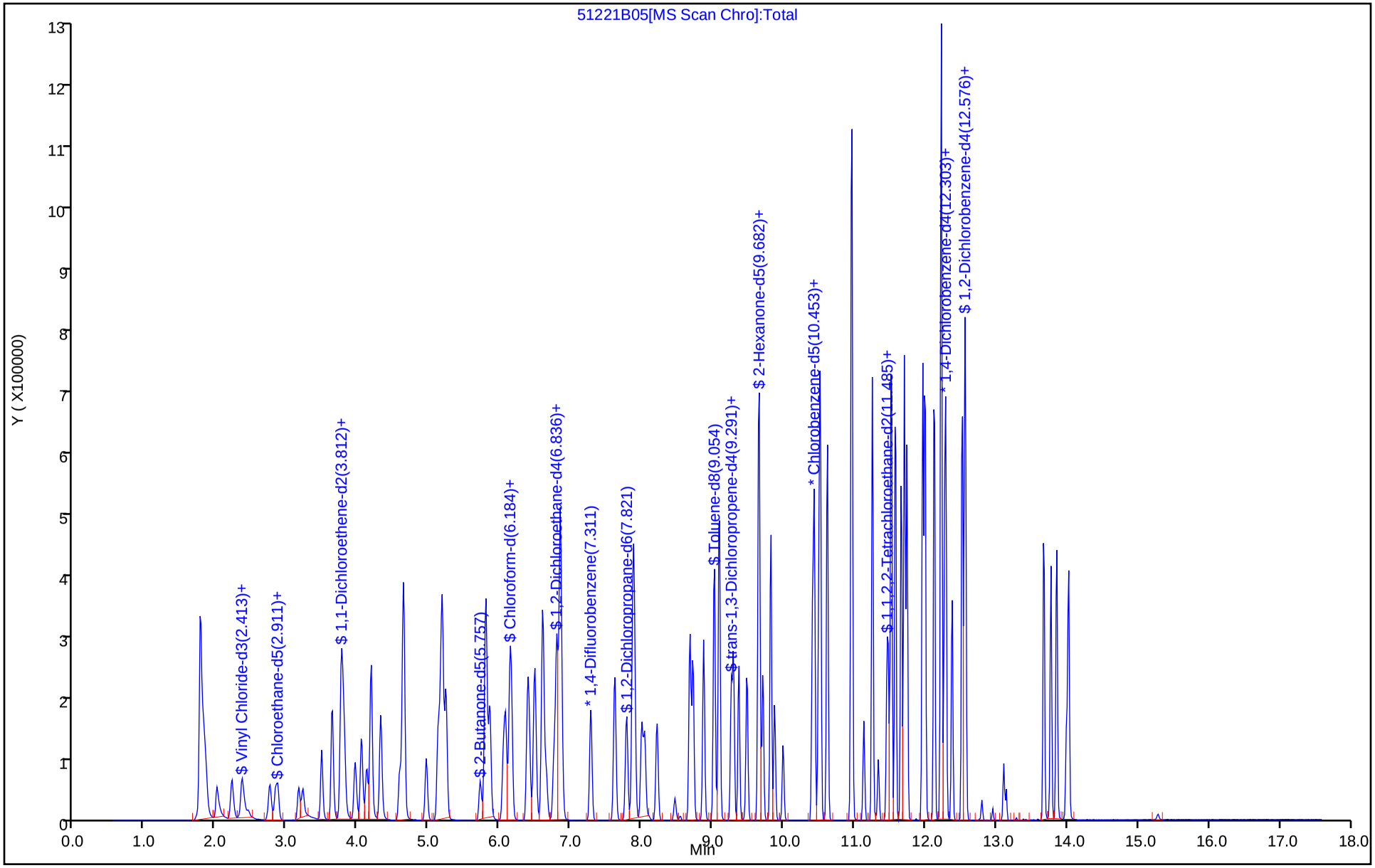
QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B05.D				
Injection Date:	21-Dec-2015 16:11:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD100SC	Lab ID:	VSTD100SC		
Sample Info:	5122115b, VSTD100SC				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B06.D		
Lab Sample ID:	VSTD200SC	Client Sample ID:	VSTD200SC
Injection Date:	21-Dec-2015 16:33:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VSTD200SC		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5.m		
Method Date:	21-Dec-2015 16:58:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	Ical, Level: 6	ALS Bottle:	6
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 16:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	206304	200.00	202.86	
2 Chloromethane	50.0	2.271	2.271	0.000	232627	200.00	189.37	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	127011	200.00	203.58	
4 Vinyl Chloride	62.0	2.413	2.413	0.000	188644	200.00	199.97	
5 Bromomethane	94.0	2.804	2.804	0.000	119279	200.00	193.86	
$ 6 Chloroethane-d5	69.0	2.875	2.887	-0.012	114286	200.00	196.02	
7 Chloroethane	64.0	2.911	2.911	0.000	120304	200.00	197.23	
8 Trichlorofluoromethane	101.0	3.207	3.208	-0.001	238674	200.00	210.42	
$ 9 1,1-Dichloroethene-d2	63.0	3.800	3.801	-0.001	318655	200.00	202.20	
10 1,1-Dichloroethene	96.0	3.812	3.824	-0.012	155763	200.00	196.41	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.848	3.848	0.000	127137	200.00	207.52	
12 Acetone	43.0	3.848	3.848	0.000	122052	400.00	339.85	
13 Carbon Disulfide	76.0	4.085	4.097	-0.012	473037	200.00	189.43	
14 Methyl Acetate	43.0	4.227	4.227	0.000	186010	200.00	184.62	
15 Methylene Chloride	84.0	4.358	4.358	0.000	176777	200.00	189.61	
16 Methyl tert-Butyl Ether	73.0	4.678	4.678	0.000	511573	200.00	204.34	
17 trans-1,2-Dichloroethene	96.0	4.690	4.690	0.000	176717	200.00	195.84	
18 1,1-Dichloroethane	63.0	5.164	5.164	0.000	341513	200.00	199.04	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	201248	400.00	381.63	
20 2-Butanone	43.0	5.828	5.828	0.000	214541	400.00	377.29	
21 cis-1,2-Dichloroethene	96.0	5.840	5.840	0.000	202822	200.00	198.40	
22 Bromochloromethane	128.0	6.113	6.125	-0.012	105721	200.00	206.90	
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	298420	200.00	200.26	
24 Chloroform	83.0	6.196	6.196	0.000	317707	200.00	197.26	
25 1,1,1-Trichloroethane	97.0	6.445	6.445	0.000	258482	200.00	203.20	Q
26 Cyclohexane	56.0	6.528	6.528	0.000	325844	200.00	200.01	

Report Date: 30-Dec-2015 17:23:27 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B06.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.646	6.647	-0.001	251693	200.00	209.57	
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.801	0.000	183196	200.00	201.99	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	628874	200.00	203.16	
30 Benzene	78.0	6.884	6.884	0.000	730718	200.00	200.46	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	262094	200.00	204.93	
* 32 1,4-Difluorobenzene	114.0	7.310	7.311	-0.001	186781	50.000	50.000	
33 Trichloroethene	95.0	7.654	7.655	-0.001	185604	200.00	203.45	
$ 34 1,2-Dichloropropane-d6	67.0	7.820	7.821	-0.001	193265	200.00	204.37	
35 Methylcyclohexane	83.0	7.903	7.904	-0.001	310327	200.00	201.04	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	202268	200.00	204.65	
39 Bromodichloromethane	83.0	8.247	8.248	-0.001	253172	200.00	207.62	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	250699	200.00	206.38	
41 cis-1,3-Dichloropropene	75.0	8.745	8.746	-0.001	327952	200.00	208.09	
42 4-Methyl-2-pentanone	43.0	8.899	8.900	-0.001	439956	400.00	395.17	
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	607569	200.00	202.01	
44 Toluene	91.0	9.125	9.125	0.000	776111	200.00	200.53	
45 trans-1,3-Dichloropropene	75.0	9.326	9.315	0.011	288183	200.00	208.16	
46 1,1,2-Trichloroethane	97.0	9.504	9.505	0.000	163370	200.00	202.49	
47 Tetrachloroethene	164.0	9.670	9.671	-0.001	166838	200.00	199.15	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	172469	400.00	381.50	
49 2-Hexanone	43.0	9.730	9.730	0.000	317517	400.00	375.68	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	209150	200.00	208.76	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	173162	200.00	208.16	
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	175675	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	529304	200.00	200.14	
54 Ethylbenzene	91.0	10.536	10.536	0.000	855631	200.00	198.25	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	344837	200.00	197.81	
56 o-Xylene	106.0	10.975	10.975	0.000	340289	200.00	200.23	
57 Styrene	104.0	10.987	10.987	0.000	582922	200.00	197.03	
58 Bromoform	173.0	11.153	11.153	0.000	153882	200.00	212.72	
59 Isopropylbenzene	105.0	11.271	11.271	0.000	884440	200.00	199.08	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	190907	200.00	204.93	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	-0.001	217581	200.00	203.51	
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	451617	200.00	190.65	
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	98019	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	452525	200.00	189.21	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	243987	200.00	191.11	
66 1,2-Dichlorobenzene	146.0	12.587	12.588	-0.001	436493	200.00	193.70	
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	41329	200.00	203.81	
68 1,2,4-Trichlorobenzene	180.0	13.690	13.691	-0.001	319486	200.00	199.22	
69 1,2,3-Trichlorobenzene	180.0	14.034	14.034	0.000	295250	200.00	201.11	

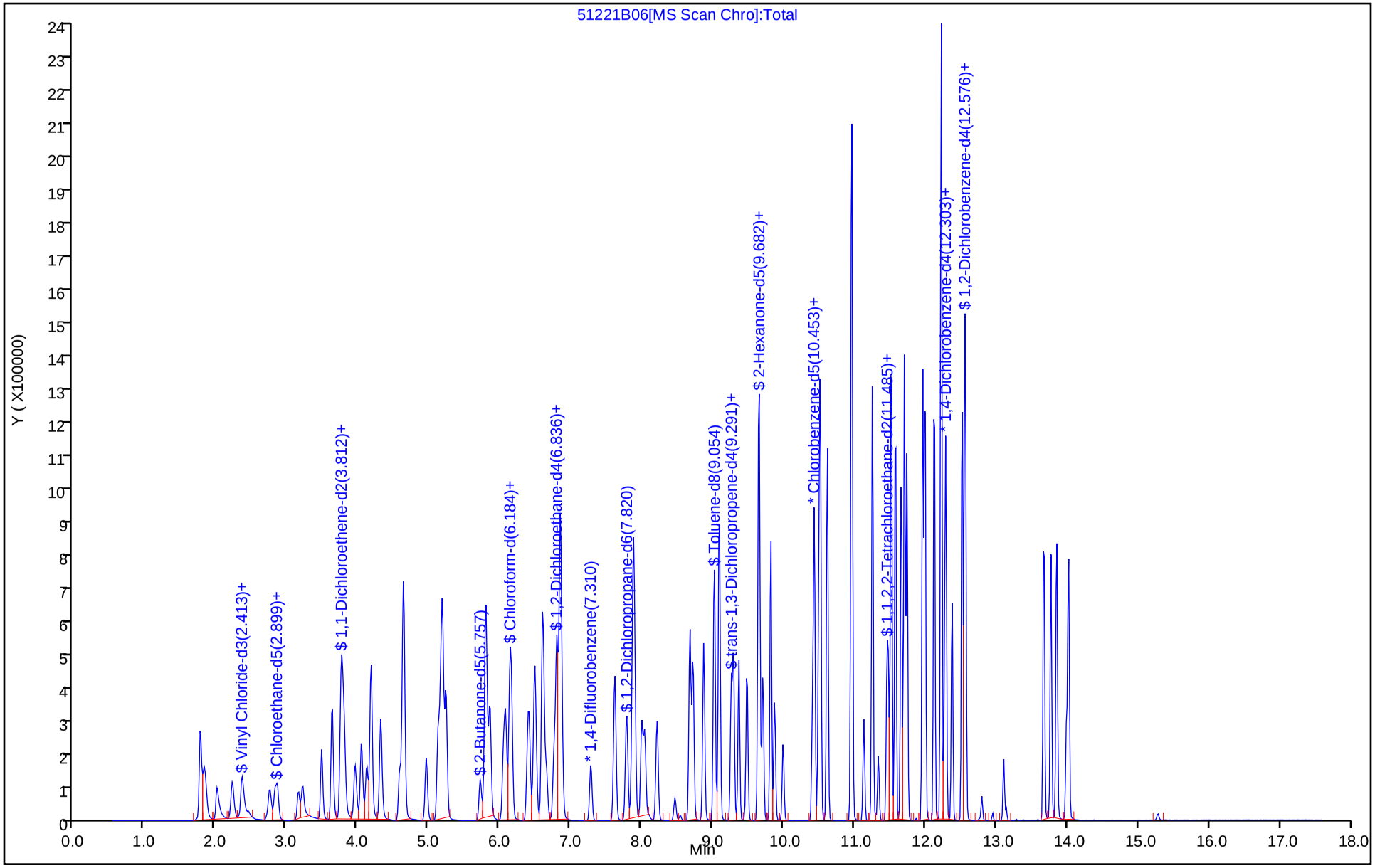
QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B06.D				
Injection Date:	21-Dec-2015 16:33:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD200SC	Lab ID:	VSTD200SC		
Sample Info:	5122115b, VSTD200SC				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Continuing Calibration Data

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date: 12/16/2015 Time: 1809

Lab File ID: 51216A24 Init. Calib. Date(s): 12/16/2015 12/16/2015

EPA Sample No.: VSTD050QA Init. Calib. Time(s): 0855 1048

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.375	0.497	0.010	32.4	50.0
Chloromethane	0.672	0.738	0.010	9.8	50.0
Vinyl chloride	0.575	0.626	0.010	8.8	50.0
Bromomethane	0.223	0.279	0.010	24.9	50.0
Chloroethane	0.181	0.301	0.010	66.7	50.0
Trichlorofluoromethane	0.451	0.627	0.010	39.1	50.0
1,1-Dichloroethene	0.268	0.335	0.060	25.0	25.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.204	0.255	0.050	25.2	50.0
Acetone	0.050	0.062	0.010	25.3	50.0
Carbon disulfide	0.740	0.824	0.100	11.3	25.0
Methyl acetate	0.196	0.261	0.010	32.9	50.0
Methylene chloride	0.276	0.298	0.010	7.8	50.0
trans-1,2-Dichloroethene	0.321	0.306	0.100	-4.7	25.0
Methyl tert-butyl ether	0.842	0.791	0.100	-6.1	50.0
1,1-Dichloroethane	0.550	0.542	0.300	-1.4	25.0
cis-1,2-Dichloroethene	0.344	0.374	0.200	8.7	25.0
2-Butanone	0.084	0.101	0.010	20.0	50.0
Bromochloromethane	0.188	0.195	0.100	3.4	25.0
Chloroform	0.554	0.563	0.300	1.8	25.0
1,1,1-Trichloroethane	0.517	0.520	0.050	0.7	25.0
Cyclohexane	0.582	0.612	0.010	5.1	50.0
Carbon tetrachloride	0.521	0.507	0.100	-2.6	25.0
Benzene	1.249	1.292	0.200	3.4	25.0
1,2-Dichloroethane	0.428	0.417	0.070	-2.7	25.0
Trichloroethene	0.349	0.394	0.200	12.8	25.0
Methylcyclohexane	0.592	0.608	0.050	2.7	50.0
1,2-Dichloropropane	0.299	0.320	0.200	7.1	25.0
Bromodichloromethane	0.431	0.475	0.300	10.2	25.0
cis-1,3-Dichloropropene	0.512	0.529	0.300	3.4	25.0
4-Methyl-2-pentanone	0.218	0.237	0.030	8.5	50.0
Toluene	1.343	1.337	0.300	-0.5	25.0
trans-1,3-Dichloropropene	0.457	0.437	0.200	-4.3	25.0
1,1,2-Trichloroethane	0.249	0.253	0.200	1.8	25.0
Tetrachloroethene	0.350	0.343	0.100	-2.1	25.0
2-Hexanone	0.156	0.167	0.010	6.8	50.0
Dibromochloromethane	0.374	0.396	0.200	6.0	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date: 12/16/2015 Time: 1809

Lab File ID: 51216A24 Init. Calib. Date(s): 12/16/2015 12/16/2015

EPA Sample No.: VSTD050QA Init. Calib. Time(s): 0855 1048

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dibromoethane	0.273	0.308	0.200	12.8	25.0
Chlorobenzene	0.907	1.001	0.400	10.4	25.0
Ethylbenzene	1.467	1.635	0.400	11.5	25.0
m, p-Xylene	0.609	0.674	0.200	10.7	25.0
o-Xylene	0.596	0.603	0.200	1.2	25.0
Styrene	0.987	0.977	0.200	-1.0	25.0
Bromoform	0.481	0.484	0.100	0.8	50.0
Isopropylbenzene	1.584	1.582	0.400	-0.1	25.0
1,1,2,2-Tetrachloroethane	0.309	0.303	0.200	-2.1	25.0
1,3-Dichlorobenzene	1.390	1.423	0.500	2.3	25.0
1,4-Dichlorobenzene	1.449	1.494	0.600	3.1	25.0
1,2-Dichlorobenzene	1.346	1.353	0.600	0.5	25.0
1,2-Dibromo-3-chloropropane	0.096	0.098	0.010	1.3	50.0
1,2,4-Trichlorobenzene	0.977	0.899	0.400	-8.0	50.0
1,2,3-Trichlorobenzene	0.809	0.754	0.400	-6.7	50.0
Vinyl Chloride-d3	0.394	0.441	0.010	11.9	50.0
Chloroethane-d5	0.179	0.291	0.010	62.1	50.0
1,1-Dichloroethene-d2	0.548	0.712	0.050	29.8	25.0
2-Butanone-d5	0.079	0.074	0.010	-5.9	50.0
Chloroform-d	0.555	0.580	0.300	4.5	25.0
1,2-Dichloroethane-d4	0.334	0.310	0.060	-7.2	25.0
Benzene-d6	1.246	1.256	0.300	0.8	25.0
1,2-Dichloropropane-d6	0.317	0.345	0.200	8.9	25.0
Toluene-d8	1.173	1.172	0.300	-0.1	25.0
trans-1,3-Dichloropropene-d4	0.441	0.423	0.200	-4.1	25.0
2-Hexanone-d5	0.113	0.102	0.010	-9.6	50.0
1,1,2,2-Tetrachloroethane-d2	0.290	0.289	0.200	-0.3	25.0
1,2-Dichlorobenzene-d4	0.844	0.842	0.400	-0.2	25.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A24.D
Lab Sample ID: VSTD050QA Client Sample ID: VSTD050QA
Injection Date: 16-Dec-2015 18:09:30 Dil. Factor: 1.0
Operator: PAP Inst. ID: msd5.i
Sample Info: 5121615.b, VSTD050QA
Method: \\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5e.m
Method Date: 17-Dec-2015 09:31:30 Quant Method: ISTD
Calib Date: 16-Dec-2015 10:48:30 Calib File: 51216A09.D
Sample Type: CCV ALS Bottle: 24
Cpnd Sublist: std.sub
Sample Matrix: Soil Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
1 Dichlorodifluoromethane	0.375249	0.496844	0.01	32.4	50	132
2 Chloromethane	0.671813	0.737532	0.01	9.8	50	110
$ 3 Vinyl Chloride-d3	0.394185	0.441016	0.01	11.9	50	112
4 Vinyl Chloride	0.575492	0.625877	0.01	8.8	50	109
5 Bromomethane	0.223012	0.278526	0.01	24.9	50	125
$ 6 Chloroethane-d5	0.179238	0.290501	0.01	* 62.1	50	162
7 Chloroethane	0.180842	0.301479	0.01	* 66.7	50	167
8 Trichlorofluoromethane	0.450741	0.627067	0.01	39.1	50	139
$ 9 1,1-Dichloroethene-d2	0.548427	0.711878	0.05	* 29.8	25	130
10 1,1-Dichloroethene	0.268292	0.335403	0.06	25	25	125
11 1,1,2-Trichloro-1,2,2-tr	0.203973	0.255469	0.05	25.2	50	125
12 Acetone	0.049577	0.062123	0.01	25.3	50	125
13 Carbon Disulfide	0.739914	0.823804	0.1	11.3	25	111
14 Methyl Acetate	0.196297	0.260837	0.01	32.9	50	133
15 Methylene Chloride	0.276494	0.298087	0.01	7.8	50	108
16 Methyl tert-Butyl Ether	0.842145	0.790765	0.1	-6.1	50	94
17 trans-1,2-Dichloroethene	0.321459	0.306331	0.1	-4.7	25	95
18 1,1-Dichloroethane	0.54991	0.542023	0.3	-1.4	25	99
$ 19 2-Butanone-d5	0.078826	0.074171	0.01	-5.9	50	94
20 2-Butanone	0.08391	0.100659	0.01	20	50	120
21 cis-1,2-Dichloroethene	0.343853	0.37362	0.2	8.7	25	109
22 Bromochloromethane	0.188405	0.1948	0.1	3.4	25	103
$ 23 Chloroform-d	0.554682	0.579633	0.3	4.5	25	104
24 Chloroform	0.553653	0.563483	0.3	1.8	25	102
25 1,1,1-Trichloroethane	0.516934	0.520347	0.05	0.7	25	101
26 Cyclohexane	0.58189	0.611824	0.01	5.1	50	105
27 Carbon Tetrachloride	0.520679	0.507116	0.1	-2.6	25	97
$ 28 1,2-Dichloroethane-d4	0.33442	0.310434	0.06	-7.2	25	93
$ 29 Benzene-d6	1.246089	1.25586	0.3	0.8	25	101
30 Benzene	1.248895	1.291919	0.2	3.4	25	103
31 1,2-Dichloroethane	0.427923	0.416564	0.07	-2.7	25	97
33 Trichloroethene	0.348904	0.393728	0.2	12.8	25	113
$ 34 1,2-Dichloropropane-d6	0.31726	0.345378	0.2	8.9	25	109
35 Methylcyclohexane	0.591725	0.607615	0.05	2.7	50	103
36 1,2-Dichloropropane	0.298604	0.319953	0.2	7.1	25	107

Report Date: 20-Dec-2015 12:53:27 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A24.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
39 Bromodichloromethane	0.431113	0.475269	0.3	10.2	25	110
$ 40 trans-1,3-Dichloropropen	0.4411	0.423191	0.2	-4.1	25	96
41 cis-1,3-Dichloropropene	0.511533	0.528918	0.3	3.4	25	103
42 4-Methyl-2-pentanone	0.218146	0.23664	0.03	8.5	50	108
$ 43 Toluene-d8	1.173466	1.172387	0.3	-0.1	25	100
44 Toluene	1.34323	1.336535	0.3	-0.5	25	100
45 trans-1,3-Dichloropropen	0.456809	0.436982	0.2	-4.3	25	96
46 1,1,2-Trichloroethane	0.248614	0.253196	0.2	1.8	25	102
47 Tetrachloroethene	0.34975	0.342553	0.1	-2.1	25	98
$ 48 2-Hexanone-d5	0.112792	0.101992	0.01	-9.6	50	90
49 2-Hexanone	0.156034	0.166646	0.01	6.8	50	107
50 Dibromochloromethane	0.373705	0.396072	0.2	6	25	106
51 1,2-Dibromoethane	0.273115	0.308184	0.2	12.8	25	113
53 Chlorobenzene	0.906901	1.001116	0.4	10.4	25	110
54 Ethylbenzene	1.466569	1.63498	0.4	11.5	25	111
55 m+p-Xylenes	0.60896	0.67442	0.2	10.7	25	111
56 o-Xylene	0.595516	0.60263	0.2	1.2	25	101
57 Styrene	0.987427	0.977362	0.2	-1	25	99
58 Bromoform	0.480504	0.484135	0.1	0.8	50	101
59 Isopropylbenzene	1.583892	1.581962	0.4	-0.1	25	100
$ 60 1,1,2,2-Tetrachloroethan	0.289964	0.289095	0.2	-0.3	25	100
61 1,1,2,2-Tetrachloroethan	0.309136	0.30274	0.2	-2.1	25	98
62 1,3-Dichlorobenzene	1.390445	1.422779	0.5	2.3	25	102
64 1,4-Dichlorobenzene	1.448739	1.493575	0.6	3.1	25	103
$ 65 1,2-Dichlorobenzene-d4	0.843787	0.841835	0.4	-0.2	25	100
66 1,2-Dichlorobenzene	1.345808	1.35319	0.6	0.5	25	101
67 1,2-Dibromo-3-chloroprop	0.096291	0.097522	0.01	1.3	50	101
68 1,2,4-Trichlorobenzene	0.976943	0.898887	0.4	-8	50	92
69 1,2,3-Trichlorobenzene	0.808842	0.754418	0.4	-6.7	50	93

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A24.D		
Lab Sample ID:	VSTD050QA	Client Sample ID:	VSTD050QA
Injection Date:	16-Dec-2015 18:09:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VSTD050QA		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5e.m		
Method Date:	17-Dec-2015 09:31:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	CCV	ALS Bottle:	24
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	17-Dec-2015 09:14:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.117	2.117	0.000	152068	50.000	66.202	
2 Chloromethane	50.0	2.330	2.330	0.000	225735	50.000	54.891	
$ 3 Vinyl Chloride-d3	65.0	2.472	2.472	0.000	134981	50.000	55.940	
4 Vinyl Chloride	62.0	2.484	2.484	0.000	191561	50.000	54.378	
5 Bromomethane	94.0	2.852	2.852	0.000	85248	50.000	62.446	
$ 6 Chloroethane-d5	69.0	2.935	2.935	0.000	88913	50.000	81.038	R
7 Chloroethane	64.0	2.970	2.970	0.000	92273	50.000	83.354	
8 Trichlorofluoromethane	101.0	3.279	3.279	0.000	191925	50.000	69.559	M
$ 9 1,1-Dichloroethene-d2	63.0	3.883	3.883	0.000	217883	50.000	64.902	
10 1,1-Dichloroethene	96.0	3.907	3.907	0.000	102656	50.000	62.507	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.931	3.931	0.000	78191	50.000	62.623	
12 Acetone	43.0	3.943	3.943	0.000	38028	100.00	125.31	Q
13 Carbon Disulfide	76.0	4.180	4.180	0.000	252140	50.000	55.669	
14 Methyl Acetate	43.0	4.322	4.322	0.000	79834	50.000	66.440	
15 Methylene Chloride	84.0	4.453	4.453	0.000	91235	50.000	53.905	
16 Methyl tert-Butyl Ether	73.0	4.773	4.773	0.000	242028	50.000	46.949	
17 trans-1,2-Dichloroethene	96.0	4.785	4.785	0.000	93758	50.000	47.647	
18 1,1-Dichloroethane	63.0	5.271	5.271	0.000	165896	50.000	49.283	
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	45403	100.00	94.095	Q
20 2-Butanone	43.0	5.935	5.935	0.000	61617	100.00	119.96	
21 cis-1,2-Dichloroethene	96.0	5.947	5.947	0.000	114353	50.000	54.328	
22 Bromochloromethane	128.0	6.220	6.220	0.000	59622	50.000	51.697	Q
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	177407	50.000	52.249	
24 Chloroform	83.0	6.303	6.303	0.000	172464	50.000	50.888	
25 1,1,1-Trichloroethane	97.0	6.552	6.552	0.000	139454	50.000	50.330	Q
26 Cyclohexane	56.0	6.635	6.635	0.000	163970	50.000	52.572	

Report Date: 20-Dec-2015 12:53:27 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A24.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.753	6.753	0.000	135908	50.000	48.698	
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	95014	50.000	46.414	
$ 29 Benzene-d6	84.0	6.943	6.943	0.000	336573	50.000	50.392	
30 Benzene	78.0	6.990	6.990	0.000	346237	50.000	51.723	
31 1,2-Dichloroethane	62.0	7.002	7.002	0.000	127497	50.000	48.673	
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	306068	50.000	50.000	
33 Trichloroethene	95.0	7.761	7.761	0.000	105520	50.000	56.424	
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	92562	50.000	54.431	
35 Methylcyclohexane	83.0	8.022	8.022	0.000	162842	50.000	51.343	
36 1,2-Dichloropropane	63.0	8.046	8.046	0.000	85748	50.000	53.575	
39 Bromodichloromethane	83.0	8.354	8.354	0.000	127373	50.000	55.121	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	113416	50.000	47.970	
41 cis-1,3-Dichloropropene	75.0	8.852	8.852	0.000	141751	50.000	51.699	
42 4-Methyl-2-pentanone	43.0	8.994	8.994	0.000	126840	100.00	108.48	
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	314202	50.000	49.954	Q
44 Toluene	91.0	9.208	9.208	0.000	358194	50.000	49.751	
45 trans-1,3-Dichloropropene	75.0	9.410	9.410	0.000	117112	50.000	47.830	
46 1,1,2-Trichloroethane	97.0	9.599	9.599	0.000	67857	50.000	50.921	
47 Tetrachloroethene	164.0	9.765	9.765	0.000	91805	50.000	48.971	
$ 48 2-Hexanone-d5	63.0	9.765	9.765	0.000	54668	100.00	90.425	
49 2-Hexanone	43.0	9.825	9.825	0.000	89323	100.00	106.80	
50 Dibromochloromethane	129.0	9.991	9.991	0.000	106148	50.000	52.993	
51 1,2-Dibromoethane	107.0	10.109	10.109	0.000	82594	50.000	56.420	
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	268002	50.000	50.000	
53 Chlorobenzene	112.0	10.536	10.536	0.000	268301	50.000	55.194	
54 Ethylbenzene	91.0	10.619	10.619	0.000	438178	50.000	55.742	
55 m+p-Xylenes	106.0	10.726	10.726	0.000	180746	50.000	55.375	
56 o-Xylene	106.0	11.058	11.058	0.000	161506	50.000	50.597	
57 Styrene	104.0	11.070	11.070	0.000	261935	50.000	49.490	
58 Bromoform	173.0	11.236	11.236	0.000	72673	50.000	50.378	Q
59 Isopropylbenzene	105.0	11.354	11.354	0.000	423969	50.000	49.939	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	77478	50.000	49.850	
61 1,1,2,2-Tetrachloroethane	83.0	11.580	11.580	0.000	81135	50.000	48.966	
62 1,3-Dichlorobenzene	146.0	12.327	12.327	0.000	213572	50.000	51.163	
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	150109	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.386	12.386	0.000	224199	50.000	51.547	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	126367	50.000	49.884	
66 1,2-Dichlorobenzene	146.0	12.659	12.659	0.000	203126	50.000	50.274	
67 1,2-Dibromo-3-chloropropane	75.0	13.192	13.192	0.000	14639	50.000	50.639	Q
68 1,2,4-Trichlorobenzene	180.0	13.762	13.762	0.000	134931	50.000	46.005	
69 1,2,3-Trichlorobenzene	180.0	14.117	14.117	0.000	113245	50.000	46.636	

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

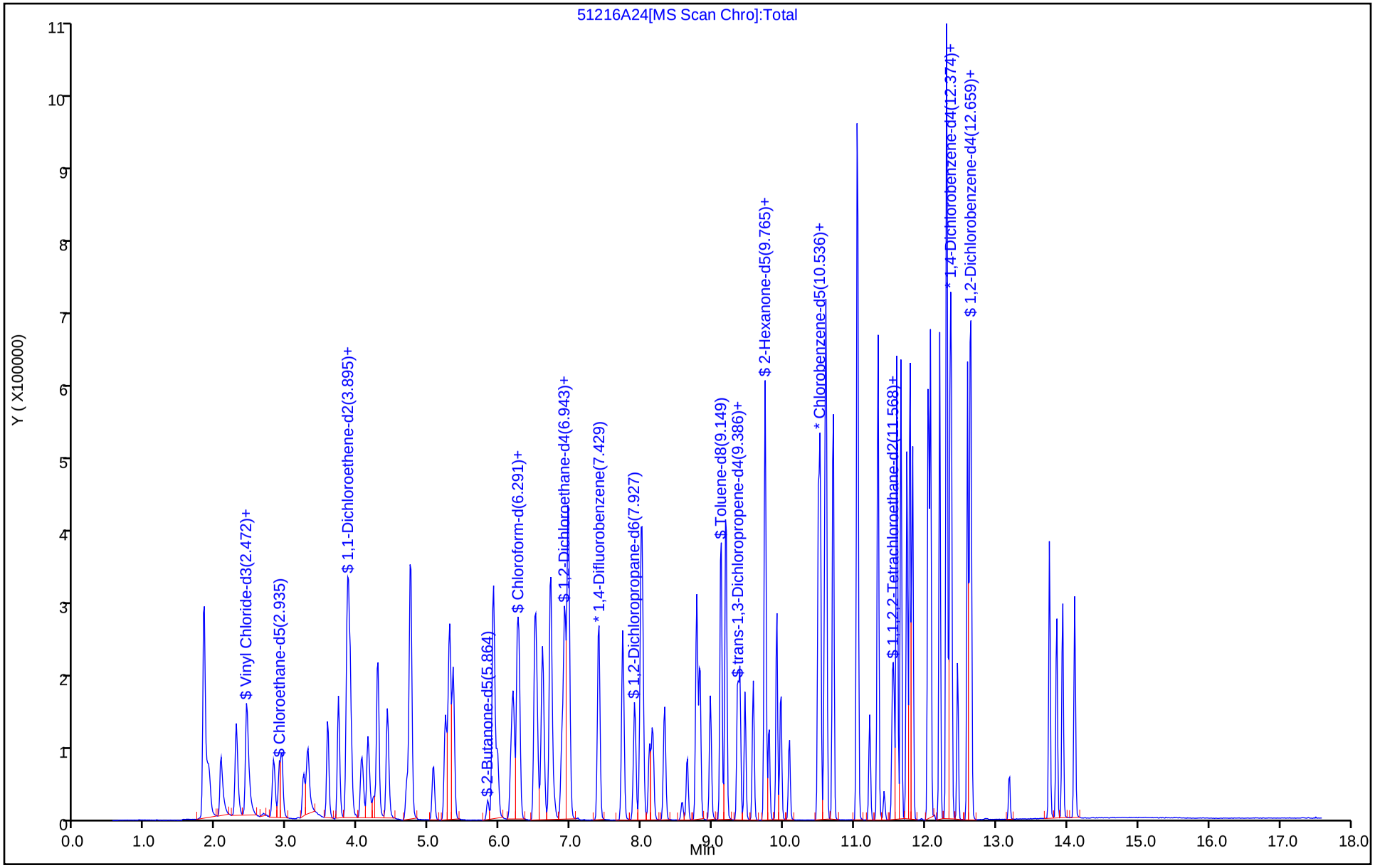
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 20-Dec-2015 12:53:27 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A24.D				
Injection Date:	16-Dec-2015 18:09:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD050QA	Lab ID:	VSTD050QA		
Sample Info:	5121615.b, VSTD050QA				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 20-Dec-2015 12:53:27 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

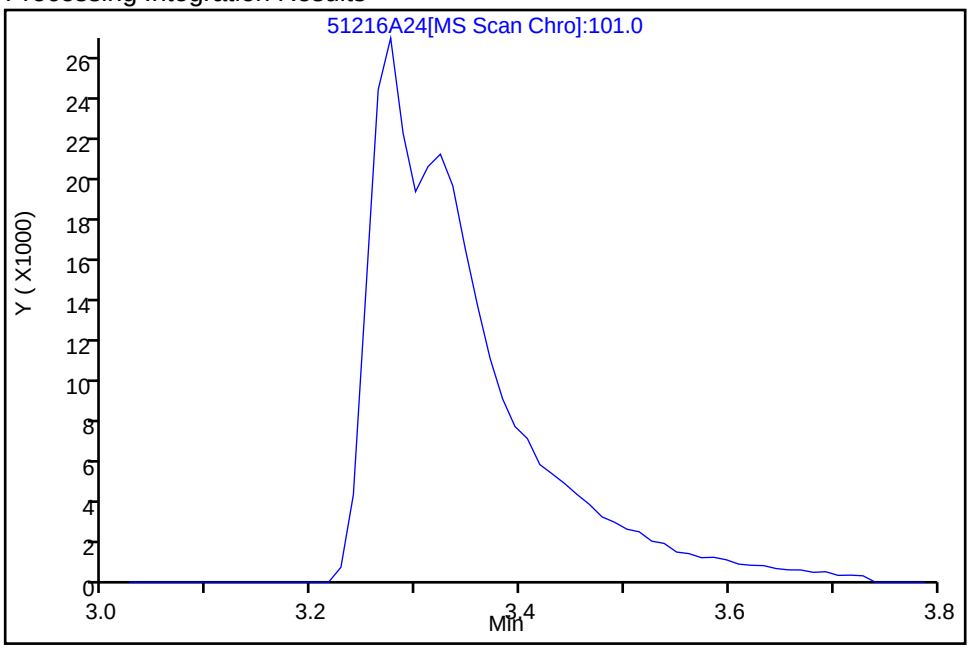
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A24.D		
Injection Date:	16-Dec-2015 18:09:30	Inst. ID:	msd5.i
Client ID:	VSTD050QA	Lab ID:	VSTD050QA
Sample Info:	5121615.b, VSTD050QA		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

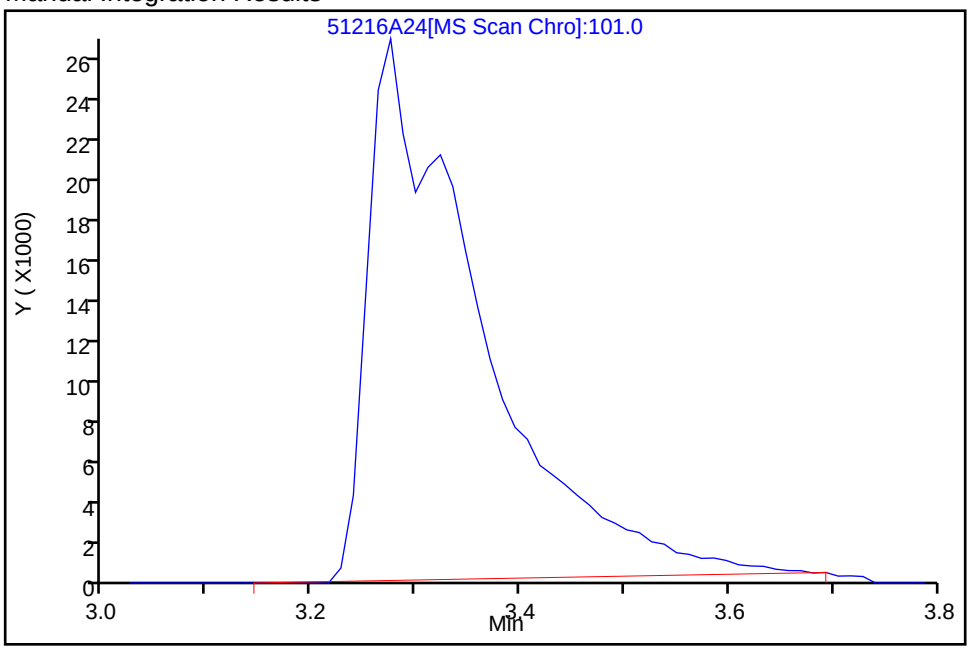
Not Detected
3.279

Processing Integration Results



Manual Integration Results

RT:	3.279
Area:	191925
Amount:	69.559
Amount Units:	ug/L



Data Editor: pap, 17-Dec-2015 09:14:30
Audit Action: Mint
Audit Reason:

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date: 12/21/2015 Time: 0923

Lab File ID: 51221A03 Init. Calib. Date(s): 12/20/2015 12/20/2015

EPA Sample No.: VSTD050SA Init. Calib. Time(s): 1510 1636

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.321	0.343	0.010	6.6	40.0
Chloromethane	0.384	0.408	0.010	6.3	30.0
Vinyl chloride	0.310	0.339	0.010	9.4	25.0
Bromomethane	0.183	0.188	0.010	2.5	30.0
Chloroethane	0.177	0.192	0.010	8.2	25.0
Trichlorofluoromethane	0.374	0.446	0.010	19.5	30.0
1,1-Dichloroethene	0.264	0.276	0.060	4.5	20.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.161	0.196	0.050	21.6	25.0
Acetone	0.076	0.049	0.010	-35.6	40.0
Carbon disulfide	0.698	0.708	0.100	1.4	25.0
Methyl acetate	0.310	0.245	0.010	-20.8	40.0
Methylene chloride	0.286	0.277	0.010	-3.1	30.0
trans-1,2-Dichloroethene	0.305	0.303	0.100	-0.7	20.0
Methyl tert-butyl ether	0.809	0.753	0.100	-6.9	25.0
1,1-Dichloroethane	0.576	0.584	0.300	1.4	20.0
cis-1,2-Dichloroethene	0.343	0.336	0.200	-2.3	20.0
2-Butanone	0.122	0.100	0.010	-17.9	40.0
Bromochloromethane	0.170	0.167	0.100	-1.8	20.0
Chloroform	0.539	0.520	0.300	-3.5	20.0
1,1,1-Trichloroethane	0.463	0.489	0.050	5.6	25.0
Cyclohexane	0.600	0.673	0.010	12.1	25.0
Carbon tetrachloride	0.456	0.483	0.100	5.8	25.0
Benzene	1.381	1.407	0.200	1.9	20.0
1,2-Dichloroethane	0.424	0.409	0.070	-3.5	20.0
Trichloroethene	0.353	0.359	0.200	1.6	20.0
Methylcyclohexane	0.593	0.645	0.050	8.8	25.0
1,2-Dichloropropane	0.366	0.368	0.200	0.5	20.0
Bromodichloromethane	0.449	0.449	0.300	-0.2	20.0
cis-1,3-Dichloropropene	0.584	0.579	0.300	-0.7	20.0
4-Methyl-2-pentanone	0.344	0.299	0.030	-13.0	30.0
Toluene	1.441	1.429	0.300	-0.8	20.0
trans-1,3-Dichloropropene	0.512	0.490	0.200	-4.2	20.0
1,1,2-Trichloroethane	0.288	0.273	0.200	-5.4	20.0
Tetrachloroethene	0.314	0.321	0.100	2.1	20.0
2-Hexanone	0.249	0.212	0.010	-14.9	40.0
Dibromochloromethane	0.366	0.341	0.200	-7.0	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date: 12/21/2015 Time: 0923

Lab File ID: 51221A03 Init. Calib. Date(s): 12/20/2015 12/20/2015

EPA Sample No.: VSTD050SA Init. Calib. Time(s): 1510 1636

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dibromoethane	0.307	0.289	0.200	-6.0	20.0
Chlorobenzene	0.966	0.924	0.400	-4.4	20.0
Ethylbenzene	1.588	1.543	0.400	-2.8	20.0
m, p-Xylene	0.638	0.619	0.200	-2.9	20.0
o-Xylene	0.611	0.574	0.200	-6.0	20.0
Styrene	1.055	0.993	0.200	-5.9	20.0
Bromoform	0.497	0.442	0.100	-11.2	25.0
Isopropylbenzene	1.603	1.534	0.400	-4.3	25.0
1,1,2,2-Tetrachloroethane	0.364	0.327	0.200	-10.3	25.0
1,3-Dichlorobenzene	1.558	1.479	0.500	-5.1	20.0
1,4-Dichlorobenzene	1.571	1.484	0.600	-5.5	20.0
1,2-Dichlorobenzene	1.451	1.335	0.600	-8.0	20.0
1,2-Dibromo-3-chloropropane	0.122	0.105	0.010	-13.9	30.0
1,2,4-Trichlorobenzene	1.028	0.883	0.400	-14.2	30.0
1,2,3-Trichlorobenzene	0.916	0.748	0.400	-18.3	30.0
Vinyl Chloride-d3	0.225	0.228	0.010	1.6	30.0
Chloroethane-d5	0.182	0.184	0.010	1.2	30.0
1,1-Dichloroethene-d2	0.518	0.547	0.050	5.6	25.0
2-Butanone-d5	0.105	0.088	0.010	-16.1	40.0
Chloroform-d	0.496	0.494	0.300	-0.5	20.0
1,2-Dichloroethane-d4	0.304	0.290	0.060	-4.5	25.0
Benzene-d6	1.193	1.241	0.300	4.0	20.0
1,2-Dichloropropane-d6	0.362	0.368	0.200	1.6	20.0
Toluene-d8	1.140	1.138	0.300	-0.2	20.0
trans-1,3-Dichloropropene-d4	0.445	0.439	0.200	-1.2	20.0
2-Hexanone-d5	0.134	0.128	0.010	-4.4	40.0
1,1,2,2-Tetrachloroethane-d2	0.320	0.304	0.200	-5.0	25.0
1,2-Dichlorobenzene-d4	0.826	0.788	0.400	-4.5	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A03.D		
Lab Sample ID:	VSTD050SA	Client Sample ID:	VSTD050SA
Injection Date:	21-Dec-2015 09:23:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VSTD050SA		
Method:	\\Organics\DD\chem\msd5.i\5122115.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 10:25:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	CCV	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
1 Dichlorodifluoromethane	0.321335	0.342564	0.01	6.6	40	107
2 Chloromethane	0.383642	0.407843	0.01	6.3	30	106
$ 3 Vinyl Chloride-d3	0.224892	0.228499	0.01	1.6	30	102
4 Vinyl Chloride	0.309592	0.33868	0.01	9.4	25	109
5 Bromomethane	0.183006	0.187651	0.01	2.5	30	103
$ 6 Chloroethane-d5	0.181742	0.183953	0.01	1.2	30	101
7 Chloroethane	0.177194	0.191646	0.01	8.2	25	108
8 Trichlorofluoromethane	0.373702	0.446454	0.01	19.5	30	119
$ 9 1,1-Dichloroethene-d2	0.51754	0.546628	0.05	5.6	25	106
10 1,1-Dichloroethene	0.264073	0.276021	0.06	4.5	20	105
11 1,1,2-Trichloro-1,2,2-tr	0.160898	0.195597	0.05	21.6	25	122
12 Acetone	0.075741	0.048755	0.01	-35.6	40	64
13 Carbon Disulfide	0.698379	0.708308	0.1	1.4	25	101
14 Methyl Acetate	0.309912	0.245397	0.01	-20.8	40	79
15 Methylene Chloride	0.285715	0.276978	0.01	-3.1	30	97
16 Methyl tert-Butyl Ether	0.80876	0.753192	0.1	-6.9	25	93
17 trans-1,2-Dichloroethene	0.30518	0.303135	0.1	-0.7	20	99
18 1,1-Dichloroethane	0.576358	0.584375	0.3	1.4	20	101
$ 19 2-Butanone-d5	0.105103	0.088213	0.01	-16.1	40	84
20 2-Butanone	0.121714	0.099963	0.01	-17.9	40	82
21 cis-1,2-Dichloroethene	0.343431	0.335668	0.2	-2.3	20	98
22 Bromochloromethane	0.169659	0.166588	0.1	-1.8	20	98
$ 23 Chloroform-d	0.496492	0.493847	0.3	-0.5	20	99
24 Chloroform	0.538951	0.51999	0.3	-3.5	20	96
25 1,1,1-Trichloroethane	0.462796	0.488891	0.05	5.6	25	106
26 Cyclohexane	0.600367	0.672878	0.01	12.1	25	112
27 Carbon Tetrachloride	0.456198	0.48255	0.1	5.8	25	106
$ 28 1,2-Dichloroethane-d4	0.303971	0.290441	0.06	-4.5	25	96
$ 29 Benzene-d6	1.192916	1.241194	0.3	4	20	104
30 Benzene	1.380922	1.407178	0.2	1.9	20	102
31 1,2-Dichloroethane	0.424181	0.40928	0.07	-3.5	20	96
33 Trichloroethene	0.353244	0.358946	0.2	1.6	20	102
$ 34 1,2-Dichloropropane-d6	0.362399	0.36827	0.2	1.6	20	102
35 Methylcyclohexane	0.592601	0.644739	0.05	8.8	25	109
36 1,2-Dichloropropane	0.365855	0.367516	0.2	0.5	20	100

Report Date: 21-Dec-2015 17:14:44 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115.b\51221A03.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
39 Bromodichloromethane	0.449469	0.448543	0.3	-0.2	20	100
$ 40 trans-1,3-Dichloropropen	0.444533	0.439152	0.2	-1.2	20	99
41 cis-1,3-Dichloropropene	0.583768	0.579434	0.3	-0.7	20	99
42 4-Methyl-2-pentanone	0.343726	0.299101	0.03	-13	30	87
$ 43 Toluene-d8	1.14018	1.137642	0.3	-0.2	20	100
44 Toluene	1.441356	1.42935	0.3	-0.8	20	99
45 trans-1,3-Dichloropropen	0.511639	0.49005	0.2	-4.2	20	96
46 1,1,2-Trichloroethane	0.288485	0.272888	0.2	-5.4	20	95
47 Tetrachloroethene	0.314381	0.320938	0.1	2.1	20	102
$ 48 2-Hexanone-d5	0.133927	0.128063	0.01	-4.4	40	96
49 2-Hexanone	0.248807	0.211806	0.01	-14.9	40	85
50 Dibromochloromethane	0.366031	0.340552	0.2	-7	20	93
51 1,2-Dibromoethane	0.307166	0.288781	0.2	-6	20	94
53 Chlorobenzene	0.96554	0.923536	0.4	-4.4	20	96
54 Ethylbenzene	1.587714	1.542735	0.4	-2.8	20	97
55 m+p-Xylenes	0.637522	0.619116	0.2	-2.9	20	97
56 o-Xylene	0.610951	0.57405	0.2	-6	20	94
57 Styrene	1.054845	0.993113	0.2	-5.9	20	94
58 Bromoform	0.497223	0.441668	0.1	-11.2	25	89
59 Isopropylbenzene	1.603181	1.534155	0.4	-4.3	25	96
$ 60 1,1,2,2-Tetrachloroethan	0.319718	0.303734	0.2	-5	25	95
61 1,1,2,2-Tetrachloroethan	0.364245	0.326753	0.2	-10.3	25	90
62 1,3-Dichlorobenzene	1.55789	1.478925	0.5	-5.1	20	95
64 1,4-Dichlorobenzene	1.570603	1.484172	0.6	-5.5	20	94
$ 65 1,2-Dichlorobenzene-d4	0.82558	0.788278	0.4	-4.5	20	95
66 1,2-Dichlorobenzene	1.451052	1.334945	0.6	-8	20	92
67 1,2-Dibromo-3-chloroprop	0.12157	0.104695	0.01	-13.9	30	86
68 1,2,4-Trichlorobenzene	1.028247	0.882549	0.4	-14.2	30	86
69 1,2,3-Trichlorobenzene	0.91551	0.748327	0.4	-18.3	30	82

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A03.D		
Lab Sample ID:	VSTD050SA	Client Sample ID:	VSTD050SA
Injection Date:	21-Dec-2015 09:23:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VSTD050SA		
Method:	\\Organics\DD\chem\msd5.i\5122115.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 10:25:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	CCV	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 09:46:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	76994	50.000	53.303	
2 Chloromethane	50.0	2.271	2.271	0.000	91666	50.000	53.154	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	51357	50.000	50.802	
4 Vinyl Chloride	62.0	2.413	2.413	0.000	76121	50.000	54.698	
5 Bromomethane	94.0	2.781	2.781	0.000	42176	50.000	51.269	
$ 6 Chloroethane-d5	69.0	2.852	2.852	0.000	41345	50.000	50.608	
7 Chloroethane	64.0	2.887	2.887	0.000	43074	50.000	54.078	
8 Trichlorofluoromethane	101.0	3.184	3.184	0.000	100344	50.000	59.734	M
$ 9 1,1-Dichloroethene-d2	63.0	3.801	3.801	0.000	122859	50.000	52.810	
10 1,1-Dichloroethene	96.0	3.812	3.812	0.000	62038	50.000	52.262	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.836	3.836	0.000	43962	50.000	60.783	
12 Acetone	43.0	3.848	3.848	0.000	21916	100.00	64.370	
13 Carbon Disulfide	76.0	4.085	4.085	0.000	159198	50.000	50.711	
14 Methyl Acetate	43.0	4.216	4.216	0.000	55155	50.000	39.591	
15 Methylene Chloride	84.0	4.358	4.358	0.000	62253	50.000	48.471	
16 Methyl tert-Butyl Ether	73.0	4.666	4.666	0.000	169286	50.000	46.565	
17 trans-1,2-Dichloroethene	96.0	4.678	4.678	0.000	68132	50.000	49.665	
18 1,1-Dichloroethane	63.0	5.152	5.152	0.000	131343	50.000	50.696	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	39653	100.00	83.930	
20 2-Butanone	43.0	5.828	5.828	0.000	44935	100.00	82.129	
21 cis-1,2-Dichloroethene	96.0	5.828	5.828	0.000	75444	50.000	48.870	
22 Bromochloromethane	128.0	6.113	6.113	0.000	37442	50.000	49.095	
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	110996	50.000	49.734	
24 Chloroform	83.0	6.196	6.196	0.000	116872	50.000	48.241	
25 1,1,1-Trichloroethane	97.0	6.433	6.433	0.000	94065	50.000	52.819	
26 Cyclohexane	56.0	6.516	6.516	0.000	129465	50.000	56.039	

Report Date: 21-Dec-2015 17:14:44 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115.b\51221A03.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.635	6.635	0.000	92845	50.000	52.888	
$ 28 1,2-Dichloroethane-d4	65.0	6.789	6.789	0.000	65279	50.000	47.775	
$ 29 Benzene-d6	84.0	6.824	6.824	0.000	238812	50.000	52.024	
30 Benzene	78.0	6.872	6.872	0.000	270748	50.000	50.951	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	91989	50.000	48.244	
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	0.000	224758	50.000	50.000	
33 Trichloroethene	95.0	7.643	7.643	0.000	69063	50.000	50.807	
$ 34 1,2-Dichloropropane-d6	67.0	7.809	7.809	0.000	70857	50.000	50.810	
35 Methylcyclohexane	83.0	7.904	7.904	0.000	124051	50.000	54.399	
36 1,2-Dichloropropane	63.0	7.915	7.915	0.000	70712	50.000	50.227	
39 Bromodichloromethane	83.0	8.236	8.236	0.000	86302	50.000	49.897	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	84495	50.000	49.395	
41 cis-1,3-Dichloropropene	75.0	8.746	8.746	0.000	111486	50.000	49.629	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	115097	100.00	87.017	
$ 43 Toluene-d8	98.0	9.042	9.042	0.000	218888	50.000	49.889	
44 Toluene	91.0	9.113	9.113	0.000	275014	50.000	49.583	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	94288	50.000	47.890	
46 1,1,2-Trichloroethane	97.0	9.504	9.504	0.000	52505	50.000	47.297	
47 Tetrachloroethene	164.0	9.671	9.671	0.000	61750	50.000	51.043	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	49280	100.00	95.621	
49 2-Hexanone	43.0	9.730	9.730	0.000	81505	100.00	85.128	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	65524	50.000	46.520	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	55563	50.000	47.007	
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	192405	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	177693	50.000	47.825	
54 Ethylbenzene	91.0	10.536	10.536	0.000	296830	50.000	48.584	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	119121	50.000	48.556	
56 o-Xylene	106.0	10.975	10.975	0.000	110450	50.000	46.980	
57 Styrene	104.0	10.987	10.987	0.000	191080	50.000	47.074	
58 Bromoform	173.0	11.153	11.153	0.000	43768	50.000	44.414	
59 Isopropylbenzene	105.0	11.271	11.271	0.000	295179	50.000	47.847	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	58440	50.000	47.500	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	62869	50.000	44.853	
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	146557	50.000	47.466	
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	99097	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	147077	50.000	47.248	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	78116	50.000	47.741	
66 1,2-Dichlorobenzene	146.0	12.588	12.588	0.000	132289	50.000	45.999	
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	10375	50.000	43.060	
68 1,2,4-Trichlorobenzene	180.0	13.679	13.679	0.000	87458	50.000	42.915	
69 1,2,3-Trichlorobenzene	180.0	14.034	14.034	0.000	74157	50.000	40.869	

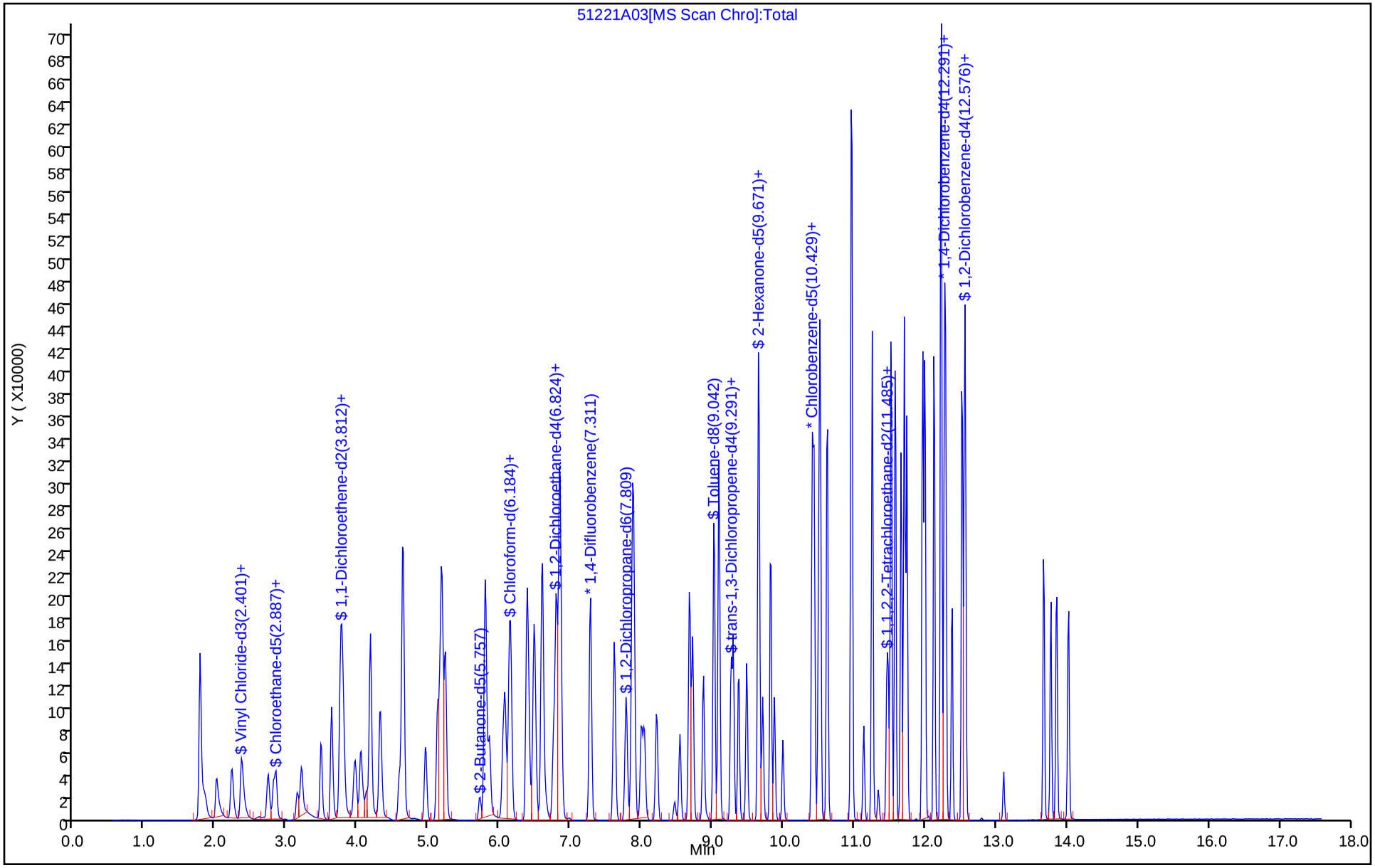
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A03.D				
Injection Date:	21-Dec-2015 09:23:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD050SA	Lab ID:	VSTD050SA		
Sample Info:	5122115b, VSTD050SA				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 21-Dec-2015 17:14:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

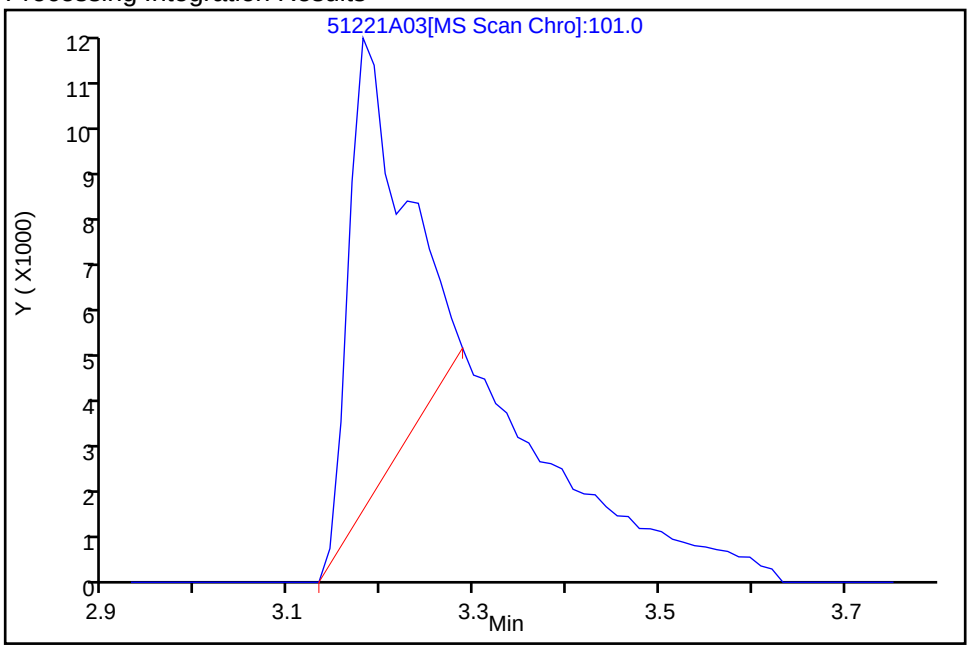
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A03.D		
Injection Date:	21-Dec-2015 09:23:30	Inst. ID:	msd5.i
Client ID:	VSTD050SA	Lab ID:	VSTD050SA
Sample Info:	5122115b, VSTD050SA		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

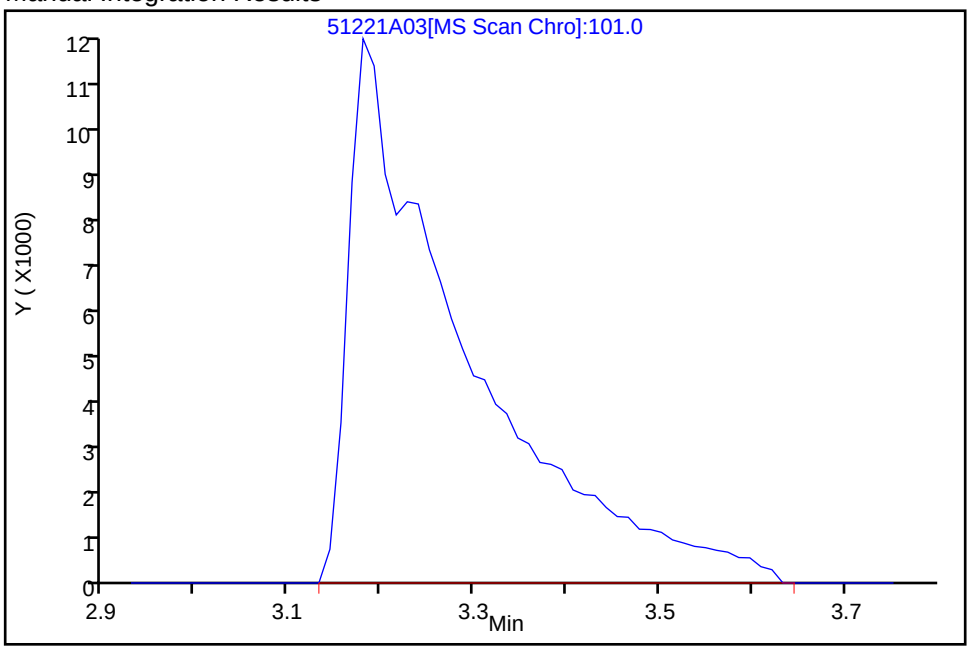
Processing Integration Results

RT: 3.184
Area: 40502
Amount: 24.110
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.184
Area: 100344
Amount: 59.734
Amount Units: ug/L



Data Editor: pap, 21-Dec-2015 09:46:30
Audit Action: Mint
Audit Reason: IAI

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date: 12/21/2015 Time: 1304

Lab File ID: 51221A10 Init. Calib. Date(s): 12/20/2015 12/20/2015

EPA Sample No.: VSTD050SB Init. Calib. Time(s): 1510 1636

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.321	0.331	0.010	3.2	50.0
Chloromethane	0.384	0.372	0.010	-3.0	50.0
Vinyl chloride	0.310	0.330	0.010	6.7	50.0
Bromomethane	0.183	0.189	0.010	3.4	50.0
Chloroethane	0.177	0.184	0.010	3.6	50.0
Trichlorofluoromethane	0.374	0.342	0.010	-8.6	50.0
1,1-Dichloroethene	0.264	0.269	0.060	1.9	25.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.161	0.154	0.050	-4.3	50.0
Acetone	0.076	0.059	0.010	-22.3	50.0
Carbon disulfide	0.698	0.694	0.100	-0.6	25.0
Methyl acetate	0.310	0.270	0.010	-12.8	50.0
Methylene chloride	0.286	0.275	0.010	-3.8	50.0
trans-1,2-Dichloroethene	0.305	0.296	0.100	-3.1	25.0
Methyl tert-butyl ether	0.809	0.773	0.100	-4.4	50.0
1,1-Dichloroethane	0.576	0.560	0.300	-2.9	25.0
cis-1,2-Dichloroethene	0.343	0.330	0.200	-4.0	25.0
2-Butanone	0.122	0.101	0.010	-16.9	50.0
Bromochloromethane	0.170	0.167	0.100	-1.4	25.0
Chloroform	0.539	0.510	0.300	-5.4	25.0
1,1,1-Trichloroethane	0.463	0.467	0.050	0.9	25.0
Cyclohexane	0.600	0.630	0.010	5.0	50.0
Carbon tetrachloride	0.456	0.457	0.100	0.2	25.0
Benzene	1.381	1.354	0.200	-1.9	25.0
1,2-Dichloroethane	0.424	0.413	0.070	-2.6	25.0
Trichloroethene	0.353	0.347	0.200	-1.8	25.0
Methylcyclohexane	0.593	0.612	0.050	3.3	50.0
1,2-Dichloropropane	0.366	0.359	0.200	-1.8	25.0
Bromodichloromethane	0.449	0.441	0.300	-1.9	25.0
cis-1,3-Dichloropropene	0.584	0.577	0.300	-1.2	25.0
4-Methyl-2-pentanone	0.344	0.337	0.030	-1.8	50.0
Toluene	1.441	1.410	0.300	-2.2	25.0
trans-1,3-Dichloropropene	0.512	0.494	0.200	-3.4	25.0
1,1,2-Trichloroethane	0.288	0.278	0.200	-3.6	25.0
Tetrachloroethene	0.314	0.316	0.100	0.4	25.0
2-Hexanone	0.249	0.233	0.010	-6.5	50.0
Dibromochloromethane	0.366	0.350	0.200	-4.3	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date: 12/21/2015 Time: 1304

Lab File ID: 51221A10 Init. Calib. Date(s): 12/20/2015 12/20/2015

EPA Sample No.: VSTD050SB Init. Calib. Time(s): 1510 1636

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dibromoethane	0.307	0.297	0.200	-3.3	25.0
Chlorobenzene	0.966	0.934	0.400	-3.3	25.0
Ethylbenzene	1.588	1.543	0.400	-2.8	25.0
m, p-Xylene	0.638	0.613	0.200	-3.8	25.0
o-Xylene	0.611	0.589	0.200	-3.6	25.0
Styrene	1.055	1.013	0.200	-3.9	25.0
Bromoform	0.497	0.477	0.100	-4.0	50.0
Isopropylbenzene	1.603	1.545	0.400	-3.6	25.0
1,1,2,2-Tetrachloroethane	0.364	0.351	0.200	-3.5	25.0
1,3-Dichlorobenzene	1.558	1.468	0.500	-5.8	25.0
1,4-Dichlorobenzene	1.571	1.486	0.600	-5.4	25.0
1,2-Dichlorobenzene	1.451	1.358	0.600	-6.4	25.0
1,2-Dibromo-3-chloropropane	0.122	0.112	0.010	-7.7	50.0
1,2,4-Trichlorobenzene	1.028	0.885	0.400	-13.9	50.0
1,2,3-Trichlorobenzene	0.916	0.798	0.400	-12.8	50.0
Vinyl Chloride-d3	0.225	0.220	0.010	-2.1	50.0
Chloroethane-d5	0.182	0.178	0.010	-1.9	50.0
1,1-Dichloroethene-d2	0.518	0.526	0.050	1.7	25.0
2-Butanone-d5	0.105	0.099	0.010	-6.0	50.0
Chloroform-d	0.496	0.488	0.300	-1.6	25.0
1,2-Dichloroethane-d4	0.304	0.298	0.060	-1.9	25.0
Benzene-d6	1.193	1.187	0.300	-0.5	25.0
1,2-Dichloropropane-d6	0.362	0.356	0.200	-1.8	25.0
Toluene-d8	1.140	1.130	0.300	-0.9	25.0
trans-1,3-Dichloropropene-d4	0.445	0.445	0.200	0.2	25.0
2-Hexanone-d5	0.134	0.136	0.010	1.8	50.0
1,1,2,2-Tetrachloroethane-d2	0.320	0.322	0.200	0.6	25.0
1,2-Dichlorobenzene-d4	0.826	0.806	0.400	-2.3	25.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\DD\chem\msd5.i\5122115.b\51221A10.D
Lab Sample ID: VSTD050SB Client Sample ID: VSTD050SB
Injection Date: 21-Dec-2015 13:04:30 Dil. Factor: 1.0
Operator: PAP Inst. ID: msd5.i
Sample Info: 5122115b, VSTD050SB
Method: \\Organics\DD\chem\msd5.i\5122115.b\CLPLMM-5e.m
Method Date: 21-Dec-2015 13:27:30 Quant Method: ISTD
Calib Date: 20-Dec-2015 16:36:30 Calib File: 51220A12.D
Sample Type: CCV ALS Bottle: 10
Cpnd Sublist: std.sub
Sample Matrix: Soil Matrix Level: Medium
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
1 Dichlorodifluoromethane	0.321335	0.331458	0.01	3.2	50	103
2 Chloromethane	0.383642	0.372057	0.01	-3	50	97
$ 3 Vinyl Chloride-d3	0.224892	0.220078	0.01	-2.1	50	98
4 Vinyl Chloride	0.309592	0.33019	0.01	6.7	50	107
5 Bromomethane	0.183006	0.189157	0.01	3.4	50	103
$ 6 Chloroethane-d5	0.181742	0.17822	0.01	-1.9	50	98
7 Chloroethane	0.177194	0.183622	0.01	3.6	50	104
8 Trichlorofluoromethane	0.373702	0.341588	0.01	-8.6	50	91
$ 9 1,1-Dichloroethene-d2	0.51754	0.526138	0.05	1.7	25	102
10 1,1-Dichloroethene	0.264073	0.269161	0.06	1.9	25	102
11 1,1,2-Trichloro-1,2,2-tr	0.160898	0.153917	0.05	-4.3	50	96
12 Acetone	0.075741	0.058834	0.01	-22.3	50	78
13 Carbon Disulfide	0.698379	0.694035	0.1	-0.6	25	99
14 Methyl Acetate	0.309912	0.270308	0.01	-12.8	50	87
15 Methylene Chloride	0.285715	0.274941	0.01	-3.8	50	96
16 Methyl tert-Butyl Ether	0.80876	0.772831	0.1	-4.4	50	96
17 trans-1,2-Dichloroethene	0.30518	0.295797	0.1	-3.1	25	97
18 1,1-Dichloroethane	0.576358	0.559848	0.3	-2.9	25	97
$ 19 2-Butanone-d5	0.105103	0.098818	0.01	-6	50	94
20 2-Butanone	0.121714	0.101195	0.01	-16.9	50	83
21 cis-1,2-Dichloroethene	0.343431	0.329859	0.2	-4	25	96
22 Bromochloromethane	0.169659	0.167343	0.1	-1.4	25	99
$ 23 Chloroform-d	0.496492	0.488362	0.3	-1.6	25	98
24 Chloroform	0.538951	0.509811	0.3	-5.4	25	95
25 1,1,1-Trichloroethane	0.462796	0.466911	0.05	0.9	25	101
26 Cyclohexane	0.600367	0.630366	0.01	5	50	105
27 Carbon Tetrachloride	0.456198	0.457037	0.1	0.2	25	100
$ 28 1,2-Dichloroethane-d4	0.303971	0.298139	0.06	-1.9	25	98
$ 29 Benzene-d6	1.192916	1.187263	0.3	-0.5	25	100
30 Benzene	1.380922	1.35415	0.2	-1.9	25	98
31 1,2-Dichloroethane	0.424181	0.412983	0.07	-2.6	25	97
33 Trichloroethene	0.353244	0.34701	0.2	-1.8	25	98
$ 34 1,2-Dichloropropane-d6	0.362399	0.355715	0.2	-1.8	25	98
35 Methylcyclohexane	0.592601	0.612051	0.05	3.3	50	103
36 1,2-Dichloropropane	0.365855	0.359282	0.2	-1.8	25	98

Report Date: 21-Dec-2015 17:14:46 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115.b\51221A10.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
39 Bromodichloromethane	0.449469	0.440793	0.3	-1.9	25	98
$ 40 trans-1,3-Dichloropropen	0.444533	0.445262	0.2	0.2	25	100
41 cis-1,3-Dichloropropene	0.583768	0.576815	0.3	-1.2	25	99
42 4-Methyl-2-pentanone	0.343726	0.33749	0.03	-1.8	50	98
$ 43 Toluene-d8	1.14018	1.129843	0.3	-0.9	25	99
44 Toluene	1.441356	1.409509	0.3	-2.2	25	98
45 trans-1,3-Dichloropropen	0.511639	0.494252	0.2	-3.4	25	97
46 1,1,2-Trichloroethane	0.288485	0.278176	0.2	-3.6	25	96
47 Tetrachloroethene	0.314381	0.31558	0.1	0.4	25	100
$ 48 2-Hexanone-d5	0.133927	0.136315	0.01	1.8	50	102
49 2-Hexanone	0.248807	0.232566	0.01	-6.5	50	93
50 Dibromochloromethane	0.366031	0.35011	0.2	-4.3	25	96
51 1,2-Dibromoethane	0.307166	0.296934	0.2	-3.3	25	97
53 Chlorobenzene	0.96554	0.933592	0.4	-3.3	25	97
54 Ethylbenzene	1.587714	1.543031	0.4	-2.8	25	97
55 m+p-Xylenes	0.637522	0.613236	0.2	-3.8	25	96
56 o-Xylene	0.610951	0.588877	0.2	-3.6	25	96
57 Styrene	1.054845	1.013251	0.2	-3.9	25	96
58 Bromoform	0.497223	0.477142	0.1	-4	50	96
59 Isopropylbenzene	1.603181	1.545395	0.4	-3.6	25	96
$ 60 1,1,2,2-Tetrachloroethan	0.319718	0.321736	0.2	0.6	25	101
61 1,1,2,2-Tetrachloroethan	0.364245	0.351484	0.2	-3.5	25	96
62 1,3-Dichlorobenzene	1.55789	1.467544	0.5	-5.8	25	94
64 1,4-Dichlorobenzene	1.570603	1.48644	0.6	-5.4	25	95
$ 65 1,2-Dichlorobenzene-d4	0.82558	0.806392	0.4	-2.3	25	98
66 1,2-Dichlorobenzene	1.451052	1.358054	0.6	-6.4	25	94
67 1,2-Dibromo-3-chloroprop	0.12157	0.1122	0.01	-7.7	50	92
68 1,2,4-Trichlorobenzene	1.028247	0.885184	0.4	-13.9	50	86
69 1,2,3-Trichlorobenzene	0.91551	0.79812	0.4	-12.8	50	87

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A10.D		
Lab Sample ID:	VSTD050SB	Client Sample ID:	VSTD050SB
Injection Date:	21-Dec-2015 13:04:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VSTD050SB		
Method:	\\Organics\DD\chem\msd5.i\5122115.b\CLPLMM-5e.m		
Method Date:	21-Dec-2015 13:27:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	CCV	ALS Bottle:	10
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	21-Dec-2015 13:27:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	77127	50.000	51.575	
2 Chloromethane	50.0	2.271	2.271	0.000	86574	50.000	48.490	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	51210	50.000	48.930	
4 Vinyl Chloride	62.0	2.413	2.413	0.000	76832	50.000	53.327	
5 Bromomethane	94.0	2.792	2.792	0.000	44015	50.000	51.681	
$ 6 Chloroethane-d5	69.0	2.864	2.864	0.000	41470	50.000	49.031	
7 Chloroethane	64.0	2.899	2.899	0.000	42727	50.000	51.814	
8 Trichlorofluoromethane	101.0	3.196	3.196	0.000	79484	50.000	45.703	M
$ 9 1,1-Dichloroethene-d2	63.0	3.800	3.800	0.000	122427	50.000	50.831	
10 1,1-Dichloroethene	96.0	3.812	3.812	0.000	62631	50.000	50.963	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.836	3.836	0.000	35815	50.000	47.831	
12 Acetone	43.0	3.848	3.848	0.000	27380	100.00	77.678	
13 Carbon Disulfide	76.0	4.085	4.085	0.000	161495	50.000	49.689	
14 Methyl Acetate	43.0	4.227	4.227	0.000	62898	50.000	43.610	
15 Methylene Chloride	84.0	4.358	4.358	0.000	63976	50.000	48.114	
16 Methyl tert-Butyl Ether	73.0	4.678	4.678	0.000	179830	50.000	47.779	
17 trans-1,2-Dichloroethene	96.0	4.678	4.678	0.000	68829	50.000	48.463	
18 1,1-Dichloroethane	63.0	5.164	5.164	0.000	130271	50.000	48.568	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	45988	100.00	94.020	
20 2-Butanone	43.0	5.828	5.828	0.000	47094	100.00	83.141	
21 cis-1,2-Dichloroethene	96.0	5.828	5.828	0.000	76755	50.000	48.024	
22 Bromochloromethane	128.0	6.113	6.113	0.000	38939	50.000	49.317	
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	113637	50.000	49.181	
24 Chloroform	83.0	6.196	6.196	0.000	118628	50.000	47.297	
25 1,1,1-Trichloroethane	97.0	6.445	6.445	0.000	95804	50.000	50.445	

Report Date: 21-Dec-2015 17:14:47 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115.b\51221A10.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
26 Cyclohexane	56.0	6.528	6.528	0.000	129343	50.000	52.498	
27 Carbon Tetrachloride	117.0	6.646	6.646	0.000	93778	50.000	50.092	
$ 28 1,2-Dichloroethane-d4	65.0	6.789	6.789	0.000	69374	50.000	49.041	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	243611	50.000	49.763	
30 Benzene	78.0	6.884	6.884	0.000	277854	50.000	49.031	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	96097	50.000	48.680	
* 32 1,4-Difluorobenzene	114.0	7.310	7.310	0.000	232690	50.000	50.000	
33 Trichloroethene	95.0	7.654	7.654	0.000	71202	50.000	49.118	
$ 34 1,2-Dichloropropane-d6	67.0	7.820	7.820	0.000	72988	50.000	49.078	
35 Methylcyclohexane	83.0	7.903	7.903	0.000	125585	50.000	51.641	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	73720	50.000	49.102	
39 Bromodichloromethane	83.0	8.247	8.247	0.000	90445	50.000	49.035	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	91362	50.000	50.082	
41 cis-1,3-Dichloropropene	75.0	8.745	8.745	0.000	118355	50.000	49.405	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	138497	100.00	98.186	
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	231829	50.000	49.547	
44 Toluene	91.0	9.125	9.125	0.000	289213	50.000	48.895	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	101414	50.000	48.301	
46 1,1,2-Trichloroethane	97.0	9.504	9.504	0.000	57078	50.000	48.213	
47 Tetrachloroethene	164.0	9.670	9.670	0.000	64753	50.000	50.191	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	55940	100.00	101.78	
49 2-Hexanone	43.0	9.730	9.730	0.000	95439	100.00	93.472	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	71838	50.000	47.825	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	60927	50.000	48.334	
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	205187	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	191561	50.000	48.346	
54 Ethylbenzene	91.0	10.536	10.536	0.000	316610	50.000	48.593	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	125828	50.000	48.095	
56 o-Xylene	106.0	10.975	10.975	0.000	120830	50.000	48.193	
57 Styrene	104.0	10.987	10.987	0.000	207906	50.000	48.028	
58 Bromoform	173.0	11.153	11.153	0.000	50704	50.000	47.981	
59 Isopropylbenzene	105.0	11.271	11.271	0.000	317095	50.000	48.198	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	66016	50.000	50.316	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	72120	50.000	48.248	
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	155950	50.000	47.100	
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	106266	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	157958	50.000	47.321	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	85692	50.000	48.838	
66 1,2-Dichlorobenzene	146.0	12.588	12.588	0.000	144315	50.000	46.796	
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	11923	50.000	46.146	
68 1,2,4-Trichlorobenzene	180.0	13.678	13.678	0.000	94065	50.000	43.043	
69 1,2,3-Trichlorobenzene	180.0	14.034	14.034	0.000	84813	50.000	43.589	

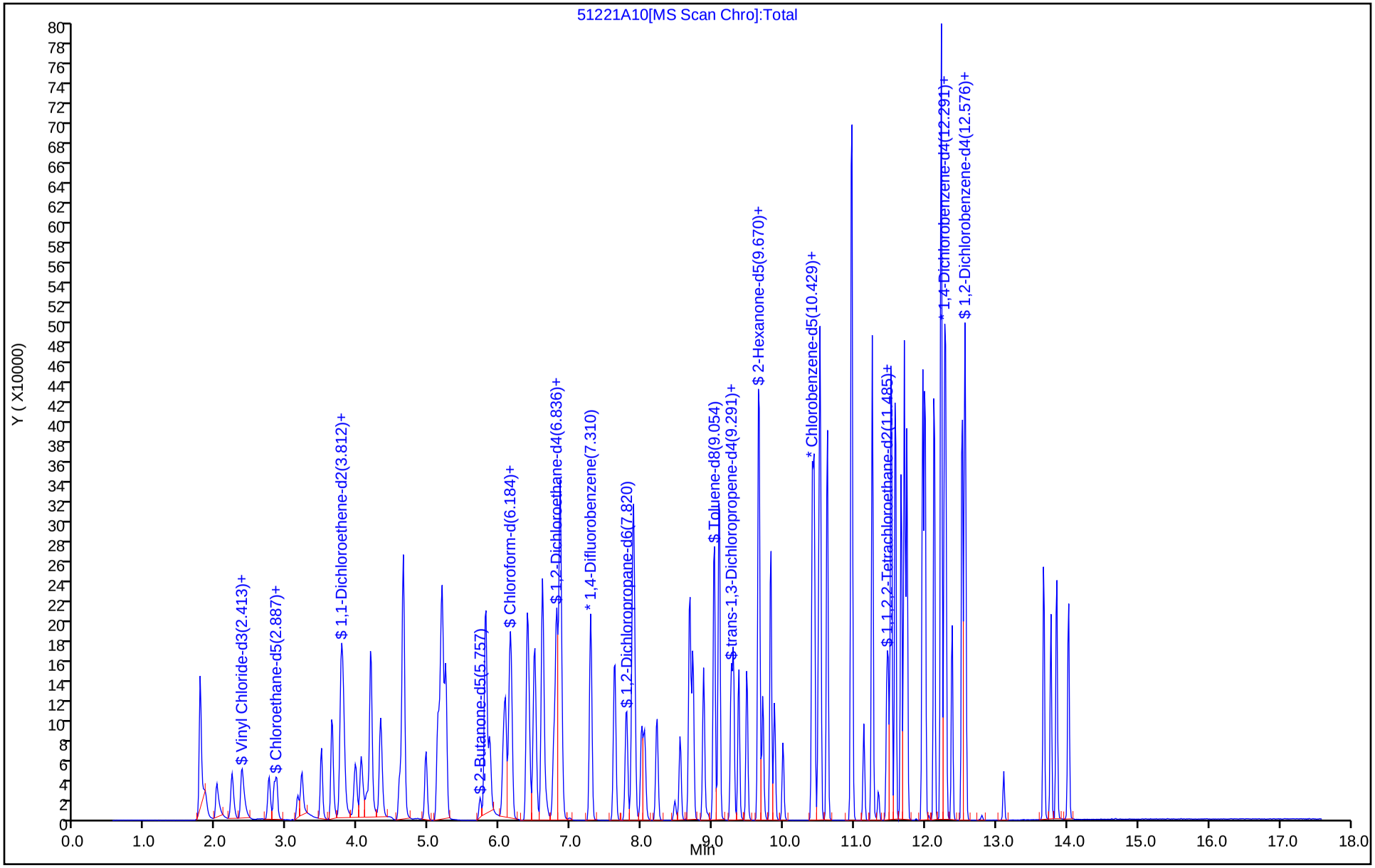
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A10.D				
Injection Date:	21-Dec-2015 13:04:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD050SB	Lab ID:	VSTD050SB		
Sample Info:	5122115b, VSTD050SB				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 21-Dec-2015 17:14:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

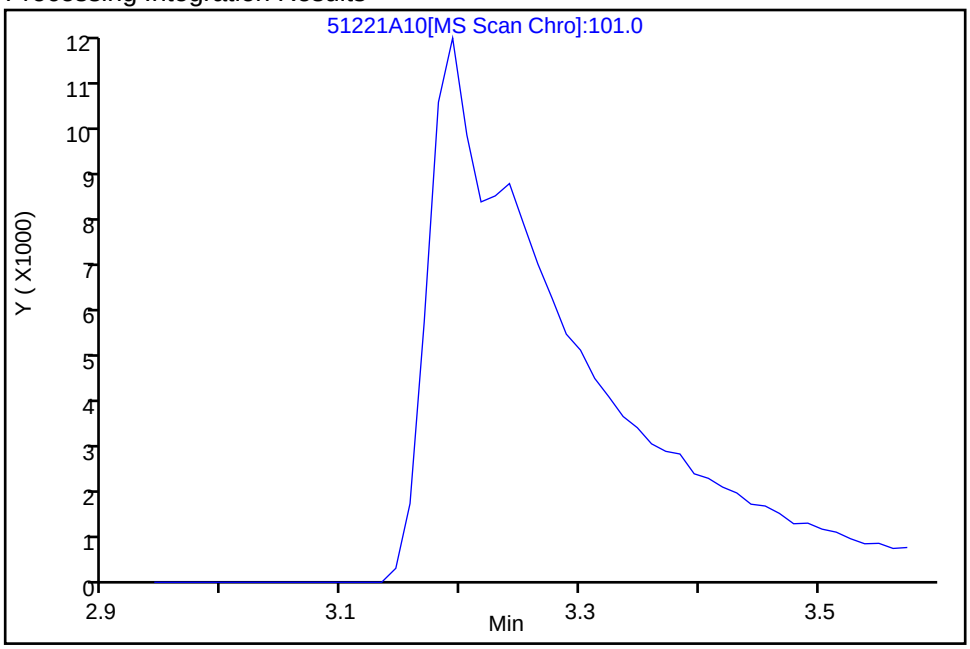
Manual Integration Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A10.D		
Injection Date:	21-Dec-2015 13:04:30	Inst. ID:	msd5.i
Client ID:	VSTD050SB	Lab ID:	VSTD050SB
Sample Info:	5122115b, VSTD050SB		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

8 Trichlorofluoromethane, CAS: 75-69-4

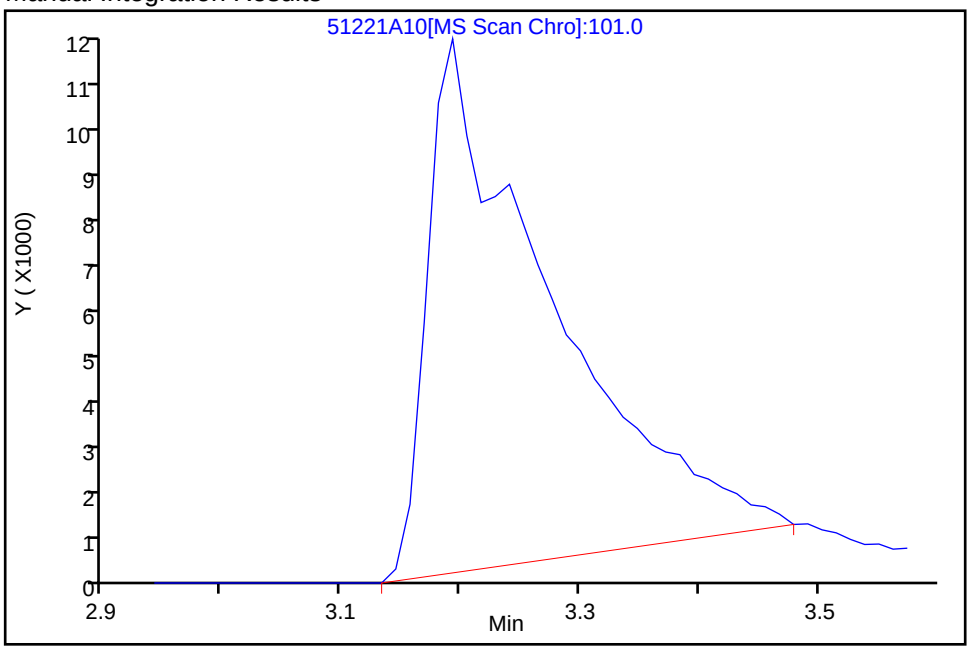
Processing Integration Results

Not Detected
3.196



Manual Integration Results

RT:	3.196
Area:	79484
Amount:	45.703
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 13:27:30
Audit Action: Mint
Audit Reason: IAI

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date: 12/21/2015 Time: 2152

Lab File ID: 51221B20 Init. Calib. Date(s): 12/21/2015 12/21/2015

EPA Sample No.: VSTD050S1 Init. Calib. Time(s): 1504 1633

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Y Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.272	0.254	0.010	-6.9	50.0
Chloromethane	0.329	0.307	0.010	-6.8	50.0
Vinyl chloride	0.253	0.253	0.010	0.2	50.0
Bromomethane	0.165	0.167	0.010	1.5	50.0
Chloroethane	0.163	0.160	0.010	-1.7	50.0
Trichlorofluoromethane	0.304	0.290	0.010	-4.6	50.0
1,1-Dichloroethene	0.212	0.200	0.060	-5.9	25.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.164	0.150	0.050	-8.7	50.0
Acetone	0.096	0.077	0.010	-20.2	50.0
Carbon disulfide	0.668	0.623	0.100	-6.7	25.0
Methyl acetate	0.270	0.235	0.010	-12.7	50.0
Methylene chloride	0.250	0.232	0.010	-6.9	50.0
trans-1,2-Dichloroethene	0.242	0.229	0.100	-5.2	25.0
Methyl tert-butyl ether	0.670	0.664	0.100	-1.0	50.0
1,1-Dichloroethane	0.459	0.450	0.300	-2.0	25.0
cis-1,2-Dichloroethene	0.274	0.266	0.200	-2.7	25.0
2-Butanone	0.152	0.134	0.010	-11.9	50.0
Bromochloromethane	0.137	0.137	0.100	0.3	25.0
Chloroform	0.431	0.422	0.300	-2.1	25.0
1,1,1-Trichloroethane	0.362	0.359	0.050	-0.9	25.0
Cyclohexane	0.464	0.422	0.010	-9.0	50.0
Carbon tetrachloride	0.342	0.330	0.100	-3.5	25.0
Benzene	1.037	1.001	0.200	-3.5	25.0
1,2-Dichloroethane	0.342	0.343	0.070	0.3	25.0
Trichloroethene	0.260	0.251	0.200	-3.5	25.0
Methylcyclohexane	0.439	0.392	0.050	-10.8	50.0
1,2-Dichloropropane	0.281	0.275	0.200	-2.2	25.0
Bromodichloromethane	0.347	0.349	0.300	0.4	25.0
cis-1,3-Dichloropropene	0.449	0.440	0.300	-1.9	25.0
4-Methyl-2-pentanone	0.317	0.298	0.030	-6.0	50.0
Toluene	1.102	1.057	0.300	-4.0	25.0
trans-1,3-Dichloropropene	0.394	0.386	0.200	-2.1	25.0
1,1,2-Trichloroethane	0.230	0.226	0.200	-1.7	25.0
Tetrachloroethene	0.238	0.213	0.100	-10.7	25.0
2-Hexanone	0.241	0.217	0.010	-9.7	50.0
Dibromochloromethane	0.285	0.287	0.200	0.7	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: VOA Level: Low

Instrument ID: Agilent MSD5 Calibration Date: 12/21/2015 Time: 2152

Lab File ID: 51221B20 Init. Calib. Date(s): 12/21/2015 12/21/2015

EPA Sample No.: VSTD050S1 Init. Calib. Time(s): 1504 1633

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Y Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dibromoethane	0.237	0.239	0.200	1.0	25.0
Chlorobenzene	0.753	0.723	0.400	-3.9	25.0
Ethylbenzene	1.228	1.152	0.400	-6.2	25.0
m, p-Xylene	0.496	0.459	0.200	-7.4	25.0
o-Xylene	0.484	0.466	0.200	-3.6	25.0
Styrene	0.842	0.790	0.200	-6.1	25.0
Bromoform	0.369	0.365	0.100	-1.0	50.0
Isopropylbenzene	1.264	1.188	0.400	-6.0	25.0
1,1,2,2-Tetrachloroethane	0.304	0.296	0.200	-2.9	25.0
1,3-Dichlorobenzene	1.208	1.026	0.500	-15.1	25.0
1,4-Dichlorobenzene	1.220	1.019	0.600	-16.5	25.0
1,2-Dichlorobenzene	1.150	1.026	0.600	-10.8	25.0
1,2-Dibromo-3-chloropropane	0.103	0.100	0.010	-3.0	50.0
1,2,4-Trichlorobenzene	0.818	0.612	0.400	-25.2	50.0
1,2,3-Trichlorobenzene	0.749	0.626	0.400	-16.4	50.0
Vinyl Chloride-d3	0.167	0.163	0.010	-2.5	50.0
Chloroethane-d5	0.156	0.150	0.010	-4.2	50.0
1,1-Dichloroethene-d2	0.422	0.394	0.050	-6.6	25.0
2-Butanone-d5	0.141	0.117	0.010	-16.8	50.0
Chloroform-d	0.399	0.386	0.300	-3.2	25.0
1,2-Dichloroethane-d4	0.243	0.253	0.060	4.3	25.0
Benzene-d6	0.881	0.837	0.300	-5.0	25.0
1,2-Dichloropropane-d6	0.269	0.265	0.200	-1.6	25.0
Toluene-d8	0.856	0.813	0.300	-5.1	25.0
trans-1,3-Dichloropropene-d4	0.346	0.331	0.200	-4.1	25.0
2-Hexanone-d5	0.129	0.111	0.010	-13.6	50.0
1,1,2,2-Tetrachloroethane-d2	0.265	0.255	0.200	-3.7	25.0
1,2-Dichlorobenzene-d4	0.651	0.578	0.400	-11.2	25.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B20.D
Lab Sample ID: VSTD050S1 Client Sample ID: VSTD050S1
Injection Date: 21-Dec-2015 21:52:30 Dil. Factor: 1.0
Operator: PAP Inst. ID: msd5.i
Sample Info: 5122115B, VSTD050S1
Method: \\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5e.m
Method Date: 21-Dec-2015 22:17:30 Quant Method: ISTD
Calib Date: 21-Dec-2015 16:33:30 Calib File: 51221B06.D
Sample Type: CCV ALS Bottle: 20
Cpnd Sublist: std.sub
Sample Matrix: Soil Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
1 Dichlorodifluoromethane	0.272239	0.253587	0.01	-6.9	50	93
2 Chloromethane	0.328846	0.306514	0.01	-6.8	50	93
$ 3 Vinyl Chloride-d3	0.167013	0.162767	0.01	-2.5	50	97
4 Vinyl Chloride	0.252527	0.25302	0.01	0.2	50	100
5 Bromomethane	0.164708	0.167187	0.01	1.5	50	102
$ 6 Chloroethane-d5	0.156074	0.149512	0.01	-4.2	50	96
7 Chloroethane	0.163286	0.160489	0.01	-1.7	50	98
8 Trichlorofluoromethane	0.303631	0.289558	0.01	-4.6	50	95
$ 9 1,1-Dichloroethene-d2	0.421873	0.393896	0.05	-6.6	25	93
10 1,1-Dichloroethene	0.21229	0.199861	0.06	-5.9	25	94
11 1,1,2-Trichloro-1,2,2-tr	0.164003	0.14979	0.05	-8.7	50	91
12 Acetone	0.096139	0.07669	0.01	-20.2	50	80
13 Carbon Disulfide	0.668459	0.623439	0.1	-6.7	25	93
14 Methyl Acetate	0.269706	0.23546	0.01	-12.7	50	87
15 Methylene Chloride	0.249573	0.232473	0.01	-6.9	50	93
16 Methyl tert-Butyl Ether	0.670172	0.663552	0.1	-1	50	99
17 trans-1,2-Dichloroethene	0.241551	0.228913	0.1	-5.2	25	95
18 1,1-Dichloroethane	0.459298	0.450209	0.3	-2	25	98
$ 19 2-Butanone-d5	0.141165	0.117433	0.01	-16.8	50	83
20 2-Butanone	0.152222	0.134122	0.01	-11.9	50	88
21 cis-1,2-Dichloroethene	0.273662	0.266244	0.2	-2.7	25	97
22 Bromochloromethane	0.136787	0.137138	0.1	0.3	25	100
$ 23 Chloroform-d	0.398905	0.386131	0.3	-3.2	25	97
24 Chloroform	0.431137	0.421971	0.3	-2.1	25	98
25 1,1,1-Trichloroethane	0.362057	0.358828	0.05	-0.9	25	99
26 Cyclohexane	0.463684	0.421934	0.01	-9	50	91
27 Carbon Tetrachloride	0.341828	0.329719	0.1	-3.5	25	96
$ 28 1,2-Dichloroethane-d4	0.242784	0.253114	0.06	4.3	25	104
$ 29 Benzene-d6	0.881039	0.836811	0.3	-5	25	95
30 Benzene	1.037499	1.000903	0.2	-3.5	25	96
31 1,2-Dichloroethane	0.342368	0.34342	0.07	0.3	25	100
33 Trichloroethene	0.259651	0.250577	0.2	-3.5	25	97
$ 34 1,2-Dichloropropane-d6	0.269145	0.264966	0.2	-1.6	25	98
35 Methylcyclohexane	0.439339	0.391757	0.05	-10.8	50	89
36 1,2-Dichloropropane	0.281304	0.275111	0.2	-2.2	25	98

Report Date: 30-Dec-2015 17:23:38 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B20.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
39 Bromodichloromethane	0.347069	0.348539	0.3	0.4	25	100
$ 40 trans-1,3-Dichloropropen	0.34574	0.331458	0.2	-4.1	25	96
41 cis-1,3-Dichloropropene	0.448555	0.439885	0.3	-1.9	25	98
42 4-Methyl-2-pentanone	0.31687	0.297774	0.03	-6	50	94
$ 43 Toluene-d8	0.856022	0.812568	0.3	-5.1	25	95
44 Toluene	1.101533	1.057233	0.3	-4	25	96
45 trans-1,3-Dichloropropen	0.394024	0.385895	0.2	-2.1	25	98
46 1,1,2-Trichloroethane	0.229631	0.225761	0.2	-1.7	25	98
47 Tetrachloroethene	0.238439	0.213001	0.1	-10.7	25	89
$ 48 2-Hexanone-d5	0.12867	0.111191	0.01	-13.6	50	86
49 2-Hexanone	0.240554	0.217116	0.01	-9.7	50	90
50 Dibromochloromethane	0.285153	0.287007	0.2	0.7	25	101
51 1,2-Dibromoethane	0.23676	0.239039	0.2	1	25	101
53 Chlorobenzene	0.752707	0.723331	0.4	-3.9	25	96
54 Ethylbenzene	1.228369	1.152036	0.4	-6.2	25	94
55 m+p-Xylenes	0.496164	0.459438	0.2	-7.4	25	93
56 o-Xylene	0.483712	0.466479	0.2	-3.6	25	96
57 Styrene	0.842044	0.790483	0.2	-6.1	25	94
58 Bromoform	0.369012	0.365328	0.1	-1	50	99
59 Isopropylbenzene	1.26446	1.188043	0.4	-6	25	94
$ 60 1,1,2,2-Tetrachloroethan	0.265139	0.25525	0.2	-3.7	25	96
61 1,1,2,2-Tetrachloroethan	0.304294	0.295528	0.2	-2.9	25	97
62 1,3-Dichlorobenzene	1.208354	1.0264	0.5	-15.1	25	85
64 1,4-Dichlorobenzene	1.220001	1.018842	0.6	-16.5	25	84
$ 65 1,2-Dichlorobenzene-d4	0.651256	0.578068	0.4	-11.2	25	89
66 1,2-Dichlorobenzene	1.149506	1.025675	0.6	-10.8	25	89
67 1,2-Dibromo-3-chloroprop	0.103439	0.100287	0.01	-3	50	97
68 1,2,4-Trichlorobenzene	0.818038	0.611772	0.4	-25.2	50	75
69 1,2,3-Trichlorobenzene	0.748872	0.626261	0.4	-16.4	50	84

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B20.D		
Lab Sample ID:	VSTD050S1	Client Sample ID:	VSTD050S1
Injection Date:	21-Dec-2015 21:52:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115B, VSTD050S1		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5e.m		
Method Date:	21-Dec-2015 22:17:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	CCV	ALS Bottle:	20
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	29-Dec-2015 13:42:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	2.057	2.057	0.000	48305	50.000	46.574	
2 Chloromethane	50.0	2.259	2.259	0.000	58387	50.000	46.604	
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	31005	50.000	48.729	
4 Vinyl Chloride	62.0	2.413	2.413	0.000	48197	50.000	50.098	
5 Bromomethane	94.0	2.804	2.804	0.000	31847	50.000	50.753	
$ 6 Chloroethane-d5	69.0	2.875	2.875	0.000	28480	50.000	47.898	
7 Chloroethane	64.0	2.911	2.911	0.000	30571	50.000	49.144	
8 Trichlorofluoromethane	101.0	3.207	3.207	0.000	55157	50.000	47.682	
$ 9 1,1-Dichloroethene-d2	63.0	3.800	3.800	0.000	75032	50.000	46.684	
10 1,1-Dichloroethene	96.0	3.824	3.824	0.000	38071	50.000	47.073	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.848	3.848	0.000	28533	50.000	45.667	
12 Acetone	43.0	3.848	3.848	0.000	29217	100.00	79.770	
13 Carbon Disulfide	76.0	4.097	4.097	0.000	118757	50.000	46.633	
14 Methyl Acetate	43.0	4.227	4.227	0.000	44852	50.000	43.651	
15 Methylene Chloride	84.0	4.358	4.358	0.000	44283	50.000	46.574	
16 Methyl tert-Butyl Ether	73.0	4.678	4.678	0.000	126398	50.000	49.506	
17 trans-1,2-Dichloroethene	96.0	4.690	4.690	0.000	43605	50.000	47.384	
18 1,1-Dichloroethane	63.0	5.164	5.164	0.000	85759	50.000	49.011	
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	44739	100.00	83.189	
20 2-Butanone	43.0	5.828	5.828	0.000	51097	100.00	88.110	
21 cis-1,2-Dichloroethene	96.0	5.840	5.840	0.000	50716	50.000	48.645	
22 Bromochloromethane	128.0	6.125	6.125	0.000	26123	50.000	50.128	
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	73553	50.000	48.399	
24 Chloroform	83.0	6.196	6.196	0.000	80380	50.000	48.937	
25 1,1,1-Trichloroethane	97.0	6.445	6.445	0.000	65185	50.000	49.554	
26 Cyclohexane	56.0	6.528	6.528	0.000	76649	50.000	45.498	

Report Date: 30-Dec-2015 17:23:38 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B20.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
27 Carbon Tetrachloride	117.0	6.646	6.646	0.000	59897	50.000	48.229	
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.801	0.000	48215	50.000	52.128	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	152016	50.000	47.490	
30 Benzene	78.0	6.884	6.884	0.000	181825	50.000	48.236	
31 1,2-Dichloroethane	62.0	6.884	6.884	0.000	65417	50.000	50.154	
* 32 1,4-Difluorobenzene	114.0	7.310	7.310	0.000	190487	50.000	50.000	
33 Trichloroethene	95.0	7.654	7.654	0.000	45520	50.000	48.253	
$ 34 1,2-Dichloropropane-d6	67.0	7.820	7.820	0.000	48134	50.000	49.224	
35 Methylcyclohexane	83.0	7.915	7.915	0.000	71167	50.000	44.585	
36 1,2-Dichloropropane	63.0	7.927	7.927	0.000	49977	50.000	48.899	
39 Bromodichloromethane	83.0	8.247	8.247	0.000	63316	50.000	50.212	
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	60213	50.000	47.935	
41 cis-1,3-Dichloropropene	75.0	8.745	8.745	0.000	79910	50.000	49.034	
42 4-Methyl-2-pentanone	43.0	8.900	8.900	0.000	108188	100.00	93.974	
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	147612	50.000	47.462	
44 Toluene	91.0	9.125	9.125	0.000	192058	50.000	47.989	
45 trans-1,3-Dichloropropene	75.0	9.315	9.315	0.000	70102	50.000	48.968	
46 1,1,2-Trichloroethane	97.0	9.504	9.504	0.000	41012	50.000	49.157	
47 Tetrachloroethene	164.0	9.670	9.670	0.000	38694	50.000	44.666	
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	40398	100.00	86.415	
49 2-Hexanone	43.0	9.730	9.730	0.000	78883	100.00	90.257	
50 Dibromochloromethane	129.0	9.896	9.896	0.000	52138	50.000	50.325	
51 1,2-Dibromoethane	107.0	10.014	10.014	0.000	43424	50.000	50.481	
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	181661	50.000	50.000	
53 Chlorobenzene	112.0	10.453	10.453	0.000	131401	50.000	48.049	
54 Ethylbenzene	91.0	10.536	10.536	0.000	209280	50.000	46.893	
55 m+p-Xylenes	106.0	10.643	10.643	0.000	83462	50.000	46.299	
56 o-Xylene	106.0	10.975	10.975	0.000	84741	50.000	48.219	
57 Styrene	104.0	10.987	10.987	0.000	143600	50.000	46.938	
58 Bromoform	173.0	11.153	11.153	0.000	37266	50.000	49.501	
59 Isopropylbenzene	105.0	11.271	11.271	0.000	215821	50.000	46.978	
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	46369	50.000	48.135	
61 1,1,2,2-Tetrachloroethane	83.0	11.497	11.497	0.000	53686	50.000	48.560	
62 1,3-Dichlorobenzene	146.0	12.244	12.244	0.000	104700	50.000	42.471	
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	102007	50.000	50.000	
64 1,4-Dichlorobenzene	146.0	12.303	12.303	0.000	103929	50.000	41.756	
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	58967	50.000	44.381	
66 1,2-Dichlorobenzene	146.0	12.588	12.588	0.000	104626	50.000	44.614	
67 1,2-Dibromo-3-chloropropane	75.0	13.121	13.121	0.000	10230	50.000	48.476	
68 1,2,4-Trichlorobenzene	180.0	13.690	13.690	0.000	62405	50.000	37.393	
69 1,2,3-Trichlorobenzene	180.0	14.034	14.034	0.000	63883	50.000	41.814	

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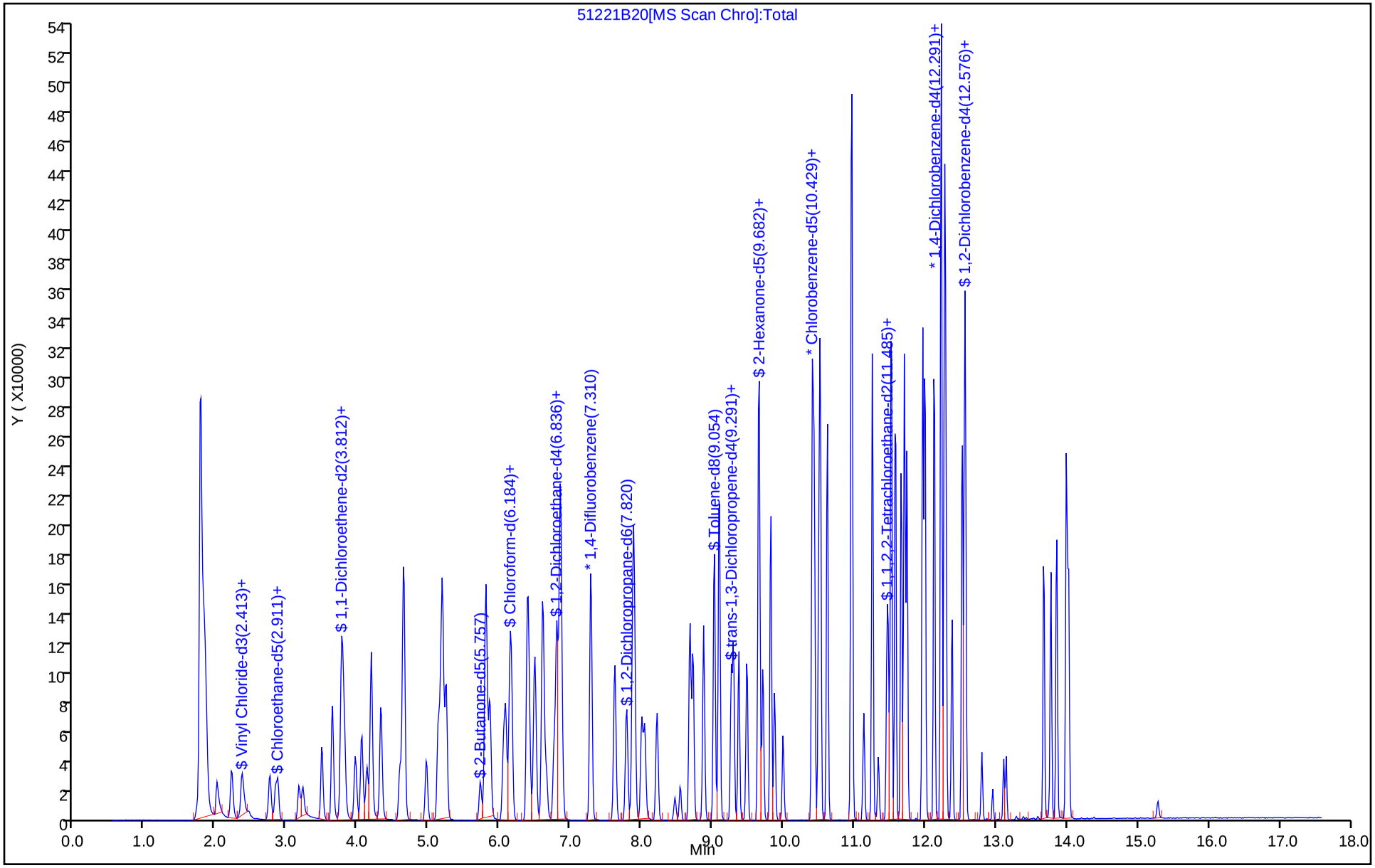
Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B20.D				
Injection Date:	21-Dec-2015 21:52:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VSTD050S1	Lab ID:	VSTD050S1		
Sample Info:	5122115B, VSTD050S1				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



VOLATILE
RAW QC DATA

BFB Data

Blank Data

Matrix Spike / Matrix Spike Duplicate-optional

Laboratory Control Sample Data-optional

BFB Data

BFBs are arranged in chronological order by instrument

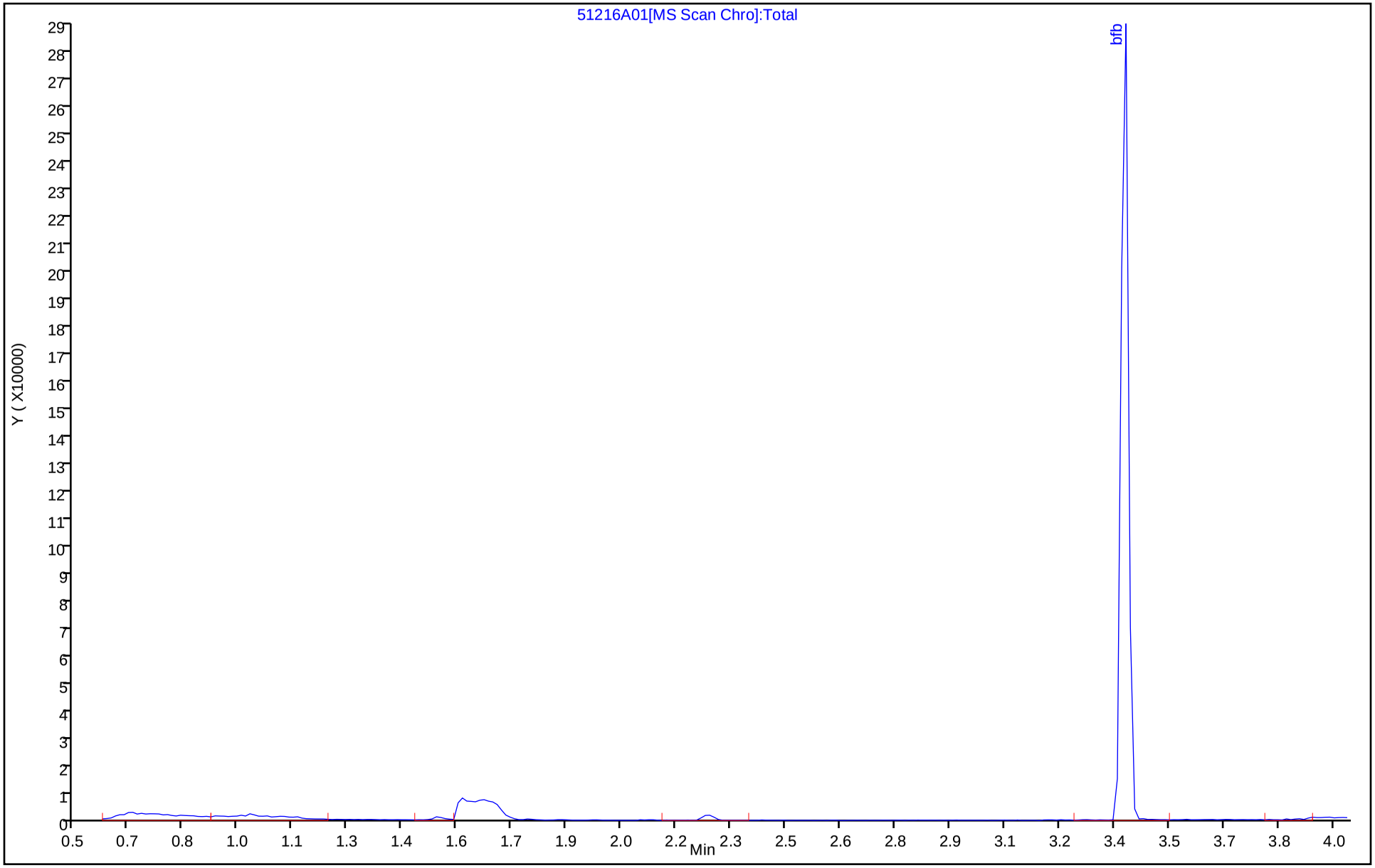
-Reconstructed Total Ion Chromatogram

-Bar Graph Spectrum & Tabulated Relative Abundances

-Mass Listing

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A01.D				
Injection Date:	16-Dec-2015 07:52:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	BFBPE	Lab ID:	BFBPE		
Sample Info:	5121615.b, BFBPE				
Injection Vol.	2.00 uL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



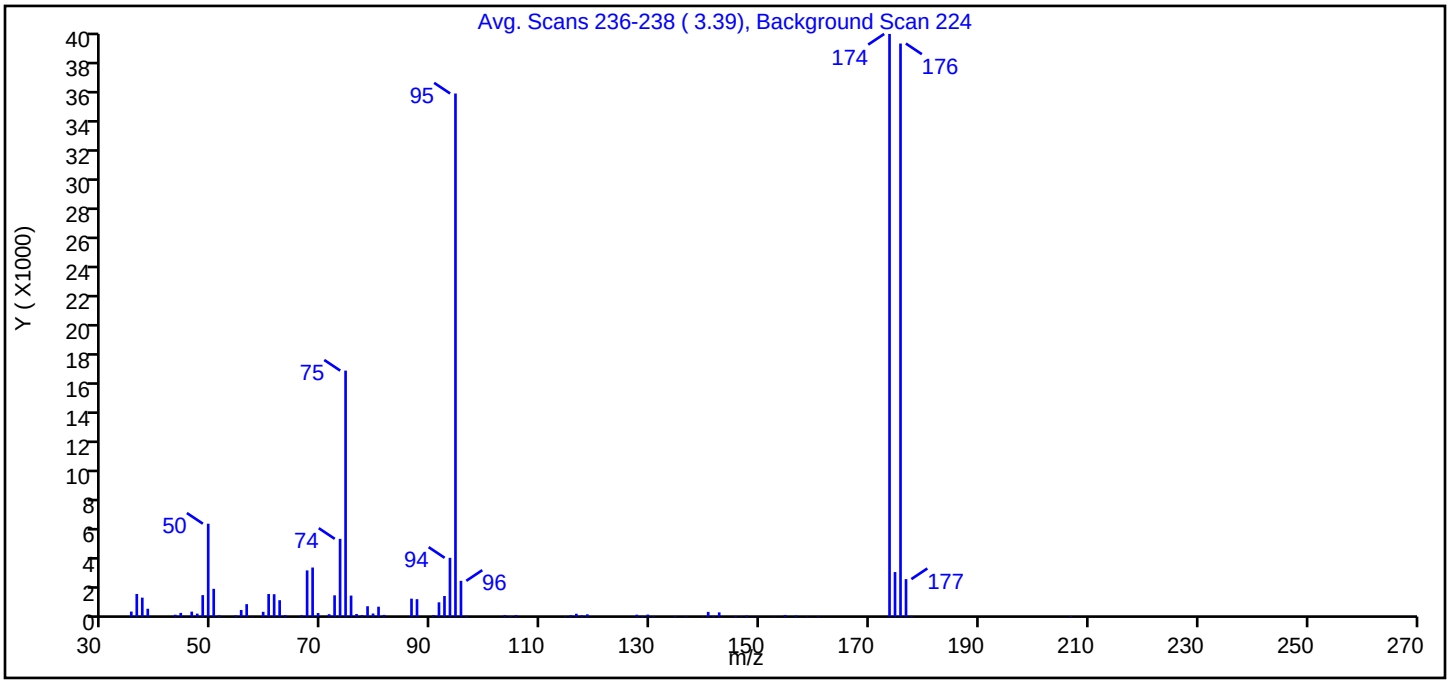
Report Date: 20-Dec-2015 12:53:14 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A01.D		
Injection Date:	16-Dec-2015 07:52:30	Inst. ID:	msd5.i
Client ID:	BFBPE	Lab ID:	BFBPE
Sample Info:	5121615.b, BFBPE		
Injection Vol.	2.00 uL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 bfb



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.0
50	15.00 - 40.00% of mass 95	17.8
75	30.00 - 80.00% of mass 95	47.0
96	5.00 - 9.00% of mass 95	6.8
173	Less than 2.00% of mass 174	0.0 (0.0)
174	50.00 - 120.00% of mass 95	111.4
175	5.00 - 9.00% of mass 174	8.5 (7.6)
176	95.00 - 101.00% of mass 174	109.6 (98.4)
177	5.00 - 9.00% of mass 176	7.2 (6.5)

Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A01.D
Injection Date: 16-Dec-2015 07:52:30
Spectrum: Avg. Scans 236-238 (3.39), Background Scan 224
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	341	63.00	1108	93.00	1390	142.00	47
37.00	1528	64.00	96	94.00	3971	143.00	285
38.00	1281	67.00	92	95.00	35336	146.00	45
39.00	530	68.00	3121	96.00	2417	147.00	22
40.00	4	69.00	3315	97.00	54	148.00	70
44.00	126	70.00	243	104.00	101	149.00	16
45.00	249	72.00	164	105.00	35	150.00	22
46.00	17	73.00	1437	106.00	103	153.00	17
47.00	335	74.00	5253	115.00	26	155.00	110
48.00	202	75.00	16616	116.00	94	157.00	72
49.00	1451	76.00	1421	117.00	192	159.00	22
50.00	6275	77.00	175	118.00	90	161.00	32
51.00	1877	78.00	106	119.00	154	174.00	39360
52.00	85	79.00	699	128.00	128	175.00	3010
55.00	79	80.00	208	129.00	49	176.00	38712
56.00	449	81.00	668	130.00	135	177.00	2532
57.00	842	82.00	114	131.00	28	178.00	52
58.00	19	87.00	1212	135.00	32	207.00	36
60.00	323	88.00	1177	137.00	25	269.00	9
61.00	1526	91.00	100	140.00	20		
62.00	1512	92.00	965	141.00	318		

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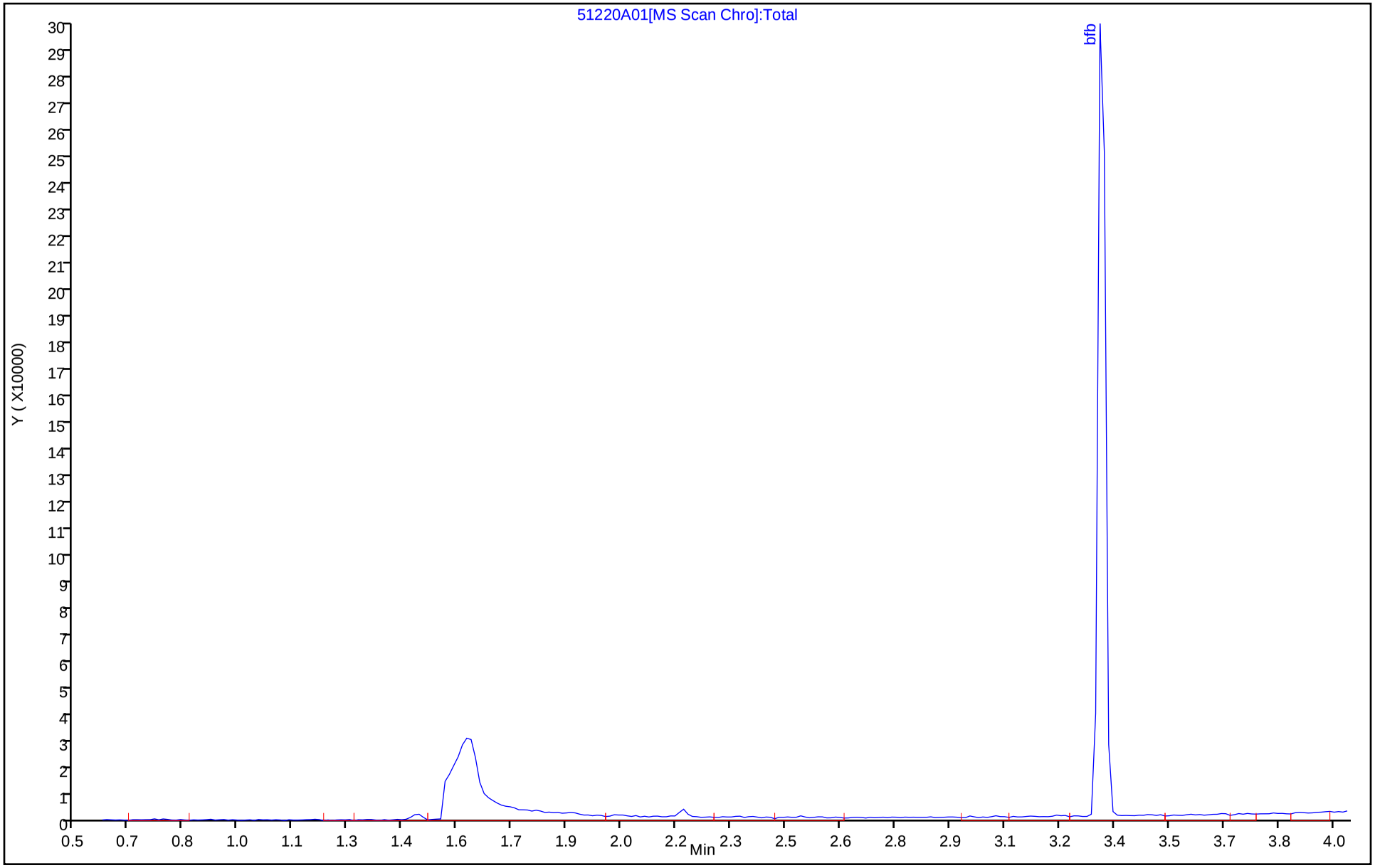
Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A01.D				
Injection Date:	20-Dec-2015 12:36:30	Inst. ID:	msd5.i	Operator:	ALL
Client ID:	BFBQN	Lab ID:	BFBQN		
Sample Info:	5122015b, BFBQN				
Injection Vol.	2.00 uL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



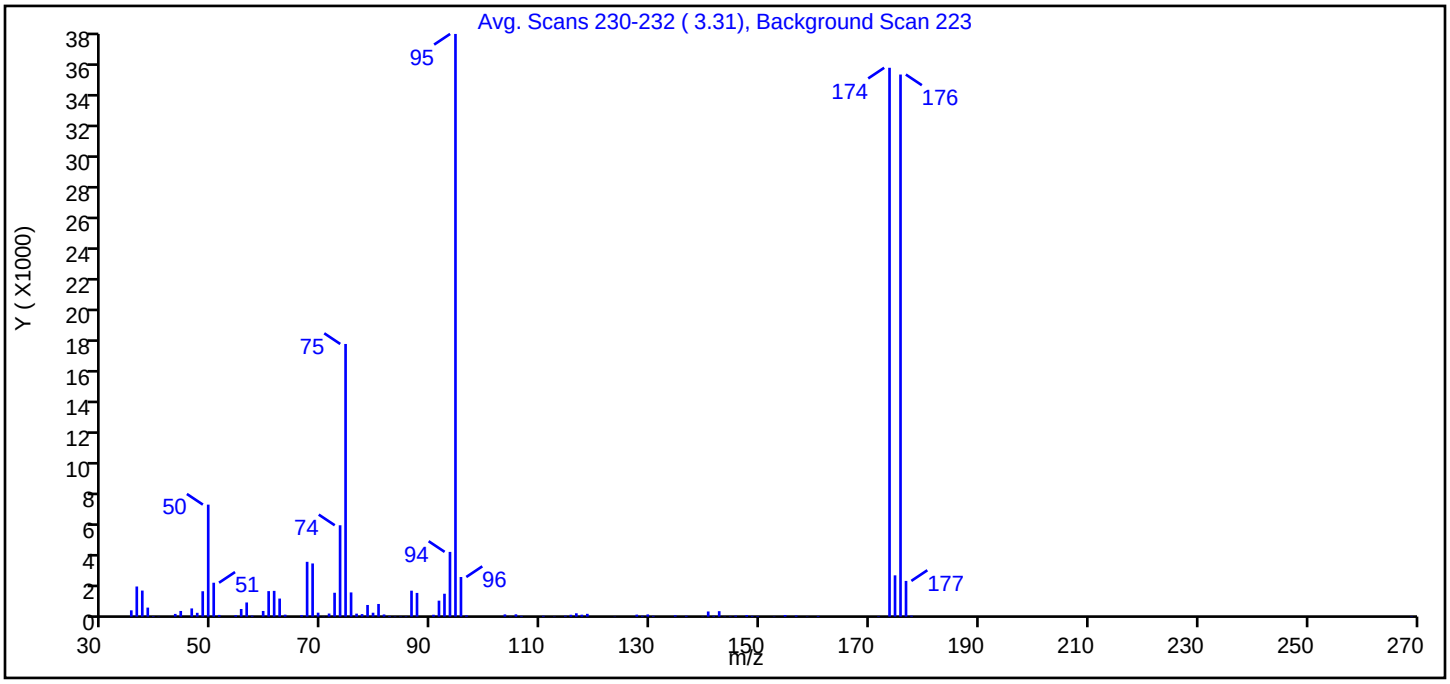
Report Date: 21-Dec-2015 09:10:29 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\DD\chem\msd5.i\5122015b.b\51220A01.D		
Injection Date:	20-Dec-2015 12:36:30	Inst. ID:	msd5.i
Client ID:	BFBQN	Lab ID:	BFBQN
Sample Info:	5122015b, BFBQN		
Injection Vol.	2.00 uL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 bfb



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.0
50	15.00 - 40.00% of mass 95	19.2
75	30.00 - 80.00% of mass 95	46.8
96	5.00 - 9.00% of mass 95	6.8
173	Less than 2.00% of mass 174	0.0 (0.0)
174	50.00 - 120.00% of mass 95	94.2
175	5.00 - 9.00% of mass 174	7.1 (7.5)
176	95.00 - 101.00% of mass 174	93.0 (98.8)
177	5.00 - 9.00% of mass 176	6.1 (6.6)

Data File: \\Organics\DD\chem\msd5.i\5122015b.b\51220A01.D
Injection Date: 20-Dec-2015 12:36:30
Spectrum: Avg. Scans 230-232 (3.31), Background Scan 223
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	408	67.00	99	93.00	1487	141.00	333
37.00	1958	68.00	3562	94.00	4208	142.00	52
38.00	1693	69.00	3456	95.00	37888	143.00	353
39.00	585	70.00	255	96.00	2575	144.00	19
40.00	36	71.00	16	97.00	82	145.00	24
41.00	14	72.00	200	104.00	143	146.00	62
43.00	3	73.00	1551	105.00	17	148.00	98
44.00	176	74.00	5939	106.00	148	149.00	48
45.00	367	75.00	17728	107.00	47	150.00	38
47.00	532	76.00	1572	111.00	53	153.00	20
48.00	247	77.00	193	113.00	22	155.00	104
49.00	1649	78.00	162	115.00	58	157.00	70
50.00	7281	79.00	756	116.00	119	159.00	19
51.00	2203	80.00	252	117.00	217	161.00	41
52.00	109	81.00	822	118.00	125	172.00	30
55.00	92	82.00	140	119.00	181	174.00	35688
56.00	495	83.00	41	124.00	18	175.00	2683
57.00	919	84.00	23	128.00	128	176.00	35248
58.00	62	85.00	23	129.00	55	177.00	2321
60.00	366	86.00	27	130.00	141	178.00	61
61.00	1657	87.00	1686	131.00	50	269.00	22
62.00	1674	88.00	1540	135.00	83		
63.00	1173	91.00	121	137.00	55		
64.00	127	92.00	1037	140.00	20		

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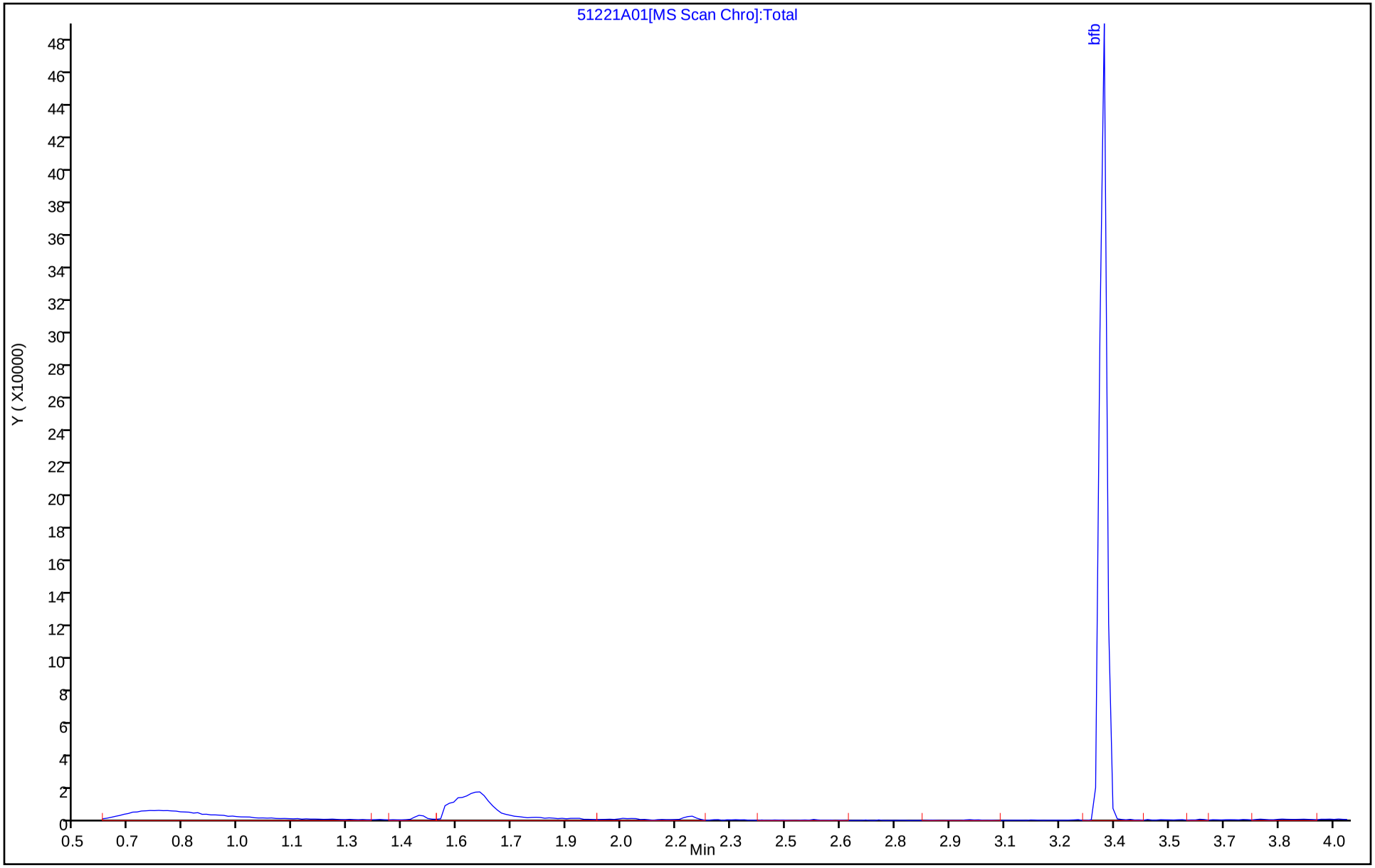
Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A01.D				
Injection Date:	21-Dec-2015 08:47:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	BFBSA	Lab ID:	BFBSA		
Sample Info:	5122115b, BFBSA				
Injection Vol.	2.00 uL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



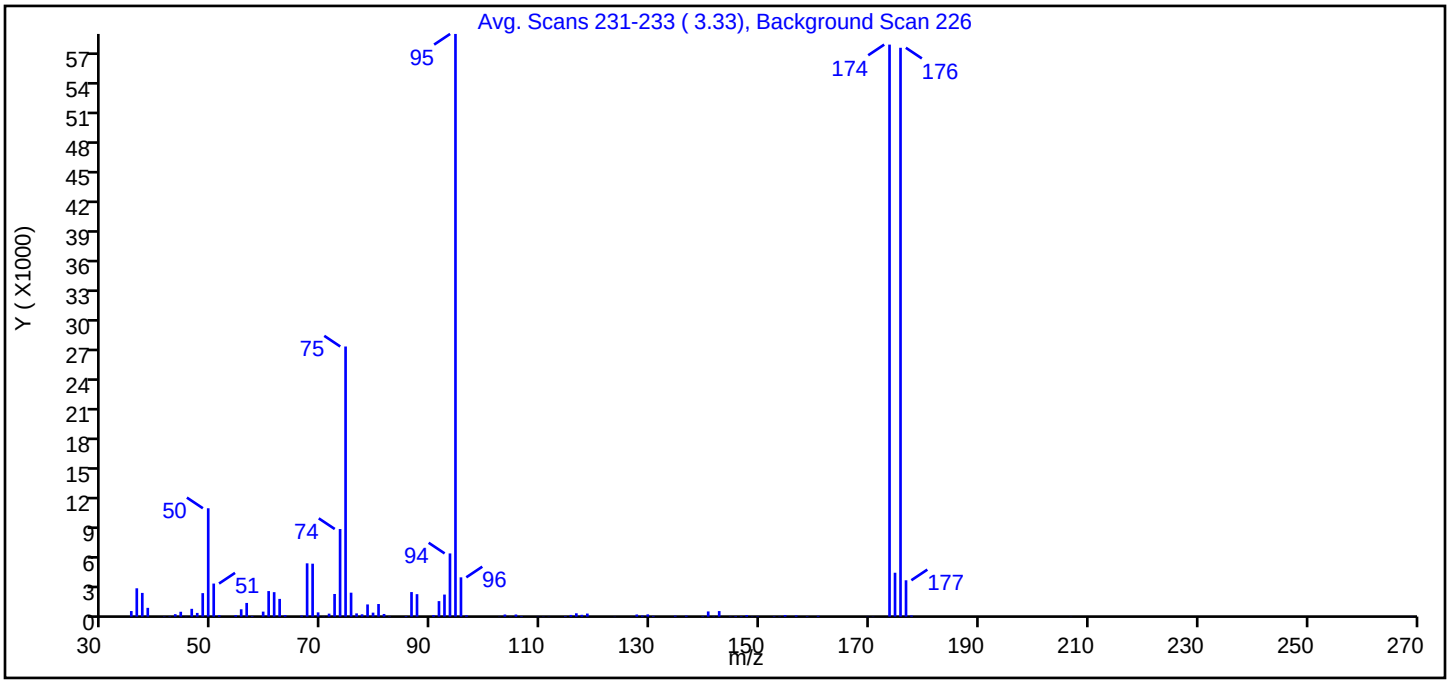
Report Date: 21-Dec-2015 17:14:42 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A01.D		
Injection Date:	21-Dec-2015 08:47:30	Inst. ID:	msd5.i
Client ID:	BFBSA	Lab ID:	BFBSA
Sample Info:	5122115b, BFBSA		
Injection Vol.	2.00 uL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 bfb



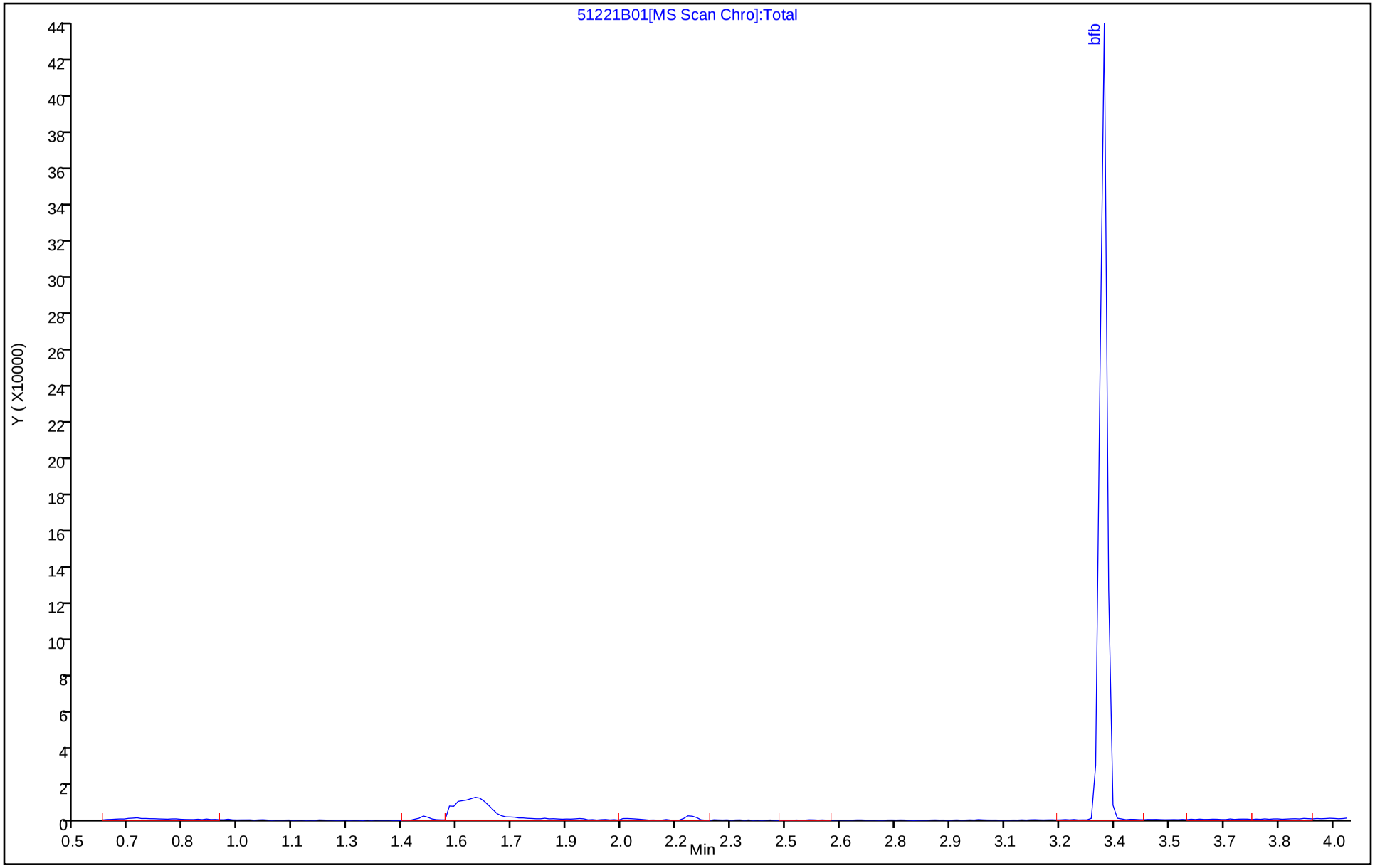
m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.0
50	15.00 - 40.00% of mass 95	18.6
75	30.00 - 80.00% of mass 95	46.4
96	5.00 - 9.00% of mass 95	6.7
173	Less than 2.00% of mass 174	0.0 (0.0)
174	50.00 - 120.00% of mass 95	98.2
175	5.00 - 9.00% of mass 174	7.5 (7.7)
176	95.00 - 101.00% of mass 174	97.6 (99.4)
177	5.00 - 9.00% of mass 176	6.2 (6.4)

Data File: \\Organics\DD\chem\msd5.i\5122115.b\51221A01.D
Injection Date: 21-Dec-2015 08:47:30
Spectrum: Avg. Scans 231-233 (3.33), Background Scan 226
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	562	67.00	107	96.00	3973	142.00	32
37.00	2865	68.00	5390	97.00	133	143.00	559
38.00	2397	69.00	5354	103.00	21	145.00	27
39.00	885	70.00	428	104.00	211	146.00	56
41.00	5	71.00	24	105.00	22	147.00	47
42.00	33	72.00	301	106.00	211	148.00	150
43.00	36	73.00	2289	107.00	57	149.00	26
44.00	246	74.00	8861	110.00	21	150.00	44
45.00	490	75.00	27328	111.00	23	153.00	44
46.00	18	76.00	2420	112.00	18	154.00	26
47.00	787	77.00	326	115.00	61	155.00	155
48.00	373	78.00	232	116.00	168	157.00	117
49.00	2375	79.00	1232	117.00	337	159.00	44
50.00	10962	80.00	400	118.00	182	161.00	76
51.00	3344	81.00	1274	119.00	309	170.00	19
52.00	144	82.00	266	124.00	19	171.00	20
55.00	150	83.00	37	127.00	17	174.00	57872
56.00	741	86.00	61	128.00	212	175.00	4439
57.00	1382	87.00	2483	129.00	106	176.00	57552
58.00	65	88.00	2270	130.00	225	177.00	3676
60.00	504	91.00	154	131.00	71	178.00	116
61.00	2583	92.00	1568	135.00	91	207.00	12
62.00	2473	93.00	2230	137.00	95	269.00	17
63.00	1791	94.00	6392	140.00	51		
64.00	157	95.00	58952	141.00	522		

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B01.D				
Injection Date:	21-Dec-2015 14:42:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	BFBSC	Lab ID:	BFBSC		
Sample Info:	5122115Bb, BFBSC				
Injection Vol.	2.00 uL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



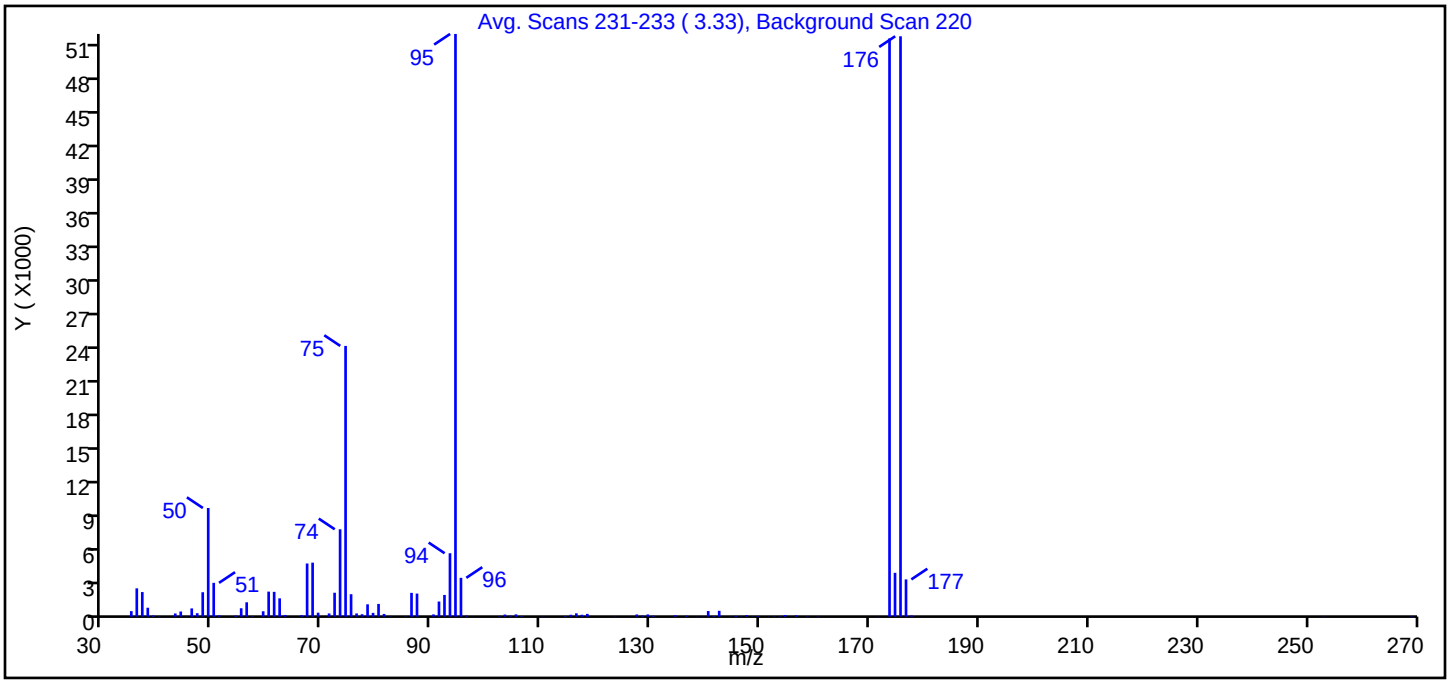
Report Date: 30-Dec-2015 17:23:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B01.D		
Injection Date:	21-Dec-2015 14:42:30	Inst. ID:	msd5.i
Client ID:	BFBSC	Lab ID:	BFBSC
Sample Info:	5122115Bb, BFBSC		
Injection Vol.	2.00 uL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 bfb



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.0
50	15.00 - 40.00% of mass 95	18.6
75	30.00 - 80.00% of mass 95	46.5
96	5.00 - 9.00% of mass 95	6.7
173	Less than 2.00% of mass 174	0.0 (0.0)
174	50.00 - 120.00% of mass 95	99.2
175	5.00 - 9.00% of mass 174	7.5 (7.6)
176	95.00 - 101.00% of mass 174	99.6 (100.4)
177	5.00 - 9.00% of mass 176	6.4 (6.4)

Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B01.D
Injection Date: 21-Dec-2015 14:42:30
Spectrum: Avg. Scans 231-233 (3.33), Background Scan 220
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	487	67.00	120	96.00	3448	143.00	515
37.00	2513	68.00	4722	97.00	89	145.00	21
38.00	2182	69.00	4797	103.00	35	146.00	64
39.00	789	70.00	348	104.00	183	147.00	26
40.00	96	72.00	280	105.00	82	148.00	132
41.00	30	73.00	2123	106.00	199	149.00	28
44.00	278	74.00	7765	107.00	50	150.00	52
45.00	454	75.00	24072	111.00	21	152.00	17
46.00	21	76.00	1991	115.00	49	153.00	26
47.00	729	77.00	281	116.00	164	154.00	32
48.00	303	78.00	212	117.00	291	155.00	137
49.00	2167	79.00	1093	118.00	164	157.00	116
50.00	9658	80.00	331	119.00	243	159.00	35
51.00	3002	81.00	1128	124.00	20	161.00	33
52.00	102	82.00	235	128.00	191	172.00	19
55.00	83	83.00	21	129.00	89	174.00	51416
56.00	742	86.00	23	130.00	193	175.00	3893
57.00	1272	87.00	2112	131.00	72	176.00	51608
58.00	42	88.00	2048	135.00	110	177.00	3308
60.00	475	91.00	194	137.00	80	178.00	99
61.00	2222	92.00	1342	139.00	17	253.00	19
62.00	2201	93.00	1926	140.00	19	269.00	34
63.00	1624	94.00	5635	141.00	494		
64.00	145	95.00	51816	142.00	52		

Blank Data

Blanks are arranged by type of blank
(Method, Storage, Instrument)

Listed in Chronological Order by instrument.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKPE

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-001
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A10
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKPE

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-001
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A10
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
179601-23-1	m, p-Xylene	250	U
95-47-6	o-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKPE

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-001
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A10
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/16/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	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[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A10.D		
Lab Sample ID:	VBLKPE	Client Sample ID:	VBLKPE
Injection Date:	16-Dec-2015 11:09:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VBLKPE		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	BLANK	ALS Bottle:	10
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 12:24:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.105		ND			
2 Chloromethane	50.0		2.330		ND			
$ 3 Vinyl Chloride-d3	65.0	2.460	2.460	0.000	100816	49.474	2473.72	R
4 Vinyl Chloride	62.0		2.472		ND			
5 Bromomethane	94.0		2.852		ND			
$ 6 Chloroethane-d5	69.0	2.935	2.935	0.000	47956	51.756	2587.82	R
7 Chloroethane	64.0		2.970		ND			
8 Trichlorofluoromethane	101.0		3.267		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.883	3.883	0.000	110237	38.883	1944.15	R
10 1,1-Dichloroethene	96.0		3.907		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.931		ND			
12 Acetone	43.0		3.943		ND			
13 Carbon Disulfide	76.0		4.180		ND			
14 Methyl Acetate	43.0		4.322		ND			
15 Methylene Chloride	84.0		4.453		ND			
16 Methyl tert-Butyl Ether	73.0		4.773		ND			
17 trans-1,2-Dichloroethene	96.0		4.785		ND			
18 1,1-Dichloroethane	63.0		5.271		ND			
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	28099	68.956	3447.80	QR
20 2-Butanone	43.0		5.935		ND			
21 cis-1,2-Dichloroethene	96.0		5.935		ND			
22 Bromochloromethane	128.0		6.220		ND			
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	111257	38.800	1940.01	QR
24 Chloroform	83.0		6.303		ND			
25 1,1,1-Trichloroethane	97.0		6.552		ND			

Report Date: 20-Dec-2015 12:53:18 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A10.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0		6.635		ND			
27 Carbon Tetrachloride	117.0		6.753		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	74611	43.158	2157.90	R
$ 29 Benzene-d6	84.0	6.943	6.943	0.000	239324	55.402	2770.10	R
30 Benzene	78.0		6.990		ND			
31 1,2-Dichloroethane	62.0		6.990		ND			
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	258475	50.000	2500.00	
33 Trichloroethene	95.0		7.761		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	63493	57.730	2886.48	R
35 Methylcyclohexane	83.0		8.022		ND			
36 1,2-Dichloropropane	63.0		8.034		ND			
39 Bromodichloromethane	83.0		8.354		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	74466	48.698	2434.89	R
41 cis-1,3-Dichloropropene	75.0		8.852		ND			
42 4-Methyl-2-pentanone	43.0		8.994		ND			
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	210172	51.665	2583.23	QR
44 Toluene	91.0		9.208		ND			
45 trans-1,3-Dichloropropene	75.0		9.409		ND			
46 1,1,2-Trichloroethane	97.0		9.599		ND			
47 Tetrachloroethene	164.0		9.765		ND			
$ 48 2-Hexanone-d5	63.0	9.777	9.777	0.000	33250	85.036	4251.79	QR
49 2-Hexanone	43.0		9.825		ND			
50 Dibromochloromethane	129.0		9.979		ND			
51 1,2-Dibromoethane	107.0		10.109		ND			
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	173333	50.000	2500.00	
53 Chlorobenzene	112.0		10.536		ND			
54 Ethylbenzene	91.0		10.619		ND			
55 m+p-Xylenes	106.0		10.726		ND			
56 o-Xylene	106.0		11.058		ND			
57 Styrene	104.0		11.070		ND			
58 Bromoform	173.0		11.236		ND			
59 Isopropylbenzene	105.0		11.354		ND			
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	51765	51.497	2574.85	R
61 1,1,2,2-Tetrachloroethane	83.0		11.580		ND			
62 1,3-Dichlorobenzene	146.0		12.327		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	110797	50.000	2500.00	
64 1,4-Dichlorobenzene	146.0		12.386		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	93950	50.247	2512.33	R
66 1,2-Dichlorobenzene	146.0		12.659		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.192		ND			
68 1,2,4-Trichlorobenzene	180.0		13.762		ND			
69 1,2,3-Trichlorobenzene	180.0		14.117		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A10.D		
Lab Sample ID:	VBLKPE	Client Sample ID:	VBLKPE
Injection Date:	16-Dec-2015 11:09:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VBLKPE		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	BLANK	ALS Bottle:	10
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	20-Dec-2015 12:24:30

Tentative Identified Compound Results

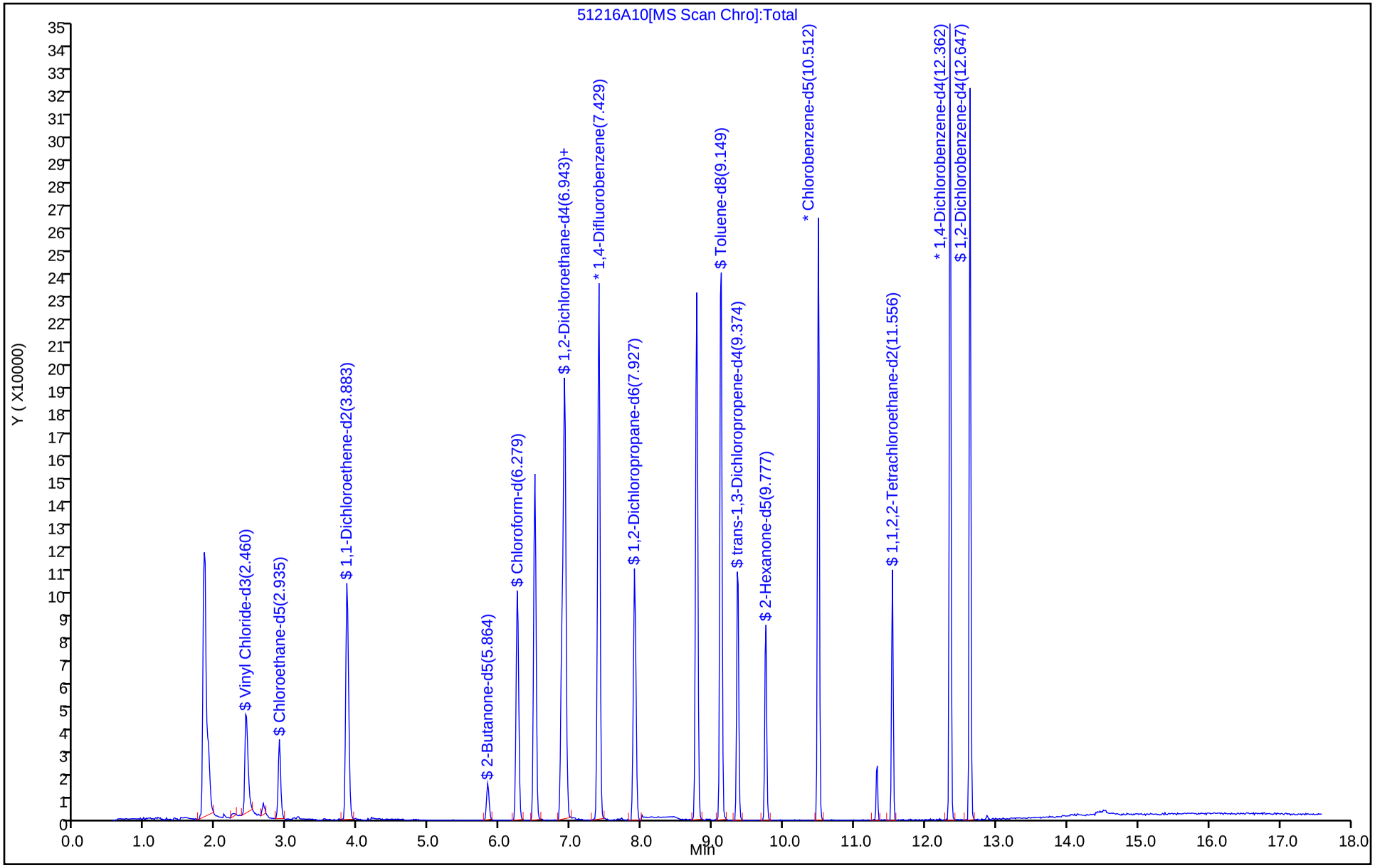
RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 20-Dec-2015 12:53:18 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A10.D				
Injection Date:	16-Dec-2015 11:09:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VBLKPE	Lab ID:	VBLKPE		
Sample Info:	5121615.b, VBLKPE				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKSA

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92730-001
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221A05A
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKSA

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92730-001
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221A05A
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
179601-23-1	m, p-Xylene	250	U
95-47-6	o-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKSA

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92730-001
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221A05A
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.26	680	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
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13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A05A.D		
Lab Sample ID:	VBLKSA	Client Sample ID:	VBLKSA
Injection Date:	21-Dec-2015 10:22:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VBLKSA		
Method:	\\Organics\DD\chem\msd5.i\5122115.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 10:25:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	BLANK	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 17:08:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.057		ND			
2 Chloromethane	50.0		2.271		ND			
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	57343	58.055	2902.74	R
4 Vinyl Chloride	62.0		2.413		ND			
5 Bromomethane	94.0		2.781		ND			
$ 6 Chloroethane-d5	69.0	2.852	2.852	0.000	45287	56.735	2836.75	R
7 Chloroethane	64.0		2.887		ND			
8 Trichlorofluoromethane	101.0		3.184		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.789	3.801	-0.012	98245	43.221	2161.07	R
10 1,1-Dichloroethene	96.0		3.812		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.836		ND			
12 Acetone	43.0		3.848		ND			
13 Carbon Disulfide	76.0		4.085		ND			
14 Methyl Acetate	43.0		4.216		ND			
15 Methylene Chloride	84.0		4.358		ND			
16 Methyl tert-Butyl Ether	73.0		4.666		ND			
17 trans-1,2-Dichloroethene	96.0		4.678		ND			
18 1,1-Dichloroethane	63.0		5.152		ND			
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	36654	79.403	3970.16	R
20 2-Butanone	43.0		5.828		ND			
21 cis-1,2-Dichloroethene	96.0		5.828		ND			
22 Bromochloromethane	128.0		6.113		ND			
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	114857	52.672	2633.58	QR
24 Chloroform	83.0		6.196		ND			
25 1,1,1-Trichloroethane	97.0		6.433		ND			

Report Date: 21-Dec-2015 17:14:45 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115.b\51221A05A.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0		6.516		ND			
27 Carbon Tetrachloride	117.0		6.635		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.789	6.789	0.000	70606	52.886	2644.30	R
$ 29 Benzene-d6	84.0	6.836	6.824	0.012	258665	56.075	2803.77	R
30 Benzene	78.0		6.872		ND			
31 1,2-Dichloroethane	62.0		6.884		ND			
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	0.000	219603	50.000	2500.00	
33 Trichloroethene	95.0		7.643		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.809	7.809	0.000	74972	53.500	2675.01	R
35 Methylcyclohexane	83.0		7.904		ND			
36 1,2-Dichloropropane	63.0		7.915		ND			
39 Bromodichloromethane	83.0		8.236		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	91825	53.420	2670.98	R
41 cis-1,3-Dichloropropene	75.0		8.746		ND			
42 4-Methyl-2-pentanone	43.0		8.900		ND			
$ 43 Toluene-d8	98.0	9.054	9.042	0.012	240320	54.508	2725.40	R
44 Toluene	91.0		9.113		ND			
45 trans-1,3-Dichloropropene	75.0		9.315		ND			
46 1,1,2-Trichloroethane	97.0		9.504		ND			
47 Tetrachloroethene	164.0		9.671		ND			
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	42833	82.709	4135.45	QR
49 2-Hexanone	43.0		9.730		ND			
50 Dibromochloromethane	129.0		9.896		ND			
51 1,2-Dibromoethane	107.0		10.014		ND			
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	193342	50.000	2500.00	
53 Chlorobenzene	112.0		10.453		ND			
54 Ethylbenzene	91.0		10.536		ND			
55 m+p-Xylenes	106.0		10.643		ND			
56 o-Xylene	106.0		10.975		ND			
57 Styrene	104.0		10.987		ND			
58 Bromoform	173.0		11.153		ND			
59 Isopropylbenzene	105.0		11.271		ND			
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	61759	49.955	2497.74	R
61 1,1,2,2-Tetrachloroethane	83.0		11.497		ND			
62 1,3-Dichlorobenzene	146.0		12.244		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	99832	50.000	2500.00	
64 1,4-Dichlorobenzene	146.0		12.303		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	87192	52.895	2644.77	R
66 1,2-Dichlorobenzene	146.0		12.588		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.121		ND			
68 1,2,4-Trichlorobenzene	180.0		13.679		ND			
69 1,2,3-Trichlorobenzene	180.0		14.034		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A05A.D		
Lab Sample ID:	VBLKSA	Client Sample ID:	VBLKSA
Injection Date:	21-Dec-2015 10:22:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VBLKSA		
Method:	\\Organics\DD\chem\msd5.i\5122115.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 10:25:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	BLANK	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 17:08:30

Tentative Identified Compound Results

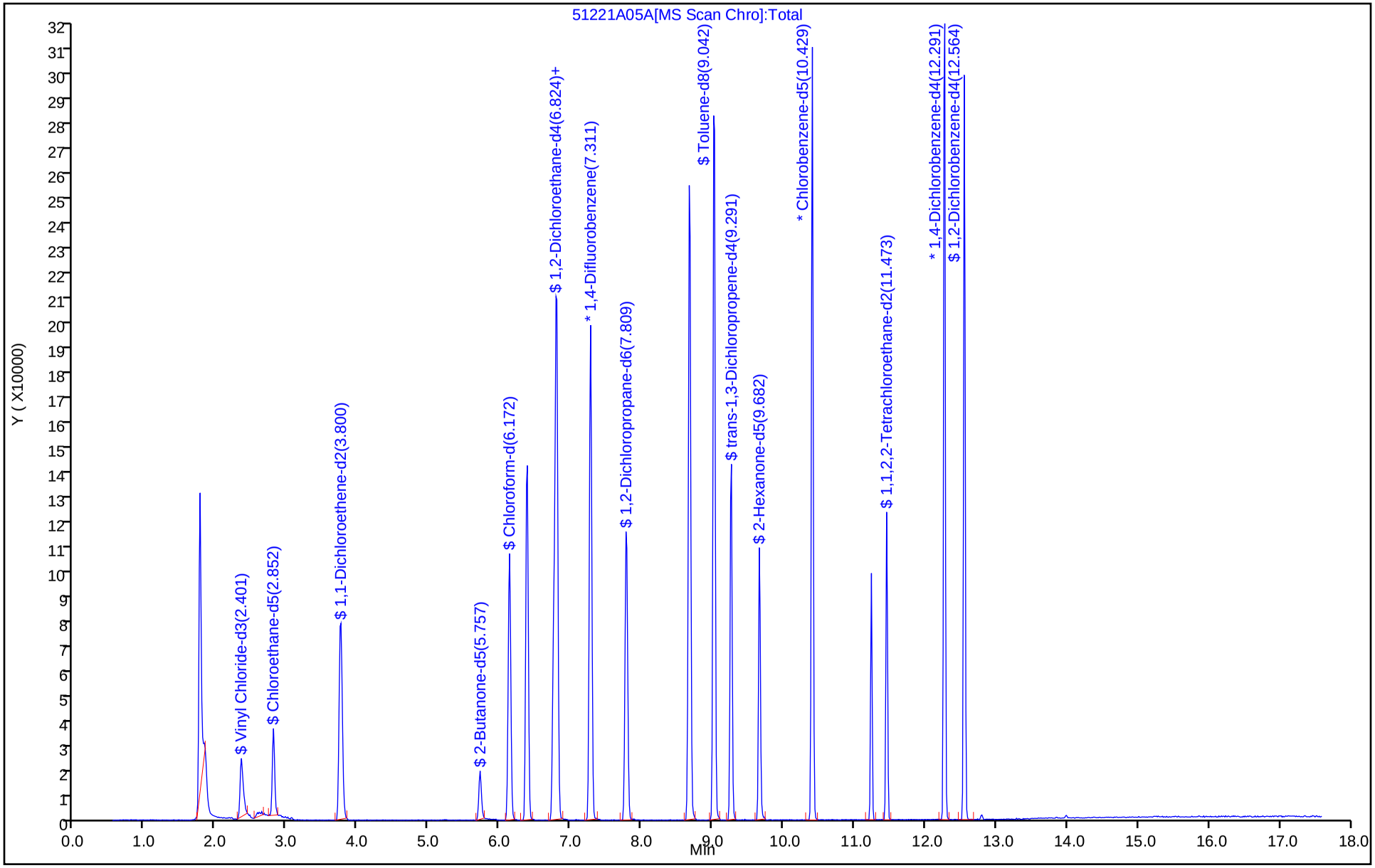
RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
11.259	147477	13.570	678.52	52				

Quant. Compounds	RT	Response	Amount ug/L
* 52 Chlorobenzene-d5	10.429	543378	50.000

Report Date: 21-Dec-2015 17:14:45 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A05A.D				
Injection Date:	21-Dec-2015 10:22:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VBLKSA	Lab ID:	VBLKSA		
Sample Info:	5122115b, VBLKSA				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



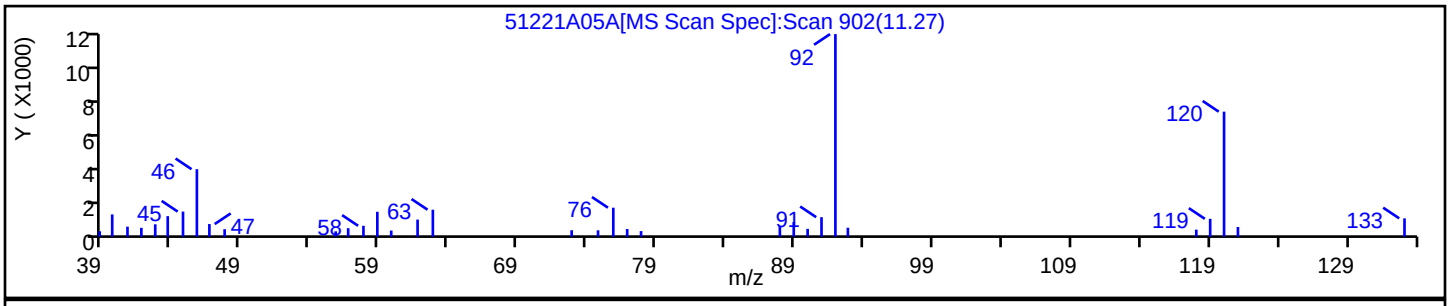
Report Date: 21-Dec-2015 17:14:45 AIM Revision: 1.0 26-May-2015 13:41:26

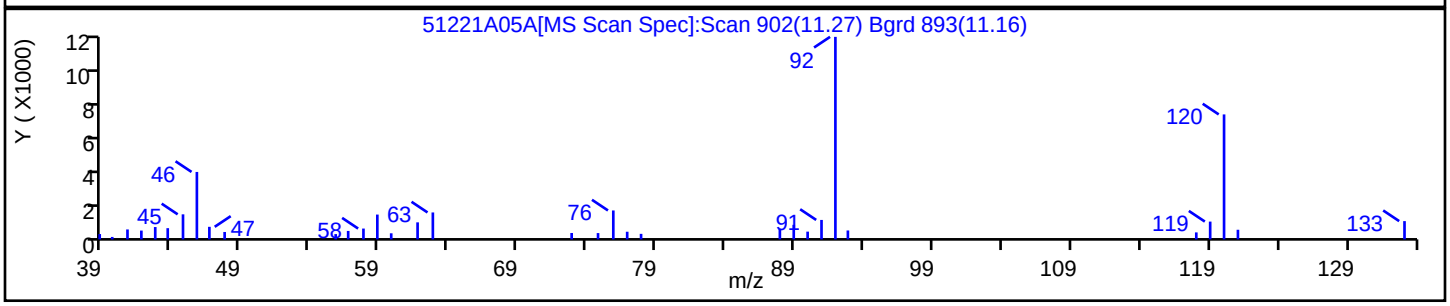
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A05A.D		
Injection Date:	21-Dec-2015 10:22:30	Inst. ID:	msd5.i
Client ID:	VBLKSA	Lab ID:	VBLKSA
Sample Info:	5122115b, VBLKSA		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.259

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKSC

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92741-001
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221B08
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: PT
Heated Purge: (Y/N) Y
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKSC

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92741-001
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221B08
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: PT
Heated Purge: (Y/N) Y
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
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
179601-23-1	m, p-Xylene	5.0	U
95-47-6	o-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

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKSC

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92741-001
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221B08
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) Y
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	12.81	5.6	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B08.D		
Lab Sample ID:	VBLKSC	Client Sample ID:	VBLKSC
Injection Date:	21-Dec-2015 17:18:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VBLKSC		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5.m		
Method Date:	21-Dec-2015 16:58:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	BLANK	ALS Bottle:	8
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	22-Dec-2015 10:23:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.057		ND			
2 Chloromethane	50.0		2.271		ND			
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	37048	59.725	59.725	
4 Vinyl Chloride	62.0		2.413		ND			
5 Bromomethane	94.0		2.804		ND			
$ 6 Chloroethane-d5	69.0	2.887	2.887	0.000	33694	58.125	58.125	
7 Chloroethane	64.0		2.911		ND			
8 Trichlorofluoromethane	101.0		3.208		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.800	3.801	-0.001	68832	43.929	43.929	
10 1,1-Dichloroethene	96.0		3.824		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.848		ND			
12 Acetone	43.0		3.848		ND			
13 Carbon Disulfide	76.0		4.097		ND			
14 Methyl Acetate	43.0		4.227		ND			
15 Methylene Chloride	84.0		4.358		ND			
16 Methyl tert-Butyl Ether	73.0		4.678		ND			
17 trans-1,2-Dichloroethene	96.0		4.690		ND			
18 1,1-Dichloroethane	63.0		5.164		ND			
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	53784	102.58	102.58	
20 2-Butanone	43.0		5.828		ND			
21 cis-1,2-Dichloroethene	96.0		5.840		ND			
22 Bromochloromethane	128.0		6.125		ND			
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	80791	54.530	54.530	Q
24 Chloroform	83.0		6.196		ND			
25 1,1,1-Trichloroethane	97.0		6.445		ND			
26 Cyclohexane	56.0		6.528		ND			

Report Date: 30-Dec-2015 17:23:28 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B08.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
27 Carbon Tetrachloride	117.0		6.647		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.801	0.000	49733	55.152	55.152	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	180001	57.591	57.591	
30 Benzene	78.0		6.884		ND			
31 1,2-Dichloroethane	62.0		6.884		ND			
* 32 1,4-Difluorobenzene	114.0	7.322	7.311	0.011	185708	50.000	50.000	
33 Trichloroethene	95.0		7.655		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.820	7.821	-0.001	53763	56.308	56.308	
35 Methylcyclohexane	83.0		7.904		ND			
36 1,2-Dichloropropane	63.0		7.927		ND			
39 Bromodichloromethane	83.0		8.248		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	67639	55.147	55.147	
41 cis-1,3-Dichloropropene	75.0		8.746		ND			
42 4-Methyl-2-pentanone	43.0		8.900		ND			
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	171394	56.440	56.440	
44 Toluene	91.0		9.125		ND			
45 trans-1,3-Dichloropropene	75.0		9.315		ND			
46 1,1,2-Trichloroethane	97.0		9.505		ND			
47 Tetrachloroethene	164.0		9.671		ND			
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	39089	85.635	85.635	Q
49 2-Hexanone	43.0		9.730		ND			
50 Dibromochloromethane	129.0		9.896		ND			
51 1,2-Dibromoethane	107.0		10.014		ND			
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	177377	50.000	50.000	
53 Chlorobenzene	112.0		10.453		ND			
54 Ethylbenzene	91.0		10.536		ND			
55 m+p-Xylenes	106.0		10.643		ND			
56 o-Xylene	106.0		10.975		ND			
57 Styrene	104.0		10.987		ND			
58 Bromoform	173.0		11.153		ND			
59 Isopropylbenzene	105.0		11.271		ND			
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	48873	51.960	51.960	
61 1,1,2,2-Tetrachloroethane	83.0		11.497		ND			
62 1,3-Dichlorobenzene	146.0		12.244		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	95650	50.000	50.000	Q
64 1,4-Dichlorobenzene	146.0		12.303		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	65528	52.597	52.597	
66 1,2-Dichlorobenzene	146.0		12.588		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.121		ND			
68 1,2,4-Trichlorobenzene	180.0		13.691		ND			
69 1,2,3-Trichlorobenzene	180.0		14.034		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B08.D		
Lab Sample ID:	VBLKSC	Client Sample ID:	VBLKSC
Injection Date:	21-Dec-2015 17:18:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VBLKSC		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5.m		
Method Date:	21-Dec-2015 16:58:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	BLANK	ALS Bottle:	8
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	22-Dec-2015 10:23:30

Tentative Identified Compound Results

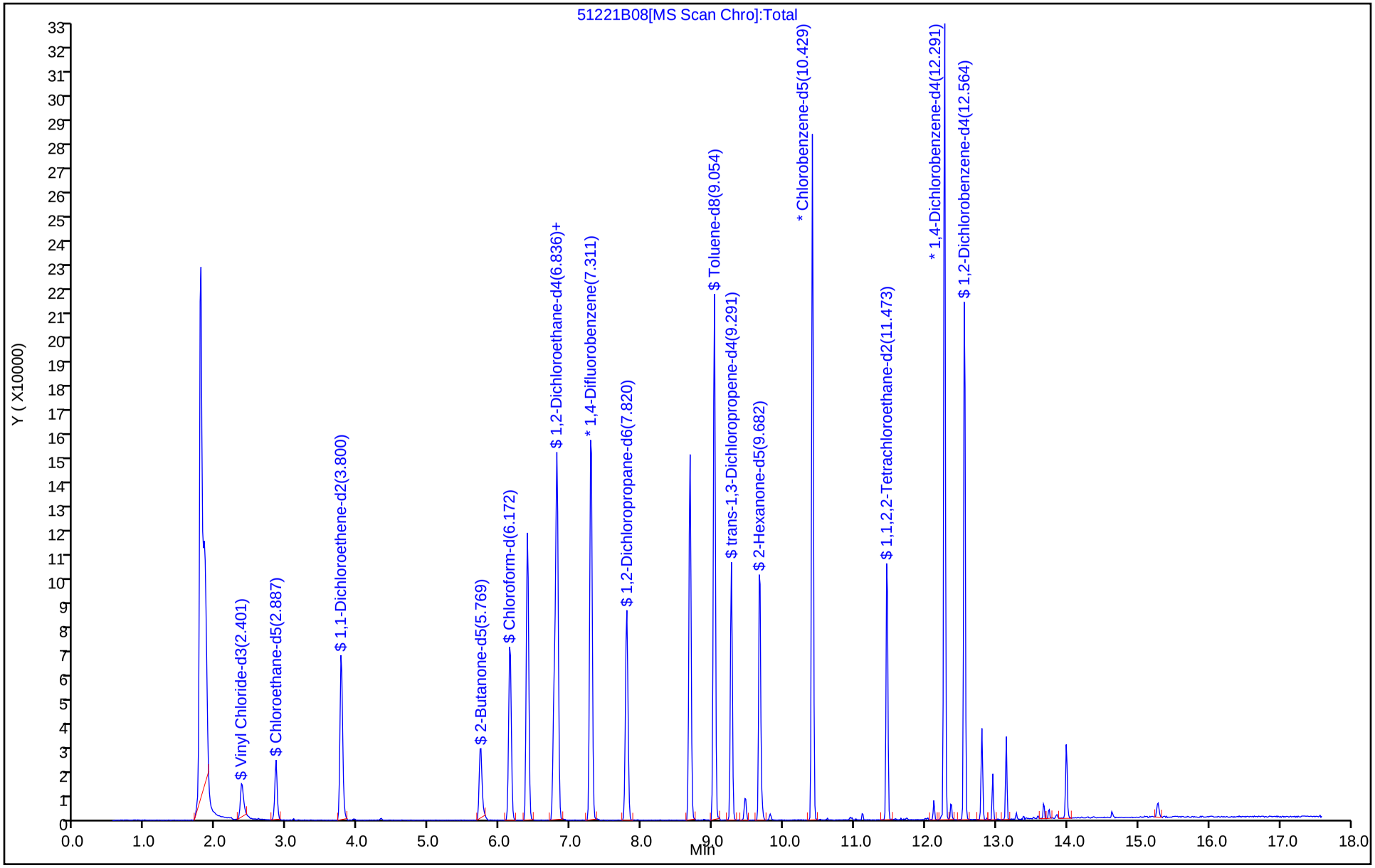
RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
12.813	60296	5.6308	5.6308	63				

Quant. Compounds	RT	Response	Amount ug/L
* 63 1,4-Dichlorobenzene-d4	12.291	535420	50.000

Report Date: 30-Dec-2015 17:23:28 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B08.D				
Injection Date:	21-Dec-2015 17:18:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VBLKSC	Lab ID:	VBLKSC		
Sample Info:	5122115b, VBLKSC				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



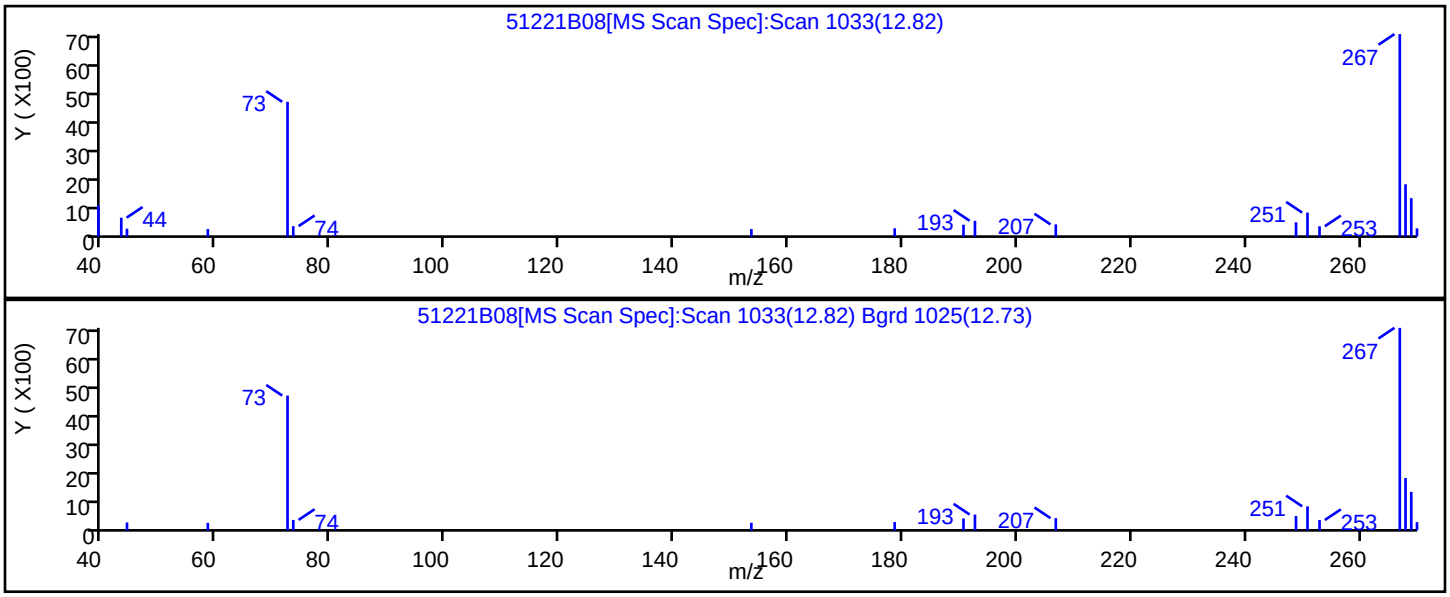
Report Date: 30-Dec-2015 17:23:28 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B08.D		
Injection Date:	21-Dec-2015 17:18:30	Inst. ID:	msd5.i
Client ID:	VBLKSC	Lab ID:	VBLKSC
Sample Info:	5122115b, VBLKSC		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.813

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-010
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221B19
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: PT
Heated Purge: (Y/N) Y
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-010
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221B19
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: PT
Heated Purge: (Y/N) Y
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
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
179601-23-1	m, p-Xylene	5.0	U
95-47-6	o-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

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK01

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-010
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221B19
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) Y
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.00	10	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B19.D		
Lab Sample ID:	QL12004-010	Client Sample ID:	VHBLK01
Injection Date:	21-Dec-2015 21:29:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115B, QL12004-010		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5.m		
Method Date:	21-Dec-2015 16:58:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	Client	ALS Bottle:	19
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	22-Dec-2015 10:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.057		ND			
2 Chloromethane	50.0		2.271		ND			
$ 3 Vinyl Chloride-d3	65.0	2.401	2.401	0.000	35256	55.649	55.649	
4 Vinyl Chloride	62.0		2.413		ND			
5 Bromomethane	94.0		2.804		ND			
$ 6 Chloroethane-d5	69.0	2.887	2.887	0.000	33563	56.690	56.690	
7 Chloroethane	64.0		2.911		ND			
8 Trichlorofluoromethane	101.0		3.208		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.800	3.801	-0.001	68813	42.999	42.999	
10 1,1-Dichloroethene	96.0		3.824		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.848		ND			
12 Acetone	43.0		3.848		ND			
13 Carbon Disulfide	76.0		4.097		ND			
14 Methyl Acetate	43.0		4.227		ND			
15 Methylene Chloride	84.0		4.358		ND			
16 Methyl tert-Butyl Ether	73.0		4.678		ND			
17 trans-1,2-Dichloroethene	96.0		4.690		ND			
18 1,1-Dichloroethane	63.0		5.164		ND			
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	42956	80.218	80.218	
20 2-Butanone	43.0		5.828		ND			
21 cis-1,2-Dichloroethene	96.0		5.840		ND			
22 Bromochloromethane	128.0		6.125		ND			
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	80994	53.525	53.525	Q
24 Chloroform	83.0		6.196		ND			
25 1,1,1-Trichloroethane	97.0		6.445		ND			
26 Cyclohexane	56.0		6.528		ND			

Report Date: 30-Dec-2015 17:23:37 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115B.b\51221B19.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
27 Carbon Tetrachloride	117.0		6.647		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.801	0.000	50175	54.481	54.481	
$ 29 Benzene-d6	84.0	6.836	6.836	0.000	179059	54.891	54.891	
30 Benzene	78.0		6.884		ND			
31 1,2-Dichloroethane	62.0		6.884		ND			
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	0.000	189669	50.000	50.000	
33 Trichloroethene	95.0		7.655		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.820	7.821	-0.001	53962	54.150	54.150	
35 Methylcyclohexane	83.0		7.904		ND			
36 1,2-Dichloropropane	63.0		7.927		ND			
39 Bromodichloromethane	83.0		8.248		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	68433	53.458	53.458	
41 cis-1,3-Dichloropropene	75.0		8.746		ND			
42 4-Methyl-2-pentanone	43.0		8.900		ND			
$ 43 Toluene-d8	98.0	9.054	9.054	0.000	174090	54.927	54.927	
44 Toluene	91.0		9.125		ND			
45 trans-1,3-Dichloropropene	75.0		9.315		ND			
46 1,1,2-Trichloroethane	97.0		9.505		ND			
47 Tetrachloroethene	164.0		9.671		ND			
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	31087	65.253	65.253	Q
49 2-Hexanone	43.0		9.730		ND			
50 Dibromochloromethane	129.0		9.896		ND			
51 1,2-Dibromoethane	107.0		10.014		ND			
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	185128	50.000	50.000	
53 Chlorobenzene	112.0		10.453		ND			
54 Ethylbenzene	91.0		10.536		ND			
55 m+p-Xylenes	106.0		10.643		ND			
56 o-Xylene	106.0		10.975		ND			
57 Styrene	104.0		10.987		ND			
58 Bromoform	173.0		11.153		ND			
59 Isopropylbenzene	105.0		11.271		ND			
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	50333	51.272	51.272	
61 1,1,2,2-Tetrachloroethane	83.0		11.497		ND			
62 1,3-Dichlorobenzene	146.0		12.244		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	102022	50.000	50.000	Q
64 1,4-Dichlorobenzene	146.0		12.303		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	71045	53.464	53.464	
66 1,2-Dichlorobenzene	146.0		12.588		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.121		ND			
68 1,2,4-Trichlorobenzene	180.0		13.691		ND			
69 1,2,3-Trichlorobenzene	180.0		14.034		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B19.D		
Lab Sample ID:	QL12004-010	Client Sample ID:	VHBLK01
Injection Date:	21-Dec-2015 21:29:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115B, QL12004-010		
Method:	\\Organics\DD\chem\msd5.i\5122115B.b\CLPLMS-5.m		
Method Date:	21-Dec-2015 16:58:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 16:33:30	Calib File:	51221B06.D
Sample Type:	Client	ALS Bottle:	19
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 5/Ws/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	22-Dec-2015 10:19:30

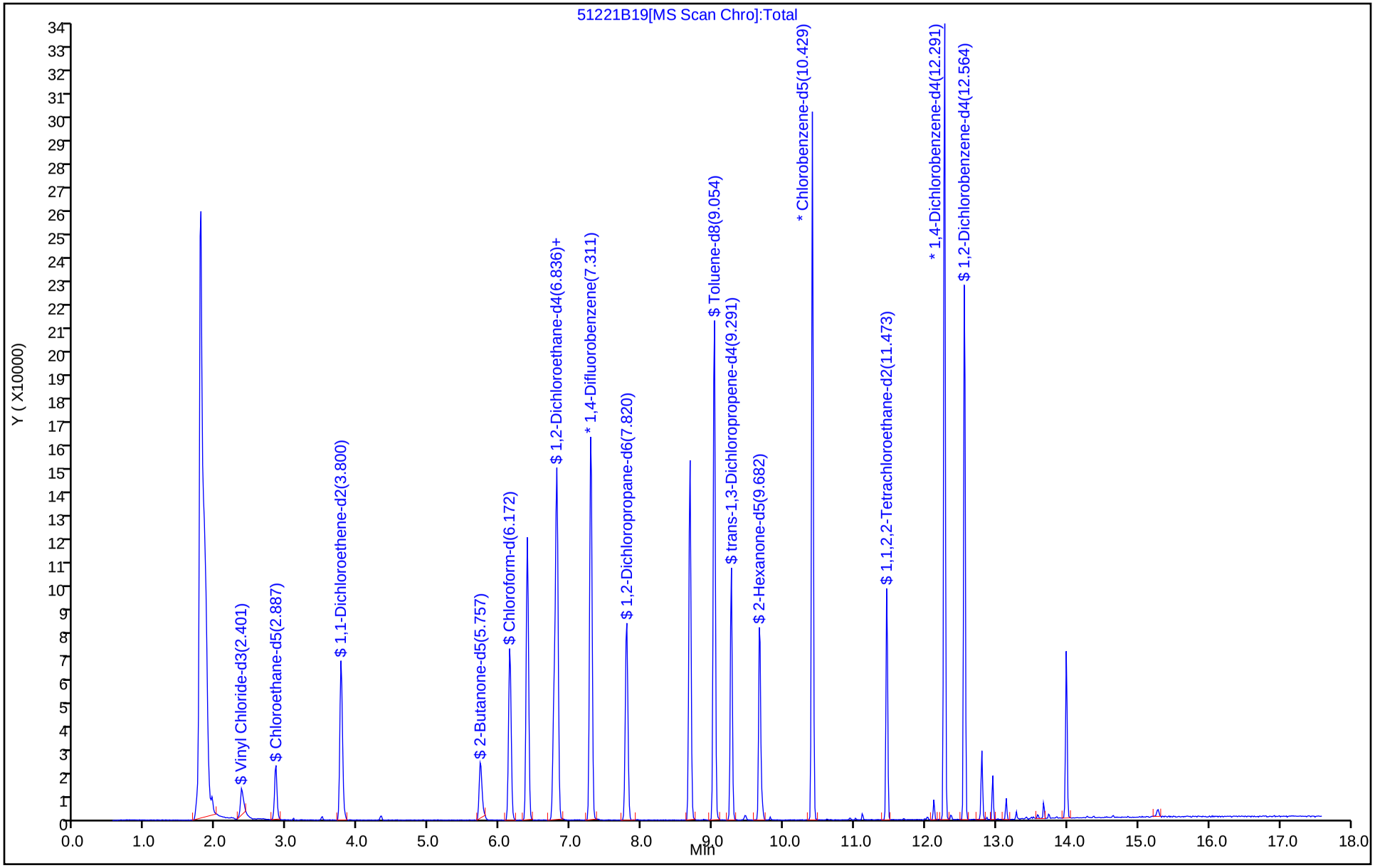
Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
13.999	115604	10.268	10.268	63				

Quant. Compounds	RT	Response	Amount ug/L
* 63 1,4-Dichlorobenzene-d4	12.291	562942	50.000

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B19.D				
Injection Date:	21-Dec-2015 21:29:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VHBLK01	Lab ID:	QL12004-010		
Sample Info:	5122115B, QL12004-010				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



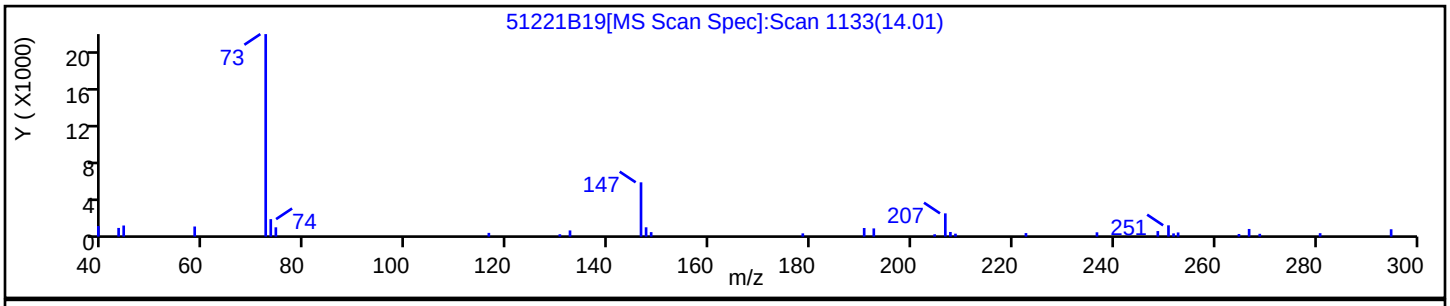
Report Date: 30-Dec-2015 17:23:37 AIM Revision: 1.0 26-May-2015 13:41:26

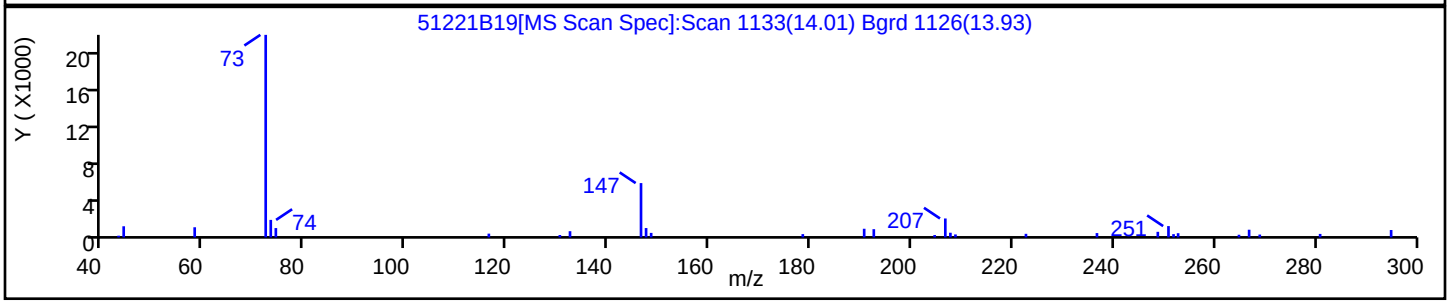
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115B.b\51221B19.D		
Injection Date:	21-Dec-2015 21:29:30	Inst. ID:	msd5.i
Client ID:	VHBLK01	Lab ID:	QL12004-010
Sample Info:	5122115B, QL12004-010		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.999

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK60

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A13
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK60

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A13
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
179601-23-1	m, p-Xylene	250	U
95-47-6	o-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLK60

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A13
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/16/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	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[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A13.D		
Lab Sample ID:	VIBLK60	Client Sample ID:	VIBLK60
Injection Date:	16-Dec-2015 12:37:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VIBLK60		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	13
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 10:23:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.105		ND			
2 Chloromethane	50.0		2.330		ND			
$ 3 Vinyl Chloride-d3	65.0	2.472	2.460	0.012	106854	54.646	2732.32	R
4 Vinyl Chloride	62.0		2.472		ND			
5 Bromomethane	94.0		2.852		ND			
$ 6 Chloroethane-d5	69.0	2.970	2.935	0.035	60375	67.904	3395.22	R
7 Chloroethane	64.0		2.970		ND			
8 Trichlorofluoromethane	101.0		3.267		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.895	3.883	0.012	140251	51.554	2577.68	R
10 1,1-Dichloroethene	96.0		3.907		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.931		ND			
12 Acetone	43.0		3.943		ND			
13 Carbon Disulfide	76.0		4.180		ND			
14 Methyl Acetate	43.0		4.322		ND			
15 Methylene Chloride	84.0		4.453		ND			
16 Methyl tert-Butyl Ether	73.0		4.773		ND			
17 trans-1,2-Dichloroethene	96.0		4.785		ND			
18 1,1-Dichloroethane	63.0		5.271		ND			
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	72589	185.64	9282.01	QR
20 2-Butanone	43.0		5.935		ND			
21 cis-1,2-Dichloroethene	96.0		5.935		ND			
22 Bromochloromethane	128.0		6.220		ND			
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	243943	88.657	4432.87	QR
24 Chloroform	83.0		6.303		ND			
25 1,1,1-Trichloroethane	97.0		6.552		ND			

Report Date: 21-Dec-2015 10:23:59 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A13.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0		6.635		ND			
27 Carbon Tetrachloride	117.0		6.753		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	87080	52.493	2624.63	R
$ 29 Benzene-d6	84.0	6.955	6.943	0.012	277678	61.171	3058.55	R
30 Benzene	78.0		6.990		ND			
31 1,2-Dichloroethane	62.0		6.990		ND			
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	248027	50.000	2500.00	
33 Trichloroethene	95.0		7.761		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	55249	47.804	2390.19	R
35 Methylcyclohexane	83.0		8.022		ND			
36 1,2-Dichloropropane	63.0		8.034		ND			
39 Bromodichloromethane	83.0		8.354		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	79929	49.742	2487.08	R
41 cis-1,3-Dichloropropene	75.0		8.852		ND			
42 4-Methyl-2-pentanone	43.0		8.994		ND			
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	221658	51.852	2592.60	QR
44 Toluene	91.0		9.208		ND			
45 trans-1,3-Dichloropropene	75.0		9.409		ND			
46 1,1,2-Trichloroethane	97.0		9.599		ND			
47 Tetrachloroethene	164.0		9.765		ND			
$ 48 2-Hexanone-d5	63.0	9.777	9.777	0.000	32700	79.583	3979.17	QR
49 2-Hexanone	43.0		9.825		ND			
50 Dibromochloromethane	129.0		9.979		ND			
51 1,2-Dibromoethane	107.0		10.109		ND			
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	182145	50.000	2500.00	
53 Chlorobenzene	112.0		10.536		ND			
54 Ethylbenzene	91.0		10.619		ND			
55 m+p-Xylenes	106.0		10.726		ND			
56 o-Xylene	106.0		11.058		ND			
57 Styrene	104.0		11.070		ND			
58 Bromoform	173.0		11.236		ND			
59 Isopropylbenzene	105.0		11.354		ND			
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	56154	53.161	2658.03	R
61 1,1,2,2-Tetrachloroethane	83.0		11.580		ND			
62 1,3-Dichlorobenzene	146.0		12.327		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	111419	50.000	2500.00	
64 1,4-Dichlorobenzene	146.0		12.386		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	99052	52.679	2633.97	R
66 1,2-Dichlorobenzene	146.0		12.659		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.192		ND			
68 1,2,4-Trichlorobenzene	180.0		13.762		ND			
69 1,2,3-Trichlorobenzene	180.0		14.117		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A13.D		
Lab Sample ID:	VIBLK60	Client Sample ID:	VIBLK60
Injection Date:	16-Dec-2015 12:37:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VIBLK60		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	13
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 10:23:30

Tentative Identified Compound Results

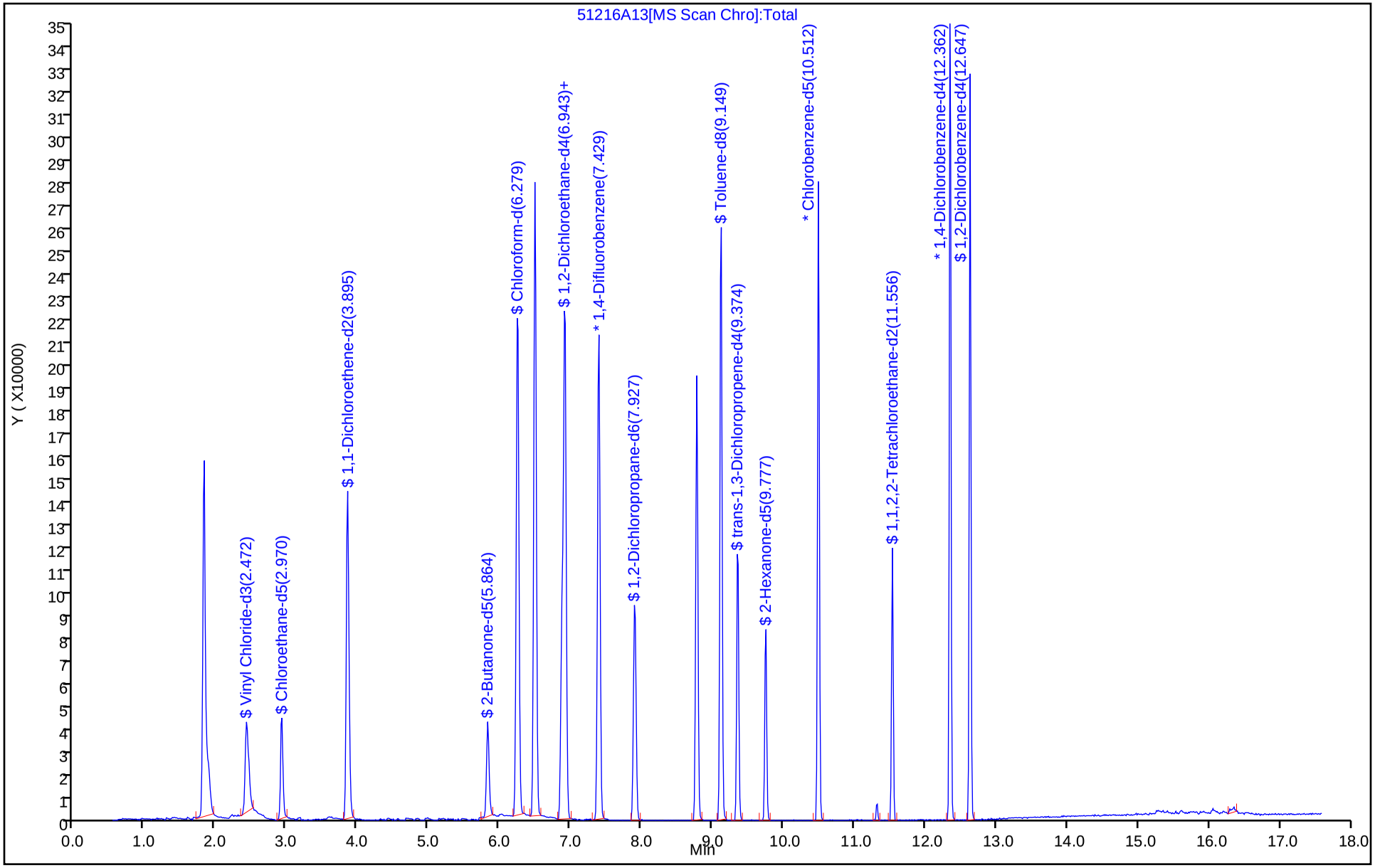
RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 21-Dec-2015 10:23:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A13.D				
Injection Date:	16-Dec-2015 12:37:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VIBLK60	Lab ID:	VIBLK60		
Sample Info:	5121615.b, VIBLK60				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK61

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018C
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A17
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK61

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018C
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A17
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
179601-23-1	m, p-Xylene	250	U
95-47-6	o-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLK61

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018C
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A17
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/16/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	575-41-7	Naphthalene, 1,3-dimethyl-	15.90	350	NJ
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A17.D		
Lab Sample ID:	VIBLK61	Client Sample ID:	VIBLK61
Injection Date:	16-Dec-2015 15:36:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VIBLK61		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	17
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 10:22:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.105		ND			
2 Chloromethane	50.0		2.330		ND			
$ 3 Vinyl Chloride-d3	65.0	2.484	2.460	0.024	94221	54.743	2737.17	R
4 Vinyl Chloride	62.0		2.472		ND			
5 Bromomethane	94.0		2.852		ND			
$ 6 Chloroethane-d5	69.0	2.971	2.935	0.035	55874	71.394	3569.72	R
7 Chloroethane	64.0		2.970		ND			
8 Trichlorofluoromethane	101.0		3.267		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.895	3.883	0.012	101576	42.419	2120.93	R
10 1,1-Dichloroethene	96.0		3.907		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.931		ND			
12 Acetone	43.0		3.943		ND			
13 Carbon Disulfide	76.0		4.180		ND			
14 Methyl Acetate	43.0		4.322		ND			
15 Methylene Chloride	84.0		4.453		ND			
16 Methyl tert-Butyl Ether	73.0		4.773		ND			
17 trans-1,2-Dichloroethene	96.0		4.785		ND			
18 1,1-Dichloroethane	63.0		5.271		ND			
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	52251	151.81	7590.65	QR
20 2-Butanone	43.0		5.935		ND			
21 cis-1,2-Dichloroethene	96.0		5.935		ND			
22 Bromochloromethane	128.0		6.220		ND			
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	154122	63.636	3181.81	QR
24 Chloroform	83.0		6.303		ND			
25 1,1,1-Trichloroethane	97.0		6.552		ND			

Report Date: 21-Dec-2015 10:24:00 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A17.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0		6.635		ND			
27 Carbon Tetrachloride	117.0		6.753		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.908	6.907	0.001	77948	53.382	2669.12	R
$ 29 Benzene-d6	84.0	6.955	6.943	0.012	254350	50.231	2511.54	R
30 Benzene	78.0		6.990		ND			
31 1,2-Dichloroethane	62.0		6.990		ND			
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	218316	50.000	2500.00	
33 Trichloroethene	95.0		7.761		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	62660	48.603	2430.14	R
35 Methylcyclohexane	83.0		8.022		ND			
36 1,2-Dichloropropane	63.0		8.034		ND			
39 Bromodichloromethane	83.0		8.354		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	86545	48.283	2414.13	R
41 cis-1,3-Dichloropropene	75.0		8.852		ND			
42 4-Methyl-2-pentanone	43.0		8.994		ND			
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	243060	50.972	2548.59	QR
44 Toluene	91.0		9.208		ND			
45 trans-1,3-Dichloropropene	75.0		9.409		ND			
46 1,1,2-Trichloroethane	97.0		9.599		ND			
47 Tetrachloroethene	164.0		9.765		ND			
$ 48 2-Hexanone-d5	63.0	9.777	9.777	0.000	37550	81.925	4096.27	R
49 2-Hexanone	43.0		9.825		ND			
50 Dibromochloromethane	129.0		9.979		ND			
51 1,2-Dibromoethane	107.0		10.109		ND			
* 52 Chlorobenzene-d5	117.0	10.513	10.512	0.000	203181	50.000	2500.00	
53 Chlorobenzene	112.0		10.536		ND			
54 Ethylbenzene	91.0		10.619		ND			
55 m+p-Xylenes	106.0		10.726		ND			
56 o-Xylene	106.0		11.058		ND			
57 Styrene	104.0		11.070		ND			
58 Bromoform	173.0		11.236		ND			
59 Isopropylbenzene	105.0		11.354		ND			
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	76585	64.996	3249.80	R
61 1,1,2,2-Tetrachloroethane	83.0		11.580		ND			
62 1,3-Dichlorobenzene	146.0		12.327		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	123092	50.000	2500.00	
64 1,4-Dichlorobenzene	146.0		12.386		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	111794	53.818	2690.89	R
66 1,2-Dichlorobenzene	146.0		12.659		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.192		ND			
68 1,2,4-Trichlorobenzene	180.0		13.762		ND			
69 1,2,3-Trichlorobenzene	180.0		14.117		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A17.D		
Lab Sample ID:	VIBLK61	Client Sample ID:	VIBLK61
Injection Date:	16-Dec-2015 15:36:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VIBLK61		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	17
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 10:22:30

Tentative Identified Compound Results

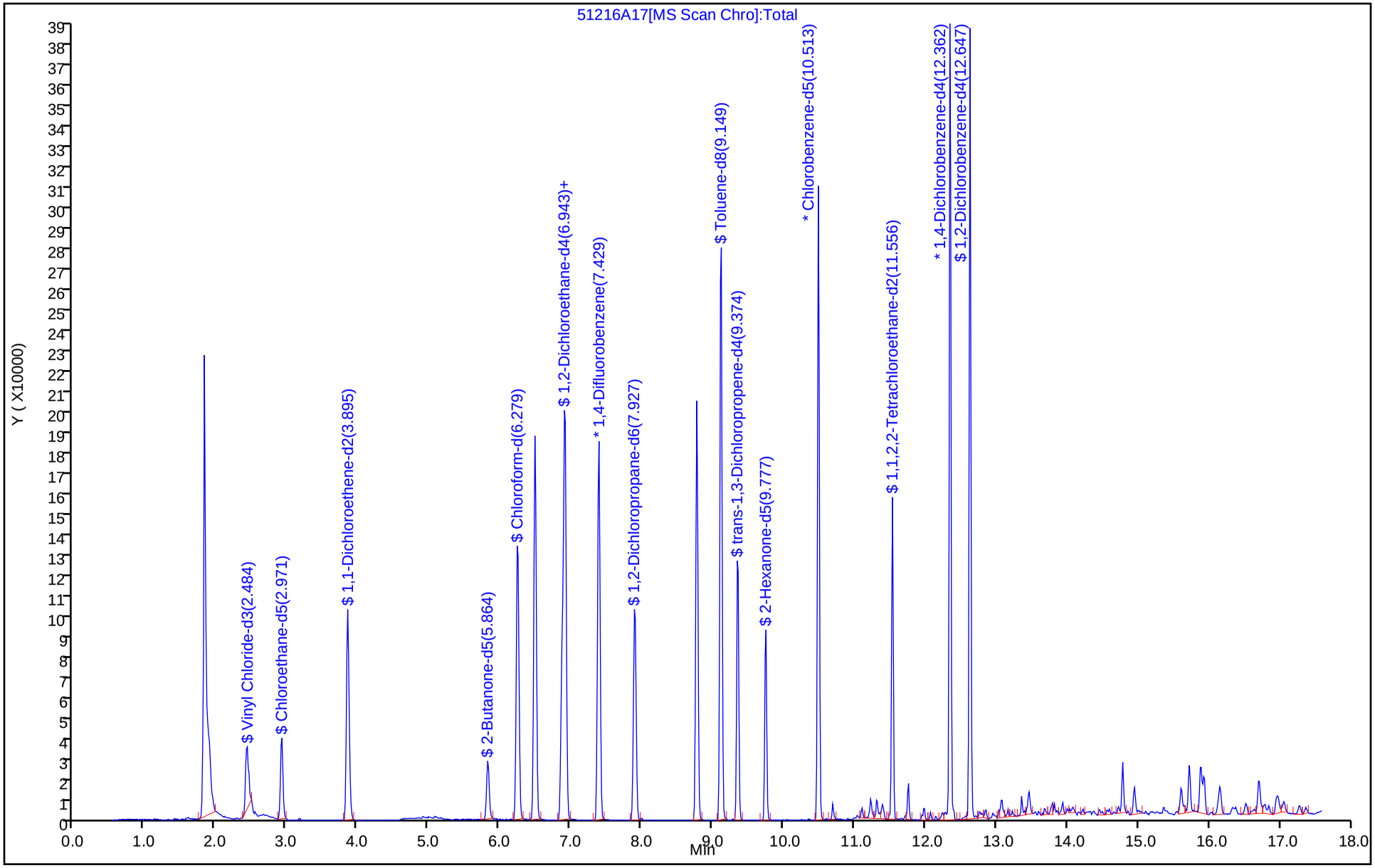
RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
575-41-7	Naphthalene, 1,3-dimethyl-							
15.896	93072	6.9524	347.62	63	96	28475	C12H12	156

Quant. Compounds	RT	Response	Amount ug/L
* 63 1,4-Dichlorobenzene-d4	12.362	669358	50.000

Report Date: 21-Dec-2015 10:24:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A17.D				
Injection Date:	16-Dec-2015 15:36:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VIBLK61	Lab ID:	VIBLK61		
Sample Info:	5121615.b, VIBLK61				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



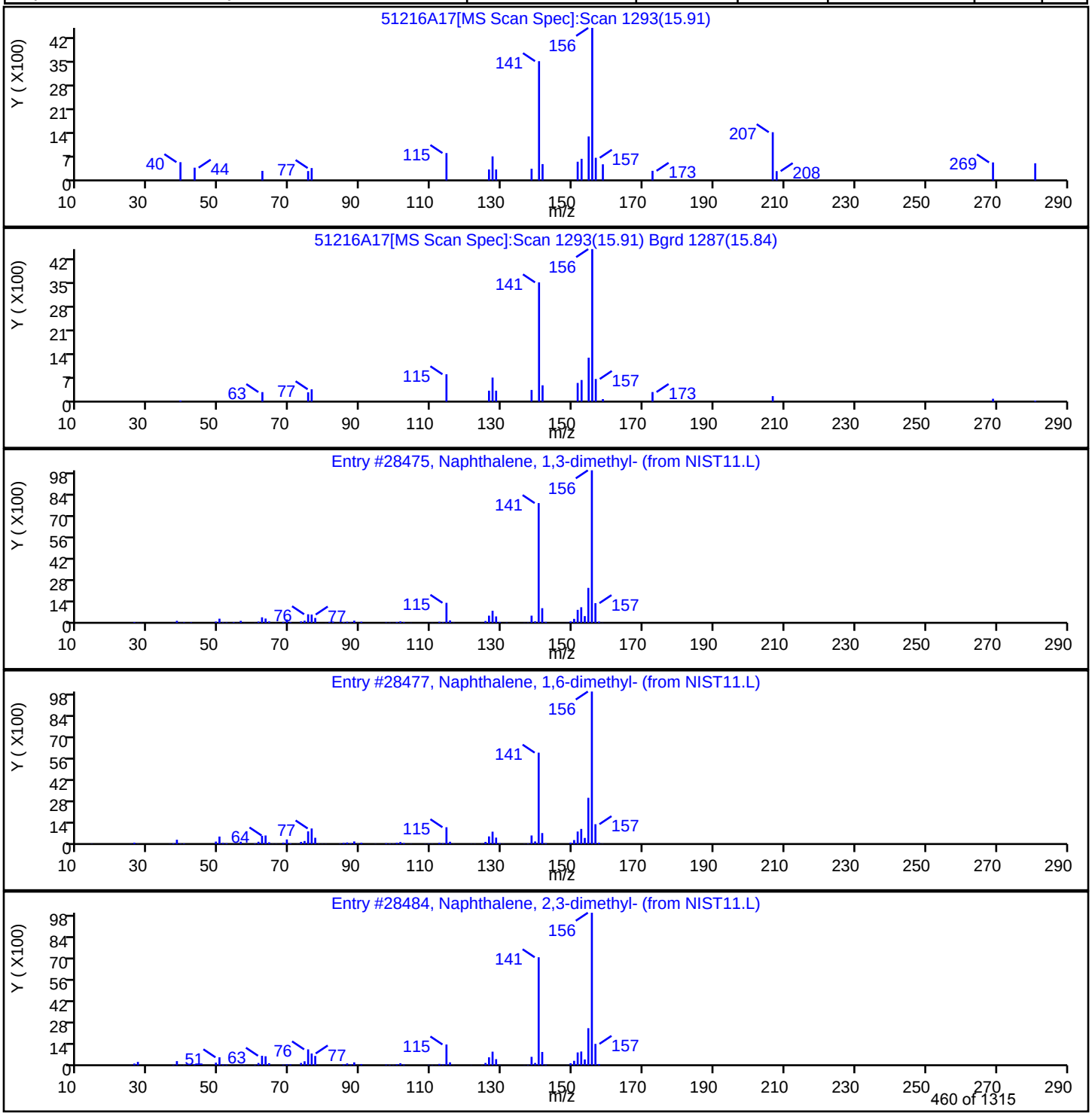
Report Date: 21-Dec-2015 10:24:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A17.D		
Injection Date:	16-Dec-2015 15:36:30	Inst. ID:	msd5.i
Client ID:	VIBLK61	Lab ID:	VIBLK61
Sample Info:	5121615.b, VIBLK61		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 15.896

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,3-dimethyl-	575-41-7	NIST11	28475	C12H12	156	96
Naphthalene, 1,6-dimethyl-	575-43-9	NIST11	28477	C12H12	156	96
Naphthalene, 2,3-dimethyl-	581-40-8	NIST11	28484	C12H12	156	96



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK62

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018D
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A19
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK62

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018D
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A19
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
179601-23-1	m, p-Xylene	250	U
95-47-6	o-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLK62

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018D
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A19
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/16/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	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[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A19.D		
Lab Sample ID:	VIBLK62	Client Sample ID:	VIBLK62
Injection Date:	16-Dec-2015 16:19:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VIBLK62		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	19
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 10:22:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.105		ND			
2 Chloromethane	50.0		2.330		ND			
$ 3 Vinyl Chloride-d3	65.0	2.472	2.460	0.012	113620	62.218	3110.88	R
4 Vinyl Chloride	62.0		2.472		ND			
5 Bromomethane	94.0		2.852		ND			
$ 6 Chloroethane-d5	69.0	2.947	2.935	0.012	54433	65.553	3277.63	R
7 Chloroethane	64.0		2.970		ND			
8 Trichlorofluoromethane	101.0		3.267		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.895	3.883	0.012	165946	65.314	3265.70	R
10 1,1-Dichloroethene	96.0		3.907		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.931		ND			
12 Acetone	43.0		3.943		ND			
13 Carbon Disulfide	76.0		4.180		ND			
14 Methyl Acetate	43.0		4.322		ND			
15 Methylene Chloride	84.0		4.453		ND			
16 Methyl tert-Butyl Ether	73.0		4.773		ND			
17 trans-1,2-Dichloroethene	96.0		4.785		ND			
18 1,1-Dichloroethane	63.0		5.271		ND			
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	51030	139.74	6986.89	QR
20 2-Butanone	43.0		5.935		ND			
21 cis-1,2-Dichloroethene	96.0		5.935		ND			
22 Bromochloromethane	128.0		6.220		ND			
$ 23 Chloroform-d	84.0	6.279	6.279	0.000	120500	46.892	2344.61	QR
24 Chloroform	83.0		6.303		ND			
25 1,1,1-Trichloroethane	97.0		6.552		ND			

Report Date: 21-Dec-2015 10:24:00 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A19.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0		6.635		ND			
27 Carbon Tetrachloride	117.0		6.753		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	77266	49.872	2493.59	R
$ 29 Benzene-d6	84.0	6.955	6.943	0.012	262163	49.174	2458.72	R
30 Benzene	78.0		6.990		ND			
31 1,2-Dichloroethane	62.0		6.990		ND			
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	231639	50.000	2500.00	
33 Trichloroethene	95.0		7.761		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	65740	48.432	2421.59	R
35 Methylcyclohexane	83.0		8.022		ND			
36 1,2-Dichloropropane	63.0		8.034		ND			
39 Bromodichloromethane	83.0		8.354		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.374	9.374	0.000	94596	50.125	2506.24	R
41 cis-1,3-Dichloropropene	75.0		8.852		ND			
42 4-Methyl-2-pentanone	43.0		8.994		ND			
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	261268	52.039	2601.97	QR
44 Toluene	91.0		9.208		ND			
45 trans-1,3-Dichloropropene	75.0		9.409		ND			
46 1,1,2-Trichloroethane	97.0		9.599		ND			
47 Tetrachloroethene	164.0		9.765		ND			
$ 48 2-Hexanone-d5	63.0	9.777	9.777	0.000	39014	80.846	4042.30	QR
49 2-Hexanone	43.0		9.825		ND			
50 Dibromochloromethane	129.0		9.979		ND			
51 1,2-Dibromoethane	107.0		10.109		ND			
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	213921	50.000	2500.00	
53 Chlorobenzene	112.0		10.536		ND			
54 Ethylbenzene	91.0		10.619		ND			
55 m+p-Xylenes	106.0		10.726		ND			
56 o-Xylene	106.0		11.058		ND			
57 Styrene	104.0		11.070		ND			
58 Bromoform	173.0		11.236		ND			
59 Isopropylbenzene	105.0		11.354		ND			
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	62693	50.535	2526.75	R
61 1,1,2,2-Tetrachloroethane	83.0		11.580		ND			
62 1,3-Dichlorobenzene	146.0		12.327		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	122707	50.000	2500.00	
64 1,4-Dichlorobenzene	146.0		12.386		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	104149	50.295	2514.74	R
66 1,2-Dichlorobenzene	146.0		12.659		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.192		ND			
68 1,2,4-Trichlorobenzene	180.0		13.762		ND			
69 1,2,3-Trichlorobenzene	180.0		14.117		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A19.D		
Lab Sample ID:	VIBLK62	Client Sample ID:	VIBLK62
Injection Date:	16-Dec-2015 16:19:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VIBLK62		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	19
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 10:22:30

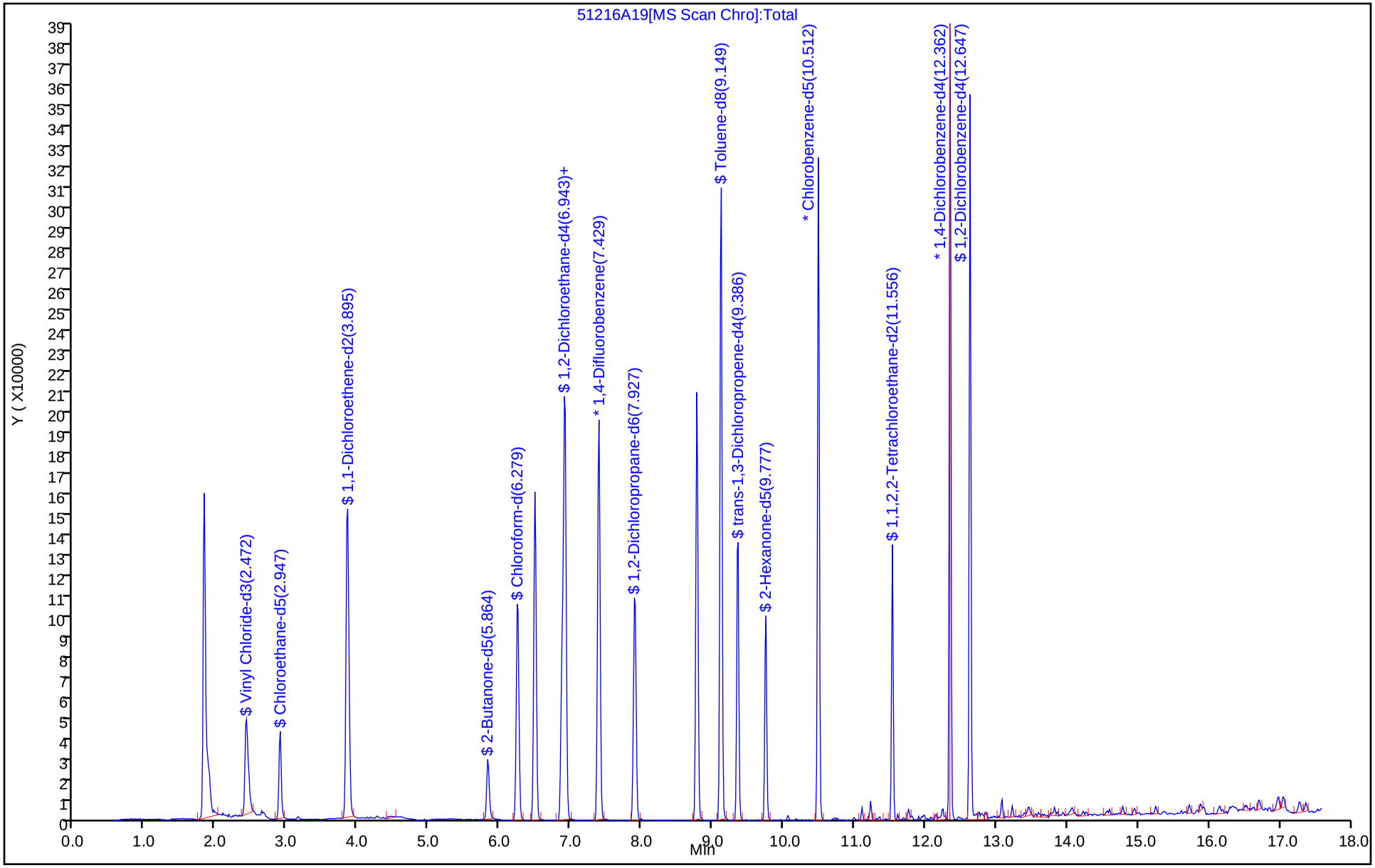
Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A19.D				
Injection Date:	16-Dec-2015 16:19:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VIBLK62	Lab ID:	VIBLK62		
Sample Info:	5121615.b, VIBLK62				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK63

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018E
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A21
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK63

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018E
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A21
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/16/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
179601-23-1	m, p-Xylene	250	U
95-47-6	o-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLK63

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92333-018E
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51216A21
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/16/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.34	830	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A21.D		
Lab Sample ID:	VIBLK63	Client Sample ID:	VIBLK63
Injection Date:	16-Dec-2015 17:02:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VIBLK63		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	21
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 10:22:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.105		ND			
2 Chloromethane	50.0		2.330		ND			
$ 3 Vinyl Chloride-d3	65.0	2.472	2.460	0.012	117805	66.846	3342.31	R
4 Vinyl Chloride	62.0		2.472		ND			
5 Bromomethane	94.0		2.852		ND			
$ 6 Chloroethane-d5	69.0	2.970	2.935	0.035	70781	88.328	4416.41	R
7 Chloroethane	64.0		2.970		ND			
8 Trichlorofluoromethane	101.0		3.267		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.895	3.883	0.012	141383	57.662	2883.11	R
10 1,1-Dichloroethene	96.0		3.907		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.931		ND			
12 Acetone	43.0		3.943		ND			
13 Carbon Disulfide	76.0		4.180		ND			
14 Methyl Acetate	43.0		4.322		ND			
15 Methylene Chloride	84.0		4.453		ND			
16 Methyl tert-Butyl Ether	73.0		4.773		ND			
17 trans-1,2-Dichloroethene	96.0		4.785		ND			
18 1,1-Dichloroethane	63.0		5.271		ND			
$ 19 2-Butanone-d5	46.0	5.864	5.864	0.000	43033	122.11	6105.41	QR
20 2-Butanone	43.0		5.935		ND			
21 cis-1,2-Dichloroethene	96.0		5.935		ND			
22 Bromochloromethane	128.0		6.220		ND			
$ 23 Chloroform-d	84.0	6.291	6.279	0.012	159426	64.288	3214.38	QR
24 Chloroform	83.0		6.303		ND			
25 1,1,1-Trichloroethane	97.0		6.552		ND			

Report Date: 21-Dec-2015 10:24:00 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5121615.b\51216A21.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0		6.635		ND			
27 Carbon Tetrachloride	117.0		6.753		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.907	6.907	0.000	95710	64.014	3200.72	R
$ 29 Benzene-d6	84.0	6.955	6.943	0.012	331923	66.224	3311.19	R
30 Benzene	78.0		6.990		ND			
31 1,2-Dichloroethane	62.0		6.990		ND			
* 32 1,4-Difluorobenzene	114.0	7.429	7.429	0.000	223541	50.000	2500.00	
33 Trichloroethene	95.0		7.761		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.927	7.927	0.000	66239	51.907	2595.34	R
35 Methylcyclohexane	83.0		8.022		ND			
36 1,2-Dichloropropane	63.0		8.034		ND			
39 Bromodichloromethane	83.0		8.354		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.386	9.374	0.012	88201	49.712	2485.60	R
41 cis-1,3-Dichloropropene	75.0		8.852		ND			
42 4-Methyl-2-pentanone	43.0		8.994		ND			
$ 43 Toluene-d8	98.0	9.149	9.149	0.000	254319	53.881	2694.04	QR
44 Toluene	91.0		9.208		ND			
45 trans-1,3-Dichloropropene	75.0		9.409		ND			
46 1,1,2-Trichloroethane	97.0		9.599		ND			
47 Tetrachloroethene	164.0		9.765		ND			
$ 48 2-Hexanone-d5	63.0	9.777	9.777	0.000	34459	75.954	3797.69	QR
49 2-Hexanone	43.0		9.825		ND			
50 Dibromochloromethane	129.0		9.979		ND			
51 1,2-Dibromoethane	107.0		10.109		ND			
* 52 Chlorobenzene-d5	117.0	10.512	10.512	0.000	201115	50.000	2500.00	
53 Chlorobenzene	112.0		10.536		ND			
54 Ethylbenzene	91.0		10.619		ND			
55 m+p-Xylenes	106.0		10.726		ND			
56 o-Xylene	106.0		11.058		ND			
57 Styrene	104.0		11.070		ND			
58 Bromoform	173.0		11.236		ND			
59 Isopropylbenzene	105.0		11.354		ND			
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.556	11.556	0.000	66481	57.001	2850.03	R
61 1,1,2,2-Tetrachloroethane	83.0		11.580		ND			
62 1,3-Dichlorobenzene	146.0		12.327		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.362	12.362	0.000	126641	50.000	2500.00	
64 1,4-Dichlorobenzene	146.0		12.386		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.647	12.647	0.000	117546	55.001	2750.05	R
66 1,2-Dichlorobenzene	146.0		12.659		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.192		ND			
68 1,2,4-Trichlorobenzene	180.0		13.762		ND			
69 1,2,3-Trichlorobenzene	180.0		14.117		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A21.D		
Lab Sample ID:	VIBLK63	Client Sample ID:	VIBLK63
Injection Date:	16-Dec-2015 17:02:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5121615.b, VIBLK63		
Method:	\\Organics\DD\chem\msd5.i\5121615.b\CLPLMM-5.m		
Method Date:	17-Dec-2015 09:18:30	Quant Method:	ISTD
Calib Date:	16-Dec-2015 10:48:30	Calib File:	51216A09.D
Sample Type:	Client	ALS Bottle:	21
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 10:22:30

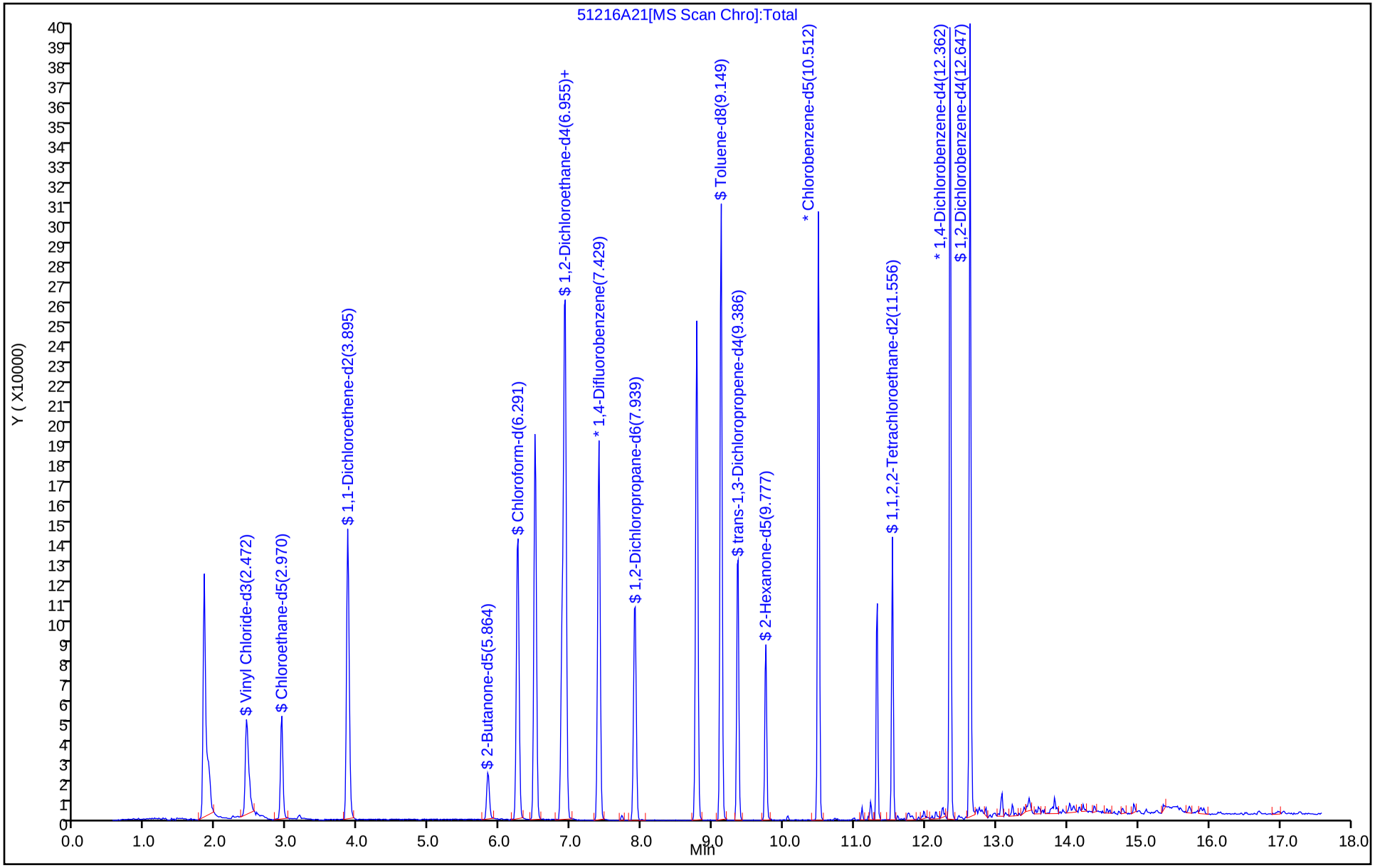
Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
11.342	181110	16.581	829.05	52				

Quant. Compounds	RT	Response	Amount ug/L
* 52 Chlorobenzene-d5	10.512	546135	50.000

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A21.D				
Injection Date:	16-Dec-2015 17:02:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VIBLK63	Lab ID:	VIBLK63		
Sample Info:	5121615.b, VIBLK63				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



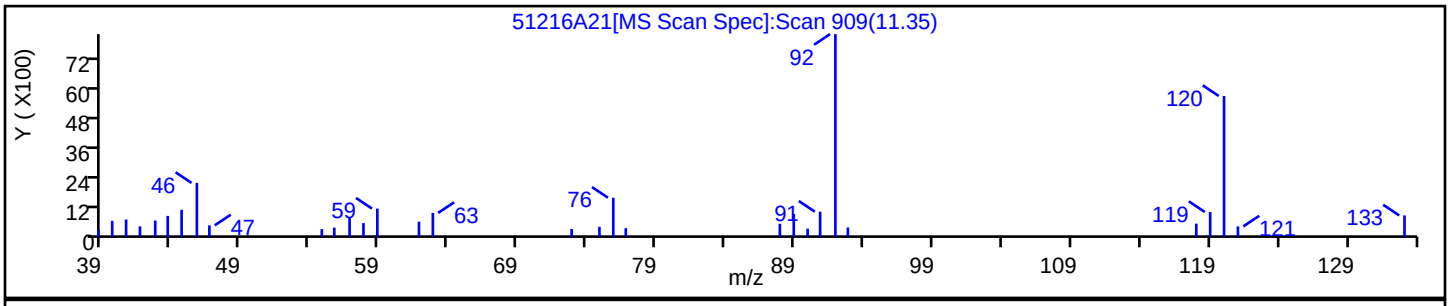
Report Date: 21-Dec-2015 10:24:00 AIM Revision: 1.0 26-May-2015 13:41:26

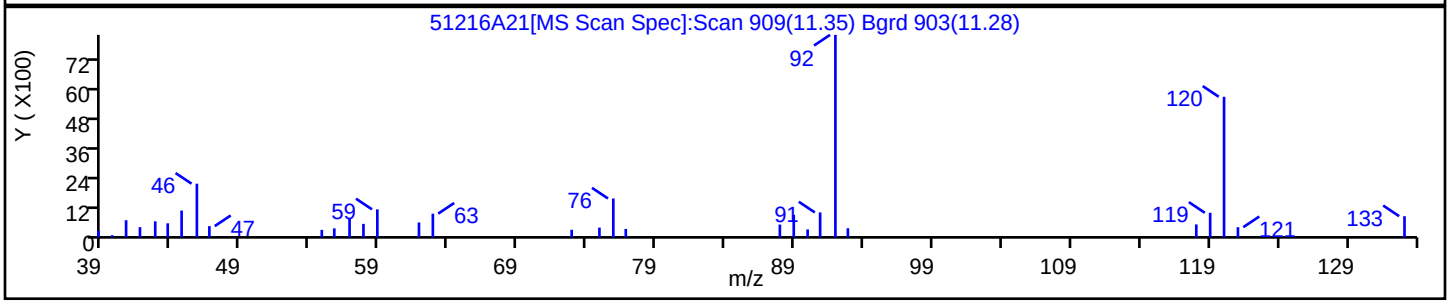
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5121615.b\51216A21.D		
Injection Date:	16-Dec-2015 17:02:30	Inst. ID:	msd5.i
Client ID:	VIBLK63	Lab ID:	VIBLK63
Sample Info:	5121615.b, VIBLK63		
Purge Vol.	5.00 mL	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.342

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK64

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92730-018
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221A07
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK64

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92730-018
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221A07
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N)
Extract Volume: 5000 (uL)
Soil Aliquot (VOA): 100 (uL)
Extraction Type: PT
Heated Purge: (Y/N) N
Injection Volume: (uL)
Purge Volume: 5.0 (mL)
pH: Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
179601-23-1	m, p-Xylene	250	U
95-47-6	o-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLK64

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: VOA
Level: MED
Matrix: Soil
Lab Sample ID: QQ92730-018
Sample wt/vol: 5.00 (g/mL) g
Lab File ID: 51221A07
% Solids: 100
Date Received:
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): 100 (uL)
Extract Volume: 5000 (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 5.0 (mL)
Injection Volume:
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor:

	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[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A07.D		
Lab Sample ID:	VIBLK64	Client Sample ID:	VIBLK64
Injection Date:	21-Dec-2015 11:57:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VIBLK64		
Method:	\\Organics\DD\chem\msd5.i\5122115.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 10:25:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	Client	ALS Bottle:	7
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 17:09:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
1 Dichlorodifluoromethane	85.0		2.057		ND			
2 Chloromethane	50.0		2.271		ND			
$ 3 Vinyl Chloride-d3	65.0	2.413	2.401	0.012	57129	54.983	2749.16	R
4 Vinyl Chloride	62.0		2.413		ND			
5 Bromomethane	94.0		2.781		ND			
$ 6 Chloroethane-d5	69.0	2.887	2.852	0.035	50799	60.499	3024.94	R
7 Chloroethane	64.0		2.887		ND			
8 Trichlorofluoromethane	101.0		3.184		ND			
$ 9 1,1-Dichloroethene-d2	63.0	3.801	3.801	0.000	103745	43.388	2169.40	R
10 1,1-Dichloroethene	96.0		3.812		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.836		ND			
12 Acetone	43.0		3.848		ND			
13 Carbon Disulfide	76.0		4.085		ND			
14 Methyl Acetate	43.0		4.216		ND			
15 Methylene Chloride	84.0		4.358		ND			
16 Methyl tert-Butyl Ether	73.0		4.666		ND			
17 trans-1,2-Dichloroethene	96.0		4.678		ND			
18 1,1-Dichloroethane	63.0		5.152		ND			
$ 19 2-Butanone-d5	46.0	5.757	5.757	0.000	54792	112.84	5641.81	R
20 2-Butanone	43.0		5.828		ND			
21 cis-1,2-Dichloroethene	96.0		5.828		ND			
22 Bromochloromethane	128.0		6.113		ND			
$ 23 Chloroform-d	84.0	6.172	6.172	0.000	118695	51.745	2587.24	QR
24 Chloroform	83.0		6.196		ND			
25 1,1,1-Trichloroethane	97.0		6.433		ND			

Report Date: 21-Dec-2015 17:14:45 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd5.i\5122115.b\51221A07.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/Kg	Flags
26 Cyclohexane	56.0		6.516		ND			
27 Carbon Tetrachloride	117.0		6.635		ND			
$ 28 1,2-Dichloroethane-d4	65.0	6.801	6.789	0.012	72905	51.912	2595.62	R
$ 29 Benzene-d6	84.0	6.836	6.824	0.012	264411	53.833	2691.65	R
30 Benzene	78.0		6.872		ND			
31 1,2-Dichloroethane	62.0		6.884		ND			
* 32 1,4-Difluorobenzene	114.0	7.311	7.311	0.000	231006	50.000	2500.00	
33 Trichloroethene	95.0		7.643		ND			
$ 34 1,2-Dichloropropane-d6	67.0	7.821	7.809	0.012	78308	52.481	2624.03	R
35 Methylcyclohexane	83.0		7.904		ND			
36 1,2-Dichloropropane	63.0		7.915		ND			
39 Bromodichloromethane	83.0		8.236		ND			
$ 40 trans-1,3-Dichloropropene-d4	79.0	9.291	9.291	0.000	95356	52.098	2604.91	R
41 cis-1,3-Dichloropropene	75.0		8.746		ND			
42 4-Methyl-2-pentanone	43.0		8.900		ND			
$ 43 Toluene-d8	98.0	9.054	9.042	0.012	247921	52.810	2640.52	R
44 Toluene	91.0		9.113		ND			
45 trans-1,3-Dichloropropene	75.0		9.315		ND			
46 1,1,2-Trichloroethane	97.0		9.504		ND			
47 Tetrachloroethene	164.0		9.671		ND			
$ 48 2-Hexanone-d5	63.0	9.682	9.682	0.000	50639	91.832	4591.61	QR
49 2-Hexanone	43.0		9.730		ND			
50 Dibromochloromethane	129.0		9.896		ND			
51 1,2-Dibromoethane	107.0		10.014		ND			
* 52 Chlorobenzene-d5	117.0	10.429	10.429	0.000	205869	50.000	2500.00	
53 Chlorobenzene	112.0		10.453		ND			
54 Ethylbenzene	91.0		10.536		ND			
55 m+p-Xylenes	106.0		10.643		ND			
56 o-Xylene	106.0		10.975		ND			
57 Styrene	104.0		10.987		ND			
58 Bromoform	173.0		11.153		ND			
59 Isopropylbenzene	105.0		11.271		ND			
$ 60 1,1,2,2-Tetrachloroethane-d2	84.0	11.473	11.473	0.000	69720	52.963	2648.13	R
61 1,1,2,2-Tetrachloroethane	83.0		11.497		ND			
62 1,3-Dichlorobenzene	146.0		12.244		ND			
* 63 1,4-Dichlorobenzene-d4	152.0	12.291	12.291	0.000	106861	50.000	2500.00	
64 1,4-Dichlorobenzene	146.0		12.303		ND			
$ 65 1,2-Dichlorobenzene-d4	152.0	12.564	12.564	0.000	90309	51.183	2559.13	R
66 1,2-Dichlorobenzene	146.0		12.588		ND			
67 1,2-Dibromo-3-chloropropane	75.0		13.121		ND			
68 1,2,4-Trichlorobenzene	180.0		13.679		ND			
69 1,2,3-Trichlorobenzene	180.0		14.034		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A07.D		
Lab Sample ID:	VIBLK64	Client Sample ID:	VIBLK64
Injection Date:	21-Dec-2015 11:57:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd5.i
Sample Info:	5122115b, VIBLK64		
Method:	\\Organics\DD\chem\msd5.i\5122115.b\CLPLMM-5.m		
Method Date:	21-Dec-2015 10:25:30	Quant Method:	ISTD
Calib Date:	20-Dec-2015 16:36:30	Calib File:	51220A12.D
Sample Type:	Client	ALS Bottle:	7
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Medium
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * ((Uf + (Ws-(Ws*(100-M)/100))*10) * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Ws	5.0000	Weight of sample extracted (g)
M	0	% Moisture (not decanted)
Uf	50.000	ng unit correction factor
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	21-Dec-2015 17:09:30

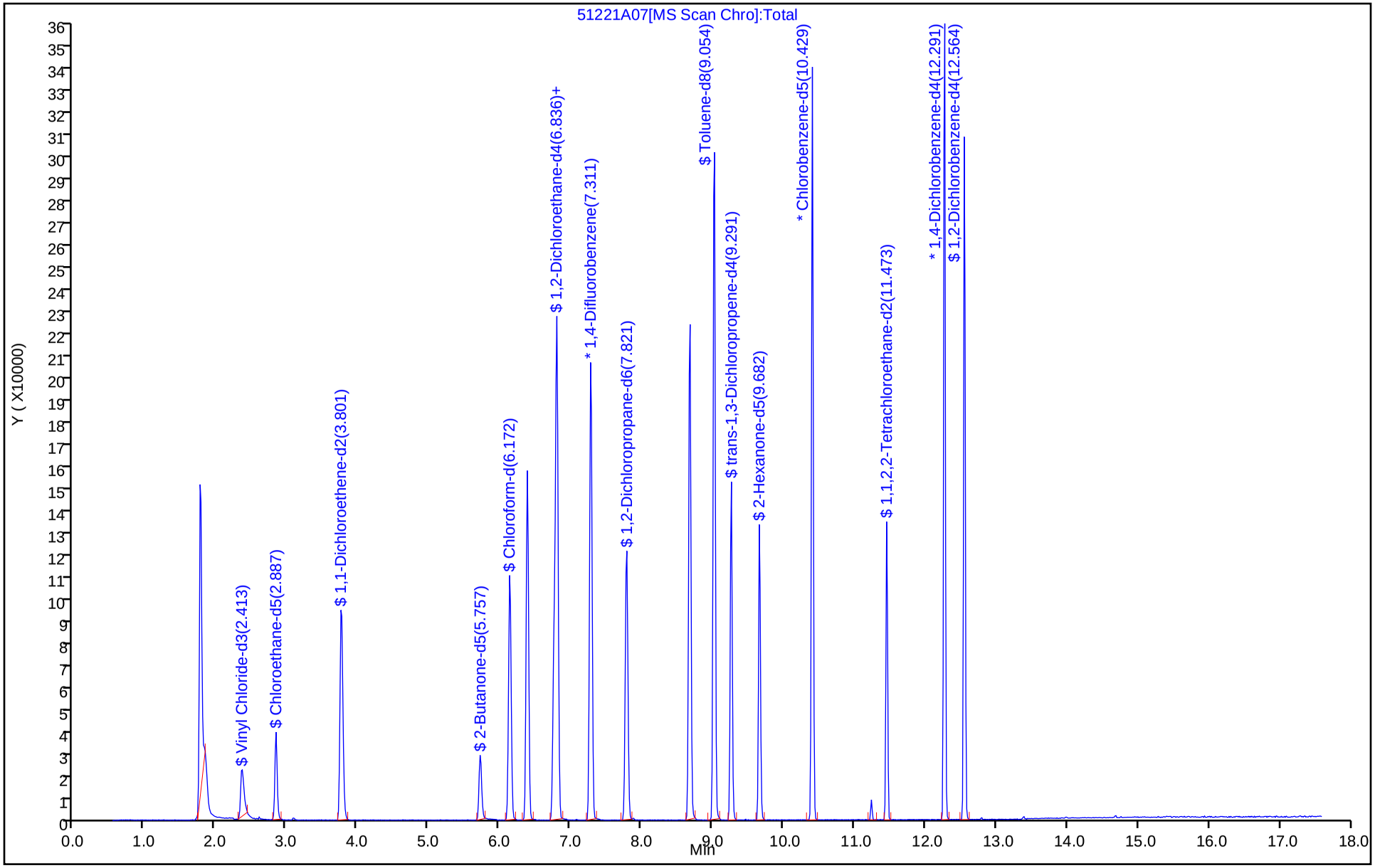
Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd5.i\5122115.b\51221A07.D				
Injection Date:	21-Dec-2015 11:57:30	Inst. ID:	msd5.i	Operator:	PAP
Client ID:	VIBLK64	Lab ID:	VIBLK64		
Sample Info:	5122115b, VIBLK64				
Purge Vol.	5.00 mL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



VOLATILE
Miscellaneous Data

Run Logs

Standard Preparation Logs

Shealy Environmental Services
Run Log Report

BATCH: 92333
ICAL: 92332
IS: 14067
SS: 7784

Batch Path: \\Organics\DD\chem\msd5.i\5121615.b
Inst. ID: msd5.i Method: CLPLMM-5
Matrix: Soil Operator: PAP

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	ICal Lvl	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
1	BFBPE	16-Dec-2015 07:52:30	51216A01.D	BFB		BFBPE	Water	1	all			Yes			14049		BFBSOM-5
2	VIBLK	16-Dec-2015 08:12:30	51216A02.D	BFB			Water	1	all			Yes					BFBSOM-5
3	VSTD005PE	16-Dec-2015 08:33:30	51216A03.D	Ical	2	VSTD005PE	Soil	1	std		Yes						CLPLMM-5
4	VSTD010PE	16-Dec-2015 08:55:30	51216A04.D	Ical	3	VSTD010PE	Soil	1	std		Yes				7801		CLPLMM-5
5	VSTD050PE	16-Dec-2015 09:16:30	51216A05.D	Ical	4	VSTD050PE	Soil	1	std		Yes				7802		CLPLMM-5
6	VSTD100PE	16-Dec-2015 09:38:30	51216A06.D	Ical	5	VSTD100PE	Soil	1	std		Yes				7803		CLPLMM-5
7	VSTD200PE	16-Dec-2015 09:59:30	51216A07.D	Ical	6	VSTD200PE	Soil	1	std		Yes				7804		CLPLMM-5
8	VIBLK	16-Dec-2015 10:21:30	51216A08.D	Client			Soil	1	std		Yes						CLPLMS-5
9	VSTD005PE	16-Dec-2015 10:48:30	51216A09.D	Ical	2	VSTD005PE	Soil	1	std		Yes				7800		CLPLMM-5
10	VBLKPE	16-Dec-2015 11:09:30	51216A10.D	BLANK		VBLKPE	Soil	1	std		Yes						CLPLMM-5
11	QL11018-019	16-Dec-2015 11:54:30	51216A11.D	Client		F6R19	Soil	1	std		Yes					R-1X	CLPLMM-5
12	QL11018-020	16-Dec-2015 12:15:30	51216A12.D	Client		F6R20	Soil	1	std		Yes					R-1X	CLPLMM-5
13	VBLK60	16-Dec-2015 12:37:30	51216A13.D	Client		VBLK60	Soil	1	std		Yes						CLPLMM-5
14	QL11018-021	16-Dec-2015 12:58:30	51216A14.D	Client		F6R21	Soil	1	std		Yes					R-1X	CLPLMM-5
15	QL11018-022	16-Dec-2015 14:53:30	51216A15B.D	Client		F6R23	Soil	1	std		Yes					S R-10X	CLPLMM-5
16	QL12004-005	16-Dec-2015 15:15:30	51216A16.D	Client		F6R24	Soil	1	std		Yes					S R-10X	CLPLMM-5
17	VBLK61	16-Dec-2015 15:36:30	51216A17.D	Client		VBLK61	Soil	1	std		Yes						CLPLMM-5
18	QL12004-006	16-Dec-2015 15:58:30	51216A18.D	Client		F6R25	Soil	1	std		Yes						CLPLMM-5
19	VBLK62	16-Dec-2015 16:19:30	51216A19.D	Client		VBLK62	Soil	1	std		Yes						CLPLMM-5
20	QL12004-007	16-Dec-2015 16:41:30	51216A20.D	Client		F6R26	Soil	1	std		Yes						CLPLMM-5
21	VBLK63	16-Dec-2015 17:02:30	51216A21.D	Client		VBLK63	Soil	1	std		Yes						CLPLMM-5
22	QL12004-008	16-Dec-2015 17:26:30	51216A22.D	Client		F6R27	Soil	1	std		Yes					MATRIX	CLPLMM-5
23	QL12004-009	16-Dec-2015 17:48:30	51216A23.D	Client		F6R28	Soil	1	std		Yes					R-1X	CLPLMM-5
24	VSTD050QA	16-Dec-2015 18:09:30	51216A24.D	Ccv		VSTD050QA	Soil	1	std		Yes				7802		CLPLMM-5e
25	VSTD050QA	16-Dec-2015 18:31:30	51216A25.D	Ccv		VSTD050QA	Soil	1	std		Yes					NR-passes	CLPLMM-5e

Shealy Environmental Services
Run Log Report

ICAL: 92686
IS: 14067
SS: 7808

Batch Path: \\Organics\DD\chem\msd5.i\5122015b.b
Inst. ID: msd5.i Method: CLPLMS-5
Matrix: Soil Operator: ALL

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	ICal Lvl	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
1	BFBQN	20-Dec-2015 12:36:30	51220A01.D	BFB		BFBQN	Water	1	all			Yes			14049		BFBSOM-5
2	VSTD005QN	20-Dec-2015 12:57:30	51220A02.D	Ical	2	VSTD005QN	Soil	1	std		Yes					Low level > 2 failed	CLPLMS-5
3	VSTD010QN	20-Dec-2015 13:19:30	51220A03.D	Ical	3	VSTD010QN	Soil	1	std		Yes					min response	CLPLMS-5
4	VSTD050QN	20-Dec-2015 13:42:30	51220A04.D	Ical	4	VSTD050QN	Soil	1	std		Yes						CLPLMS-5
5	VSTD100QN	20-Dec-2015 14:04:30	51220A05.D	Ical	5	VSTD100QN	Soil	1	std		Yes						CLPLMS-5
6	VSTD200QN	20-Dec-2015 14:26:30	51220A06.D	Ical	6	VSTD200QN	Soil	1	std		Yes						CLPLMS-5
7	VBLKQN	20-Dec-2015 14:49:30	51220A07.D	Client			Soil	1	std		Yes						CLPLMS-5
8	VSTD005ZB	20-Dec-2015 15:10:30	51220A08.D	Ical	2	VSTD005ZB	Soil	1	std		Yes				7819		CLPLMM-5
9	VSTD010ZB	20-Dec-2015 15:31:30	51220A09.D	Ical	3	VSTD010ZB	Soil	1	std		Yes				7820		CLPLMM-5
10	VSTD050ZB	20-Dec-2015 15:53:30	51220A10.D	Ical	4	VSTD050ZB	Soil	1	std		Yes				7821		CLPLMM-5
11	VSTD100ZB	20-Dec-2015 16:15:30	51220A11.D	Ical	5	VSTD100ZB	Soil	1	std		Yes				7822		CLPLMM-5
12	VSTD200ZB	20-Dec-2015 16:36:30	51220A12.D	Ical	6	VSTD200ZB	Soil	1	std		Yes				7823		CLPLMM-5
13	VBLKZB	20-Dec-2015 16:57:30	51220A13.D	BLANK		VBLKZB	Soil	1	std		Yes						CLPLMM-5

Shealy Environmental Services
Run Log Report

BATCH: 92730
ICAL: 92686
IS: 14067
SS: 7808

Batch Path: \\Organics\DD\chem\msd5.i\5122115.b
Inst. ID: msd5.i Method: CLPLMM-5
Matrix: Soil Operator: PAP

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
1	BFBSA	21-Dec-2015 08:47:30	51221A01.D	BFB	BFBSA	Water	1	all			Yes			14049		BFBSOM-5
2	VIBLK	21-Dec-2015 09:02:30	51221A02.D	BFB		Water	1	all			Yes					BFBSOM-5
3	VSTD050SA	21-Dec-2015 09:23:30	51221A03.D	Ccv	VSTD050SA	Soil	1	std		Yes				7824		CLPLMM-5
4	VIBLK	21-Dec-2015 10:01:30	51221A04.D	Client	VIBLK	Soil	1	std		Yes						CLPLMM-5
5	VBLKSA	21-Dec-2015 10:22:30	51221A05A.D	BLANK	VBLKSA	Soil	1	std		Yes						CLPLMM-5
6	QL11018-022DL	21-Dec-2015 11:36:30	51221A06A.D	Client	F6R23DL	Soil	10	std		Yes						CLPLMM-5
7	VIBLK64	21-Dec-2015 11:57:30	51221A07.D	Client	VIBLK64	Soil	1	std		Yes						CLPLMM-5
8	QL12004-005DL	21-Dec-2015 12:18:30	51221A08.D	Client	F6R24DL	Soil	10	std		Yes						CLPLMM-5
9	VIBLK65	21-Dec-2015 12:39:30	51221A09.D	Client	VIBLK65	Soil	1	std		Yes					NR	CLPLMM-5
10	VSTD050SB	21-Dec-2015 13:04:30	51221A10.D	Ccv	VSTD050SB	Soil	1	std		Yes				7824		CLPLMM-5e
11	VIBLK	21-Dec-2015 13:44:30	51221A11.D	Client		Soil	1	std		Yes						CLPLMM-5

Shealy Environmental Services
Run Log Report

BATCH: 92741
ICAL: 92734
IS: 14067
SS: 7808

Batch Path: \\Organics\DD\chem\msd5.i\5122115B.b
Inst. ID: msd5.i Method: CLPLMS-5
Matrix: Soil Operator: PAP

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	ICal Lvl	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
1	BFBSC	21-Dec-2015 14:42:30	51221B01.D	BFB		BFBSC	Water	1	all			Yes			14049		BFBSOM-5
2	VSTD005SC	21-Dec-2015 15:04:30	51221B02.D	Ical	2	VSTD005SC	Soil	1	std		Yes				7825		CLPLMS-5
3	VSTD010SC	21-Dec-2015 15:26:30	51221B03.D	Ical	3	VSTD010SC	Soil	1	std		Yes				7826		CLPLMS-5
4	VSTD050SC	21-Dec-2015 15:49:30	51221B04.D	Ical	4	VSTD050SC	Soil	1	std		Yes				7827		CLPLMS-5
5	VSTD100SC	21-Dec-2015 16:11:30	51221B05.D	Ical	5	VSTD100SC	Soil	1	std		Yes				7828		CLPLMS-5
6	VSTD200SC	21-Dec-2015 16:33:30	51221B06.D	Ical	6	VSTD200SC	Soil	1	std		Yes				7829		CLPLMS-5
7	VIBLK	21-Dec-2015 16:55:30	51221B07.D	Client		VIBLK	Soil	1	std		Yes						CLPLMS-5
8	VBLKSC	21-Dec-2015 17:18:30	51221B08.D	BLANK		VBLKSC	Soil	1	std		Yes						CLPLMS-5
9	QL11018-010	21-Dec-2015 17:45:30	51221B09.D	Client		F6R14	Soil	1	std		Yes						CLPLMS-5
10	QL11018-013	21-Dec-2015 18:08:30	51221B10.D	Client		F6R17	Soil	1	std		Yes						CLPLMS-5
11	QL11018-019	21-Dec-2015 18:31:30	51221B11.D	Client		F6R19	Soil	1	std		Yes						CLPLMS-5
12	QL11018-021	21-Dec-2015 18:53:30	51221B12.D	Client		F6R21	Soil	1	std		Yes						CLPLMS-5
13	QL12004-009	21-Dec-2015 19:15:30	51221B13.D	Client		F6R28	Soil	1	std		Yes						CLPLMS-5
14	QL11018-011	21-Dec-2015 19:37:30	51221B14.D	Client		F6R15	Soil	1	std		Yes						CLPLMS-5
15	VIBLK066	21-Dec-2015 20:00:30	51221B15.D	Client		VIBLK066	Soil	1	std		Yes						CLPLMS-5
16	QL11018-020	21-Dec-2015 20:22:30	51221B16.D	Client		F6R20	Soil	1	std		Yes						CLPLMS-5
17	VIBLK067	21-Dec-2015 20:45:30	51221B17.D	Client		VIBLK067	Soil	1	std		Yes						CLPLMS-5
18	QL11018-023	21-Dec-2015 21:07:30	51221B18.D	Client		VHBLK01	Soil	1	std		Yes						CLPLMS-5
19	QL04012-006	21-Dec-2015 21:29:30	51221B19a.D	Client		VHBLK01	Soil	1	std		Yes						CLPLMS-5
19	QL12004-010	21-Dec-2015 21:29:30	51221B19.D	Client		VHBLK01	Soil	1	std		Yes						CLPLMS-5
20	VSTD050S1	21-Dec-2015 21:52:30	51221B20.D	Ccv		VSTD050S1	Soil	1	std		Yes				7827		CLPLMS-5e
21	VSTD050SC	21-Dec-2015 22:14:30	51221B21.D	Client		VSTD050SC	Soil	1	std		Yes					NR-passes	CLPLMS-5e

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7804 Analyst: PAP Prep Date: 12/16/2015
Solv. Lot: NA Exp. Date: 12/17/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 5									
8260 Sec. Std	VOMS 14100	100	200	100	200	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	200	100	200	H2O	NA	12/15/2015	12/22/2015
L/M DMC Mix	SOMV 7784	100	200	100	200	H2O	NA	12/14/2015	1/13/2016
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7803 Analyst: PAP Prep Date: 12/16/2015
Solv. Lot: NA Exp. Date: 12/17/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 4									
8260 Sec. Std	VOMS 14100	100	100	100	100	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	100	100	100	H2O	NA	12/15/2015	12/22/2015
L/M DMC Mix	SOMV 7784	100	100	100	100	H2O	NA	12/14/2015	1/13/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7802 Analyst: PAP Prep Date: 12/16/2015
Solv. Lot: NA Exp. Date: 12/17/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 3									
8260 Sec. Std	VOMS 14100	100	50	100	50	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	50	100	50	H2O	NA	12/15/2015	12/22/2015
L/M DMC Mix	SOMV 7784	100	50	100	50	H2O	NA	12/14/2015	1/13/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7801 Analyst: PAP Prep Date: 12/16/2015
Solv. Lot: NA Exp. Date: 12/17/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 2									
8260 Sec. Std	VOMS 14100	100	10	100	10	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	10	100	10	H2O	NA	12/15/2015	12/22/2015
L/M DMC Mix	SOMV 7784	100	10	100	10	H2O	NA	12/14/2015	1/13/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7800 Analyst: PAP Prep Date: 12/16/2015
Solv. Lot: NA Exp. Date: 12/17/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 1									
8260 Sec. Std	VOMS 14100	100	5	100	5	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	5	100	5	H2O	NA	12/15/2015	12/22/2015
L/M DMC Mix	SOMV 7784	100	5	100	5	H2O	NA	12/14/2015	1/13/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7823 Analyst: ALL Prep Date: 12/20/2015
Solv. Lot: NA Exp. Date: 12/21/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 5									
8260 Sec. Std	VOMS 14100	100	200	100	200	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	200	100	200	H2O	NA	12/15/2015	12/22/2015
L/M DMC Mix	SOMV 7808	100	200	100	200	H2O	NA	12/17/2015	1/16/2016
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7822 Analyst: ALL Prep Date: 12/20/2015
Solv. Lot: NA Exp. Date: 12/21/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 4									
8260 Sec. Std	VOMS 14100	100	100	100	100	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	100	100	100	H2O	NA	12/15/2015	12/22/2015
L/M DMC Mix	SOMV 7808	100	100	100	100	H2O	NA	12/17/2015	1/16/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7821 Analyst: ALL Prep Date: 12/20/2015
Solv. Lot: NA Exp. Date: 12/21/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 3									
8260 Sec. Std	VOMS 14100	100	50	100	50	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	50	100	50	H2O	NA	12/15/2015	12/22/2015
L/M DMC Mix	SOMV 7808	100	50	100	50	H2O	NA	12/17/2015	1/16/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7820 Analyst: ALL Prep Date: 12/20/2015
Solv. Lot: NA Exp. Date: 12/21/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 2									
8260 Sec. Std	VOMS 14100	100	10	100	10	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	10	100	10	H2O	NA	12/15/2015	12/22/2015
L/M DMC Mix	SOMV 7808	100	10	100	10	H2O	NA	12/17/2015	1/16/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7819 Analyst: ALL Prep Date: 12/20/2015
Solv. Lot: NA Exp. Date: 12/21/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 1									
8260 Sec. Std	VOMS 14100	100	5	100	5	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	5	100	5	H2O	NA	12/15/2015	12/22/2015
L/M DMC Mix	SOMV 7808	100	5	100	5	H2O	NA	12/17/2015	1/16/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7824 Analyst: PAP Prep Date: 12/21/2015
Solv. Lot: NA Exp. Date: 12/22/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM CCV									
8260 Sec. Std	VOMS 14100	100	50	100	50	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	50	100	50	H2O	NA	12/15/2015	12/22/2015
L/M DMC Mix	SOMV 7808	100	50	100	50	H2O	NA	12/17/2015	1/16/2016
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7829 Analyst: PAP Prep Date: 12/21/2015
Solv. Lot: NA Exp. Date: 12/22/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 5									
8260 Sec. Std	VOMS 14108	100	200	100	200	H2O	NA	12/21/2015	1/20/2016
8260 Sec. Gas Std	VOMS 14107	100	200	100	200	H2O	NA	12/21/2015	12/28/2015
L/M DMC Mix	SOMV 7808	100	200	100	200	H2O	NA	12/17/2015	1/16/2016
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7828 Analyst: PAP Prep Date: 12/21/2015
Solv. Lot: NA Exp. Date: 12/22/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 4									
8260 Sec. Std	VOMS 14108	100	100	100	100	H2O	NA	12/21/2015	1/20/2016
8260 Sec. Gas Std	VOMS 14107	100	100	100	100	H2O	NA	12/21/2015	12/28/2015
L/M DMC Mix	SOMV 7808	100	100	100	100	H2O	NA	12/17/2015	1/16/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7827 Analyst: PAP Prep Date: 12/21/2015
Solv. Lot: NA Exp. Date: 12/22/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 3									
8260 Sec. Std	VOMS 14108	100	50	100	50	H2O	NA	12/21/2015	1/20/2016
8260 Sec. Gas Std	VOMS 14107	100	50	100	50	H2O	NA	12/21/2015	12/28/2015
L/M DMC Mix	SOMV 7808	100	50	100	50	H2O	NA	12/17/2015	1/16/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7826 Analyst: PAP Prep Date: 12/21/2015
Solv. Lot: NA Exp. Date: 12/22/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 2									
8260 Sec. Std	VOMS 14108	100	10	100	10	H2O	NA	12/21/2015	1/20/2016
8260 Sec. Gas Std	VOMS 14107	100	10	100	10	H2O	NA	12/21/2015	12/28/2015
L/M DMC Mix	SOMV 7808	100	10	100	10	H2O	NA	12/17/2015	1/16/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7825 Analyst: PAP Prep Date: 12/21/2015
Solv. Lot: NA Exp. Date: 12/22/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
LM ICAL 1									
8260 Sec. Std	VOMS 14108	100	5	100	5	H2O	NA	12/21/2015	1/20/2016
8260 Sec. Gas Std	VOMS 14107	100	5	100	5	H2O	NA	12/21/2015	12/28/2015
L/M DMC Mix	SOMV 7808	100	5	100	5	H2O	NA	12/17/2015	1/16/2016
-	-	1000	50	100	500	-	-	-	-
-	-	1000	50	100	500	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

SHEALY ENVIRONMENTAL SERVICES

SOM02.3 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

SEMIVOLATILES

QC Summary

- Deuterated Monitoring Compound Recovery (Form 2)
- Matrix Spike/Matrix Spike Duplicate Recovery (Form 3) optional
- Laboratory Control Sample Recovery (Form 3) optional
- Method Blank Summary (Form 4)
- GC/MS Instrument Performance Check (Form 5)
- Internal Standard Area & RT Summary (Form 8)

Sample Data

Standards Data

- Initial Calibration (Form 6)
- Continuing Calibration Verification Data (Form 7)

Raw QC Data

- DFTPP Data
- Blank Data
- MS/MSD Data (optional)
- LCS Data (optional)

Miscellaneous Data

- Run Logs
- Standard Preparation Logs

SEMIVOLATILE QC SUMMARY

Includes:

Deuterated Monitoring Compound Recovery (Form 2)

Matrix Spike/Matrix Spike Duplicate (Form 3A)

Laboratory Control Sample Recovery (From 3B)

Method Blank Summary (Form 4)

GC/MS Instrument Performance Check (Form 5)

Internal Standard Area and RT Summary (Form 8)

Deuterated Monitoring Compound Recovery

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R18

AnalyticalMethod: SVOA Level: LOW

Matrix: Soil

EPA SAMPLE NO.	DMC1	DMC2	DMC3	DMC4	DMC5	DMC6	DMC7	DMC8	DMC9
F6R18	15 *	55	47	58	58	41	53	51	56
F6R20	11 D	52	48	51	56	40	45	59	49
F6R21	12 D	47	43	49	53	41	44	46	46
F6R23	0 D	0 D	56	0 D	0 D	1137 D	0 D	0 D	0 D
F6R24	18 D	46	49	48	48	194 D	59	43	53
F6R25	17 D	53	84	54	59	351 D	66	46	57
F6R26	15 D	46	57	47	49	198 D	52	39	46
F6R27	14 D	49	47	52	53	40	47	43	47
F6R28	17 *	62	54	66	66	40	59	57	63
SBLK12	28 *	65	58	68	71	44	62	58	64

	QC LIMITS
DMC1 = 1,4-Dioxane-d8	40-110
DMC2 = Phenol-d5	10-130
DMC3 = Bis-(2-chloroethyl)ether-d8	10-150
DMC4 = 2-Chlorophenol-d4	15-120
DMC5 = 4-Methylphenol-d8	10-140
DMC6 = 4-Chloroaniline-d4	1-145
DMC7 = Nitrobenzene-d5	10-135
DMC8 = 2-Nitrophenol-d4	10-120
DMC9 = 2,4-Dichlorophenol-d3	10-140

* Values outside of contract required QC limits
D DMC diluted out

FORM 2B-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R18

AnalyticalMethod: SVOA Level: LOW

Matrix: Soil

EPA SAMPLE NO.	DMC10	DMC11	DMC12	DMC13	DMC14	DMC15	DMC16	DMC17	TOT OUT
F6R18	72	64	61	62	49	74	90	72	1
F6R20	62	59	48	59	28	96	76	61	0
F6R21	57	53	45	52	28	81	72	58	0
F6R23	79	77	360 D	86	322 D	97	85	70	0
F6R24	64	58	89	62	0 D	73	75	59	0
F6R25	72	70	600 D	72	96	79	79	62	0
F6R26	69	61	176 D	64	69	71	71	56	0
F6R27	59	59	90	56	43	67	74	57	0
F6R28	74	69	64	67	51	74	90	72	1
SBLK12	82	71	66	69	57	85	99	81	1

	QC LIMITS
DMC10 = Dimethylphthalate-d6	10-145
DMC11 = Acenaphthylene-d8	15-120
DMC12 = 4-Nitrophenol-d4	10-150
DMC13 = Fluorene-d10	20-140
DMC14 = 4,6-Dinitro-2-methylphenol-d2	10-130
DMC15 = Anthracene-d10	10-150
DMC16 = Pyrene-d10	10-130
DMC17 = Benzo(a)pyrene-d12	10-140

* Values outside of contract required QC limits
D DMC diluted out

Method Blank Summary

EPA SAMPLE NO.

SBLK12

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92512-001
Instrument ID: Agilent MSD12
Lab File ID: 12122205
Extraction Type: SONC
Date Extracted: 12/21/2015
GC Column(1): Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/22/2015
GC Column(2): ID: (mm)
Time Analyzed: 11:14
Heated Purge:(Y/N) Cleanup:(Y/N) Y
Cleanup Types: GPC

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R18	QL12004-001	12122309	12/23/2015
F6R20	QL12004-002	12122207	12/22/2015
F6R21	QL12004-003	12122310	12/23/2015
F6R23	QL12004-004	12122209	12/22/2015
F6R24	QL12004-005	12122210	12/22/2015
F6R25	QL12004-006	12122211	12/22/2015
F6R26	QL12004-007	12122212	12/22/2015
F6R27	QL12004-008	12122311	12/23/2015
F6R28	QL12004-009	12122312	12/23/2015

Instrument Performance Check

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPNF

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Lab File ID: 12121101

Instrument ID: Agilent MSD12 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/11/2015 Injection Time: 0813

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	58.0	
68	Less than 2.0% of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	52.5	
70	Less than 2.0% of mass 69	0.3	(0.6) 1
127	10.0 - 80.0% of mass 198	54.7	
197	Less than 2.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	88.9	
199	5.0 - 9.0% of mass 198	6.7	
275	10.0 - 60.0% of mass 198	30.4	
365	Greater than 1.0% of mass 198	5.0	
441	Present, but less than mass 443	75.7	
442	50.0 - 100% of mass 198	112.5	
443	15.0 - 24.0% of mass 442	21.4	(19.0) 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD005NG	SSTD005NG	12121102	12/11/2015	0848
SSTD010NG	SSTD010NG	12121103	12/11/2015	0916
SSTD020NG	SSTD020NG	12121104	12/11/2015	0944
SSTD040NG	SSTD040NG	12121105	12/11/2015	1013
SSTD080NG	SSTD080NG	12121106	12/11/2015	1042

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPOU

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Lab File ID: 12122201

Instrument ID: Agilent MSD12 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/22/2015 Injection Time: 0825

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	54.3	
68	Less than 2.0% of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	50.4	
70	Less than 2.0% of mass 69	0.3	(0.5) 1
127	10.0 - 80.0% of mass 198	53.6	
197	Less than 2.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	85.0	
199	5.0 - 9.0% of mass 198	6.5	
275	10.0 - 60.0% of mass 198	30.2	
365	Greater than 1.0% of mass 198	4.6	
441	Present, but less than mass 443	73.3	
442	50.0 - 100% of mass 198	117.7	
443	15.0 - 24.0% of mass 442	22.7	(19.3) 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD020OV	SSTD020OV	12122202	12/22/2015	0847
SBLK12	QQ92512-001	12122205	12/22/2015	1114
F6R20	QL12004-002	12122207	12/22/2015	1211
F6R23	QL12004-004	12122209	12/22/2015	1308
F6R24	QL12004-005	12122210	12/22/2015	1337
F6R25	QL12004-006	12122211	12/22/2015	1405
F6R26	QL12004-007	12122212	12/22/2015	1434
SSTD020OW	SSTD020OW	12122215	12/22/2015	1600

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPOY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Lab File ID: 12122301

Instrument ID: Agilent MSD12 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/23/2015 Injection Time: 0833

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	54.0	
68	Less than 2.0% of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	50.2	
70	Less than 2.0% of mass 69	0.3	(0.6) 1
127	10.0 - 80.0% of mass 198	53.4	
197	Less than 2.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	84.8	
199	5.0 - 9.0% of mass 198	6.6	
275	10.0 - 60.0% of mass 198	30.2	
365	Greater than 1.0% of mass 198	4.5	
441	Present, but less than mass 443	75.5	
442	50.0 - 100% of mass 198	117.9	
443	15.0 - 24.0% of mass 442	22.4	(19.0) 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD020OZ	SSTD020OZ	12122302	12/23/2015	0851
F6R18	QL12004-001	12122309	12/23/2015	1213
F6R21	QL12004-003	12122310	12/23/2015	1241
F6R27	QL12004-008	12122311	12/23/2015	1310
F6R28	QL12004-009	12122312	12/23/2015	1338
SSTD020PA	SSTD020PA	12122321	12/23/2015	1759

Internal Standard & RT Summary

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: Low
EPA Sample No.: SSTD020OV
Lab File ID (Standard): 12122202
Instrument ID: Agilent MSD12
Init. Calib. Date(s): 12/11/2015 12/11/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/22/2015
Heated Purge: (Y/N)
Time Analyzed: 0847

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	409513	5.48	1724159	6.52	888026	8.00
UPPER LIMIT	819026	5.98	3448318	7.02	1776052	8.50
LOWER LIMIT	204757	4.98	862080	6.02	444013	7.50
EPA SAMPLE NO.						
F6R20	334014	5.47	1422903	6.51	749751	7.99
F6R23	330512	5.47	1612350	6.52	1089517	8.00
F6R24	411761	5.47	1780417	6.52	1021303	8.00
F6R25	389760	5.48	1831482	6.52	1077483	8.00
F6R26	415041	5.47	1847577	6.52	1032160	8.00
SBLK12	336086	5.47	1413508	6.52	752751	7.99

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

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

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: Low
EPA Sample No.: SSTD020OV
Lab File ID (Standard): 12122202
Instrument ID: Agilent MSD12
Init. Calib. Date(s): 12/11/2015 12/11/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/22/2015
Heated Purge: (Y/N)
Time Analyzed: 0847

	IS4 AREA	RT	IS5 AREA	RT	IS6 AREA	RT
12 HOUR STD	1604568	9.27	1881370	12.18	1740539	14.46
UPPER LIMIT	3209136	9.77	3762740	12.68	3481078	14.96
LOWER LIMIT	802284	8.77	940685	11.68	870270	13.96
EPA SAMPLE NO.						
F6R20	1253422	9.26	1462227	12.17	1438537	14.44
F6R23	2085210	9.27	2517717	12.19	2270142	14.47
F6R24	1991983	9.27	2477045	12.18	2312143	14.47
F6R25	2017940	9.27	2280890	12.17	2224007	14.46
F6R26	1940859	9.27	2159198	12.17	2161826	14.46
SBLK12	1326223	9.27	1513957	12.17	1457127	14.45

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

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

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: Low
EPA Sample No.: SSTD020OZ
Lab File ID (Standard): 12122302
Instrument ID: Agilent MSD12
Init. Calib. Date(s): 12/11/2015 12/11/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/23/2015
Heated Purge: (Y/N)
Time Analyzed: 0851

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	535083	5.47	2227358	6.52	1146618	8.00
UPPER LIMIT	1070166	5.97	4454716	7.02	2293236	8.50
LOWER LIMIT	267542	4.97	1113679	6.02	573309	7.50
EPA SAMPLE NO.						
F6R18	397240	5.47	1630651	6.51	872651	7.99
F6R21	414214	5.47	1711727	6.51	913043	7.99
F6R27	392364	5.47	1662890	6.51	906042	8.00
F6R28	385410	5.47	1591973	6.51	849968	8.00

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

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

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: Low
EPA Sample No.: SSTD020OZ
Lab File ID (Standard): 12122302
Instrument ID: Agilent MSD12
Init. Calib. Date(s): 12/11/2015 12/11/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/23/2015
Heated Purge: (Y/N)
Time Analyzed: 0851

	IS4 AREA	RT	IS5 AREA	RT	IS6 AREA	RT
12 HOUR STD	2050956	9.27	2385768	12.18	2175537	14.47
UPPER LIMIT	4101912	9.77	4771536	12.68	4351074	14.97
LOWER LIMIT	1025478	8.77	1192884	11.68	1087769	13.97
EPA SAMPLE NO.						
F6R18	1533488	9.27	1717931	12.17	1730774	14.46
F6R21	1459203	9.26	1738441	12.17	1675534	14.45
F6R27	1653910	9.27	1749334	12.17	1717755	14.45
F6R28	1559947	9.27	1721474	12.17	1708118	14.46

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

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

SEMIVOLATILE SAMPLE DATA

Sample data shall be arranged in packets with the Volatile Analysis Data Sheet (Form 1A-OR, 1B-OR), followed by the raw data for the VOA samples. These sample packets shall be placed in increasing EPA sample number order, considering both letters and numbers.

-Target Compound Results (Form 1A-OR)
-Tentatively Identified Compounds (Form 1B-OR)
List up to 30 TICs
-Quantitation Report showing calculation for TCL Analytes
-Quantitation Report showing calculation for TICs
-Reconstructed Total Ion Chromatograms
-Raw Spectra & background subtracted mass spectra of TCL Analytes identified in the sample
-Mass Spectra of organic compounds not listed in Exhibit C with associated best match spectra
-Printout of Manual Integrations

Spectra shall be labeled as follows:

EPA Sample ID number, Sample ID number, Lab file ID, Date & Time of analysis and Instrument ID.
The compound name must be clearly marked.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R18

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-001
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122309
% Solids: 87.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	79	U
100-52-7	Benzaldehyde	370	U
108-95-2	Phenol	370	U
111-44-4	Bis(2-Chloroethyl) ether	370	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-Oxybis(1-chloropropane)	370	U
98-86-2	Acetophenone	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	370	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclo-pentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R18

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-001
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122309
% Solids: 87.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	190	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
7005-72-3	4-Chlorophenyl-phenyl ether	190	U
86-73-7	Fluorene	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
101-55-3	4-Bromophenyl-phenylether	190	U
86-30-6	N-Nitrosodiphenylamine	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	370	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R18

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-001
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122309
% Solids: 87.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R18

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-001
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122309
% Solids: 87.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Y
Date Analyzed: 12/23/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 500 (uL)
Heated Purge: (Y/N)
Extraction Type: SONC
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types: GPC
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.52	250	J
02		Unknown-02	4.10	160	J
03					
04		Unknown-03	4.26	240	J
05		Unknown-04	5.95	88	J
06		Unknown-05	8.81	85	J
07	57-10-3	n-Hexadecanoic acid	9.61	140	NJ
08	112-80-1	Oleic Acid	10.30	2100	NJ
09	57-11-4	Octadecanoic acid	10.36	220	NJ
10		Unknown-06	16.79	88	J
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	120	J

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Lab Sample ID:	QL12004-001	Client Sample ID:	F6R18
Injection Date:	23-Dec-2015 12:13:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL12004-001		
Misc. Info:	92512		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	11
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.400	Weight of sample extracted (g)
M	13.000	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 14:13:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	796514	21.891	827.69	
108 1,4-Dioxane	88.0		3.333		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.312	0.005	15797	1.1870	44.879	eR
4 Phenol	94.0		5.133		ND			
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	465685	18.975	717.46	
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	554602	23.038	871.07	
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	397240	20.000	756.20	
10 2-Methylphenol	108.0		5.614		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.705	5.710	-0.005	617828	23.376	883.85	
14 4-Methylphenol	108.0		5.737		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.913	-0.005	300187	21.294	805.12	
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.170		ND			
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	329594	20.416	771.93	
19 2-Nitrophenol	139.0		6.186		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.367	-0.005	532548	22.471	849.64	
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.512	6.517	-0.005	1630651	20.000	756.20	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.539	6.544	-0.006	590999	16.543	625.48	
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.682	7.687	-0.005	1641762	28.803	1089.04	
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.869	7.874	-0.005	1926003	25.537	965.57	
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.992	7.997	-0.005	872651	20.000	756.20	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0	8.024	8.039	-0.015	338458	24.287	918.29	Q
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1317363	24.633	931.38	
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.462	8.472	-0.010	274261	19.650	742.97	Q
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.274	-0.006	1533488	20.000	756.20	
59 Phenanthrene	178.0		9.295		ND			
$ 103 Anthracene-d10	188.0	9.316	9.322	-0.006	2315389	29.616	1119.79	
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			

Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122309.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 104 Pyrene-d10	212.0	10.636	10.641	-0.005	2689190	35.876	1356.46	
64 Pyrene	202.0		10.663		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1717931	20.000	756.20	
70 Chrysene	228.0		12.222		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.814		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.322	14.322	0.000	2409793	28.722	1085.97	
75 Benzo(a)pyrene	252.0		14.375		ND			
* 76 Perylene-d12	264.0	14.456	14.466	-0.010	1730774	20.000	756.20	
77 Indeno(1,2,3-cd)pyrene	276.0		16.630		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Lab Sample ID:	QL12004-001	Client Sample ID:	F6R18
Injection Date:	23-Dec-2015 12:13:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL12004-001		
Misc. Info:	92512		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	11
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.400	Weight of sample extracted (g)
M	13.000	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 14:13:30

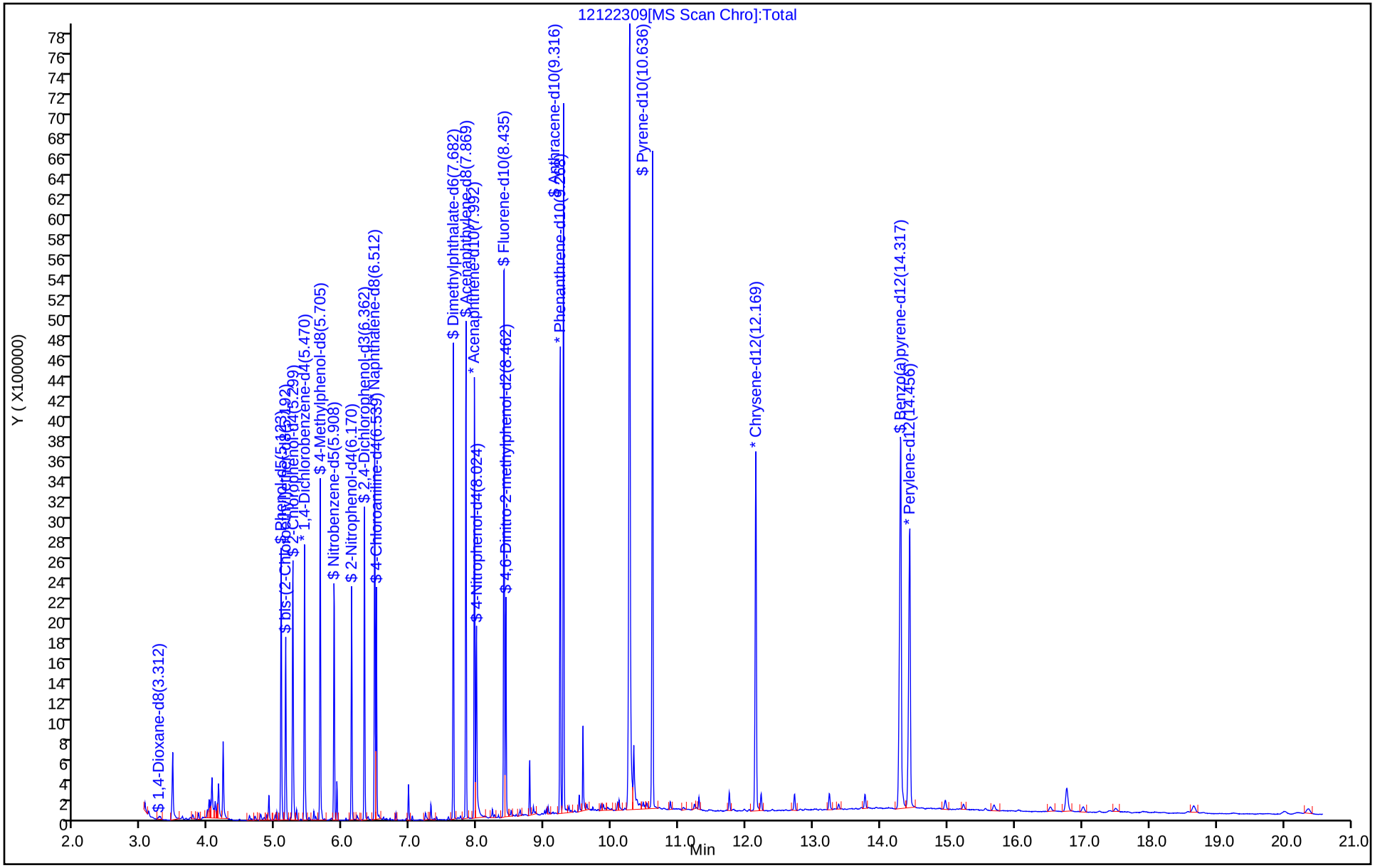
Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
3.515	872394	6.6109	249.96	8				
	Unknown							
4.097	549360	4.1630	157.40	8				
	Unknown Alkane							
4.193	431851	3.2725	123.73	8				
	Unknown							
4.263	842551	6.3847	241.41	8				
	Unknown							
5.951	307800	2.3325	88.191	8				
	Unknown							
8.814	465289	2.2421	84.776	58				
57-10-3	n-Hexadecanoic acid							
9.605	746493	3.5972	136.01	58	99	107548	C16H32O2	256
112-80-1	Oleic Acid							
10.299	11473188	55.287	2090.41	58	99	129338	C18H34O2	282
57-11-4	Octadecanoic acid							
10.358	1193640	5.7519	217.48	58	99	131259	C18H36O2	284
	Unknown							
16.785	584346	2.3273	87.995	76				

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.470	2639263	20.000
* 58 Phenanthrene-d10	9.268	4150394	20.000
* 76 Perylene-d12	14.456	5021675	20.000

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D				
Injection Date:	23-Dec-2015 12:13:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R18	Lab ID:	QL12004-001		
Sample Info:	12122315.b, QL12004-001				
Injection Vol.	1.00 uL	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



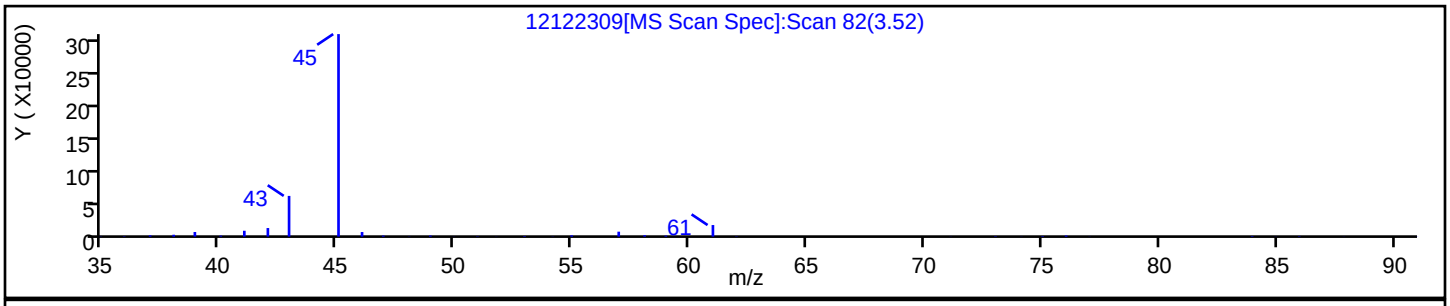
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

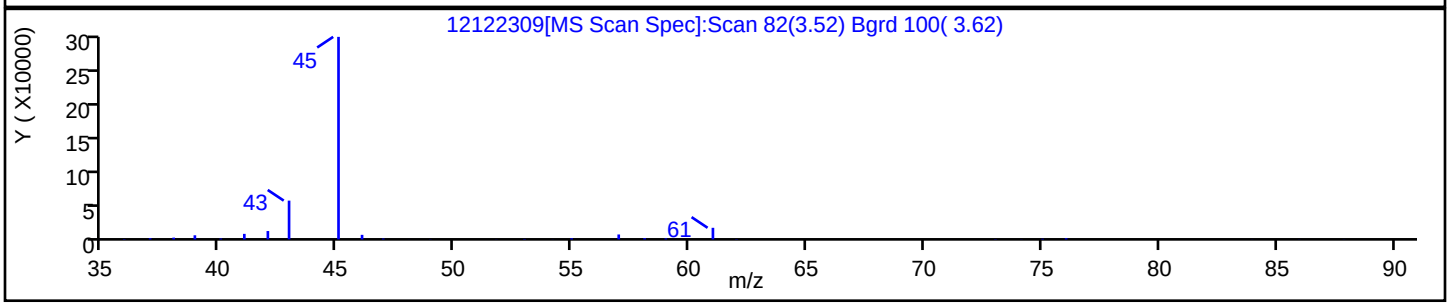
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Injection Date:	23-Dec-2015 12:13:30	Inst. ID:	msd12.i
Client ID:	F6R18	Lab ID:	QL12004-001
Sample Info:	12122315.b, QL12004-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 3.515

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





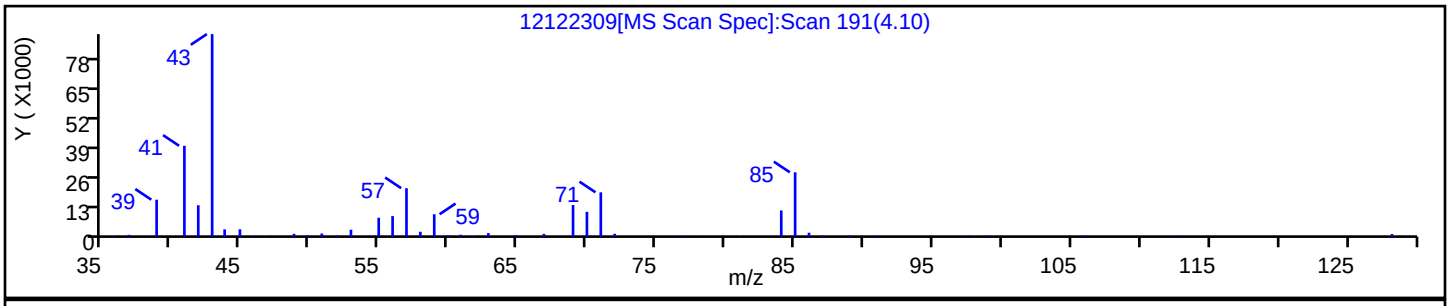
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

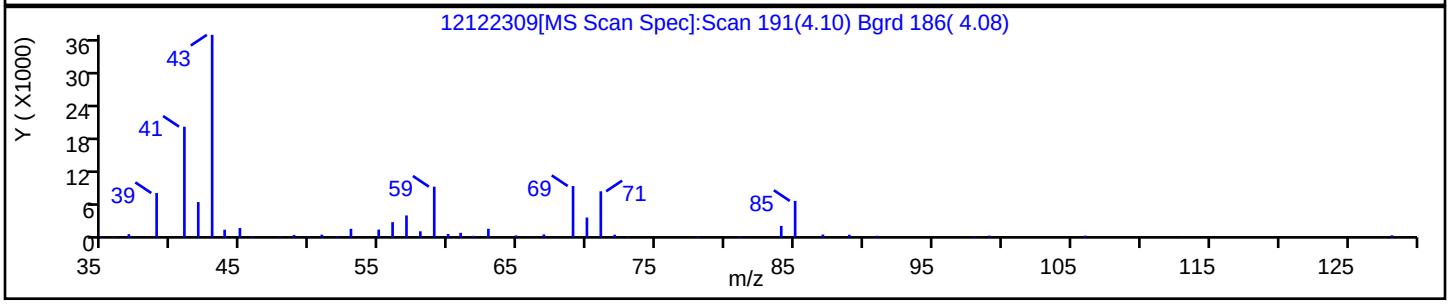
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Injection Date:	23-Dec-2015 12:13:30	Inst. ID:	msd12.i
Client ID:	F6R18	Lab ID:	QL12004-001
Sample Info:	12122315.b, QL12004-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.097

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





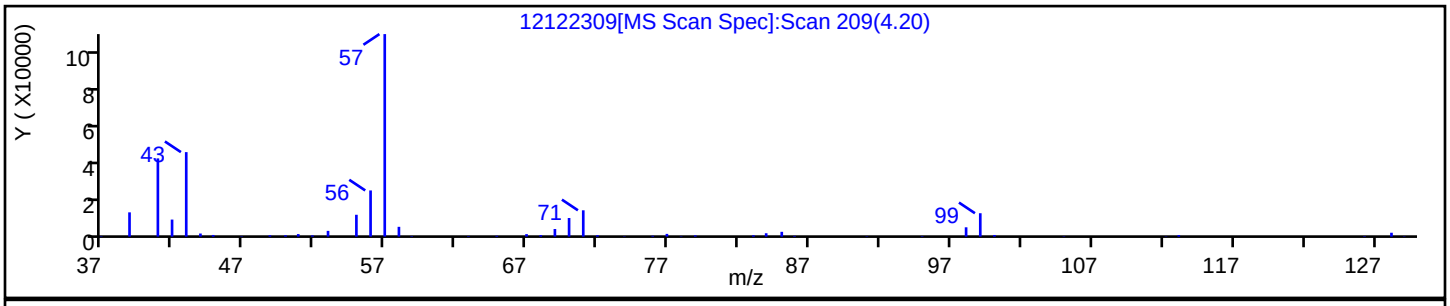
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

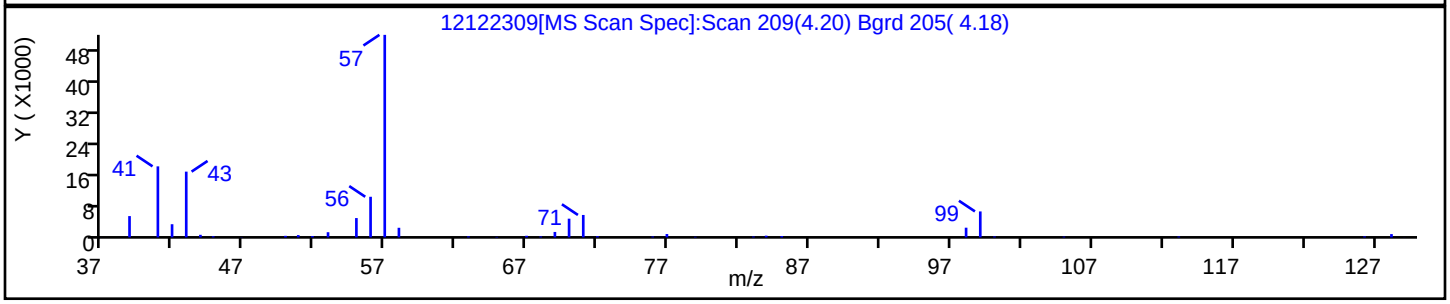
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Injection Date:	23-Dec-2015 12:13:30	Inst. ID:	msd12.i
Client ID:	F6R18	Lab ID:	QL12004-001
Sample Info:	12122315.b, QL12004-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.193

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





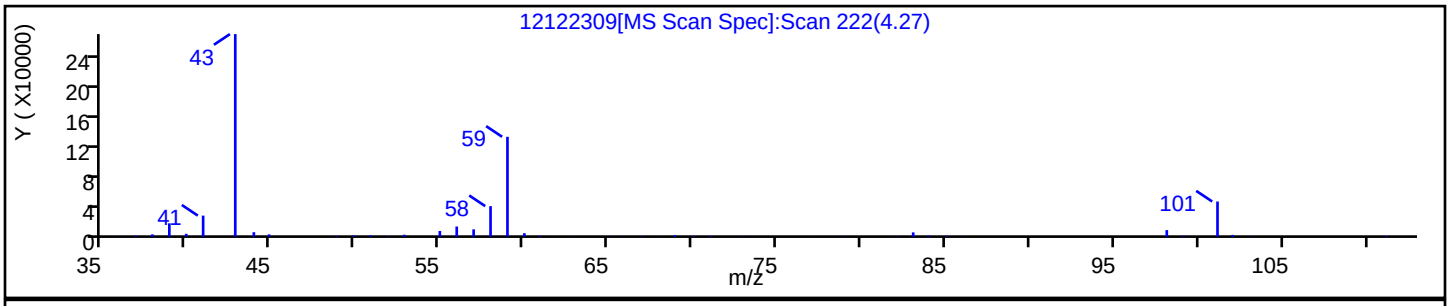
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

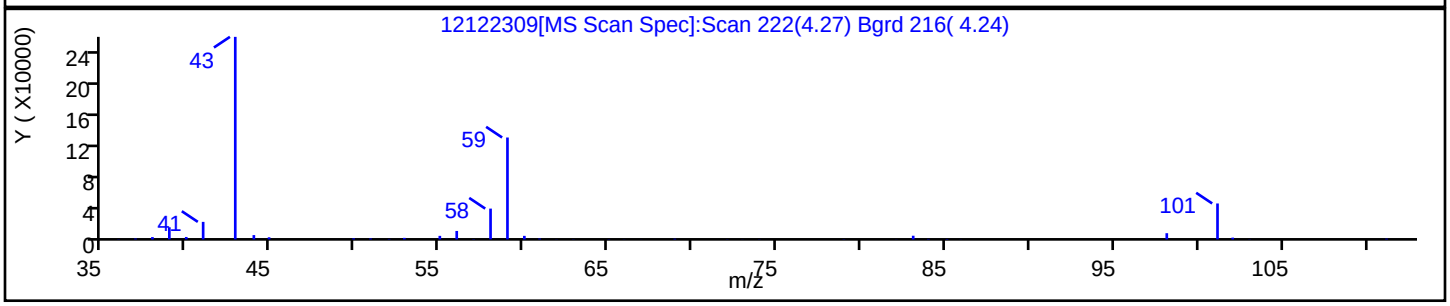
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Injection Date:	23-Dec-2015 12:13:30	Inst. ID:	msd12.i
Client ID:	F6R18	Lab ID:	QL12004-001
Sample Info:	12122315.b, QL12004-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.263

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





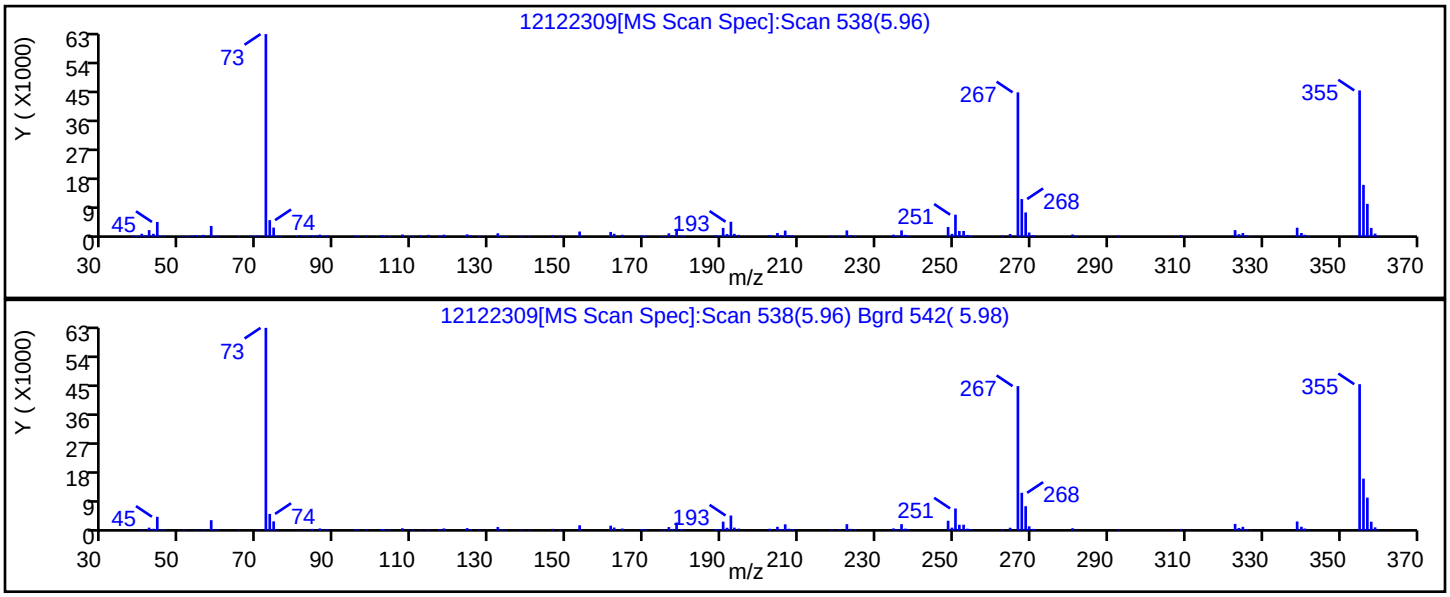
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Injection Date:	23-Dec-2015 12:13:30	Inst. ID:	msd12.i
Client ID:	F6R18	Lab ID:	QL12004-001
Sample Info:	12122315.b, QL12004-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.951

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



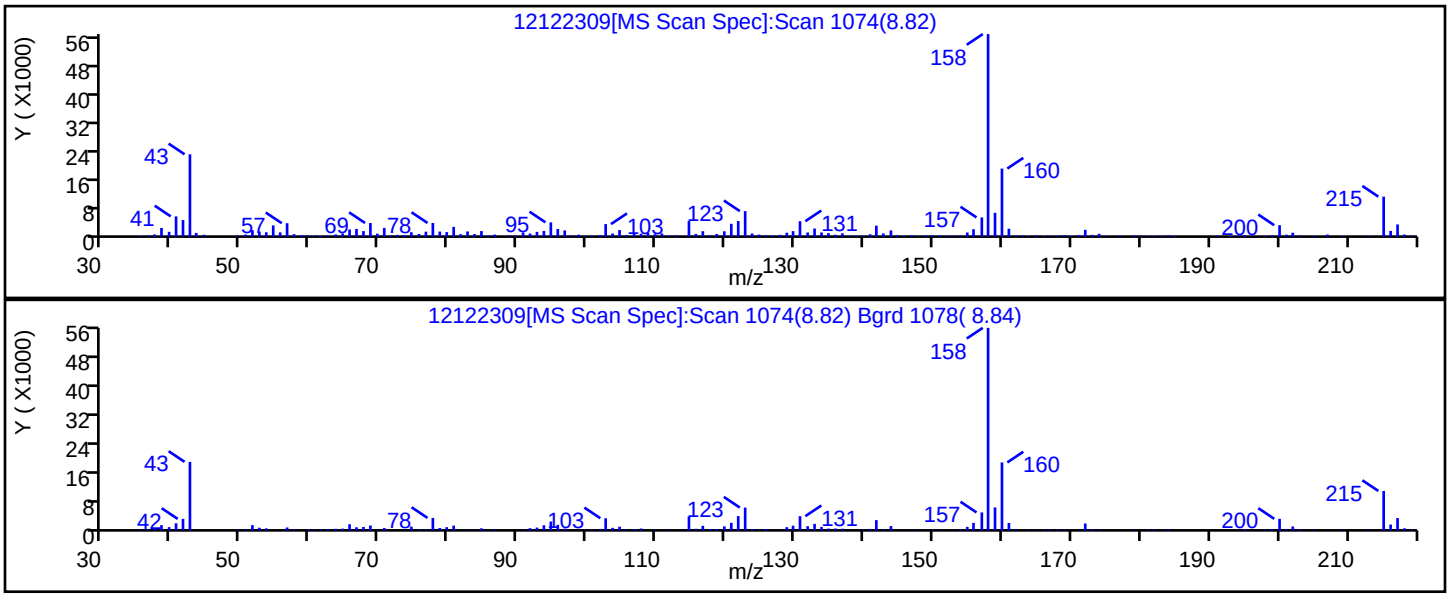
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Injection Date:	23-Dec-2015 12:13:30	Inst. ID:	msd12.i
Client ID:	F6R18	Lab ID:	QL12004-001
Sample Info:	12122315.b, QL12004-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.814

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



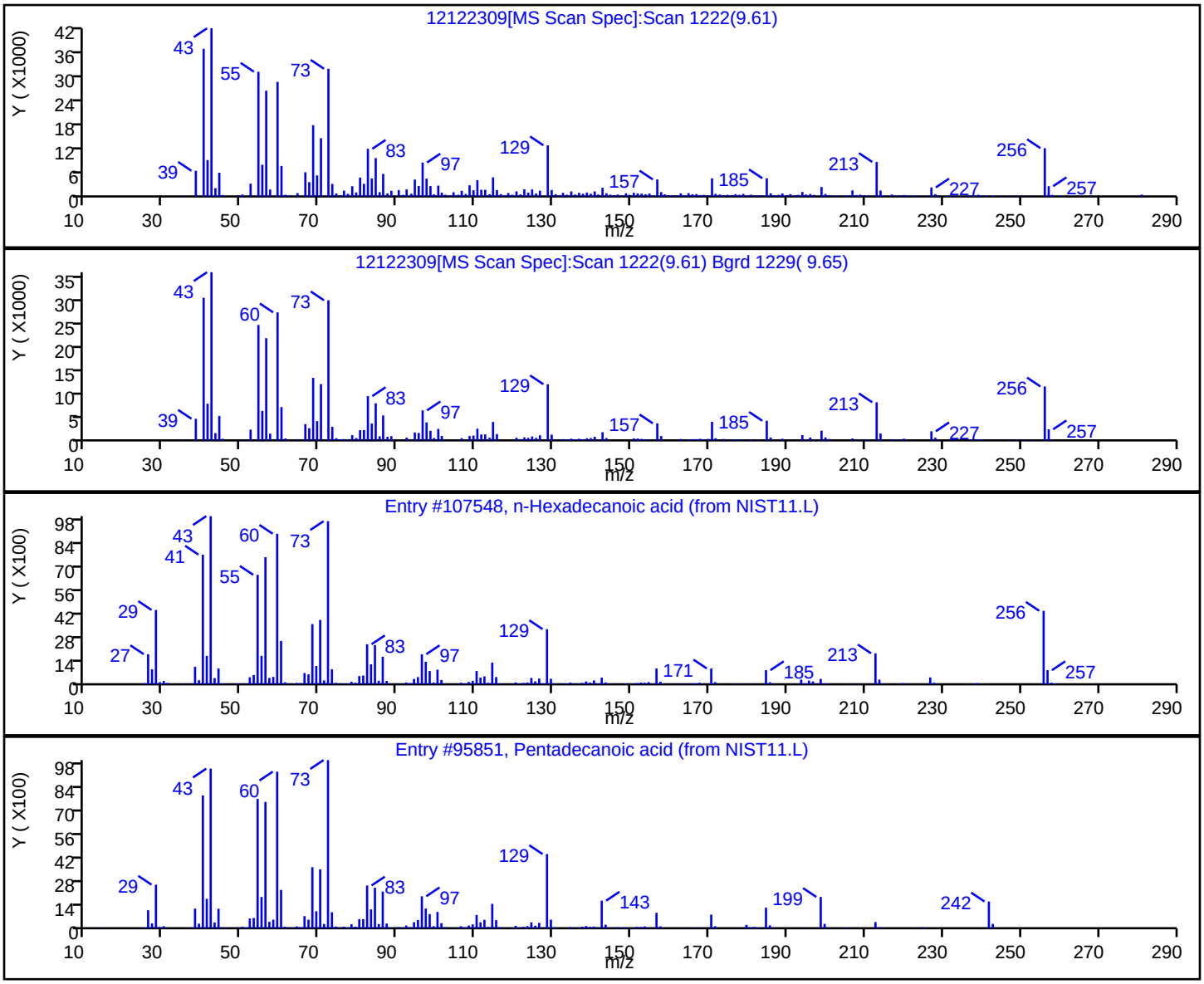
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Injection Date:	23-Dec-2015 12:13:30	Inst. ID:	msd12.i
Client ID:	F6R18	Lab ID:	QL12004-001
Sample Info:	12122315.b, QL12004-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.605

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
n-Hexadecanoic acid	57-10-3	NIST11	107548	C16H32O2	256	99
Pentadecanoic acid	1002-84-2	NIST11	95851	C15H30O2	242	87



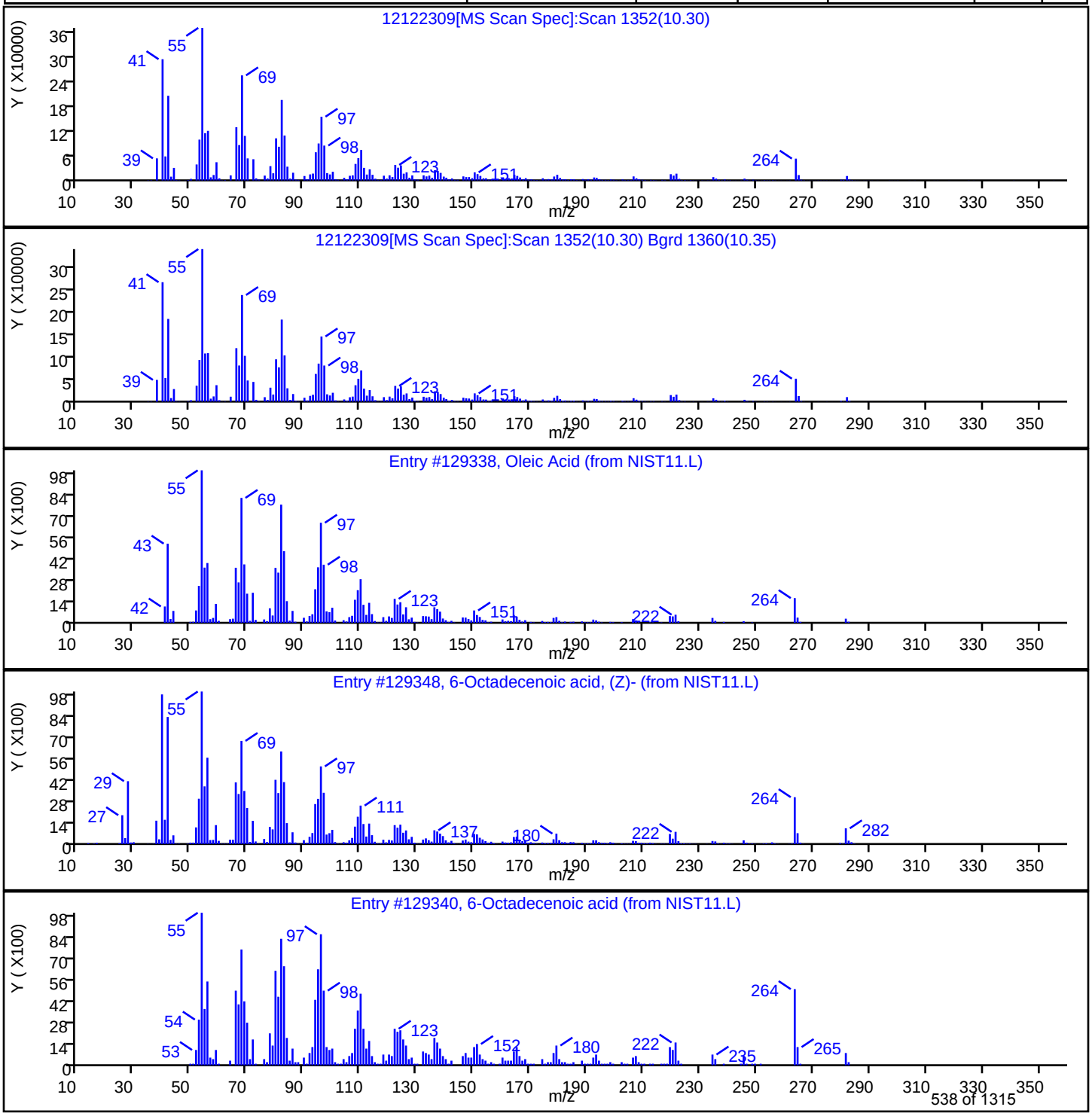
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Injection Date:	23-Dec-2015 12:13:30	Inst. ID:	msd12.i
Client ID:	F6R18	Lab ID:	QL12004-001
Sample Info:	12122315.b, QL12004-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.299

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Oleic Acid	112-80-1	NIST11	129338	C18H34O2	282	99
6-Octadecenoic acid, (Z)-	593-39-5	NIST11	129348	C18H34O2	282	99
6-Octadecenoic acid	1000336-66-8	NIST11	129340	C18H34O2	282	99



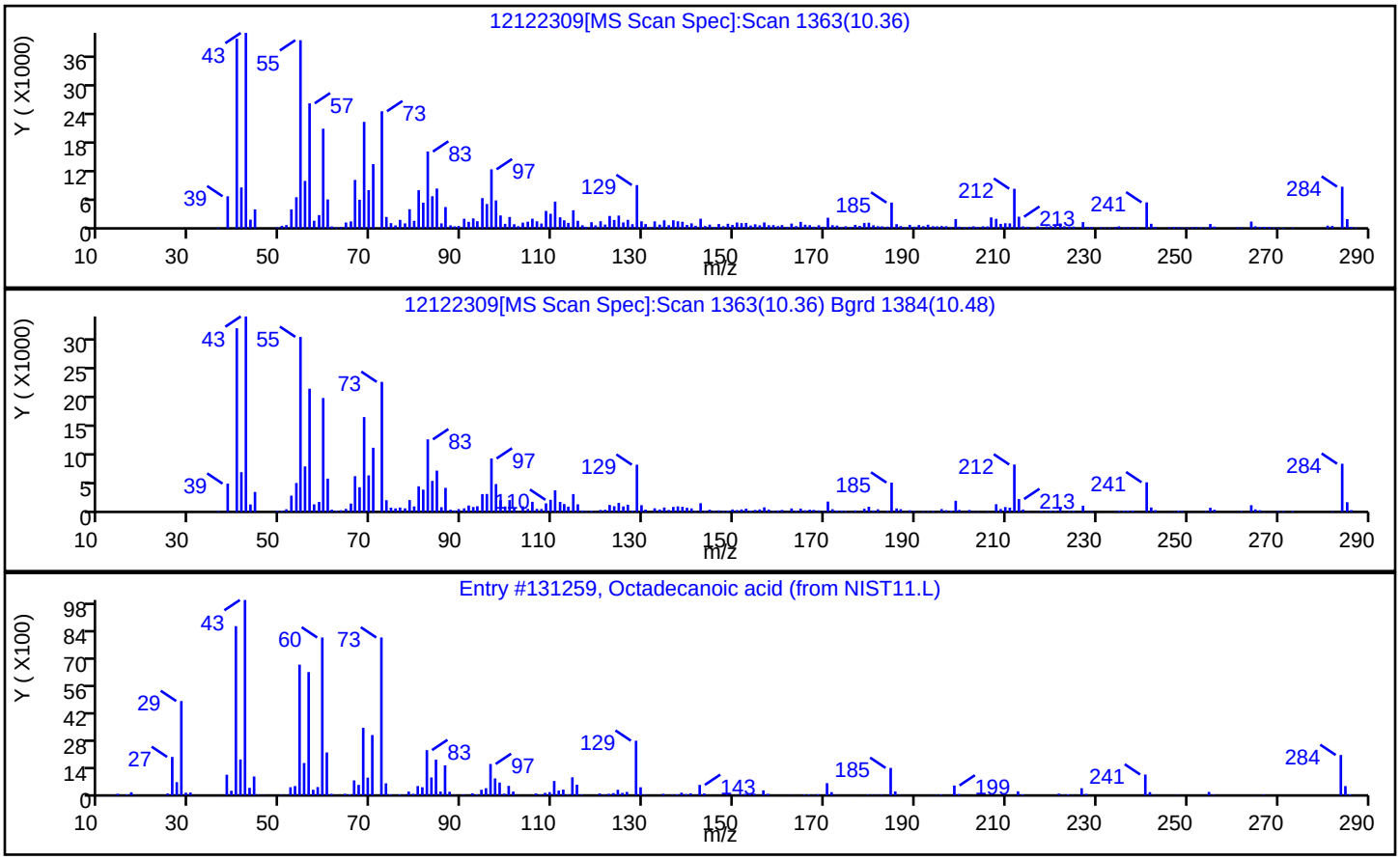
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Injection Date:	23-Dec-2015 12:13:30	Inst. ID:	msd12.i
Client ID:	F6R18	Lab ID:	QL12004-001
Sample Info:	12122315.b, QL12004-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.358

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Octadecanoic acid	57-11-4	NIST11	131259	C18H36O2	284	99



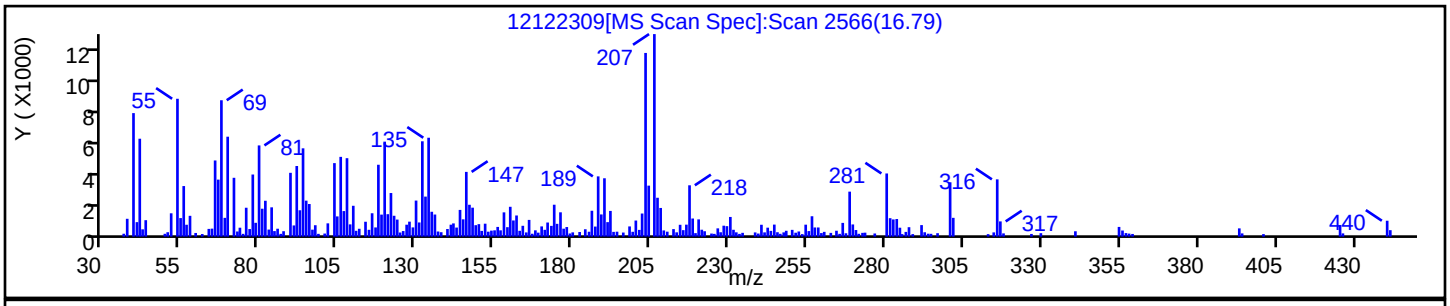
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

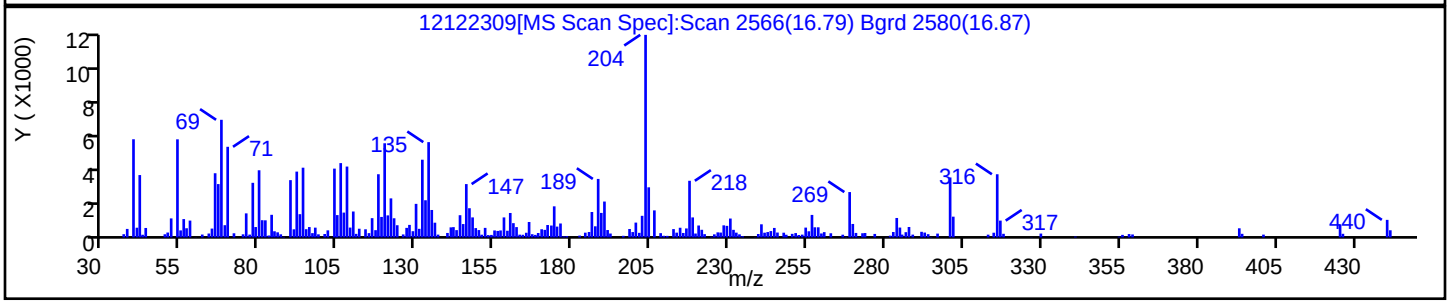
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122309.D		
Injection Date:	23-Dec-2015 12:13:30	Inst. ID:	msd12.i
Client ID:	F6R18	Lab ID:	QL12004-001
Sample Info:	12122315.b, QL12004-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 16.785

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R20

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-002
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 12122207
% Solids: 88.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1600	U
100-52-7	Benzaldehyde	7500	U
108-95-2	Phenol	5100	J
111-44-4	Bis(2-Chloroethyl) ether	7500	U
95-57-8	2-Chlorophenol	3800	U
95-48-7	2-Methylphenol	28000	
108-60-1	2,2'-Oxybis(1-chloropropane)	7500	U
98-86-2	Acetophenone	7500	U
106-44-5	4-Methylphenol	27000	
621-64-7	N-Nitroso-di-n propylamine	3800	U
67-72-1	Hexachloroethane	3800	U
98-95-3	Nitrobenzene	3800	U
78-59-1	Isophorone	3800	U
88-75-5	2-Nitrophenol	3800	U
105-67-9	2,4-Dimethylphenol	50000	
111-91-1	Bis(2-chloroethoxy)methane	3800	U
120-83-2	2,4-Dichlorophenol	3800	U
91-20-3	Naphthalene	3800	U
106-47-8	4-Chloroaniline	7500	U
87-68-3	Hexachlorobutadiene	3800	U
105-60-2	Caprolactam	7500	U
59-50-7	4-Chloro-3-methylphenol	3800	U
91-57-6	2-Methylnaphthalene	3800	U
77-47-4	Hexachlorocyclo-pentadiene	7500	U
88-06-2	2,4,6-Trichlorophenol	3800	U
95-95-4	2,4,5-Trichlorophenol	3800	U
92-52-4	1,1'-Biphenyl	3800	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R20

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-002
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 12122207
% Solids: 88.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	3800	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	3800	U
606-20-2	2,6-Dinitrotoluene	3800	U
208-96-8	Acenaphthylene	3800	U
99-09-2	3-Nitroaniline	7500	U
83-32-9	Acenaphthene	3800	U
51-28-5	2,4-Dinitrophenol	7500	U
100-02-7	4-Nitrophenol	7500	U
132-64-9	Dibenzofuran	3800	U
121-14-2	2,4-Dinitrotoluene	3800	U
84-66-2	Diethylphthalate	3800	U
95-94-3	1,2,4,5-Tetrachlorobenzene	3800	U
7005-72-3	4-Chlorophenyl-phenyl ether	3800	U
86-73-7	Fluorene	3800	U
100-01-6	4-Nitroaniline	7500	U
534-52-1	4,6-Dinitro-2-methylphenol	7500	U
101-55-3	4-Bromophenyl-phenylether	3800	U
86-30-6	N-Nitrosodiphenylamine	3800	U
118-74-1	Hexachlorobenzene	3800	U
1912-24-9	Atrazine	7500	U
87-86-5	Pentachlorophenol	7500	U
85-01-8	Phenanthrene	3800	U
120-12-7	Anthracene	3800	U
86-74-8	Carbazole	7500	U
84-74-2	Di-n-butylphthalate	3800	U
206-44-0	Fluoranthene	7500	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R20

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-002
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 12122207
% Solids: 88.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	3800	U
85-68-7	Butylbenzylphthalate	3800	U
91-94-1	3,3'-Dichlorobenzidine	7500	U
56-55-3	Benzo(a)anthracene	3800	U
218-01-9	Chrysene	3800	U
117-81-7	Bis(2-ethylhexyl)phthalate	3800	U
117-84-0	Di-n-octylphthalate	7500	U
205-99-2	Benzo(b)fluoranthene	3800	U
207-08-9	Benzo(k)fluoranthene	3800	U
50-32-8	Benzo(a)pyrene	3800	U
193-39-5	Indeno(1,2,3-cd)pyrene	3800	U
53-70-3	Dibenzo(a,h)anthracene	3800	U
191-24-2	Benzo(g,h,i)perylene	3800	U
58-90-2	2,3,4,6-Tetrachlorophenol	3800	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R20

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-002
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 12122207
% Solids: 88.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Y
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 500 (uL)
Heated Purge: (Y/N)
Extraction Type: SONC
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types: GPC
pH: Dilution Factor: 20.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	90-00-6	Phenol, 2-ethyl-	6.09	7800	NJ
02	123-07-9	Phenol, 4-ethyl-	6.26	31000	NJ
03	95-65-8	Phenol, 3,4-dimethyl-	6.42	8700	NJ
04	99-89-8	Phenol, 4-(1-methylethyl)-	6.58	14000	NJ
05	1515-95-3	Benzene, 1-ethyl-4-methoxy-	6.65	13000	NJ
06	3855-26-3	Phenol, 2-ethyl-4-methyl-	6.67	3500	NJ
07		Unknown-01	6.74	10000	J
08	1123-94-0	Phenol, 4-ethyl-3-methyl-	6.85	3800	NJ
09	3228-02-2	3-Methyl-4-isopropylphenol	6.93	2500	NJ
10	876-02-8	4-Hydroxy-3-	7.01	1700	NJ
11		Unknown-02	10.80	1500	J
12		Unknown-03	11.02	4200	J
13		Unknown-04	11.08	8000	J
14		Unknown-05	11.24	3600	J
15		Unknown-06	11.31	6700	J
16		Unknown-07	11.42	1700	J
17		Unknown-08	11.53	1900	J
18		Unknown-09	11.58	2000	J
19	36093-99-9	4-Thiazolemethanol, 2-(4-	15.30	1600	NJ
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Lab Sample ID:	QL12004-002	Client Sample ID:	F6R20
Injection Date:	22-Dec-2015 12:11:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL12004-002		
Misc. Info:	92512 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.200	Weight of sample extracted (g)
M	12.000	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 13:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 3 Phenol-d5	99.0	5.117	5.122	-0.005	31969	1.0449	786.37	Qe
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	476	0.04254	32.011	eR
4 Phenol	94.0	5.128	5.133	-0.005	227083	6.8314	5141.04	e
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	19846	0.96174	723.77	e
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.294	5.299	-0.005	20790	1.0271	772.95	e
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.475	-0.005	334014	20.000	15051	
10 2-Methylphenol	108.0	5.609	5.614	-0.005	831243	36.959	27814	
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.700	5.710	-0.010	25067	1.1280	848.86	Qe
14 4-Methylphenol	108.0	5.726	5.737	-0.011	882504	36.168	27218	
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.918	-0.010	11164	0.90754	682.98	e
17 Nitrobenzene	77.0		5.935		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	1778116	66.251	49858	
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	16515	1.1723	882.26	Qe
19 2-Nitrophenol	139.0		6.186		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.367	-0.005	20444	0.98859	743.98	e
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.512	6.517	-0.005	1422903	20.000	15051	
24 Naphthalene	128.0		6.538		ND			
$ 97 4-Chloroaniline-d4	131.0	6.538	6.544	-0.006	25084	0.80464	605.54	Qe
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0		7.104		ND			
30 Hexachlorocyclopentadiene	237.0		7.227		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.687	-0.011	60255	1.2304	925.95	e
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.874	-0.011	76067	1.1739	883.45	e
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.991	7.997	-0.006	749751	20.000	15051	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0	8.034	8.034	0.000	11391	0.95138	715.97	Qe
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.290		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0	8.429	8.435	-0.006	53774	1.1703	880.75	e
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.456	8.472	-0.016	6331	0.55495	417.63	Qe
51 4,6-Dinitro-2-methylphenol	198.0		8.477		ND			
52 N-Nitrosodiphenylamine	169.0		8.525		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.273	-0.010	1253422	20.000	15051	
59 Phenanthrene	178.0		9.295		ND			
$ 103 Anthracene-d10	188.0	9.311	9.321	-0.010	122381	1.9151	1441.26	e
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			

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Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122207.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 104 Pyrene-d10	212.0	10.625	10.641	-0.016	97585	1.5295	1151.05	e
64 Pyrene	202.0		10.662		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1462227	20.000	15051	
70 Chrysene	228.0		12.222		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.295	14.322	-0.027	84598	1.2131	912.96	e
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.445	14.461	-0.016	1438537	20.000	15051	
77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Lab Sample ID:	QL12004-002	Client Sample ID:	F6R20
Injection Date:	22-Dec-2015 12:11:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL12004-002		
Misc. Info:	92512 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.200	Weight of sample extracted (g)
M	12.000	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 13:58:30

Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
90-00-6	Phenol, 2-ethyl-							
6.090	1601081	10.326	7770.55	23	95	9907	C8H10O	122
123-07-9	Phenol, 4-ethyl-							
6.255	6365503	41.052	30894	23	94	9908	C8H10O	122
95-65-8	Phenol, 3,4-dimethyl-							
6.415	1798628	11.599	8729.30	23	97	9935	C8H10O	122
99-89-8	Phenol, 4-(1-methylethyl)-							
6.581	2933994	18.922	14240	23	91	16450	C9H12O	136
1515-95-3	Benzene, 1-ethyl-4-methoxy-							
6.645	2730272	17.608	13251	23	91	16470	C9H12O	136
3855-26-3	Phenol, 2-ethyl-4-methyl-							
6.672	722885	4.6619	3508.39	23	87	16433	C9H12O	136
	Unknown							
6.741	2106986	13.588	10226	23				
1123-94-0	Phenol, 4-ethyl-3-methyl-							
6.853	789455	5.0913	3831.47	23	90	16430	C9H12O	136
3228-02-2	3-Methyl-4-isopropylphenol							
6.928	523142	3.3738	2538.98	23	91	23730	C10H14O	150
876-02-8	4-Hydroxy-3-methylacetophenone							
7.014	353556	2.2801	1715.92	23	90	24469	C9H10O2	150
	Unknown							
10.801	410531	2.0310	1528.45	69				

RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
11.015	1123727	5.5594	4183.75	69				
	Unknown							
11.079	2140283	10.589	7968.48	69				
	Unknown							
11.239	955543	4.7273	3557.58	69				
	Unknown							
11.309	1802591	8.9179	6711.22	69				
	Unknown							
11.421	464552	2.2983	1729.57	69				
	Unknown							
11.533	519058	2.5679	1932.50	69				
	Unknown							
11.581	550042	2.7212	2047.86	69				
36093-99-9	4-Thiazolemethanol, 2-(4-chlorophenyl)-							
15.300	442471	2.1096	1587.63	76	90	81602	C10H8ClNOS	225

Quant. Compounds	RT	Response	Amount ng/ul
* 23 Naphthalene-d8	6.512	3101217	20.000
* 69 Chrysene-d12	12.169	4042649	20.000
* 76 Perylene-d12	14.445	4194743	20.000

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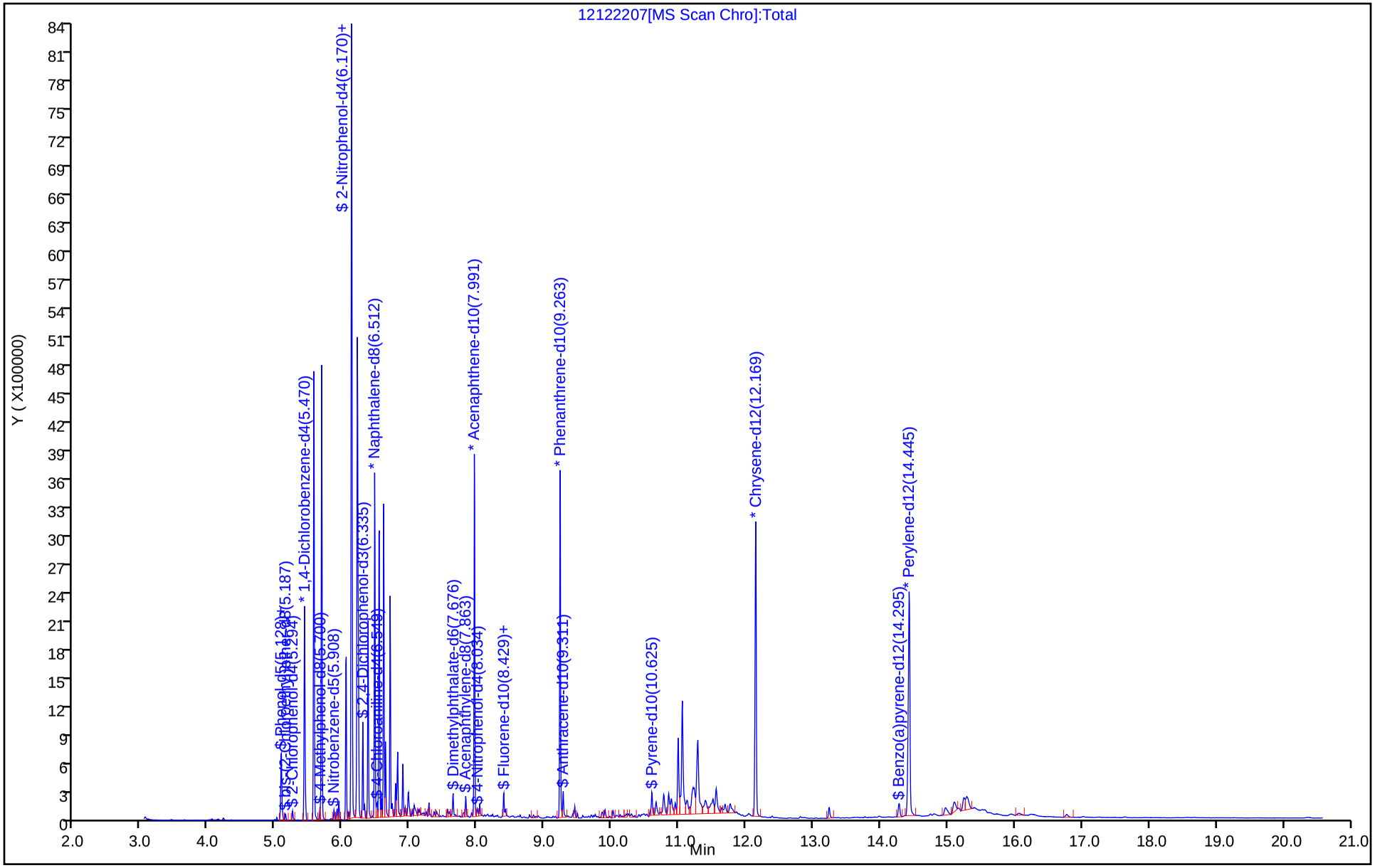
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D				
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R20	Lab ID:	QL12004-002		
Sample Info:	12122215.b, QL12004-002				
Injection Vol.	1.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



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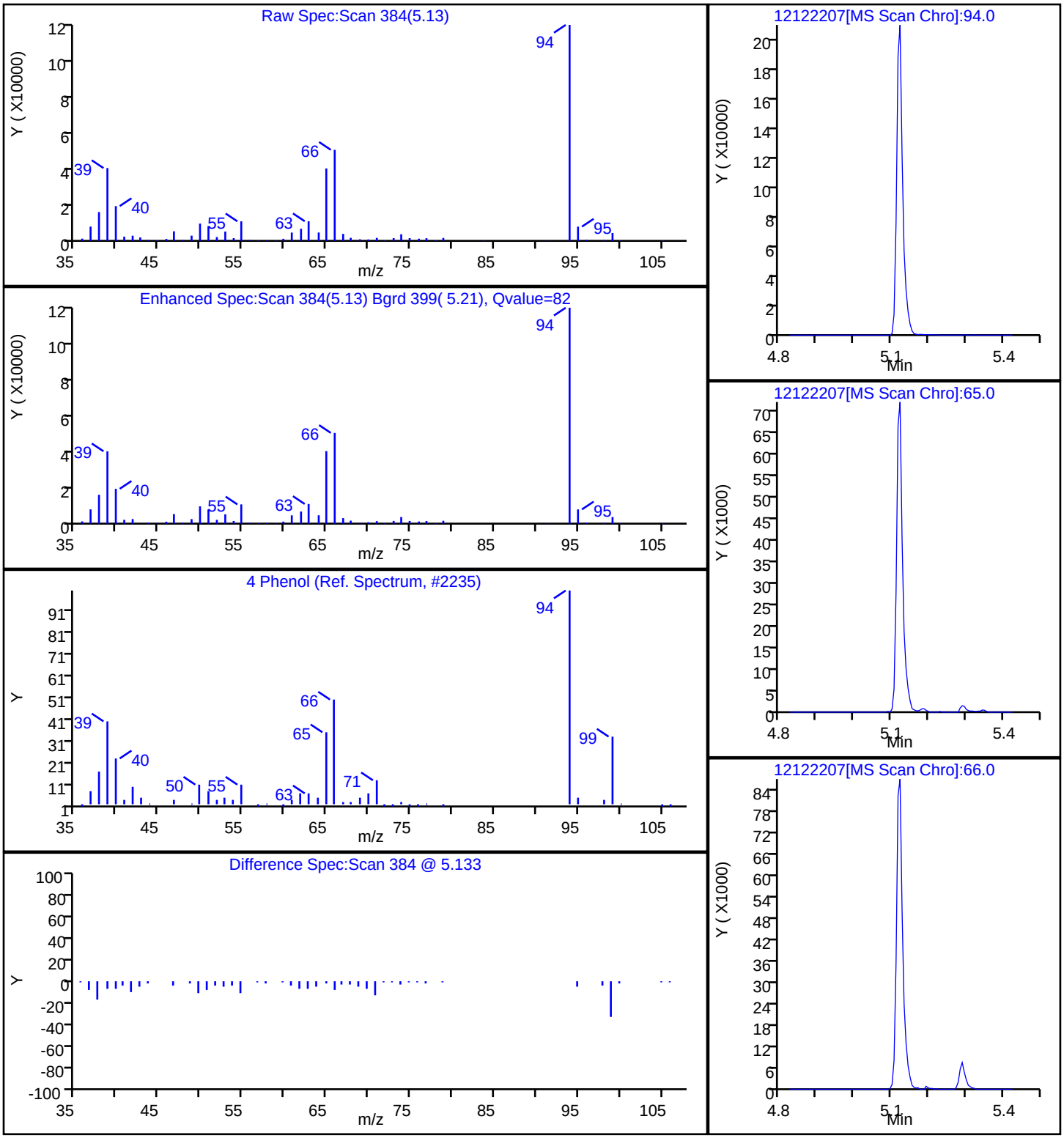
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

4 Phenol



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Shealy Environmental Services

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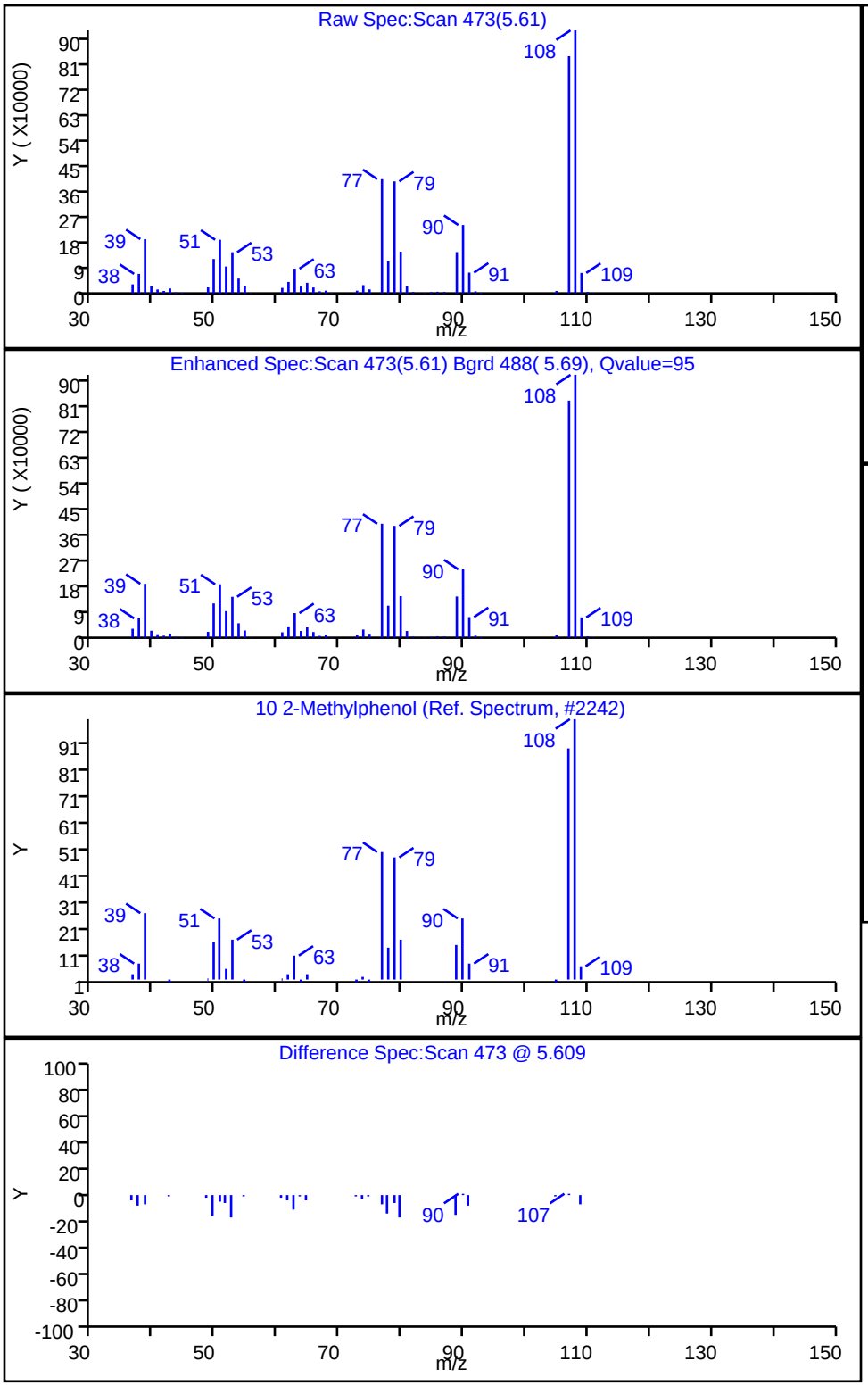
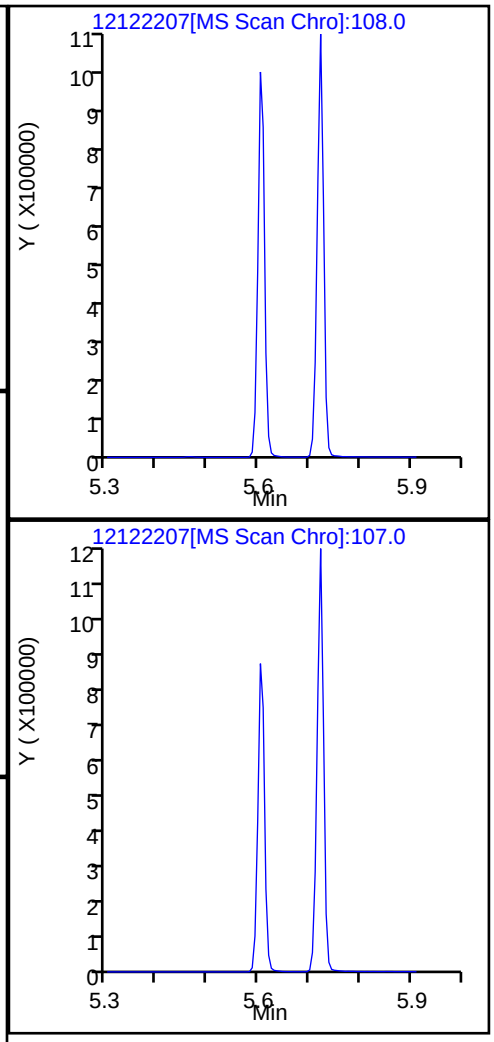
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

10 2-Methylphenol





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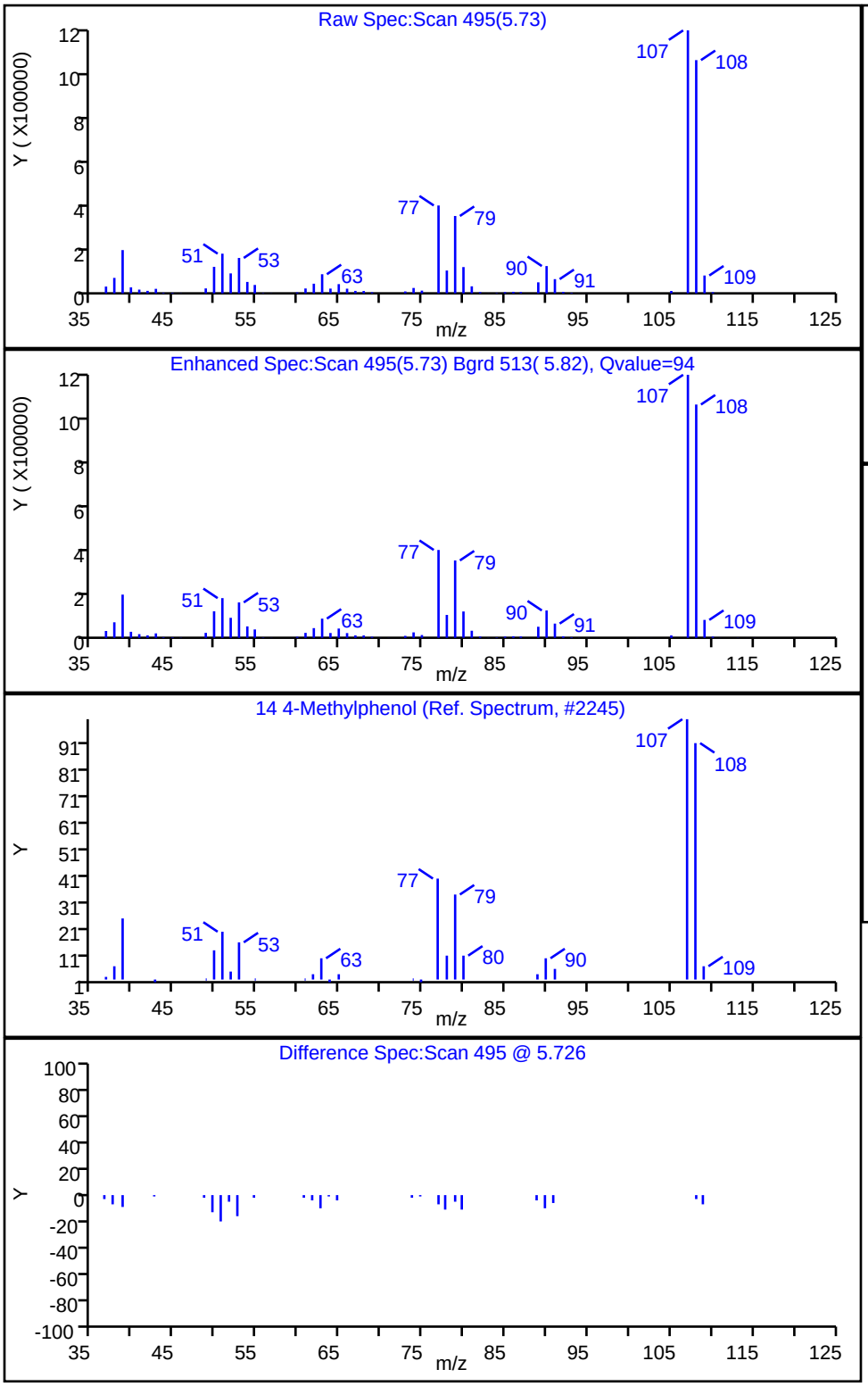
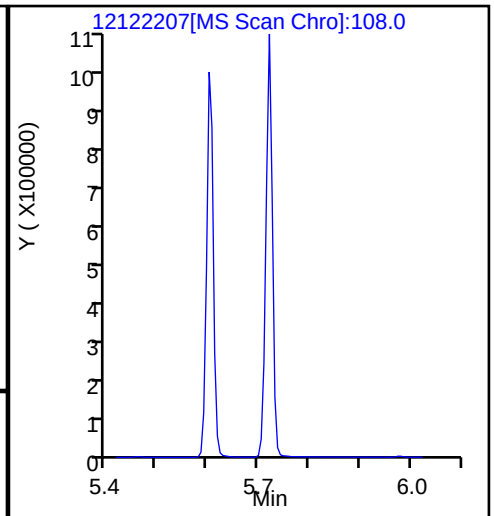
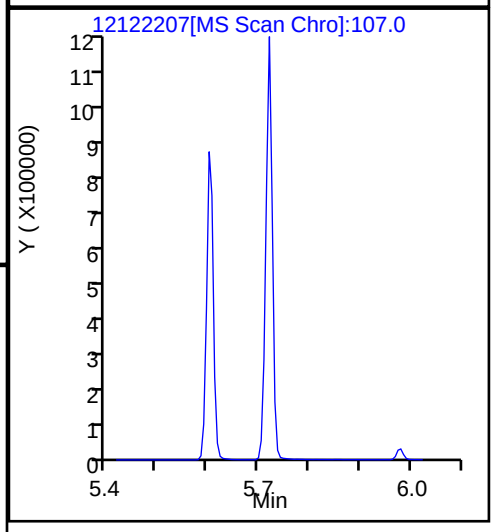
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

14 4-Methylphenol







Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

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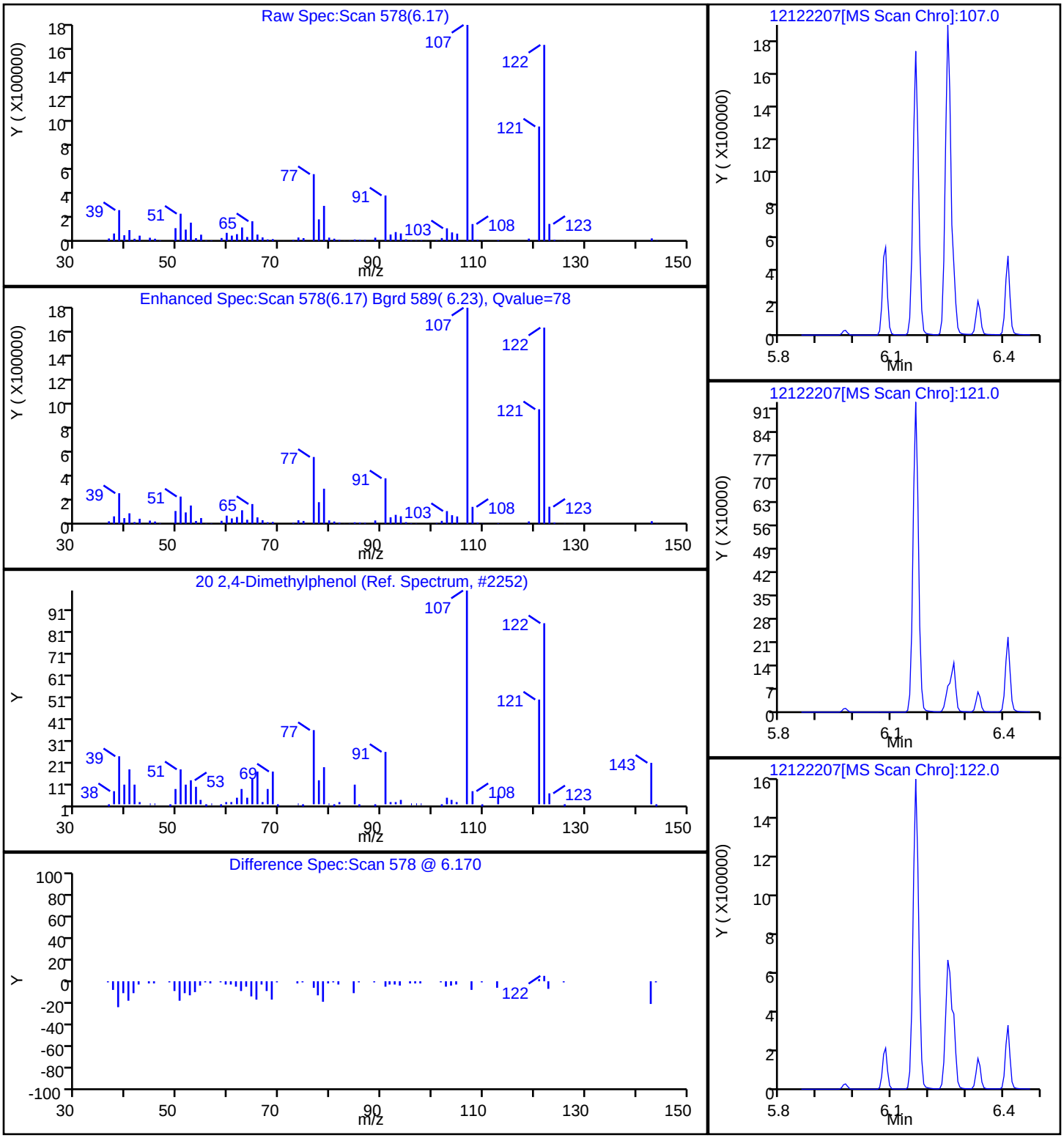
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

20 2,4-Dimethylphenol



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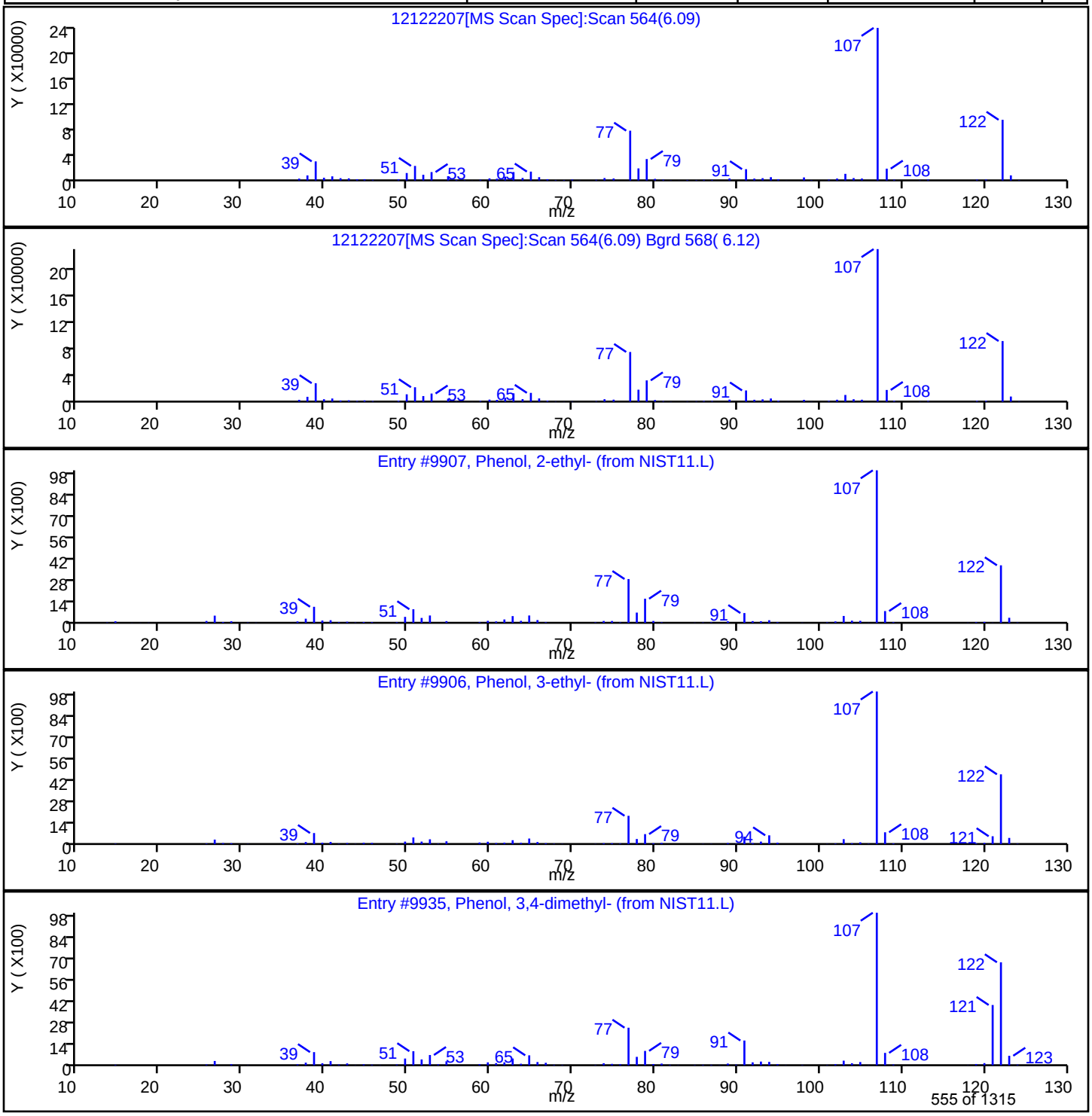
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.090

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	95
Phenol, 3-ethyl-	620-17-7	NIST11	9906	C8H10O	122	91
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9935	C8H10O	122	91



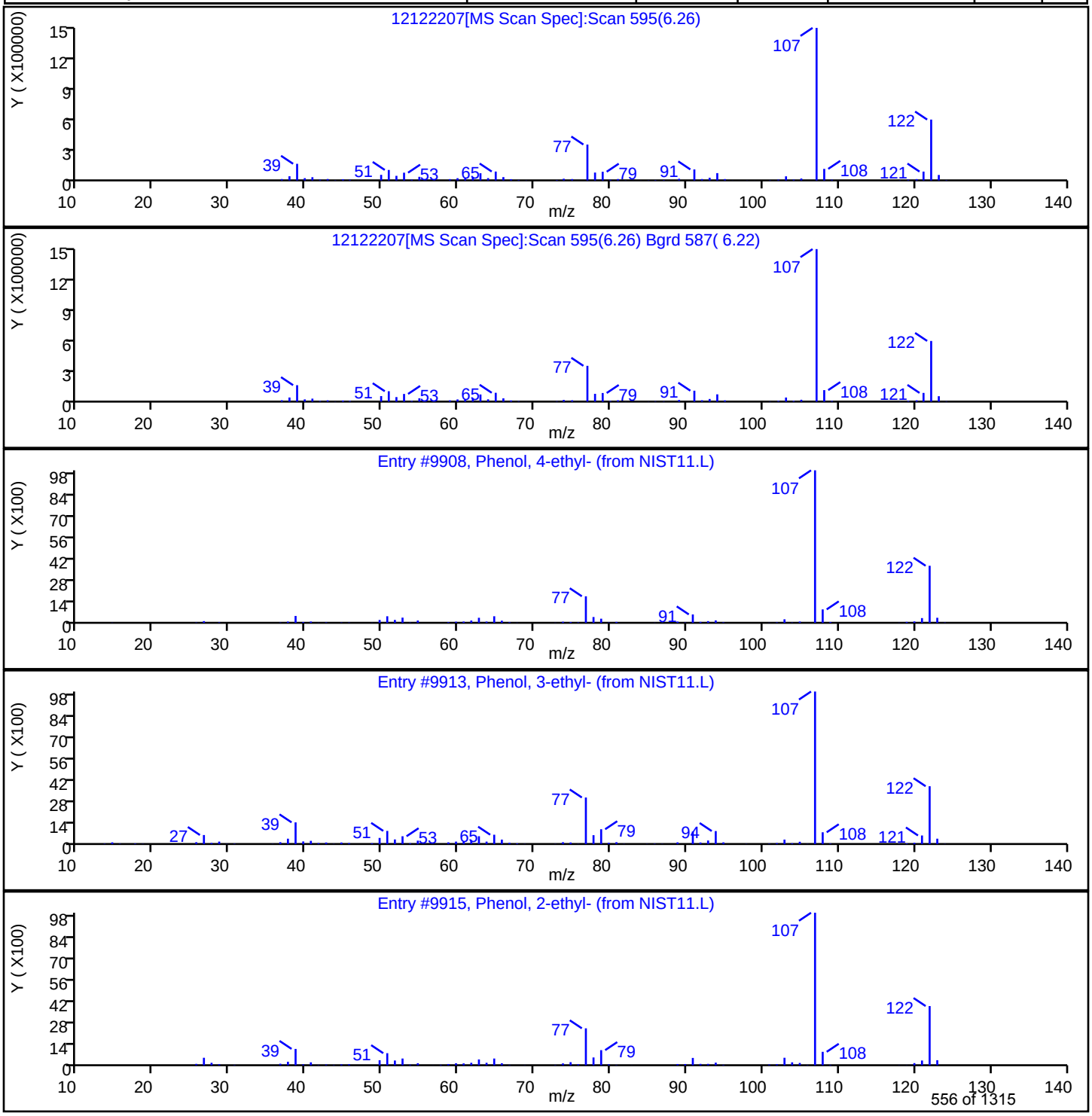
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.255

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-ethyl-	123-07-9	NIST11	9908	C8H10O	122	94
Phenol, 3-ethyl-	620-17-7	NIST11	9913	C8H10O	122	91
Phenol, 2-ethyl-	90-00-6	NIST11	9915	C8H10O	122	91



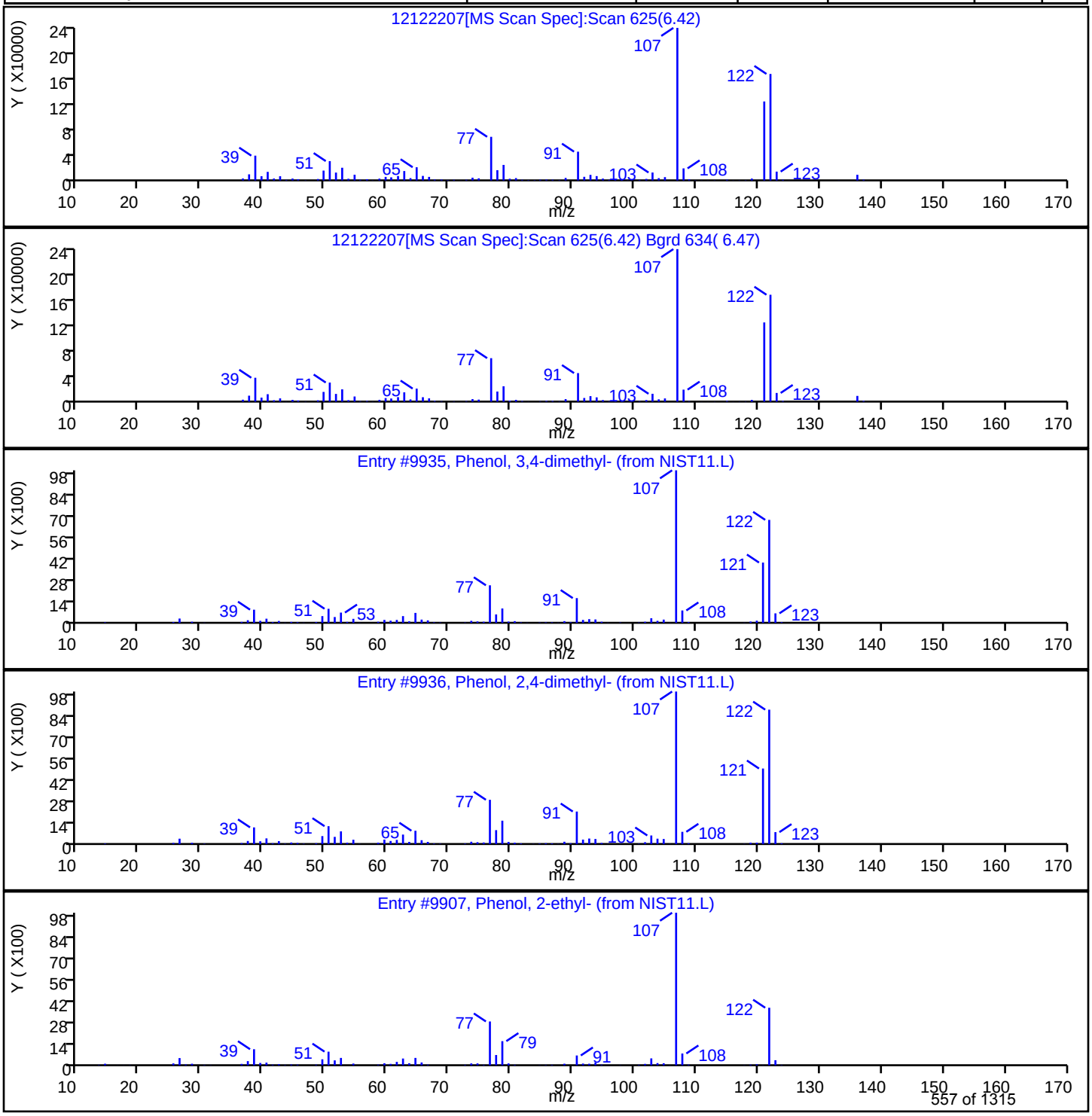
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.415

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9935	C8H10O	122	97
Phenol, 2,4-dimethyl-	105-67-9	NIST11	9936	C8H10O	122	94
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	93



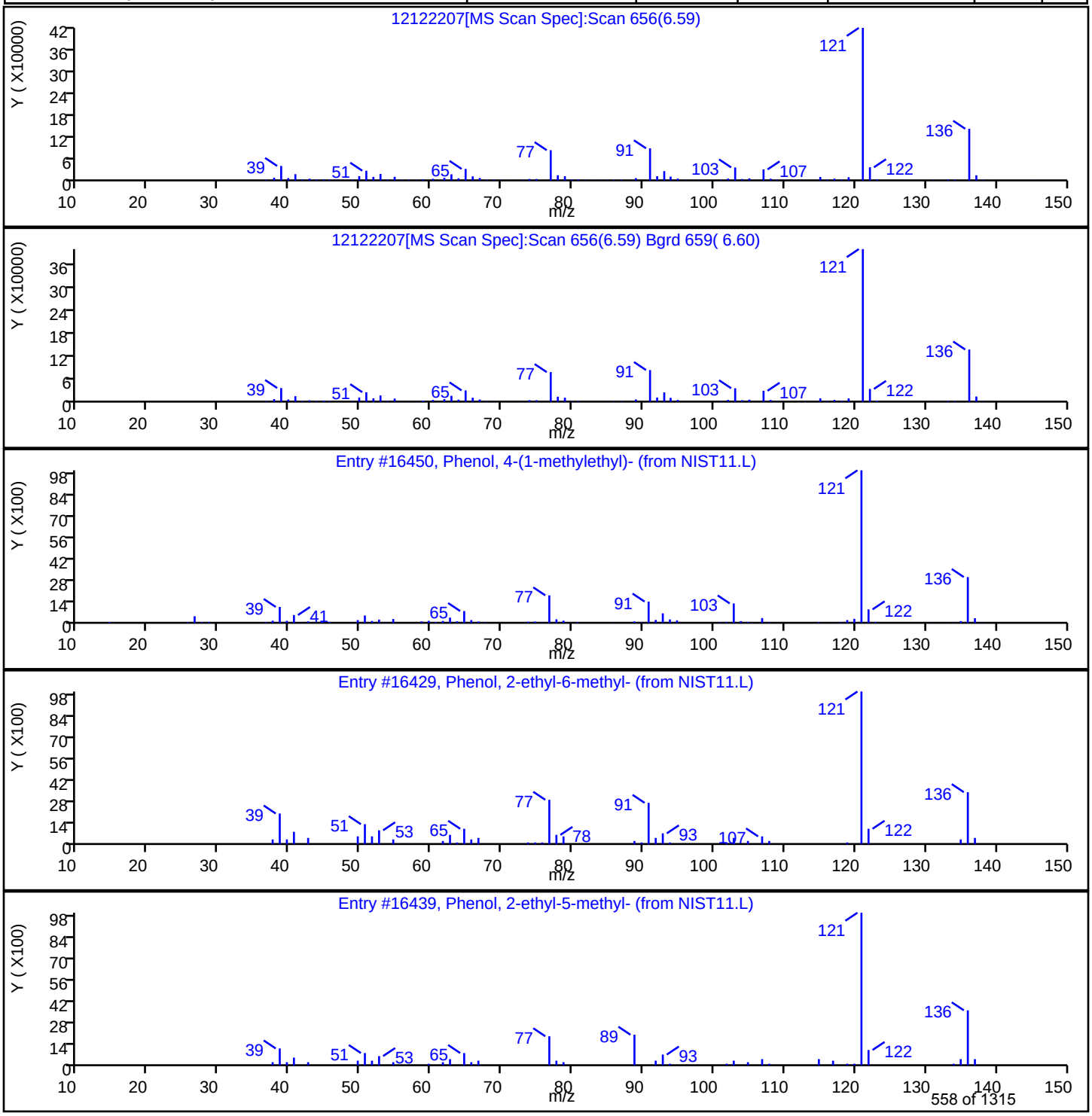
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.581

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-(1-methylethyl)-	99-89-8	NIST11	16450	C9H12O	136	91
Phenol, 2-ethyl-6-methyl-	1687-64-5	NIST11	16429	C9H12O	136	90
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16439	C9H12O	136	90



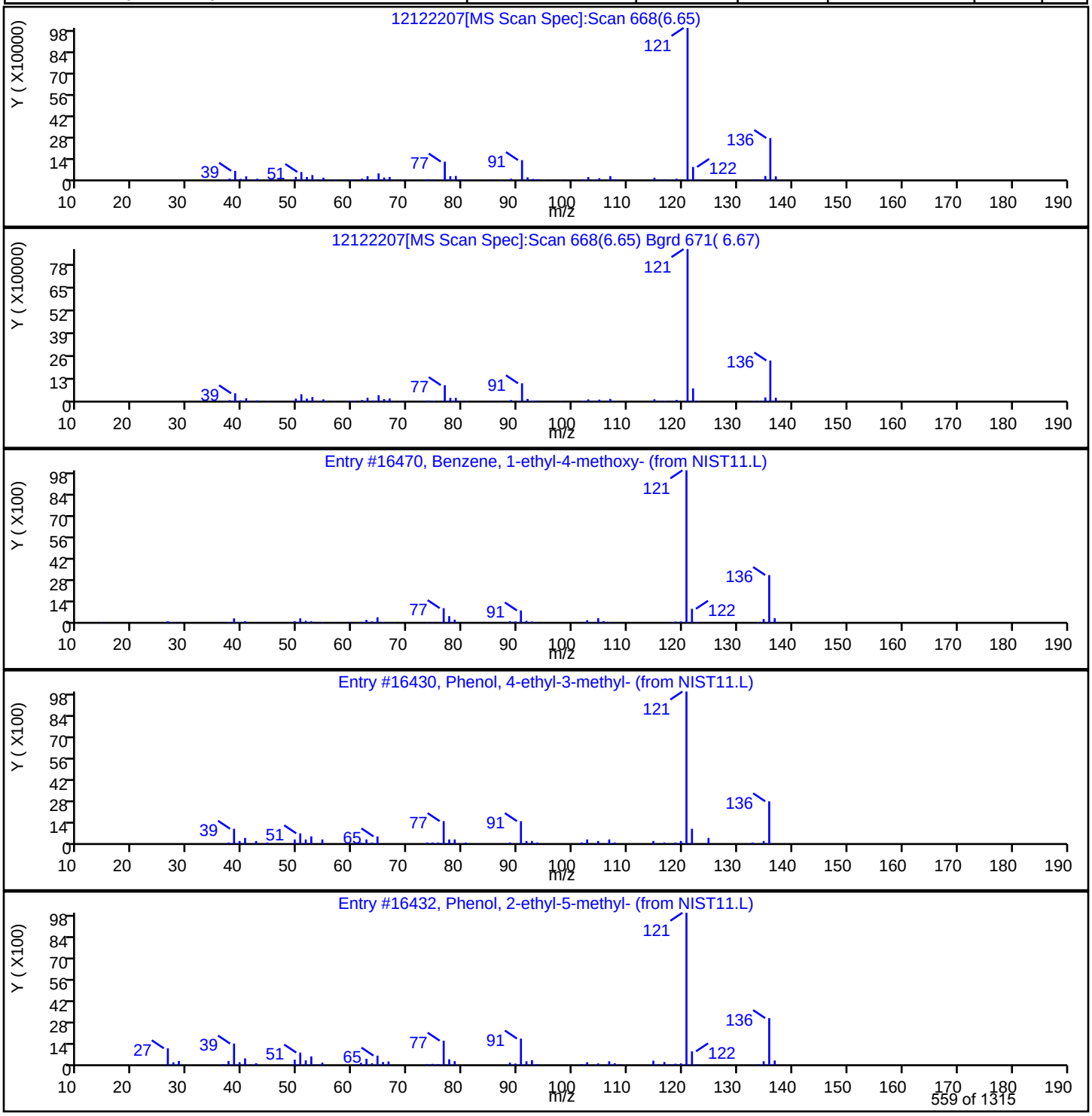
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.645

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-4-methoxy-	1515-95-3	NIST11	16470	C9H12O	136	91
Phenol, 4-ethyl-3-methyl-	1123-94-0	NIST11	16430	C9H12O	136	94
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16432	C9H12O	136	91



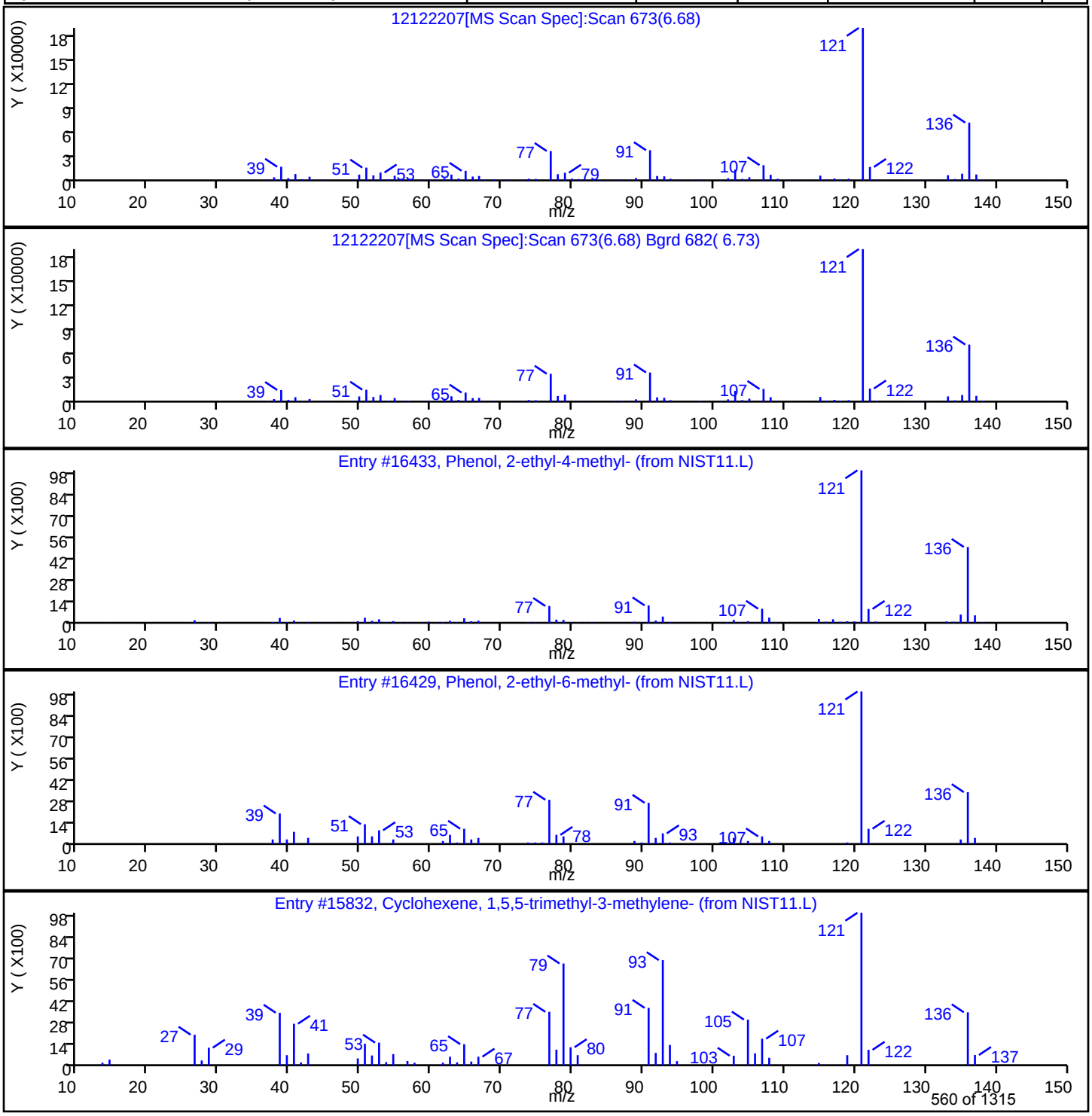
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.672

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-4-methyl-	3855-26-3	NIST11	16433	C9H12O	136	87
Phenol, 2-ethyl-6-methyl-	1687-64-5	NIST11	16429	C9H12O	136	87
Cyclohexene, 1,5,5-trimethyl-3-methylene	16609-28-2	NIST11	15832	C10H16	136	86



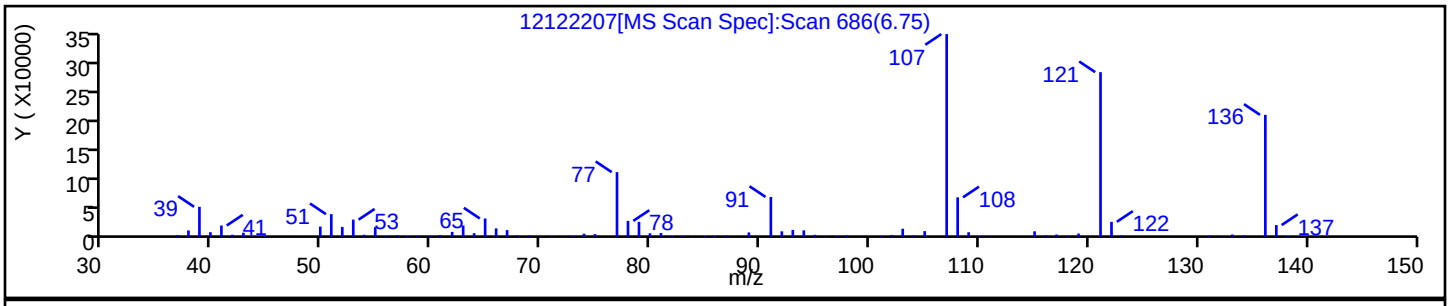
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

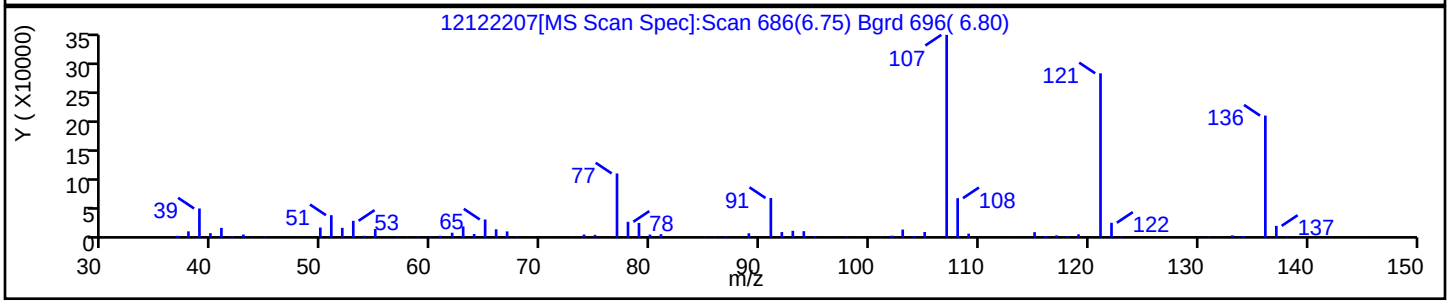
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.741

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





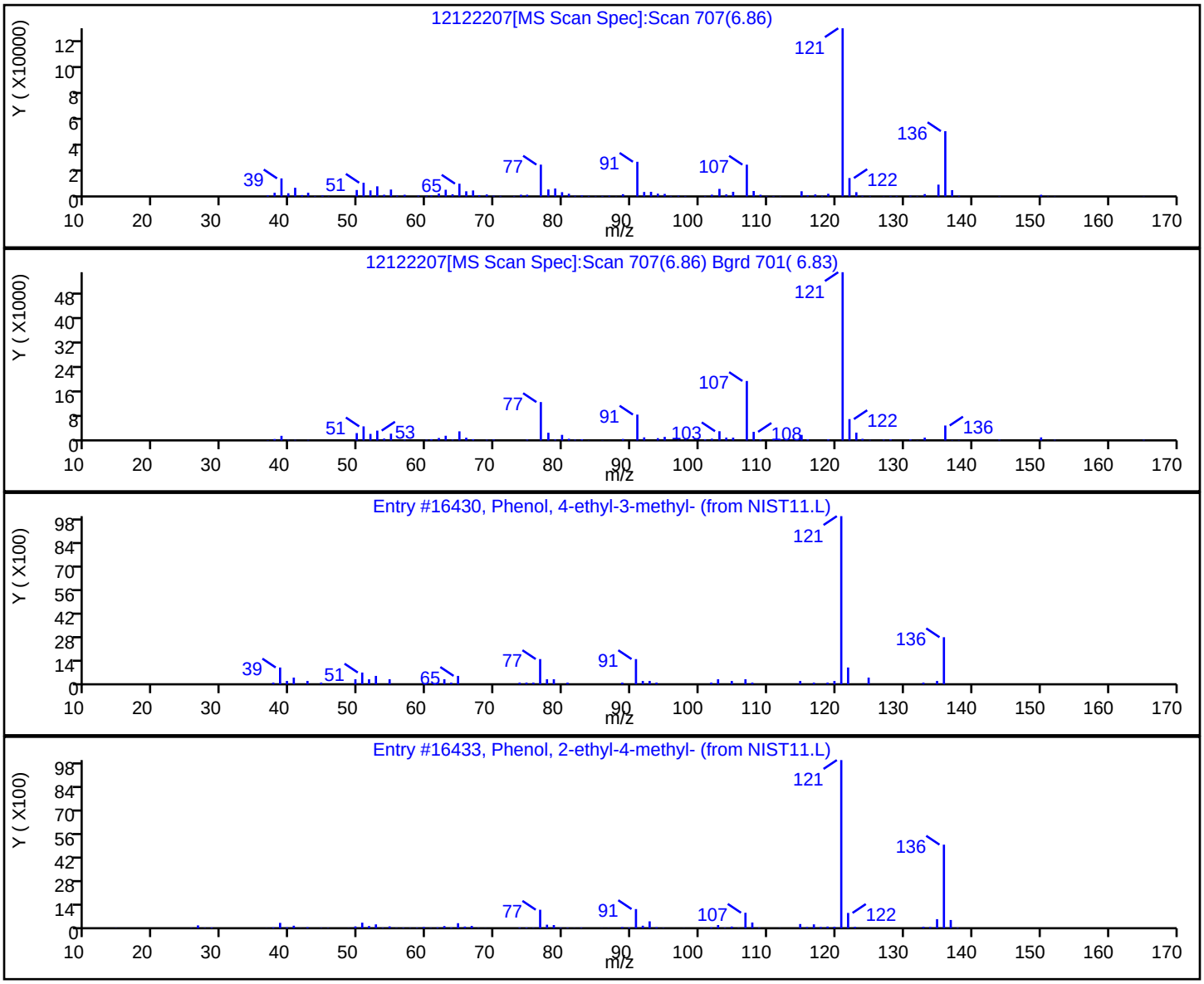
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.853

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-ethyl-3-methyl-	1123-94-0	NIST11	16430	C9H12O	136	90
Phenol, 2-ethyl-4-methyl-	3855-26-3	NIST11	16433	C9H12O	136	87



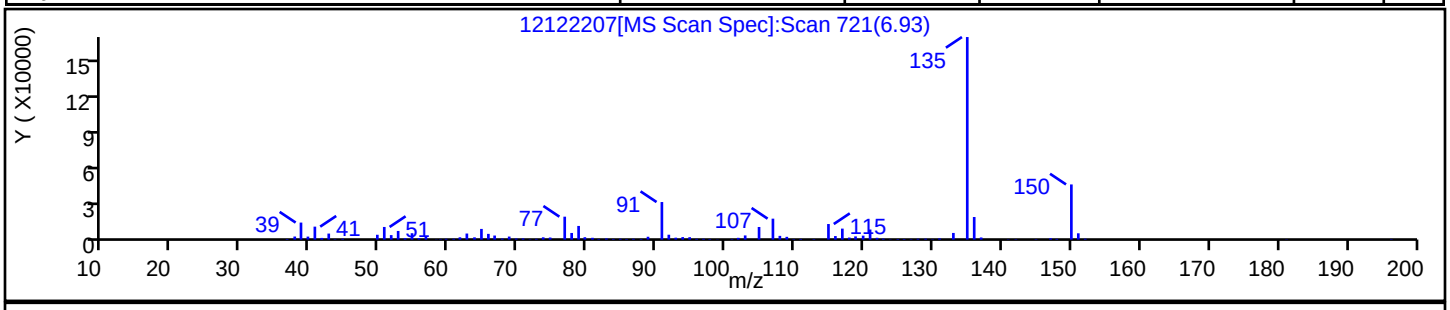
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

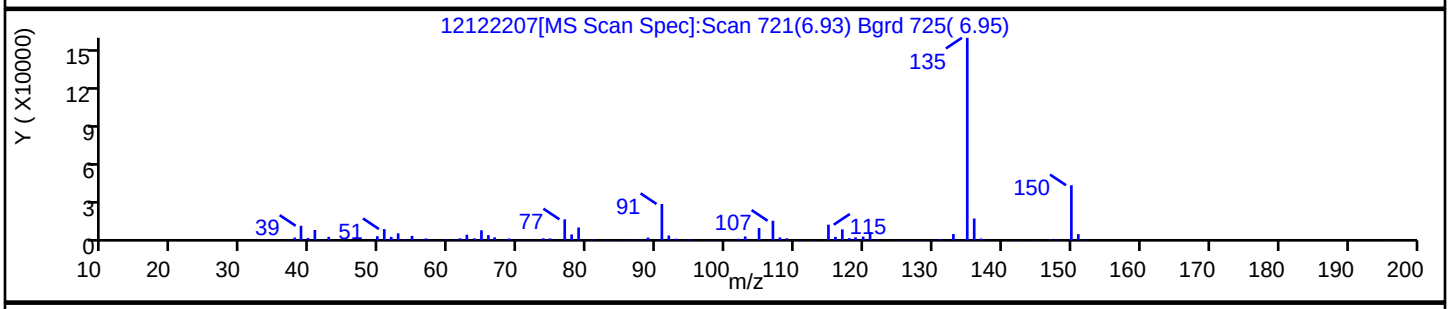
Shealy Environmental Services

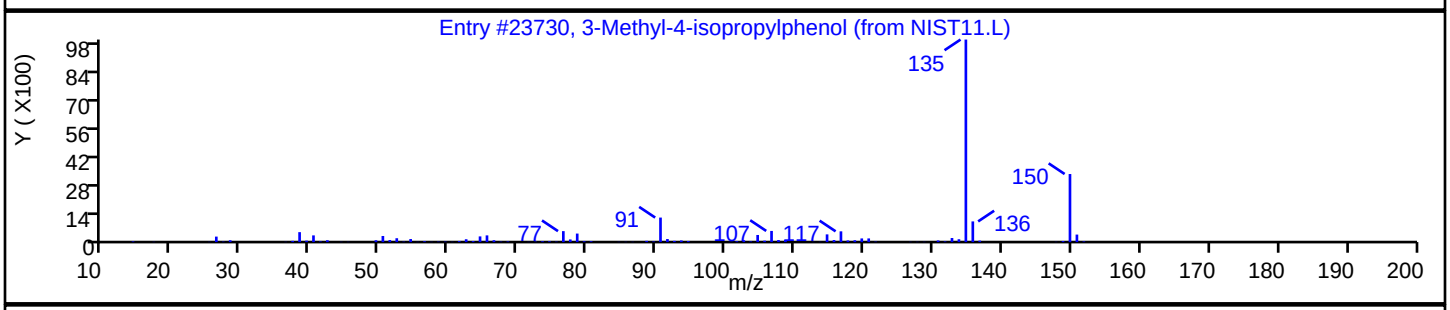
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

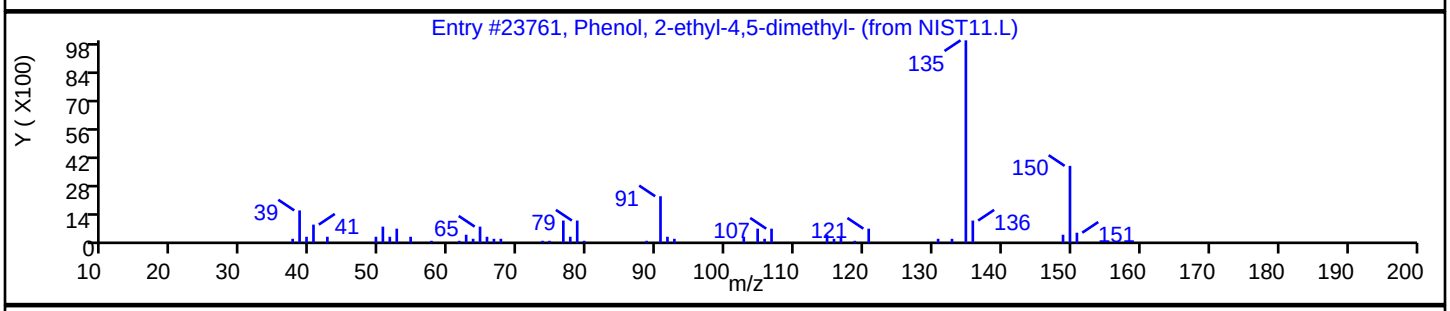
TIC @ 6.928

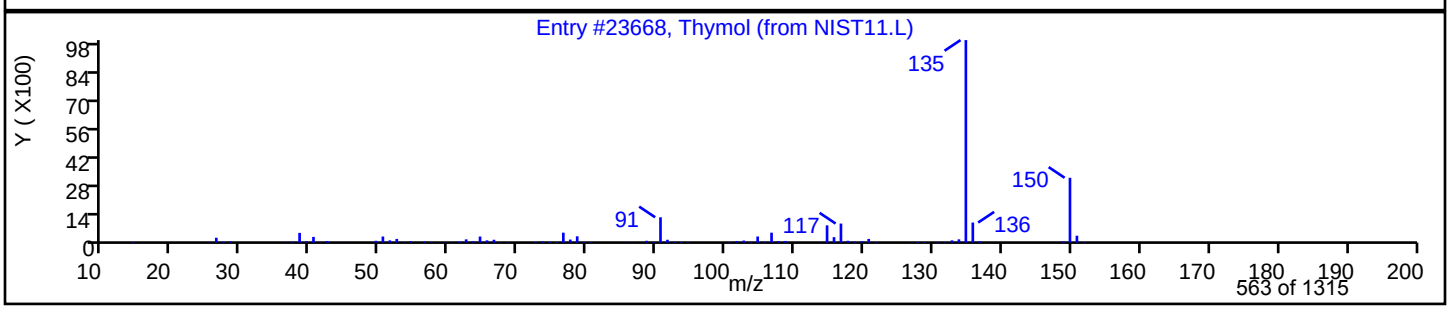
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
3-Methyl-4-isopropylphenol	3228-02-2	NIST11	23730	C10H14O	150	91
Phenol, 2-ethyl-4,5-dimethyl-	2219-78-5	NIST11	23761	C10H14O	150	91
Thymol	89-83-8	NIST11	23668	C10H14O	150	91











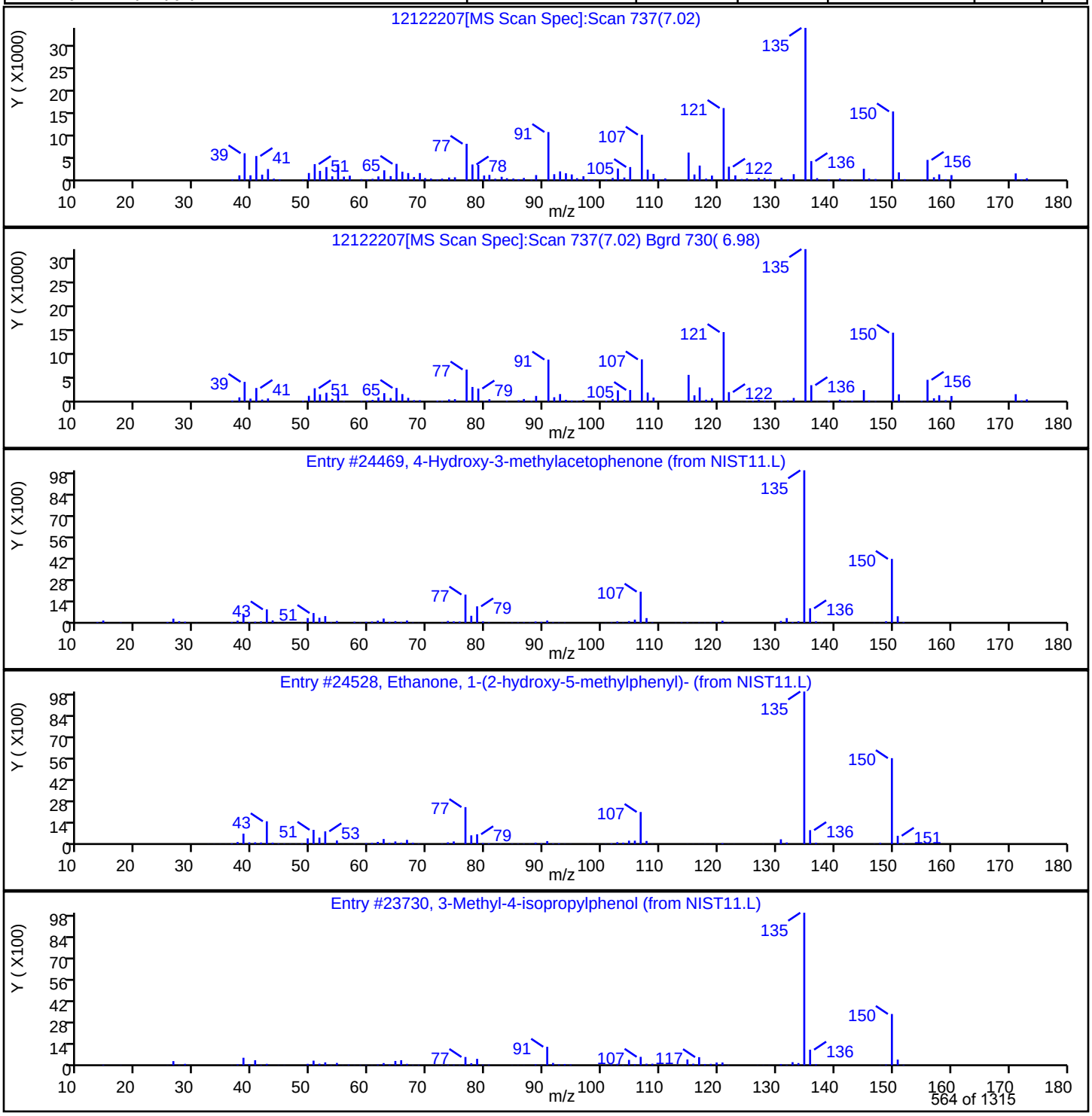
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.014

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
4-Hydroxy-3-methylacetophenone	876-02-8	NIST11	24469	C9H10O2	150	90
Ethanone, 1-(2-hydroxy-5-methylphenyl)-	1450-72-2	NIST11	24528	C9H10O2	150	87
3-Methyl-4-isopropylphenol	3228-02-2	NIST11	23730	C10H14O	150	87



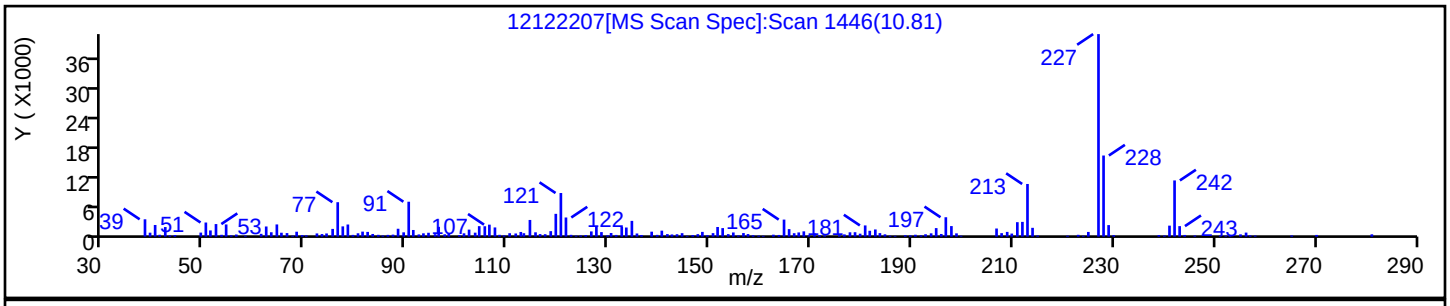
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

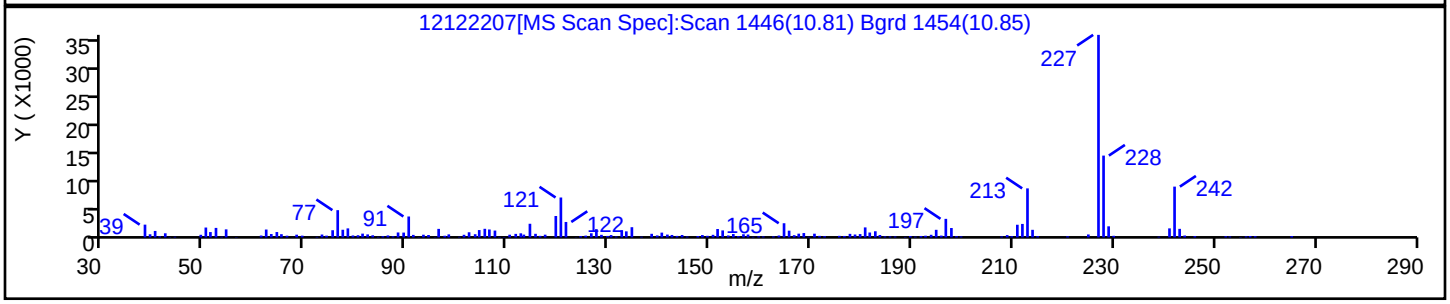
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.801

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





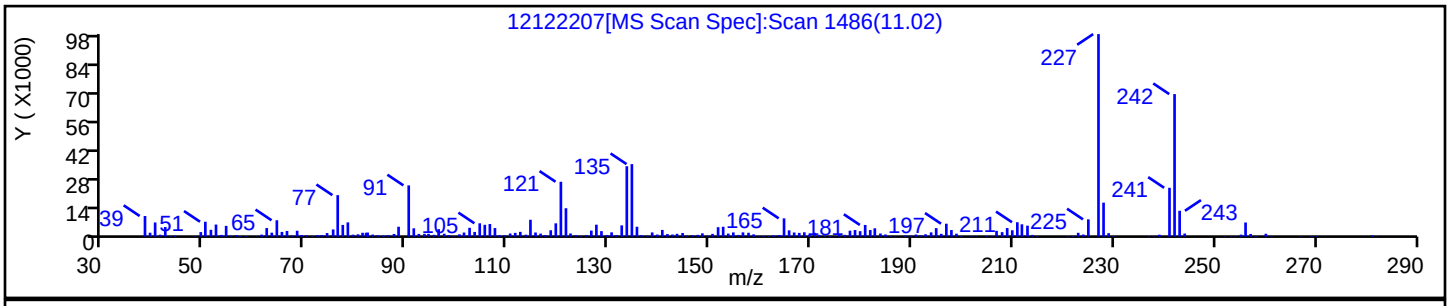
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

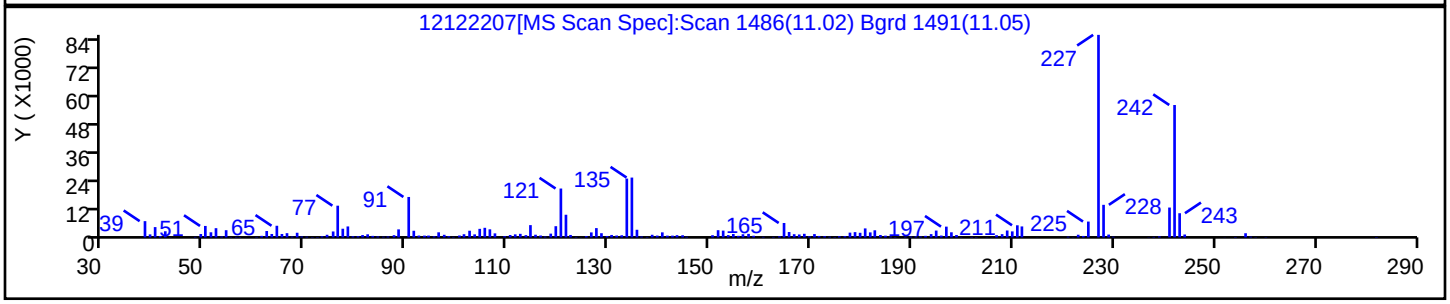
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 11.015

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





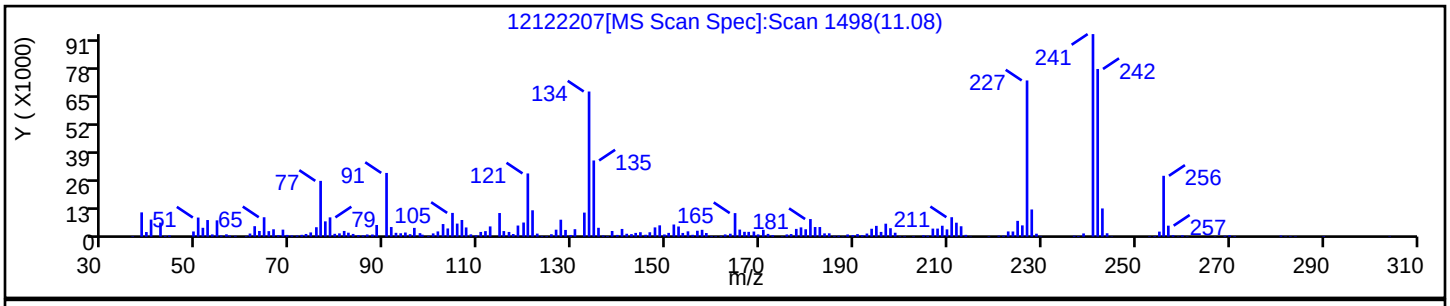
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

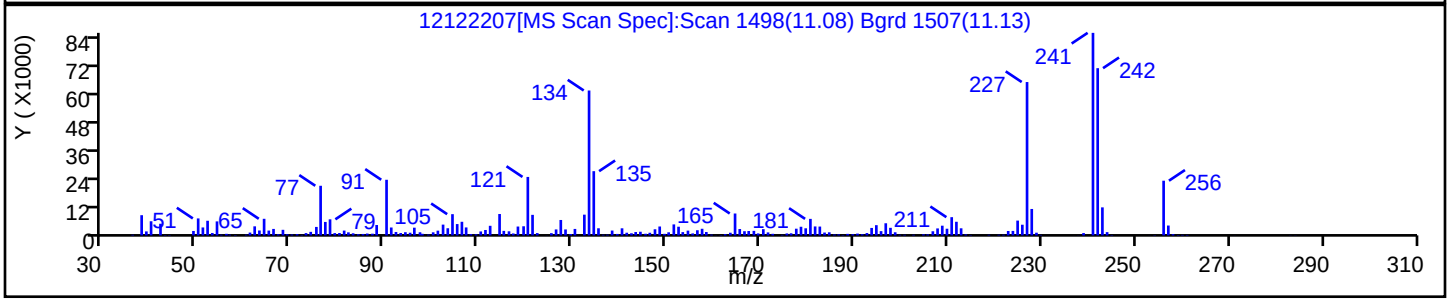
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 11.079

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





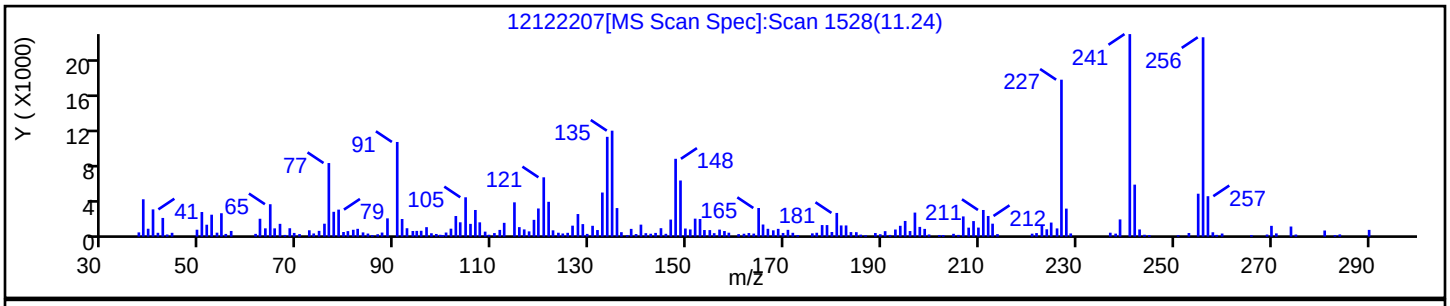
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

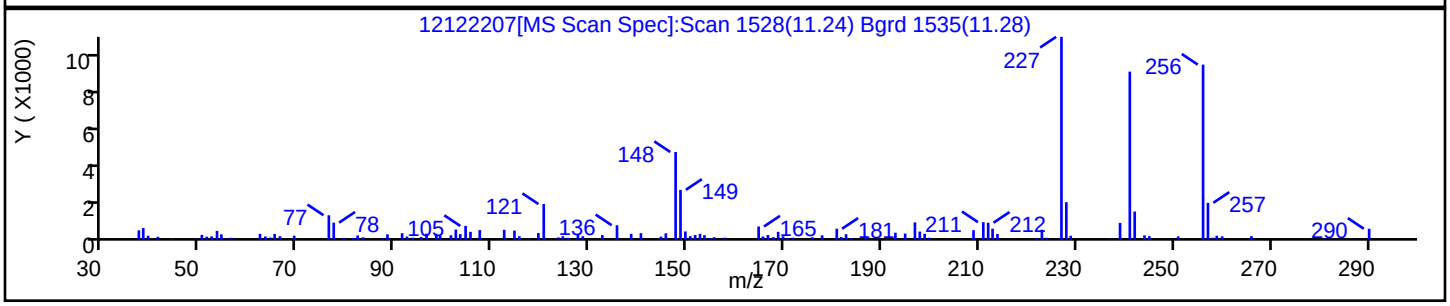
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 11.239

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





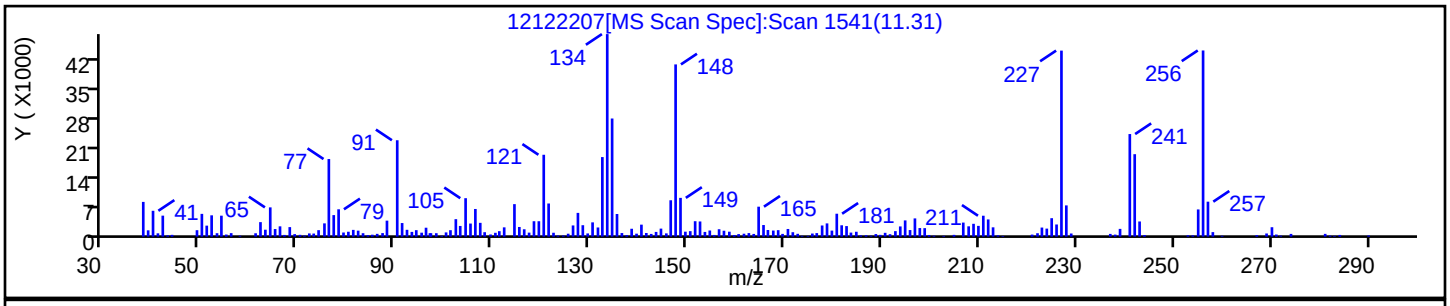
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

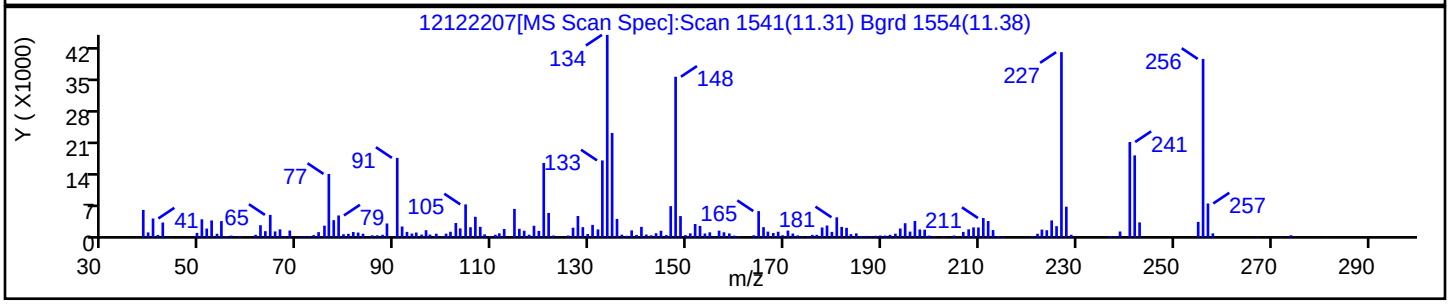
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 11.309

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





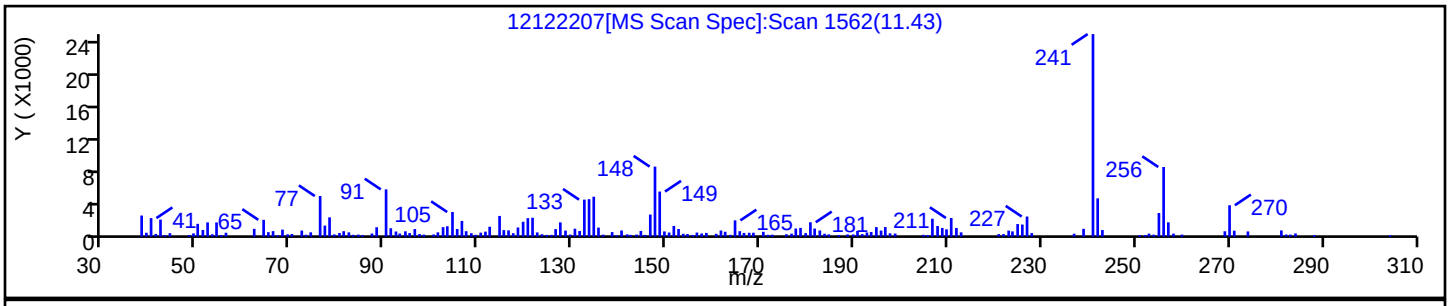
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

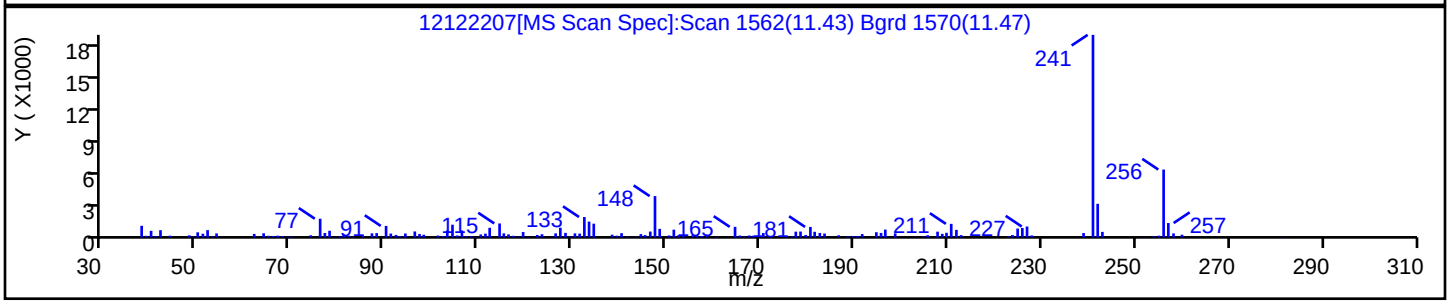
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 11.421

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





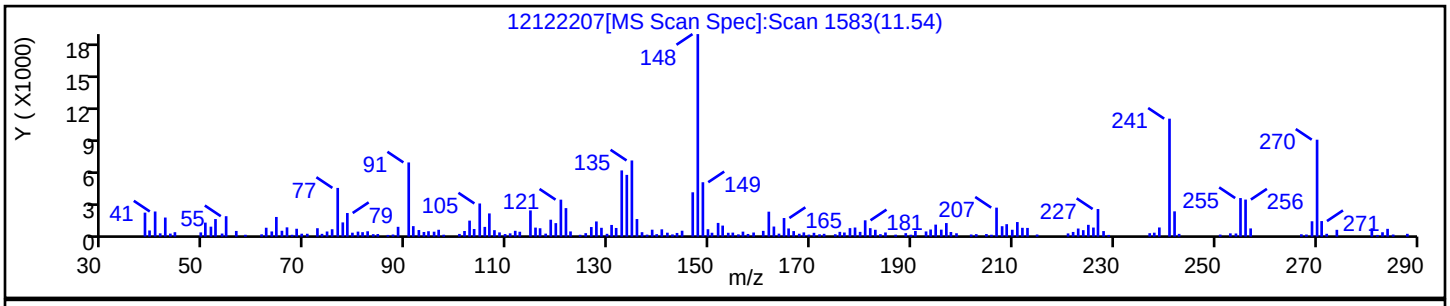
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

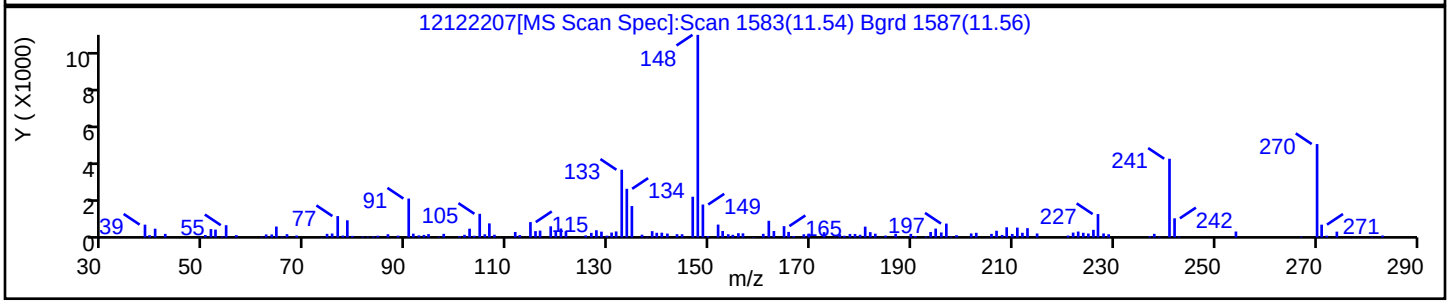
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 11.533

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





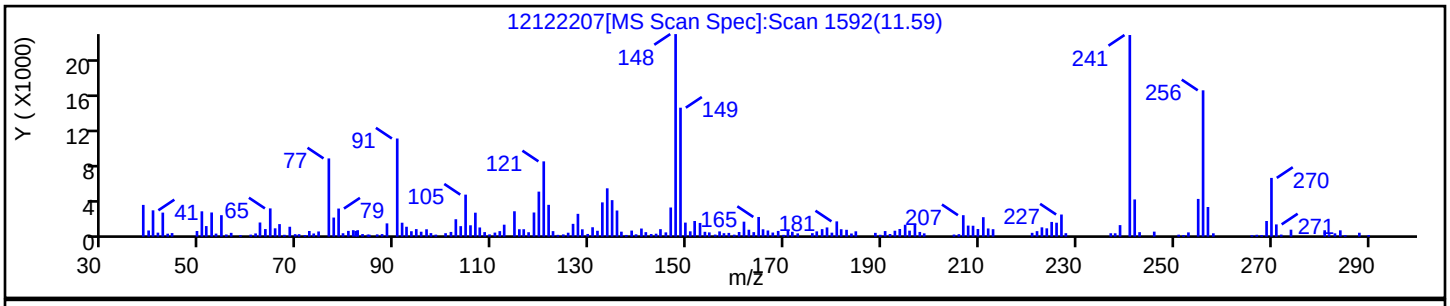
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

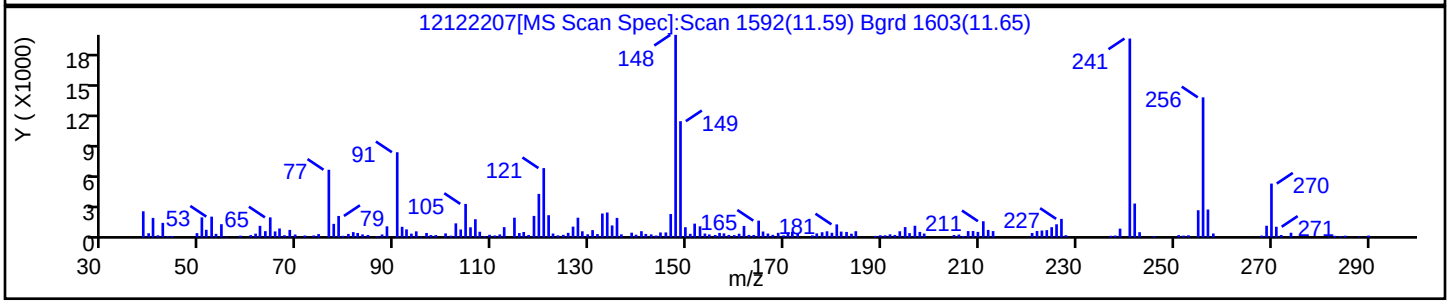
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 11.581

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





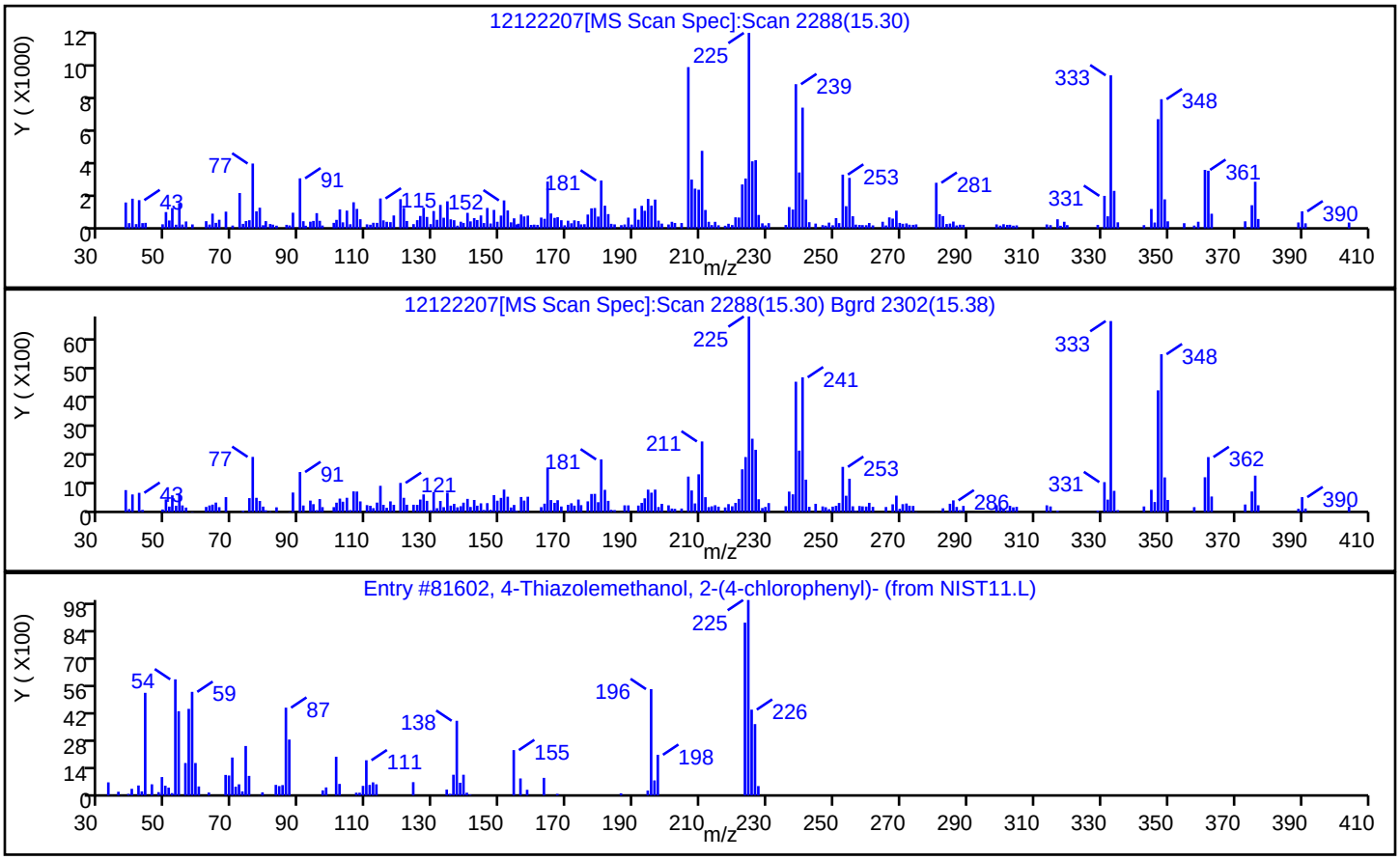
Report Date: 23-Dec-2015 09:57:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122207.D		
Injection Date:	22-Dec-2015 12:11:30	Inst. ID:	msd12.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	12122215.b, QL12004-002		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 15.300

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
4-Thiazolemethanol, 2-(4-chlorophenyl)-	36093-99-9	NIST11	81602	C10H8ClNOS	225	90



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R21

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-003
Sample wt/vol: 30.3 (g/mL) g
Lab File ID: 12122310
% Solids: 82.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 10.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	840	U
100-52-7	Benzaldehyde	3900	U
108-95-2	Phenol	1300	J
111-44-4	Bis(2-Chloroethyl) ether	3900	U
95-57-8	2-Chlorophenol	2000	U
95-48-7	2-Methylphenol	6200	
108-60-1	2,2'-Oxybis(1-chloropropane)	3900	U
98-86-2	Acetophenone	3900	U
106-44-5	4-Methylphenol	5000	
621-64-7	N-Nitroso-di-n propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	7100	
111-91-1	Bis(2-chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
91-20-3	Naphthalene	2000	U
106-47-8	4-Chloroaniline	3900	U
87-68-3	Hexachlorobutadiene	2000	U
105-60-2	Caprolactam	3900	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclo-pentadiene	3900	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	2000	U
92-52-4	1,1'-Biphenyl	2000	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R21

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-003
Sample wt/vol: 30.3 (g/mL) g
Lab File ID: 12122310
% Solids: 82.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 10.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	2000	U
99-09-2	3-Nitroaniline	3900	U
83-32-9	Acenaphthene	2000	U
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	U
132-64-9	Dibenzofuran	2000	U
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2000	U
7005-72-3	4-Chlorophenyl-phenyl ether	2000	U
86-73-7	Fluorene	2000	U
100-01-6	4-Nitroaniline	3900	U
534-52-1	4,6-Dinitro-2-methylphenol	3900	U
101-55-3	4-Bromophenyl-phenylether	2000	U
86-30-6	N-Nitrosodiphenylamine	2000	U
118-74-1	Hexachlorobenzene	2000	U
1912-24-9	Atrazine	3900	U
87-86-5	Pentachlorophenol	3900	U
85-01-8	Phenanthrene	2000	U
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	3900	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	3900	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R21

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-003
Sample wt/vol: 30.3 (g/mL) g
Lab File ID: 12122310
% Solids: 82.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 10.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	2000	U
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	3900	U
56-55-3	Benzo(a)anthracene	2000	U
218-01-9	Chrysene	2000	U
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	3900	U
205-99-2	Benzo(b)fluoranthene	2000	U
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	2000	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000	U
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	2000	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R21

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-003
Sample wt/vol: 30.3 (g/mL) g
Lab File ID: 12122310
% Solids: 82.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Y
Date Analyzed: 12/23/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 500 (uL)
Heated Purge: (Y/N)
Extraction Type: SONC
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types: GPC
pH: Dilution Factor: 10.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	90-00-6	Phenol, 2-ethyl-	6.08	1100	NJ
02	123-07-9	Phenol, 4-ethyl-	6.25	3600	NJ
03	95-65-8	Phenol, 3,4-dimethyl-	6.41	1100	NJ
04	1687-61-2	Phenol, 2-ethyl-5-methyl-	6.58	870	NJ
05	1515-95-3	Benzene, 1-ethyl-4-methoxy-	6.65	850	NJ
06	693-71-0	trans-13-Octadecenoic acid	10.28	800	NJ
07	301-02-0	9-Octadecenamide, (Z)-	13.25	1000	NJ
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Lab Sample ID:	QL12004-003	Client Sample ID:	F6R21
Injection Date:	23-Dec-2015 12:41:30	Dil. Factor:	10.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL12004-003		
Misc. Info:	92512 10X		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	12
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.300	Weight of sample extracted (g)
M	17.200	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 14:13:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 3 Phenol-d5	99.0	5.112	5.123	-0.011	71430	1.8827	750.42	e
108 1,4-Dioxane	88.0		3.333		ND			
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	1310	0.09440	37.626	eR
4 Phenol	94.0	5.128	5.133	-0.005	139149	3.3756	1345.47	e
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	43730	1.7088	681.13	e
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.294	5.299	-0.005	49162	1.9585	780.64	e
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	414214	20.000	7971.81	
10 2-Methylphenol	108.0	5.609	5.614	-0.005	433957	15.559	6201.68	
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.700	5.710	-0.010	58274	2.1145	842.82	e
14 4-Methylphenol	108.0	5.721	5.737	-0.016	376826	12.453	4963.80	
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.913	-0.005	26117	1.7649	703.46	e
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.165	6.170	-0.005	573270	17.756	7077.21	
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	31110	1.8358	731.72	Qe
19 2-Nitrophenol	139.0		6.186		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.357	6.367	-0.010	45823	1.8419	734.18	e
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.512	6.517	-0.005	1711727	20.000	7971.81	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.533	6.544	-0.011	62175	1.6579	660.83	e
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.687	-0.011	135520	2.2724	905.75	e
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.874	-0.011	165846	2.1017	837.73	e
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.992	7.997	-0.005	913043	20.000	7971.81	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0	8.029	8.039	-0.010	26354	1.8074	720.43	Qe
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0	8.430	8.435	-0.005	116144	2.0757	827.35	e
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.456	8.472	-0.016	14966	1.1269	449.16	Qe
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.274	-0.011	1459203	20.000	7971.81	
59 Phenanthrene	178.0		9.295		ND			
$ 103 Anthracene-d10	188.0	9.311	9.322	-0.011	241788	3.2501	1295.48	e
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			

Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122310.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 104 Pyrene-d10	212.0	10.625	10.641	-0.016	217549	2.8680	1143.16	e
64 Pyrene	202.0		10.663		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1738441	20.000	7971.81	
70 Chrysene	228.0		12.222		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.814		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.295	14.322	-0.027	188620	2.3222	925.62	e
75 Benzo(a)pyrene	252.0		14.375		ND			
* 76 Perylene-d12	264.0	14.450	14.466	-0.016	1675534	20.000	7971.81	
77 Indeno(1,2,3-cd)pyrene	276.0		16.630		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Lab Sample ID:	QL12004-003	Client Sample ID:	F6R21
Injection Date:	23-Dec-2015 12:41:30	Dil. Factor:	10.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL12004-003		
Misc. Info:	92512 10X		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	12
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.300	Weight of sample extracted (g)
M	17.200	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 14:13:30

Tentative Identified Compound Results

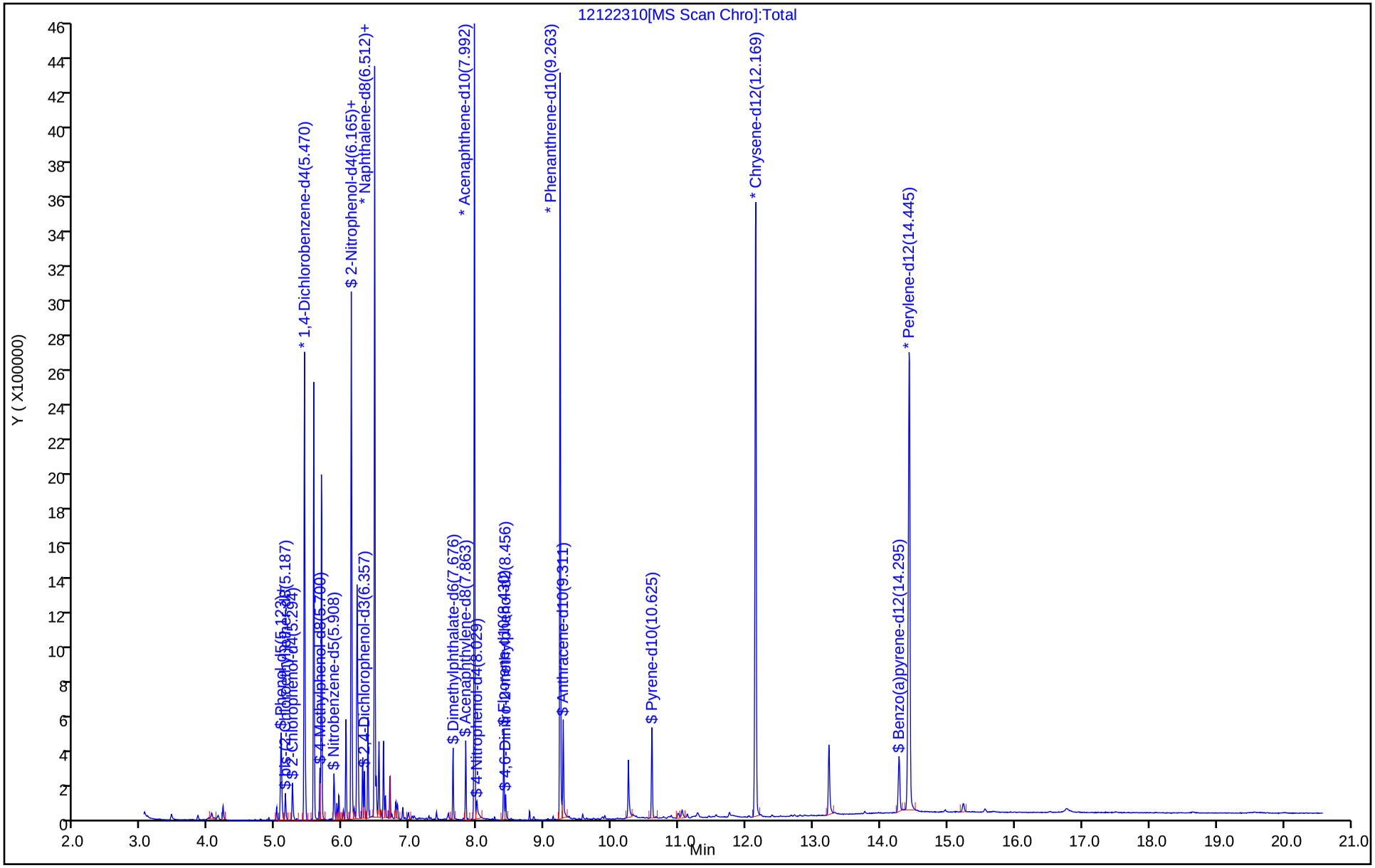
RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
90-00-6 Phenol, 2-ethyl-								
6.084	535438	2.8327	1129.08	23	95	9907	C8H10O	122
123-07-9 Phenol, 4-ethyl-								
6.250	1692695	8.9550	3569.40	23	94	9908	C8H10O	122
95-65-8 Phenol, 3,4-dimethyl-								
6.410	524336	2.7740	1105.67	23	97	9935	C8H10O	122
1687-61-2 Phenol, 2-ethyl-5-methyl-								
6.576	410482	2.1716	865.59	23	90	16439	C9H12O	136
1515-95-3 Benzene, 1-ethyl-4-methoxy-								
6.645	403835	2.1365	851.57	23	91	16464	C9H12O	136
693-71-0 trans-13-Octadecenoic acid								
10.278	391178	2.0035	798.60	58	99	129357	C18H34O2	282
301-02-0 9-Octadecenamide, (Z)-								
13.254	603870	2.5345	1010.21	69	92	128445	C18H35NO	281

Quant. Compounds	RT	Response	Amount ng/ul
* 23 Naphthalene-d8	6.512	3780426	20.000
* 58 Phenanthrene-d10	9.263	3904857	20.000
* 69 Chrysene-d12	12.169	4765279	20.000

Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D				
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R21	Lab ID:	QL12004-003		
Sample Info:	12122315.b, QL12004-003				
Injection Vol.	1.00 uL	Dil. Factor:	10.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

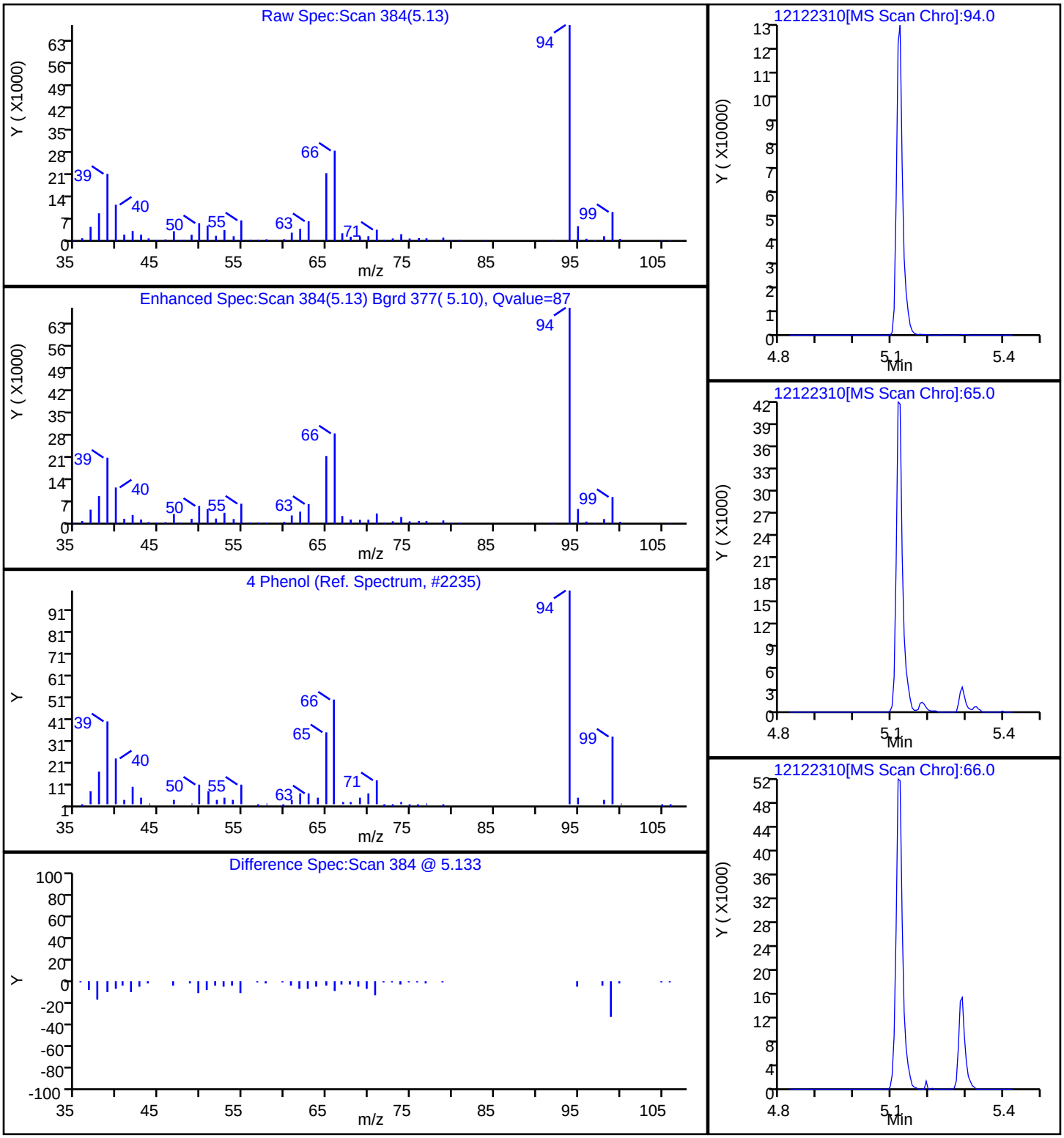


Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	12122315.b, QL12004-003		
Injection Vol.	1.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

4 Phenol

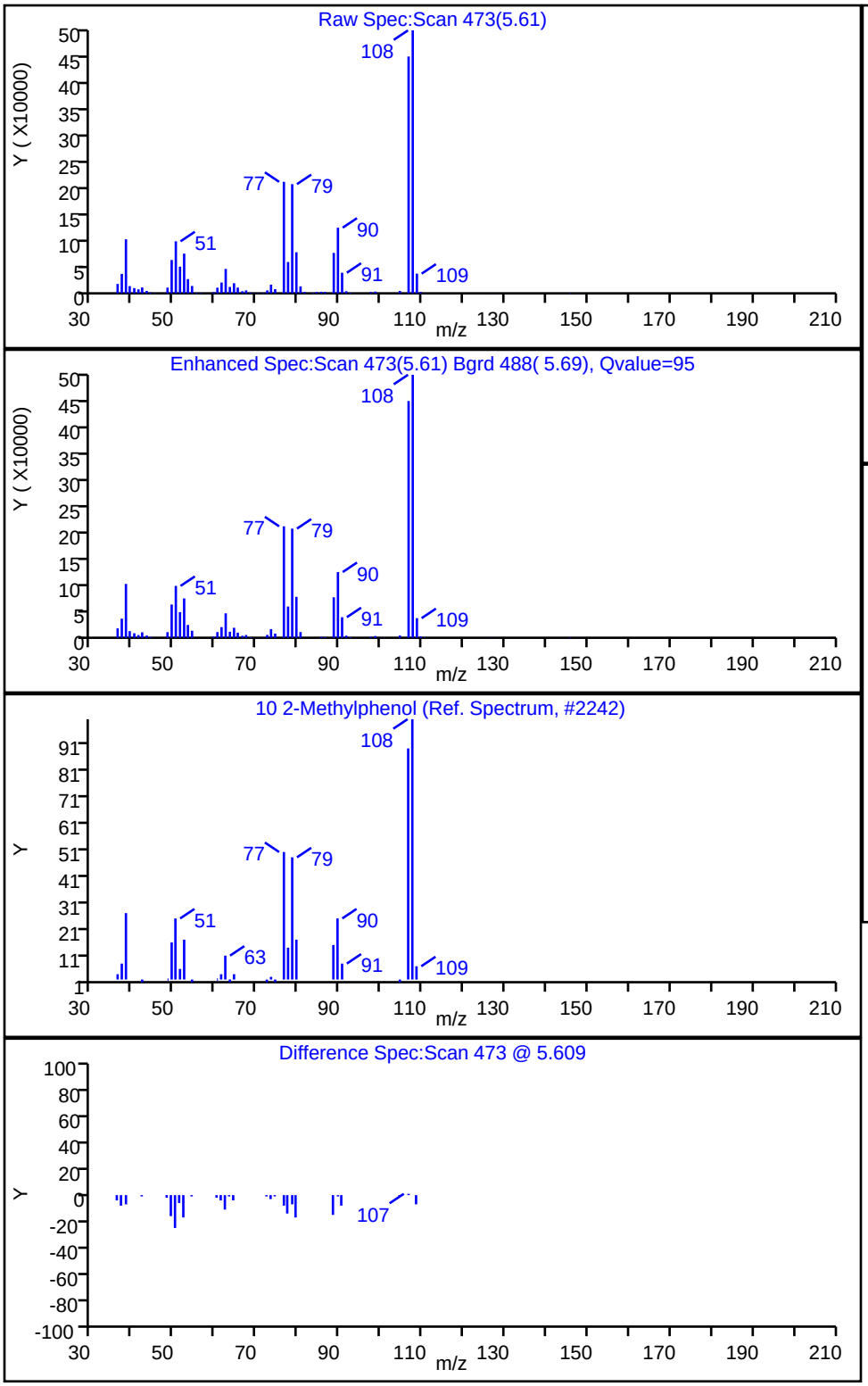


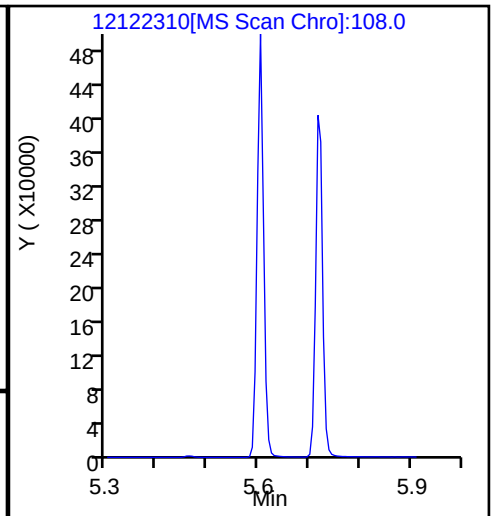
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

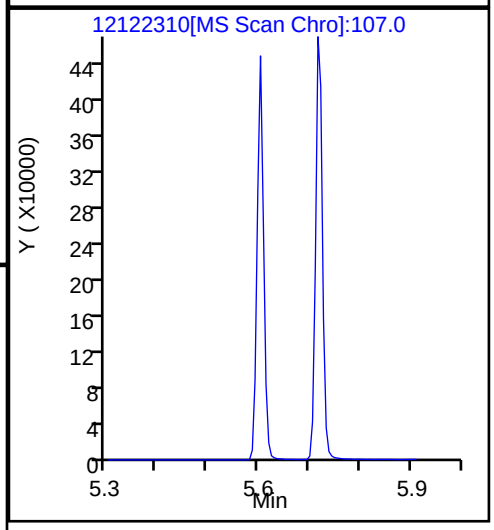
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	12122315.b, QL12004-003		
Injection Vol.	1.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

10 2-Methylphenol





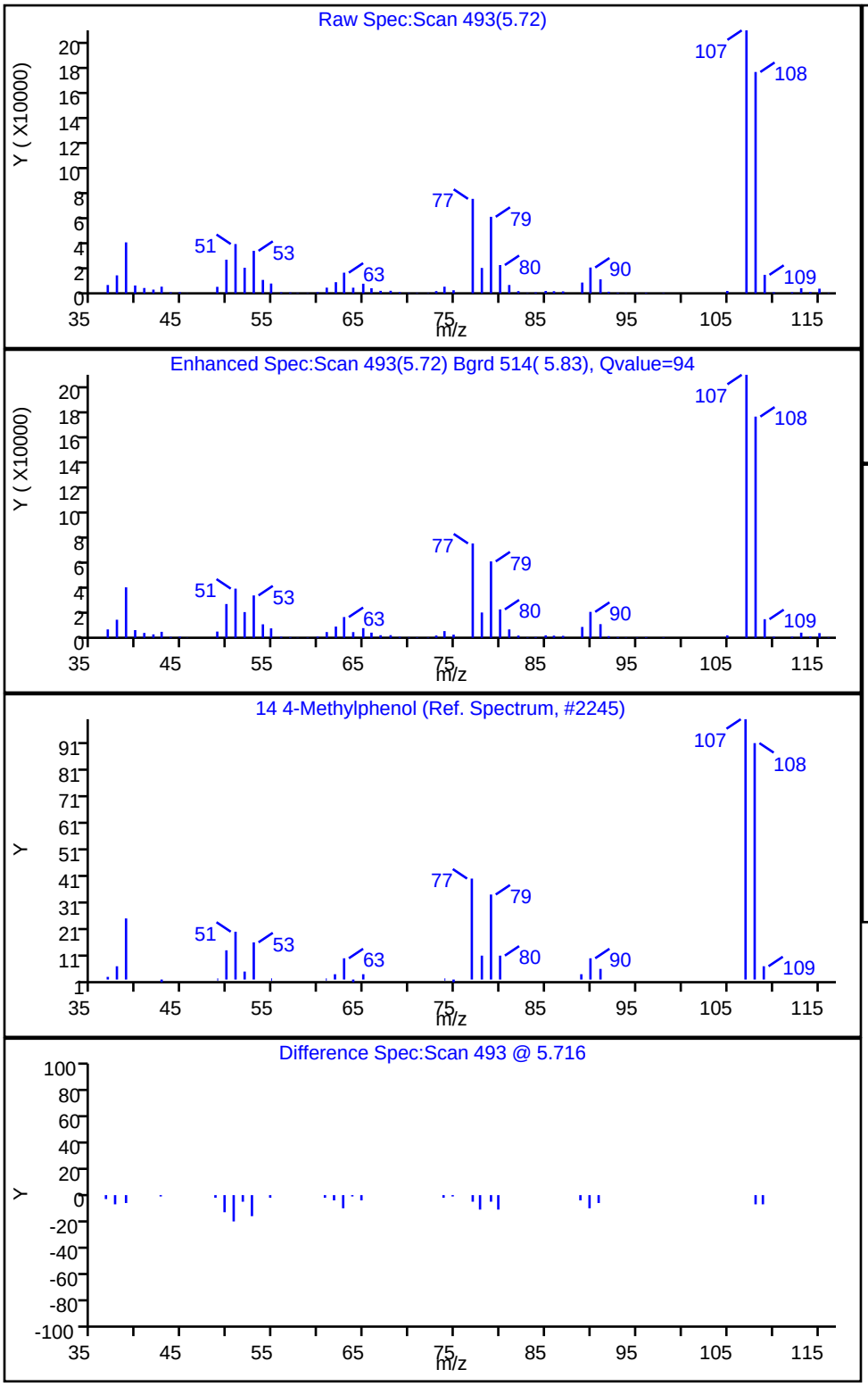


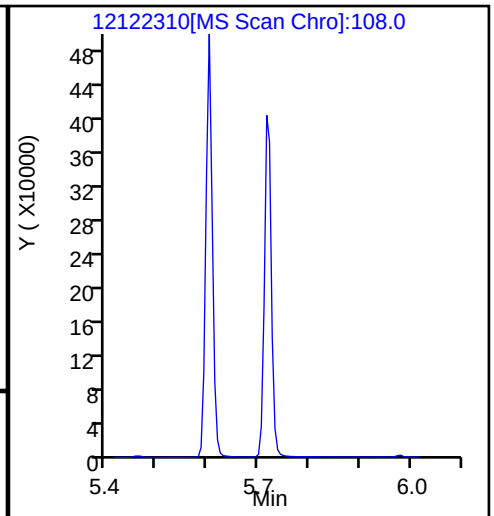
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

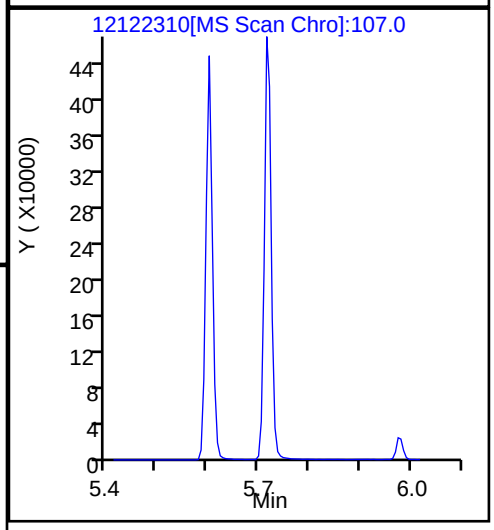
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	12122315.b, QL12004-003		
Injection Vol.	1.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

14 4-Methylphenol





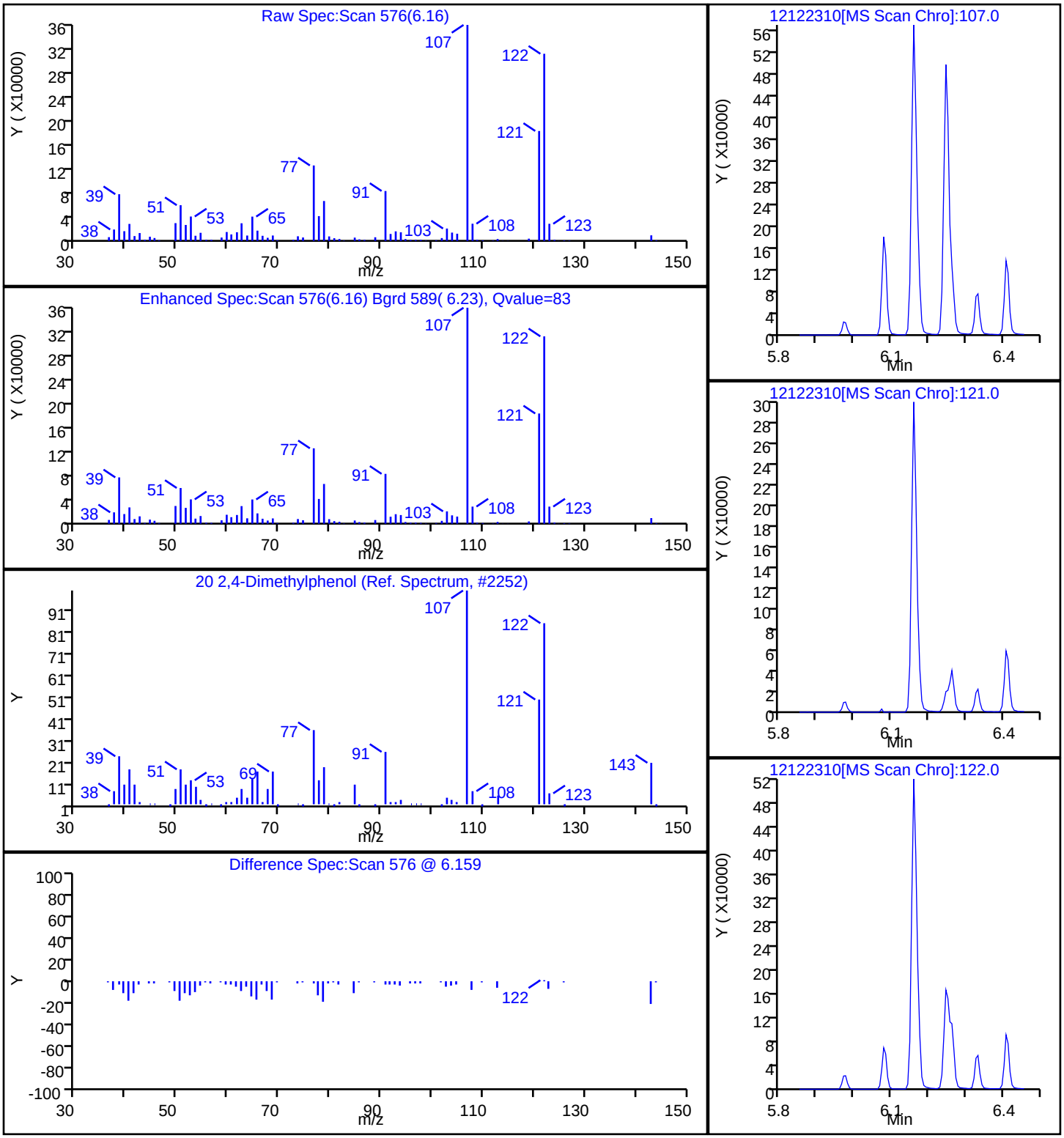


Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	12122315.b, QL12004-003		
Injection Vol.	1.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

20 2,4-Dimethylphenol



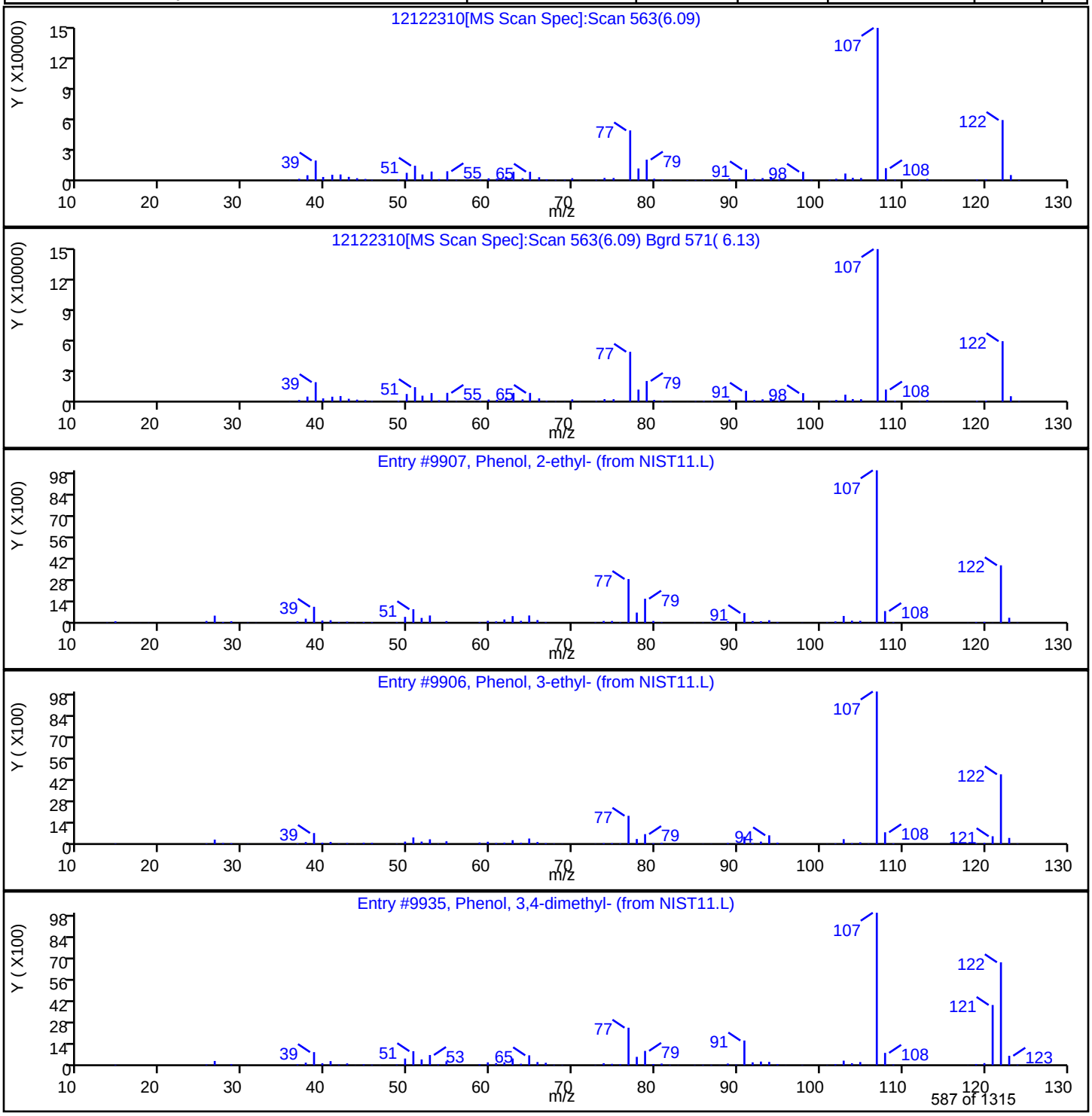
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	12122315.b, QL12004-003		
Injection Vol.	1.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.084

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	95
Phenol, 3-ethyl-	620-17-7	NIST11	9906	C8H10O	122	91
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9935	C8H10O	122	90



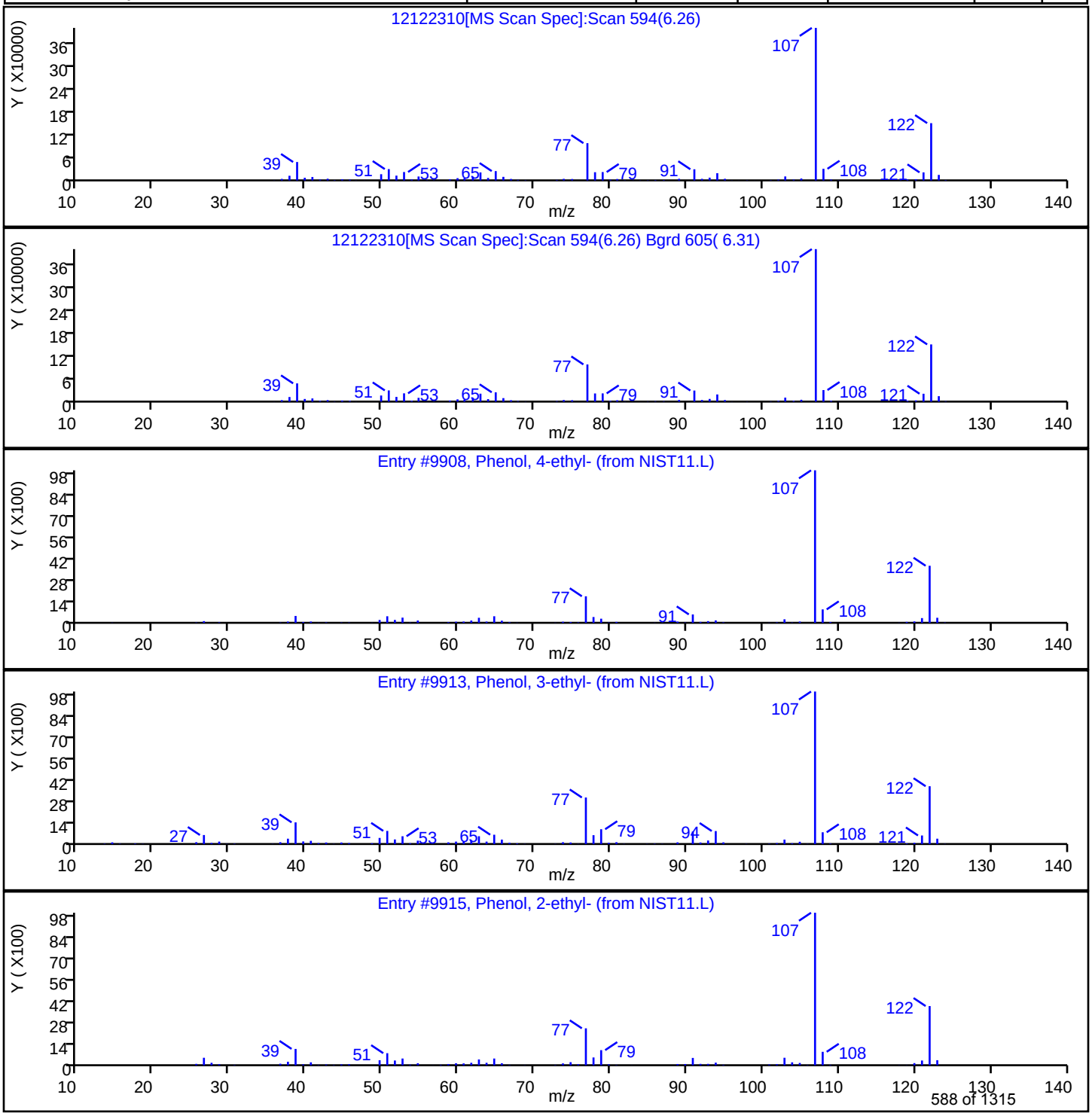
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	12122315.b, QL12004-003		
Injection Vol.	1.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.250

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-ethyl-	123-07-9	NIST11	9908	C8H10O	122	94
Phenol, 3-ethyl-	620-17-7	NIST11	9913	C8H10O	122	94
Phenol, 2-ethyl-	90-00-6	NIST11	9915	C8H10O	122	91



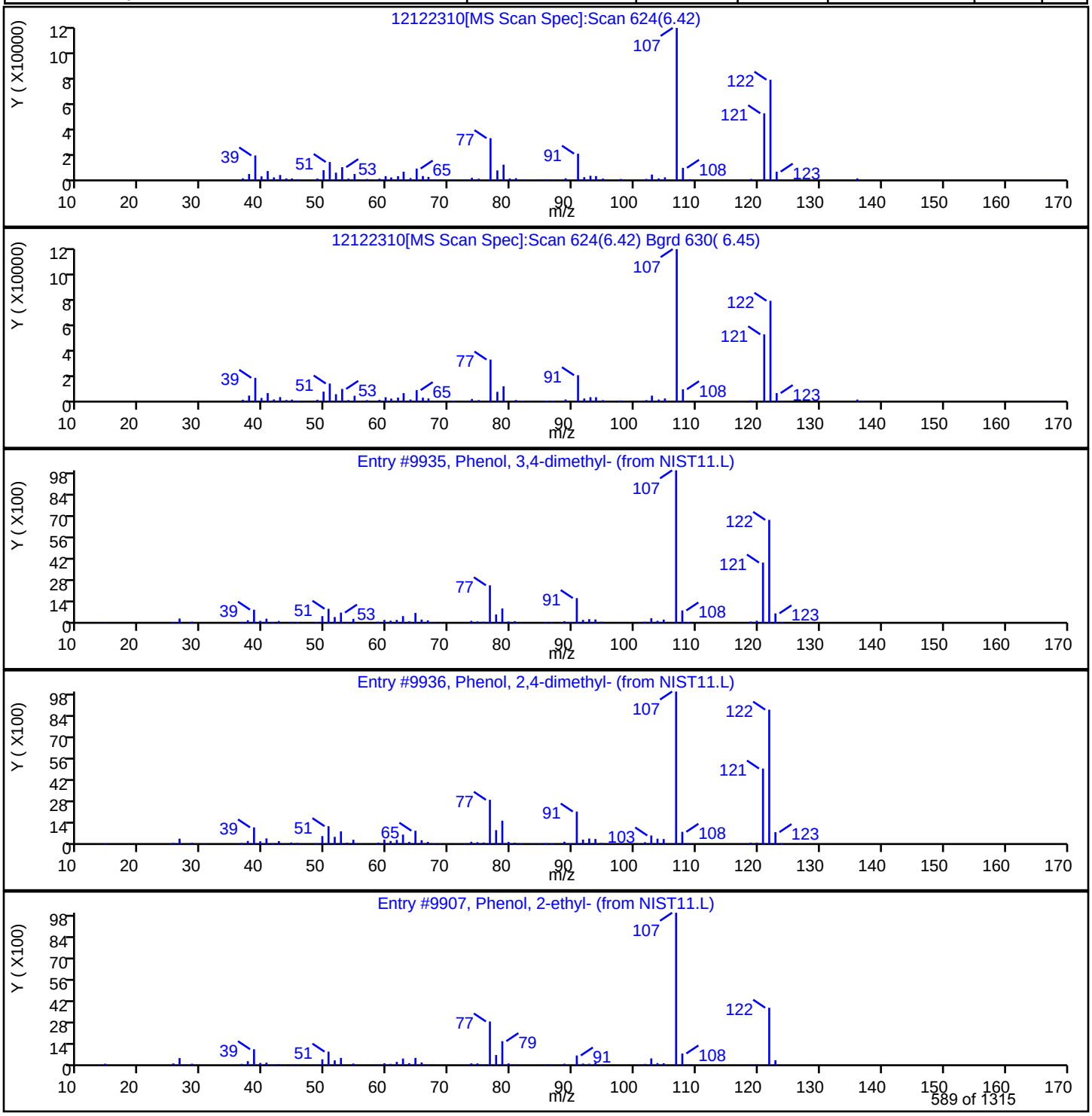
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	12122315.b, QL12004-003		
Injection Vol.	1.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.410

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9935	C8H10O	122	97
Phenol, 2,4-dimethyl-	105-67-9	NIST11	9936	C8H10O	122	94
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	93



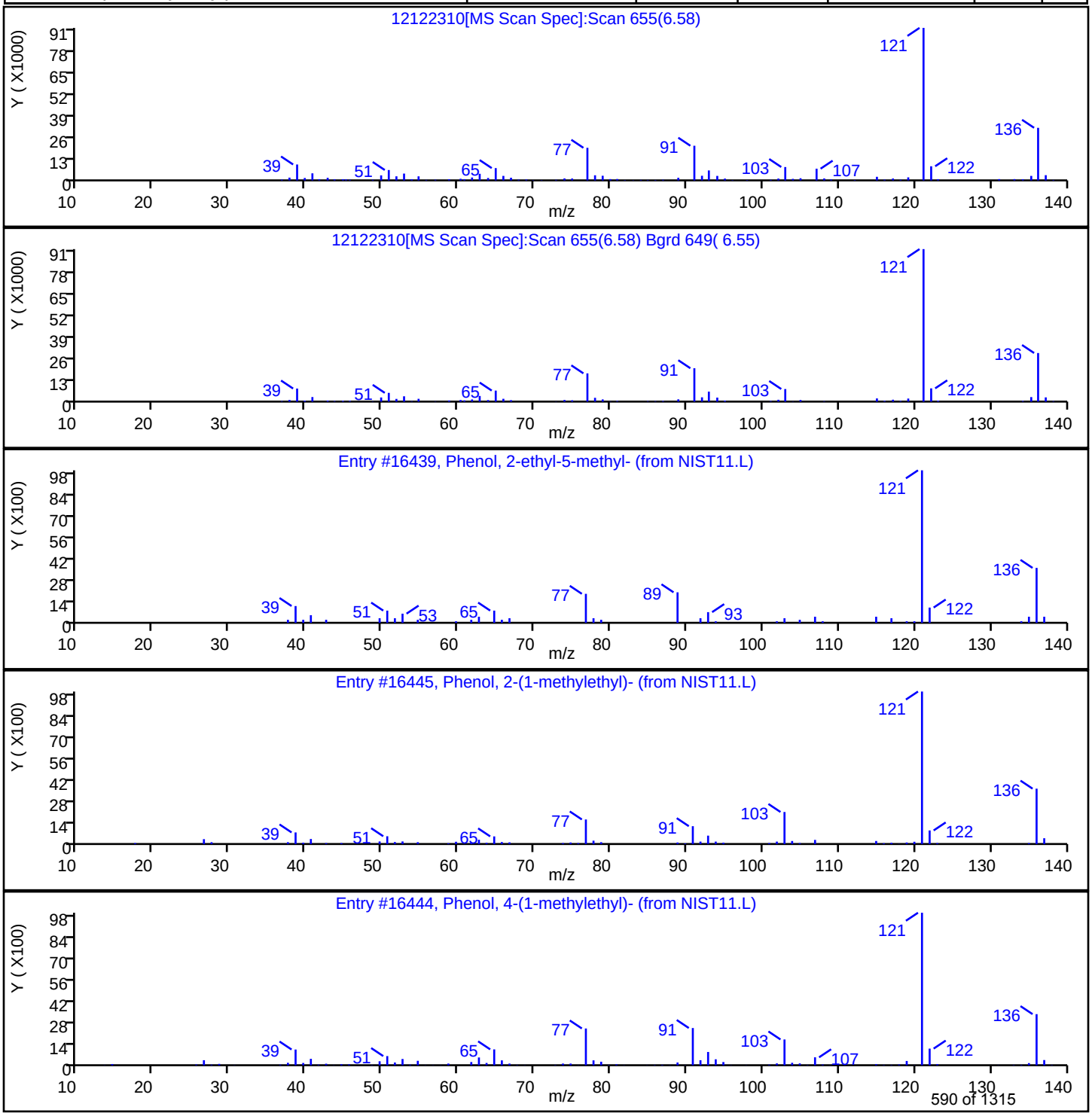
Report Date: 23-Dec-2015 16:08:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	12122315.b, QL12004-003		
Injection Vol.	1.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.576

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16439	C9H12O	136	90
Phenol, 2-(1-methylethyl)-	88-69-7	NIST11	16445	C9H12O	136	87
Phenol, 4-(1-methylethyl)-	99-89-8	NIST11	16444	C9H12O	136	87



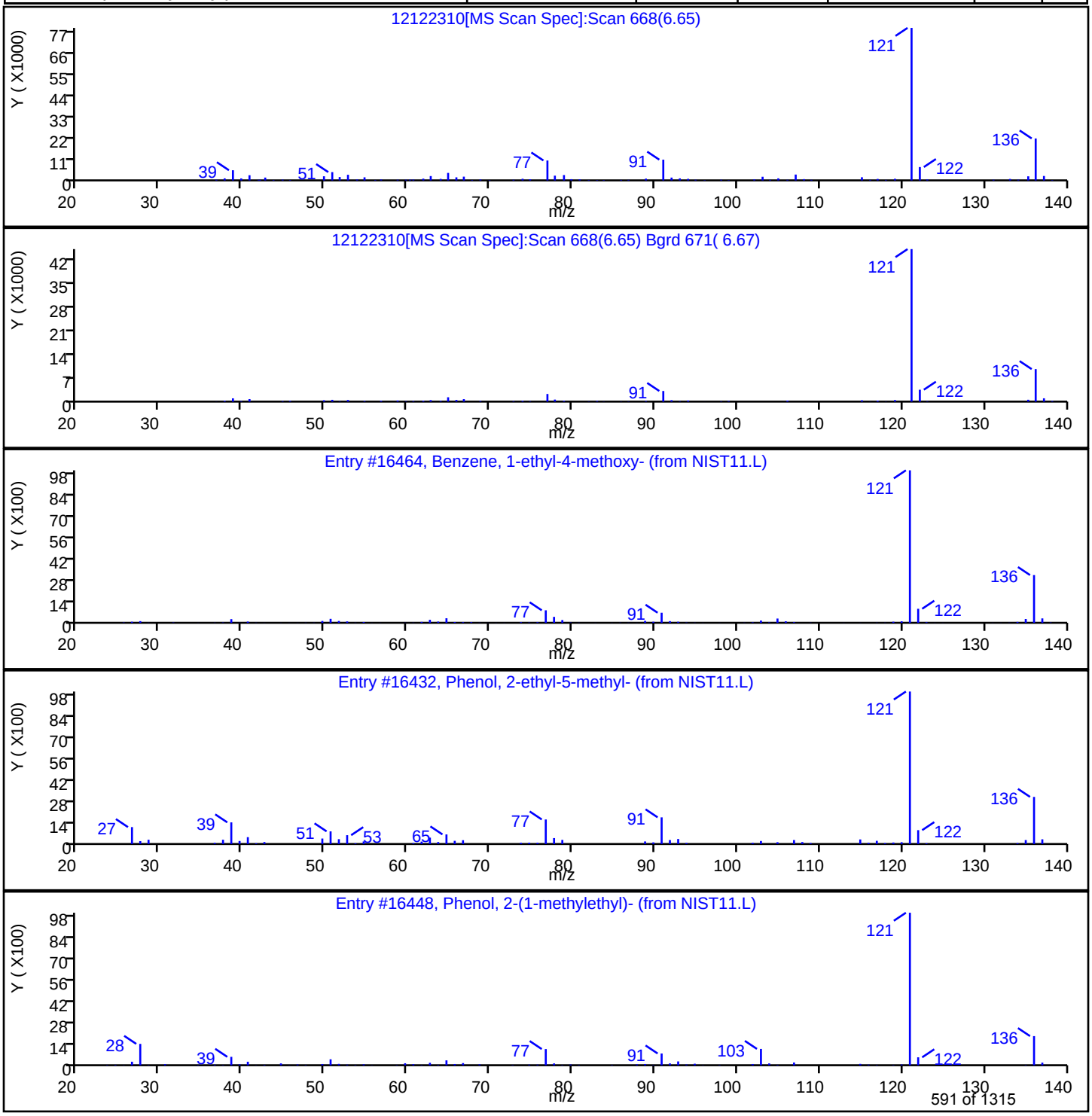
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	12122315.b, QL12004-003		
Injection Vol.	1.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.645

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-4-methoxy-	1515-95-3	NIST11	16464	C9H12O	136	91
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16432	C9H12O	136	91
Phenol, 2-(1-methylethyl)-	88-69-7	NIST11	16448	C9H12O	136	90



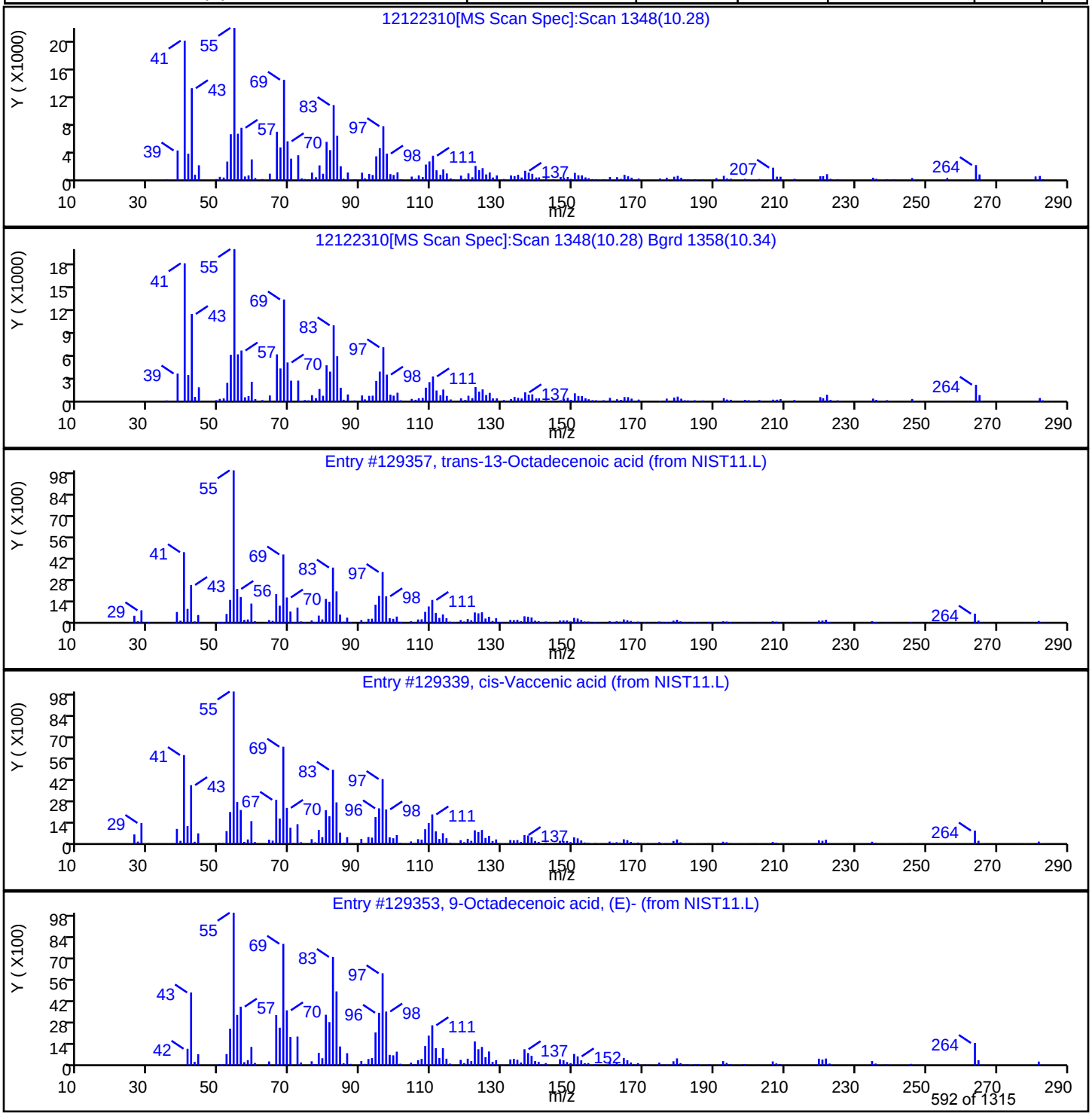
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	12122315.b, QL12004-003		
Injection Vol.	1.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.278

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
trans-13-Octadecenoic acid	693-71-0	NIST11	129357	C18H34O2	282	99
cis-Vaccenic acid	506-17-2	NIST11	129339	C18H34O2	282	99
9-Octadecenoic acid, (E)-	112-79-8	NIST11	129353	C18H34O2	282	99



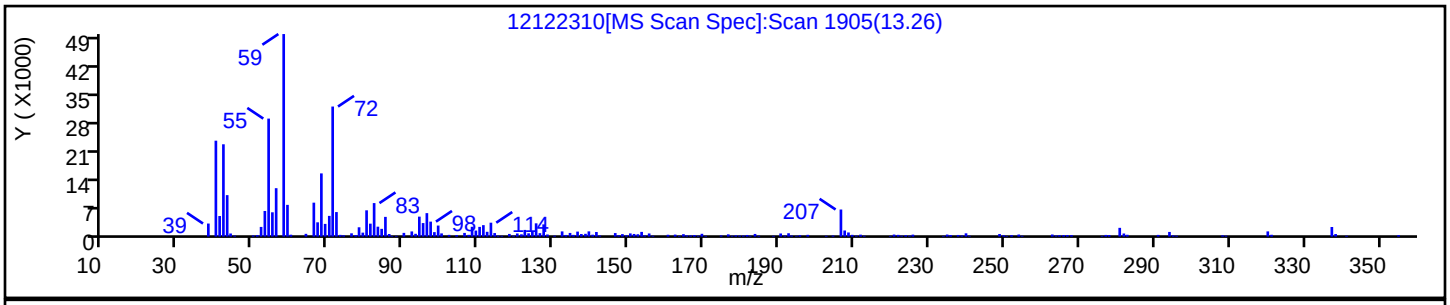
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

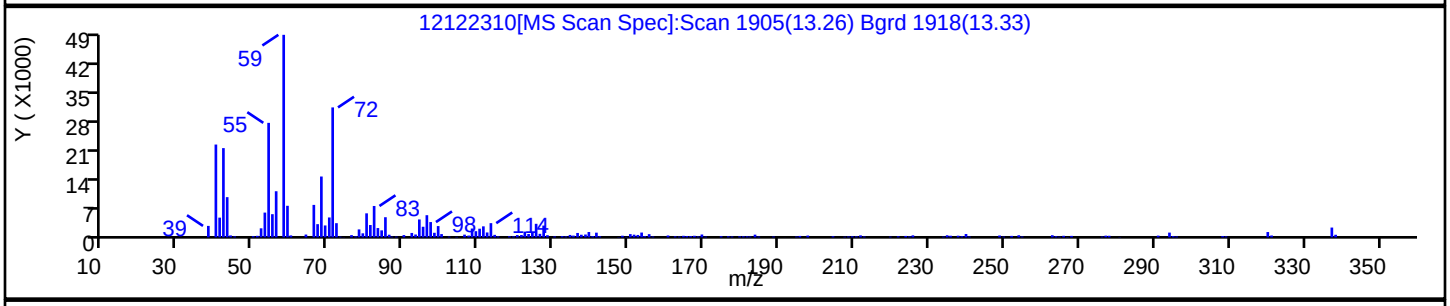
Shealy Environmental Services

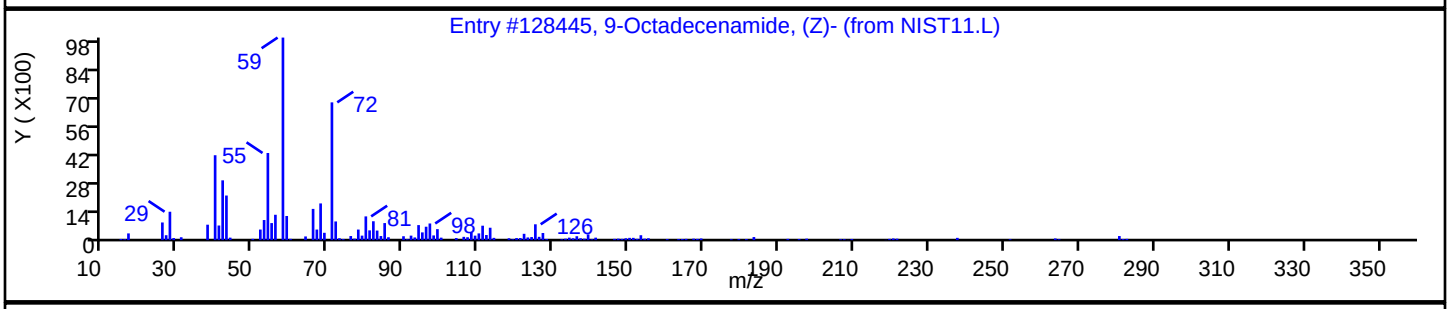
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122310.D		
Injection Date:	23-Dec-2015 12:41:30	Inst. ID:	msd12.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	12122315.b, QL12004-003		
Injection Vol.	1.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

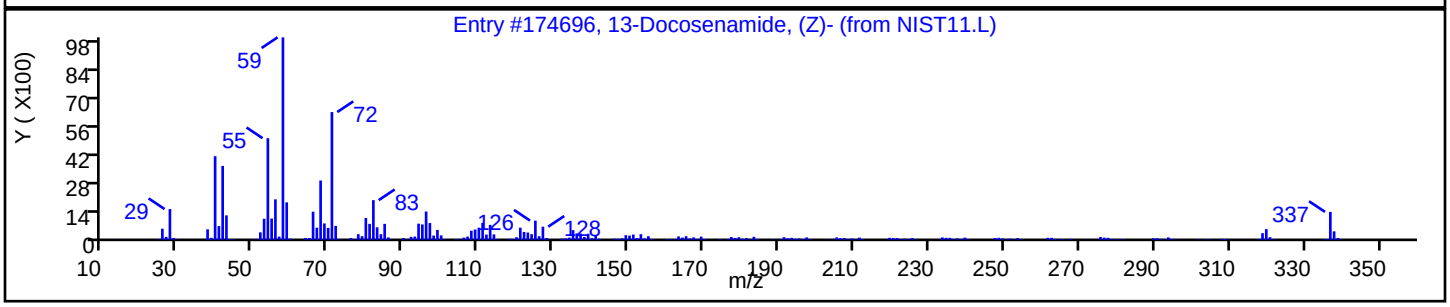
TIC @ 13.254

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
9-Octadecenamide, (Z)-	301-02-0	NIST11	128445	C18H35NO	281	92
13-Docosenamide, (Z)-	112-84-5	NIST11	174696	C22H43NO	337	91









FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R23

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-004
Sample wt/vol: 30.1 (g/mL) g
Lab File ID: 12122209
% Solids: 84.1
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 1000 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	3300	U
100-52-7	Benzaldehyde	16000	U
108-95-2	Phenol	16000	U
111-44-4	Bis(2-Chloroethyl) ether	16000	U
95-57-8	2-Chlorophenol	8100	U
95-48-7	2-Methylphenol	16000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	16000	U
98-86-2	Acetophenone	16000	U
106-44-5	4-Methylphenol	16000	U
621-64-7	N-Nitroso-di-n propylamine	8100	U
67-72-1	Hexachloroethane	8100	U
98-95-3	Nitrobenzene	8100	U
78-59-1	Isophorone	8100	U
88-75-5	2-Nitrophenol	8100	U
105-67-9	2,4-Dimethylphenol	8100	U
111-91-1	Bis(2-chloroethoxy)methane	8100	U
120-83-2	2,4-Dichlorophenol	8100	U
91-20-3	Naphthalene	5500	J
106-47-8	4-Chloroaniline	16000	U
87-68-3	Hexachlorobutadiene	8100	U
105-60-2	Caprolactam	16000	U
59-50-7	4-Chloro-3-methylphenol	8100	U
91-57-6	2-Methylnaphthalene	37000	
77-47-4	Hexachlorocyclo-pentadiene	16000	U
88-06-2	2,4,6-Trichlorophenol	8100	U
95-95-4	2,4,5-Trichlorophenol	8100	U
92-52-4	1,1'-Biphenyl	8100	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R23

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-004
Sample wt/vol: 30.1 (g/mL) g
Lab File ID: 12122209
% Solids: 84.1
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 1000 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	8100	U
88-74-4	2-Nitroaniline	8100	U
131-11-3	Dimethylphthalate	8100	U
606-20-2	2,6-Dinitrotoluene	8100	U
208-96-8	Acenaphthylene	8100	U
99-09-2	3-Nitroaniline	16000	U
83-32-9	Acenaphthene	1300	J
51-28-5	2,4-Dinitrophenol	16000	U
100-02-7	4-Nitrophenol	16000	U
132-64-9	Dibenzofuran	8100	U
121-14-2	2,4-Dinitrotoluene	8100	U
84-66-2	Diethylphthalate	8100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	8100	U
7005-72-3	4-Chlorophenyl-phenyl ether	8100	U
86-73-7	Fluorene	8100	U
100-01-6	4-Nitroaniline	16000	U
534-52-1	4,6-Dinitro-2-methylphenol	16000	U
101-55-3	4-Bromophenyl-phenylether	8100	U
86-30-6	N-Nitrosodiphenylamine	8100	U
118-74-1	Hexachlorobenzene	8100	U
1912-24-9	Atrazine	16000	U
87-86-5	Pentachlorophenol	16000	U
85-01-8	Phenanthrene	12000	
120-12-7	Anthracene	1500	J
86-74-8	Carbazole	16000	U
84-74-2	Di-n-butylphthalate	8100	U
206-44-0	Fluoranthene	16000	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R23

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-004
Sample wt/vol: 30.1 (g/mL) g
Lab File ID: 12122209
% Solids: 84.1
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 1000 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	4500	J
85-68-7	Butylbenzylphthalate	8100	U
91-94-1	3,3'-Dichlorobenzidine	16000	U
56-55-3	Benzo(a)anthracene	1300	J
218-01-9	Chrysene	2900	J
117-81-7	Bis(2-ethylhexyl)phthalate	8100	U
117-84-0	Di-n-octylphthalate	16000	U
205-99-2	Benzo(b)fluoranthene	8100	U
207-08-9	Benzo(k)fluoranthene	8100	U
50-32-8	Benzo(a)pyrene	8100	U
193-39-5	Indeno(1,2,3-cd)pyrene	8100	U
53-70-3	Dibenzo(a,h)anthracene	8100	U
191-24-2	Benzo(g,h,i)perylene	8100	U
58-90-2	2,3,4,6-Tetrachlorophenol	8100	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R23

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-004
Sample wt/vol: 30.1 (g/mL) g
Lab File ID: 12122209
% Solids: 84.1
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Y
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: SONC
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types: GPC
pH: Dilution Factor: 20.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02		Unknown-01	6.72	31000	J
03		Unknown-02	6.79	42000	J
04	90-12-0	Naphthalene, 1-methyl-	7.20	36000	NJ
05					
06	13360-61-7	1-Pentadecene	7.45	33000	NJ
07	581-42-0	Naphthalene, 2,6-dimethyl-	7.63	39000	NJ
08	569-41-5	Naphthalene, 1,8-dimethyl-	7.72	35000	NJ
09	573-98-8	Naphthalene, 1,2-dimethyl-	7.80	27000	NJ
10		Unknown PAH	8.07	30000	J
11	829-26-5	Naphthalene, 2,3,6-trimethyl-	8.15	29000	NJ
12		Unknown-03	8.31	30000	J
13		Unknown-04	8.34	38000	J
14		Unknown-05	8.52	39000	J
15					
16	2717-39-7	1,4,5,8-	8.75	37000	NJ
17	3031-15-0	Naphthalene, 1,2,3,4-	8.82	44000	NJ
18		Unknown-06	8.92	26000	J
19		Unknown-07	9.00	33000	J
20	66563-30-2	Bacchotricuneatin c	9.08	44000	NJ
21		Unknown-08	9.19	27000	J
22					
23		Unknown-09	9.45	36000	J
24	7372-88-5	Dibenzothiophene, 4-methyl-	9.55	37000	NJ
25	610-48-0	Anthracene, 1-methyl-	9.73	28000	NJ
26	13187-99-0	2-Bromo dodecane	9.82	30000	NJ
27		Unknown-10	9.95	28000	J
28	3674-69-9	Phenanthrene, 4,5-dimethyl-	10.11	34000	NJ
29					
30		Unknown-11	10.75	33000	J
	E966796[2]	Total Alkanes	N/A	215000	J

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Lab Sample ID:	QL12004-004	Client Sample ID:	F6R23
Injection Date:	22-Dec-2015 13:08:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL12004-004		
Misc. Info:	92512 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	7
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	1000.00	Volume of final extract (uL)
Ws	30.100	Weight of sample extracted (g)
M	15.900	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	04-Jan-2016 14:42:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 3 Phenol-d5	99.0		5.123		ND			
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0		3.317		ND			
4 Phenol	94.0		5.134		ND			
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	11362	0.55644	879.25	Qe
5 bis(2-Chloroethyl)Ether	93.0		5.230		ND			
$ 6 2-Chlorophenol-d4	132.0		5.299		ND			
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	330512	20.000	31603	
10 2-Methylphenol	108.0		5.614		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0		5.710		ND			
14 4-Methylphenol	108.0		5.732		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0		5.913		ND			
17 Nitrobenzene	77.0		5.930		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.170		ND			
$ 95 2-Nitrophenol-d4	143.0		6.175		ND			
19 2-Nitrophenol	139.0		6.186		ND			

Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122209.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			
$ 96 2,4-Dichlorophenol-d3	165.0		6.368		ND			
22 2,4-Dichlorophenol	162.0		6.373		ND			
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1612350	20.000	31603	Q
24 Naphthalene	128.0	6.533	6.533	0.000	302981	3.4862	5508.77	Qe
$ 97 4-Chloroaniline-d4	131.0	6.528	6.544	-0.016	401508	11.366	17960	QR
25 4-Chloroaniline	127.0		6.549		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.918		ND			
29 2-Methylnaphthalene	142.0	7.105	7.105	0.000	1306034	23.289	36800	
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.522		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.682	7.687	-0.005	56357	0.79192	1251.35	Qe
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.874	7.869	0.005	72710	0.77219	1220.17	Qe
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	8.002	7.997	0.005	1089517	20.000	31603	
43 2,4-Dinitrophenol	184.0		8.018		ND			
42 Acenaphthene	153.0	8.029	8.024	0.005	56185	0.82453	1302.88	Qe
$ 100 4-Nitrophenol-d4	143.0	8.040	8.034	0.006	62590	3.5973	5684.33	QeR
44 4-Nitrophenol	109.0		8.040		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	57581	0.86238	1362.69	Qe
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.483	8.472	0.011	61088	3.2187	5086.09	QeR
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.943		ND			
57 Pentachlorophenol	266.0		9.087		ND			
* 58 Phenanthrene-d10	188.0	9.274	9.268	0.006	2085210	20.000	31603	Q
59 Phenanthrene	178.0	9.295	9.290	0.005	877444	7.5570	11941	Q
$ 103 Anthracene-d10	188.0	9.322	9.316	0.006	103118	0.96999	1532.73	Qe
60 Anthracene	178.0	9.338	9.338	0.000	113903	0.97060	1533.69	Qe
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.664		ND			
63 Fluoranthene	202.0		10.401		ND			

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Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122209.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 104 Pyrene-d10	212.0	10.641	10.636	0.005	93684	0.85279	1347.54	Qe
64 Pyrene	202.0	10.663	10.663	0.000	374950	2.8226	4460.09	e
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.004		ND			
68 3,3'-Dichlorobenzidine	252.0		12.068		ND			
67 Benzo(a)anthracene	228.0	12.164	12.159	0.005	108472	0.81968	1295.21	Qe
* 69 Chrysene-d12	240.0	12.185	12.180	0.005	2517717	20.000	31603	
70 Chrysene	228.0	12.217	12.217	0.000	230135	1.8404	2908.09	Qe
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.852		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.322	14.317	0.005	77092	0.70053	1106.94	e
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.472	14.461	0.011	2270142	20.000	31603	
77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

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Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Lab Sample ID:	QL12004-004	Client Sample ID:	F6R23
Injection Date:	22-Dec-2015 13:08:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL12004-004		
Misc. Info:	92512 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	7
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	1000.00	Volume of final extract (uL)
Ws	30.100	Weight of sample extracted (g)
M	15.900	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	04-Jan-2016 14:42:30

Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown Alkane						
6.485	13809355	18.765	29651	23				
		Unknown						
6.720	14328557	19.470	30766	23				
		Unknown						
6.790	19581554	26.608	42045	23				
90-12-0		Naphthalene, 1-methyl-						
7.196	16766010	22.782	36000	23	93	19232	C11H10	142
		Unknown Alkane						
7.297	23918166	29.289	46282	41				
13360-61-7		1-Pentadecene						
7.452	16948212	20.754	32795	41	86	69579	C15H30	210
581-42-0		Naphthalene, 2,6-dimethyl-						
7.634	20386834	24.965	39449	41	98	28472	C12H12	156
569-41-5		Naphthalene, 1,8-dimethyl-						
7.719	18057593	22.113	34941	41	95	28491	C12H12	156
573-98-8		Naphthalene, 1,2-dimethyl-						
7.799	13877442	16.994	26853	41	94	28471	C12H12	156
		Unknown PAH						
8.072	15372328	18.825	29745	41				
829-26-5		Naphthalene, 2,3,6-trimethyl-						
8.152	14954520	18.313	28937	41	93	38371	C13H14	170

RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
8.312	15453088	18.923	29902	41				
		Unknown						
8.344	19470177	23.843	37675	41				
		Unknown						
8.521	19911032	24.382	38528	41				
		Unknown Alkane						
8.686	32027563	39.468	62366	58				
2717-39-7	1,4,5,8-Tetramethylnaphthalene							
8.750	19163838	23.616	37317	58	94	48928	C14H16	184
3031-15-0	Naphthalene, 1,2,3,4-tetramethyl-							
8.820	22748162	28.033	44297	58	96	48934	C14H16	184
		Unknown						
8.921	13219523	16.291	25742	58				
		Unknown						
9.001	16793932	20.696	32702	58				
66563-30-2	Bacchotricuneatin c							
9.076	22383994	27.584	43587	58	96	178298	C20H22O5	342
		Unknown						
9.188	14088623	17.362	27434	58				
		Unknown Alkane						
9.370	23205752	28.597	45188	58				
		Unknown						
9.450	18579591	22.896	36179	58				
7372-88-5	Dibenzothiophene, 4-methyl-							
9.552	19198430	23.659	37384	58	86	59733	C13H10S	198
610-48-0	Anthracene, 1-methyl-							
9.733	14597900	17.989	28426	58	92	54732	C15H12	192
13187-99-0	2-Bromo dodecane							
9.819	15521330	19.127	30224	58	89	100330	C12H25Br	248
		Unknown						
9.952	14525769	17.900	28285	58				
3674-69-9	Phenanthrene, 4,5-dimethyl-							
10.107	17483521	21.545	34045	58	92	66264	C16H14	206
		Unknown Alkane						
10.230	16498646	20.332	32127	58				
		Unknown						
10.748	13547355	20.778	32832	69				

Quant. Compounds	RT	Response	Amount ng/ul
* 23 Naphthalene-d8	6.517	14718380	20.000
* 41 Acenaphthene-d10	8.002	16332253	20.000
* 58 Phenanthrene-d10	9.274	16229460	20.000
* 69 Chrysene-d12	12.185	13040097	20.000

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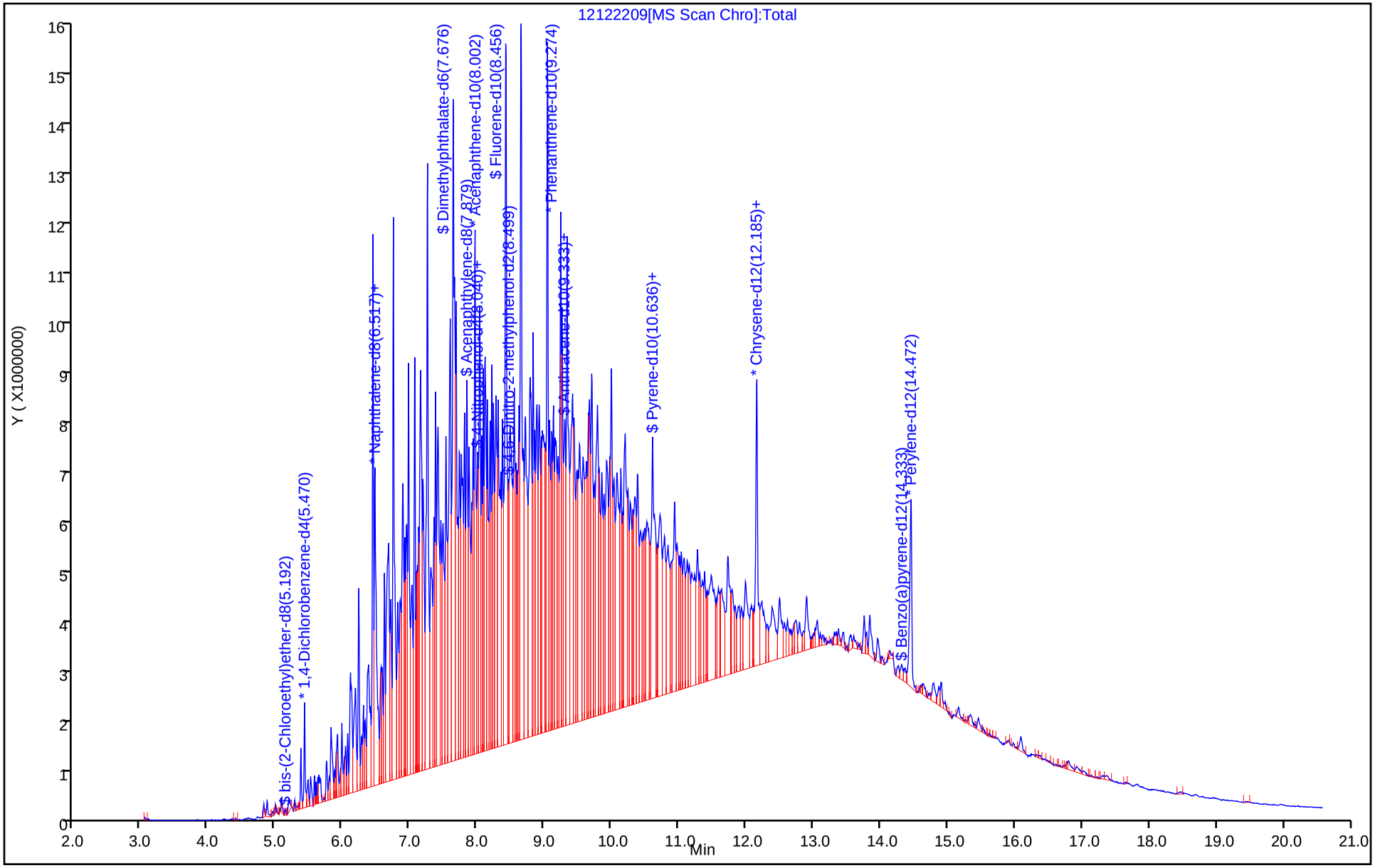
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D				
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R23	Lab ID:	QL12004-004		
Sample Info:	12122215.b, QL12004-004				
Injection Vol.	1.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

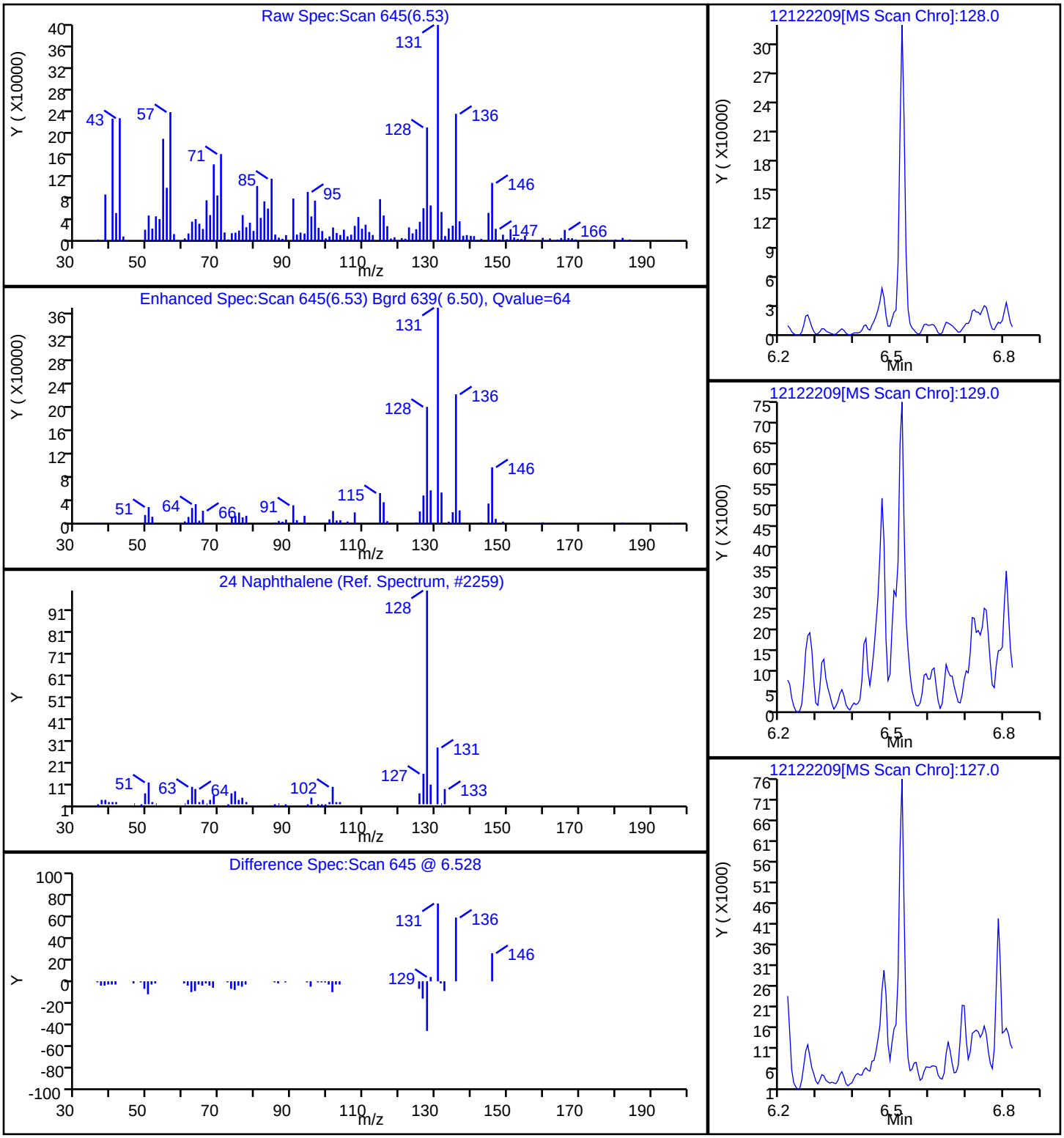


Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene

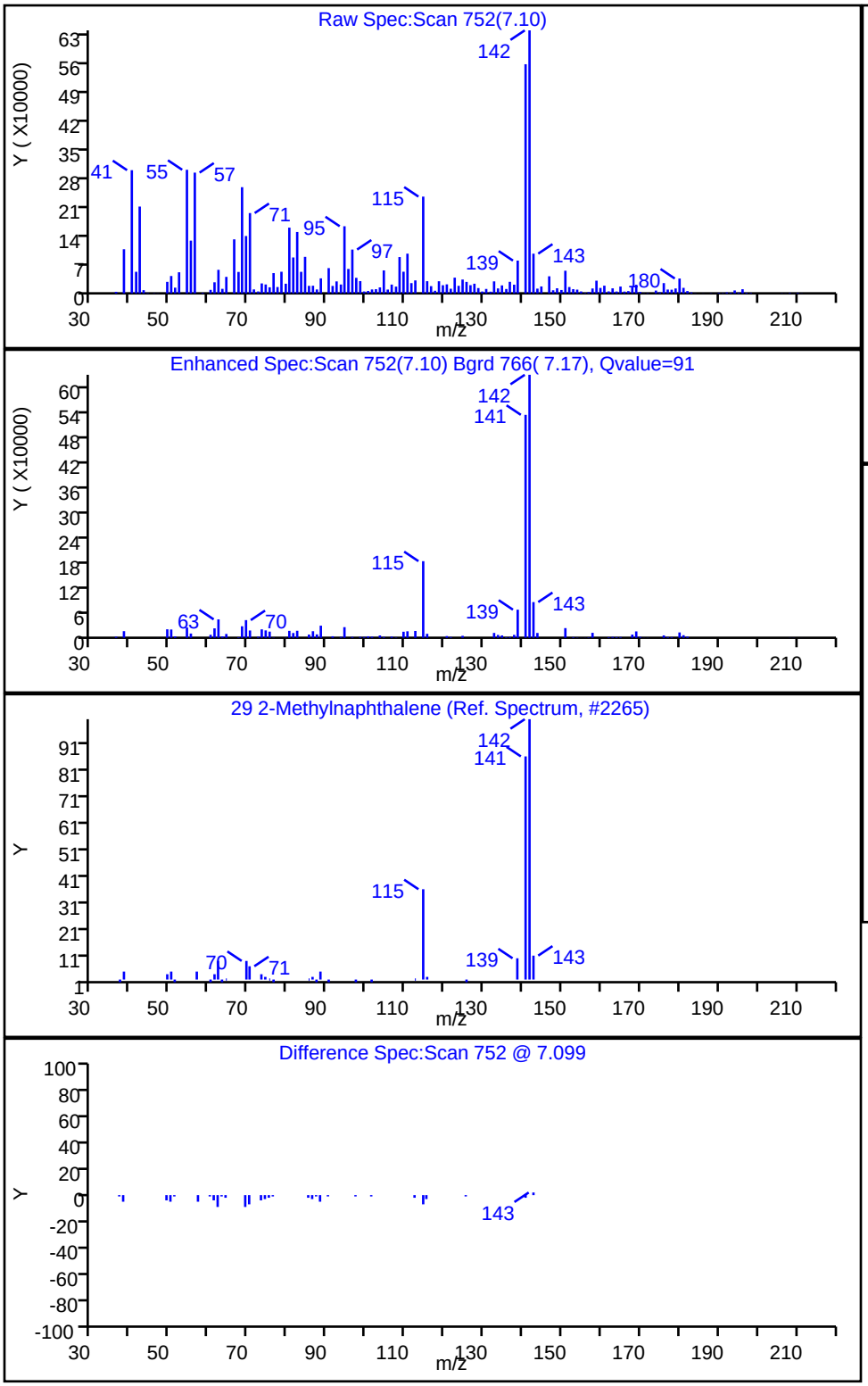


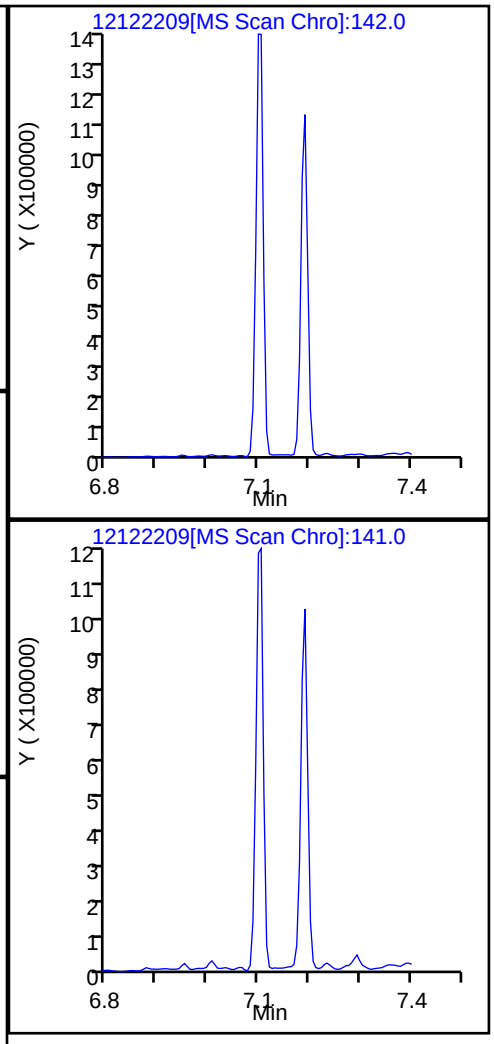
Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene



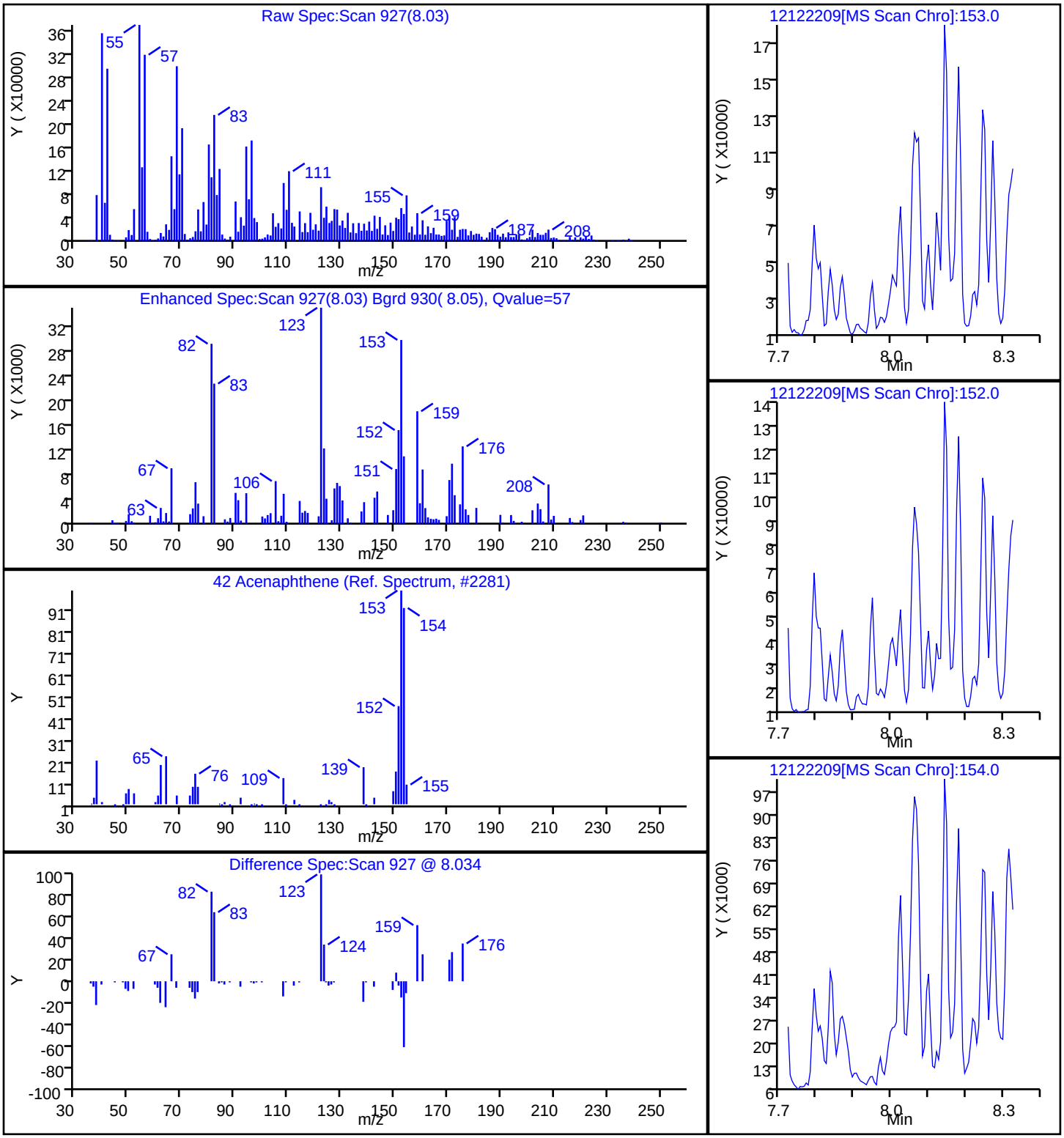


Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

42 Acenaphthene

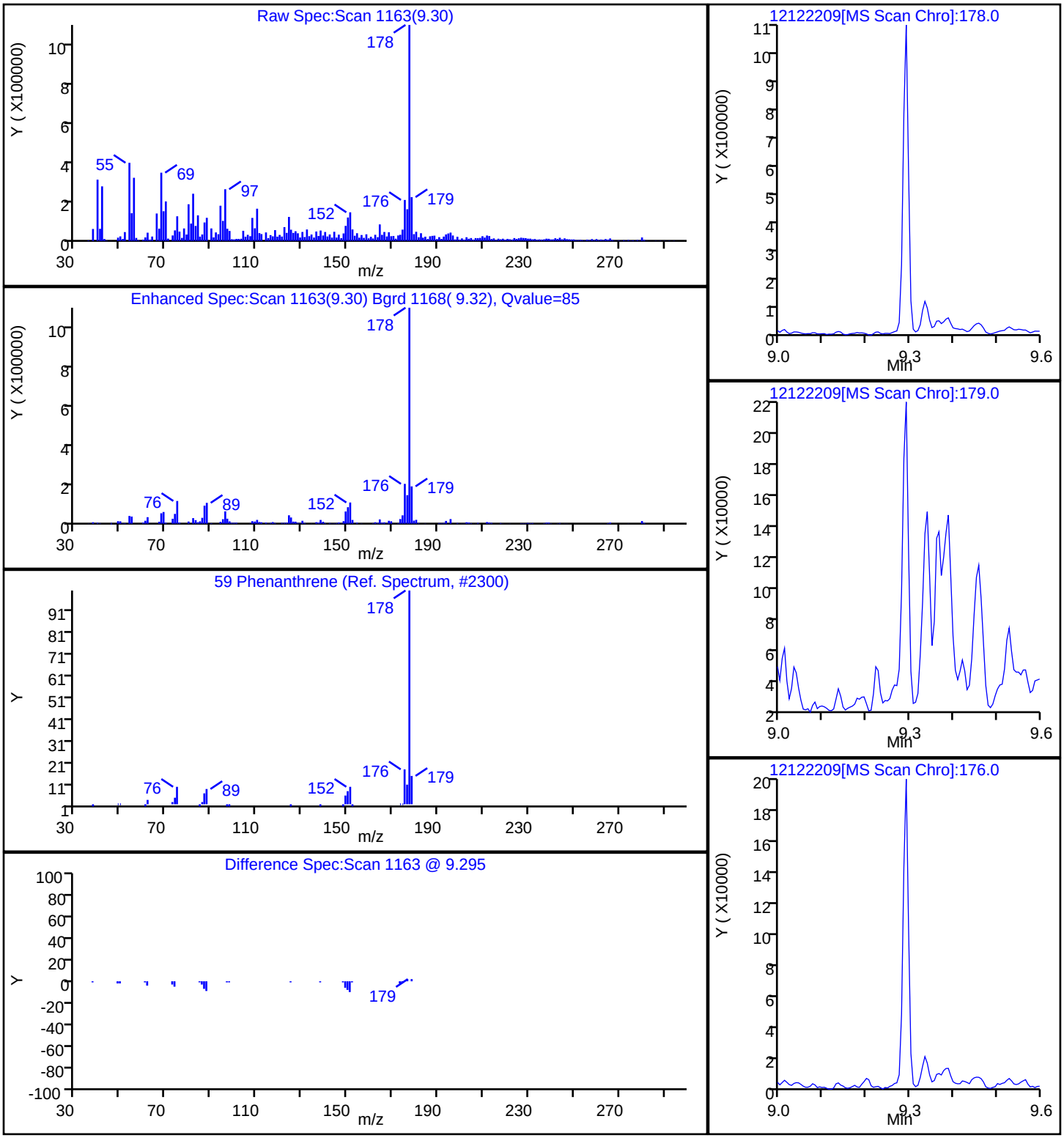


Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene

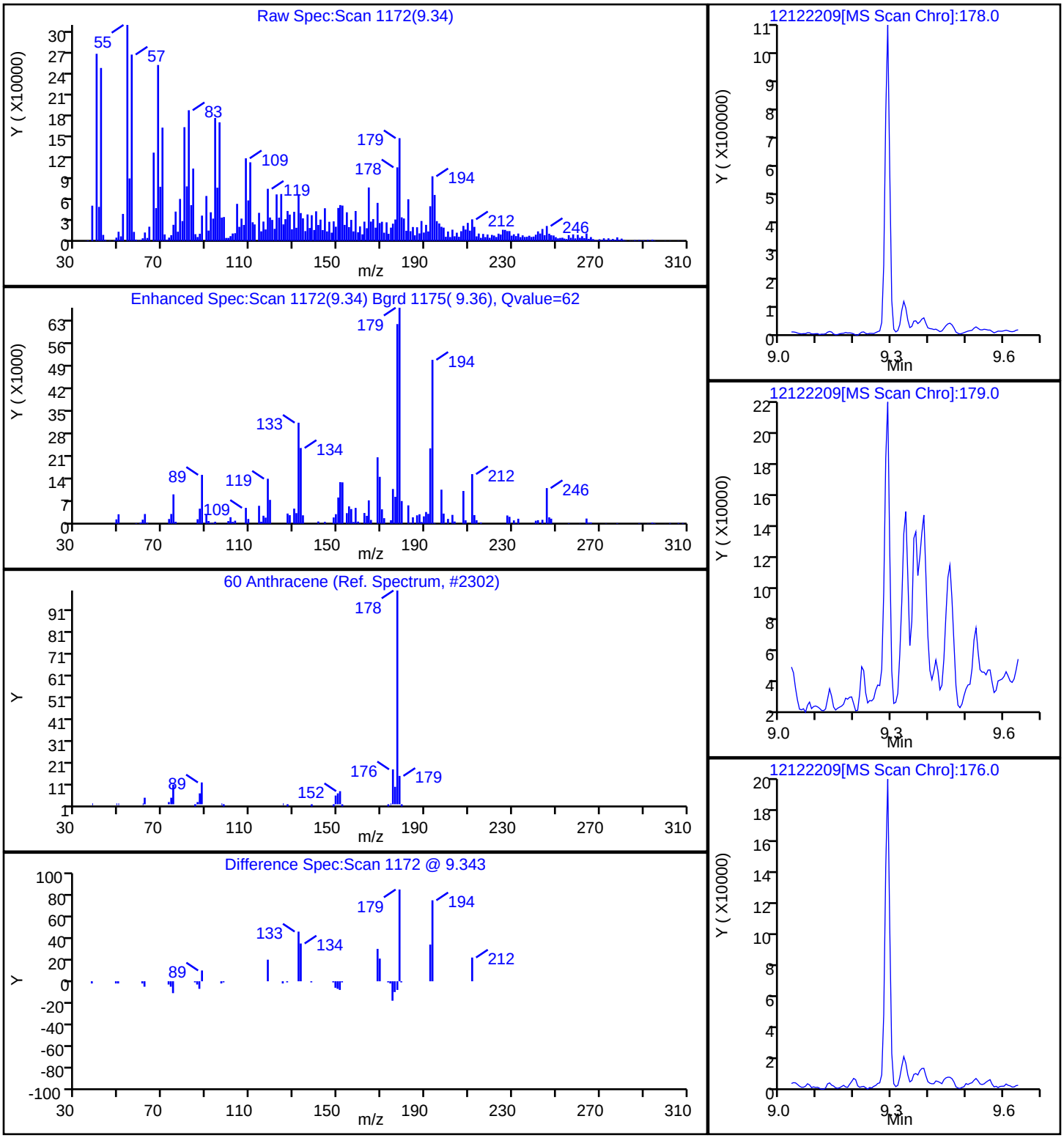


Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

60 Anthracene

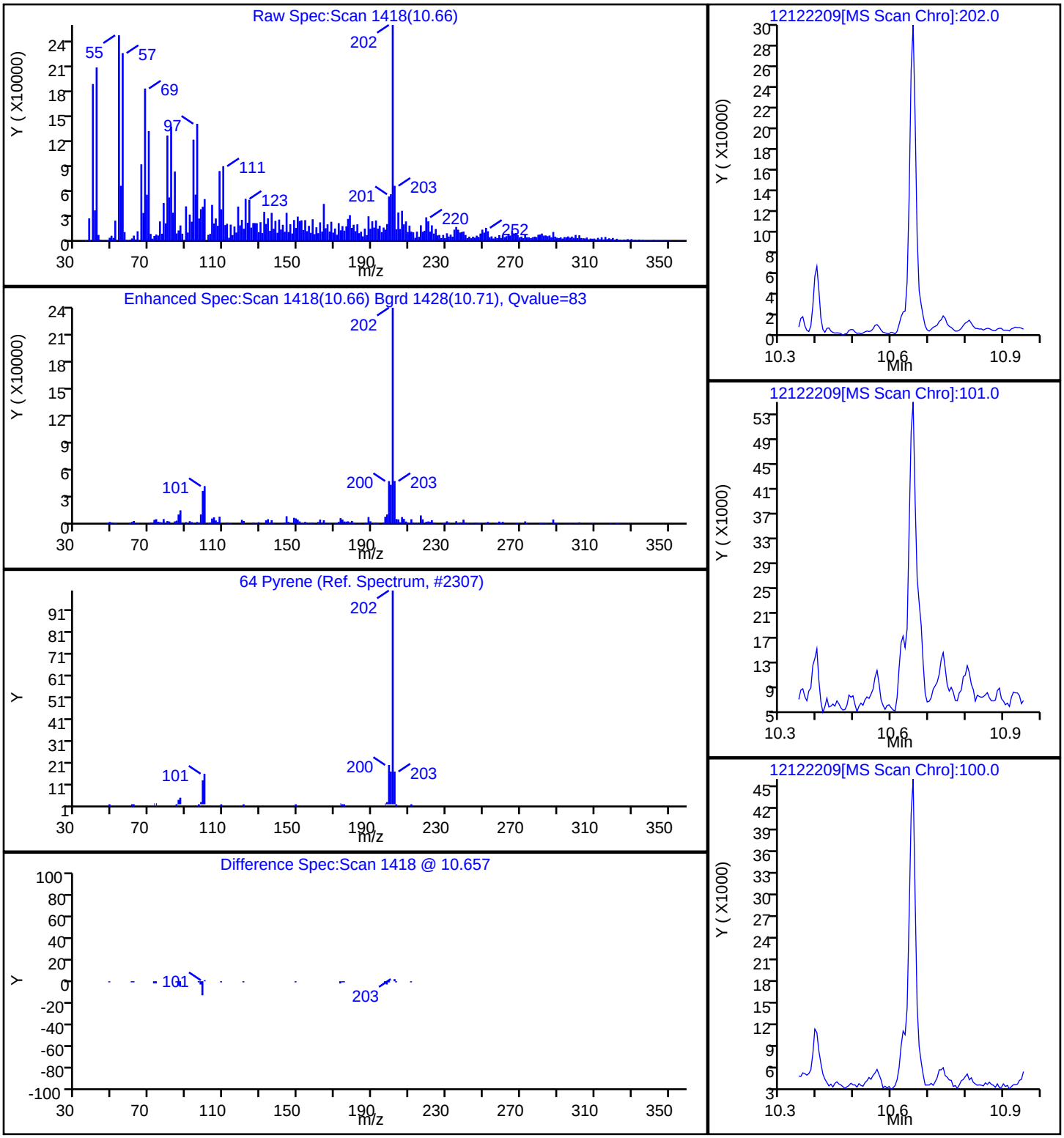


Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

64 Pyrene

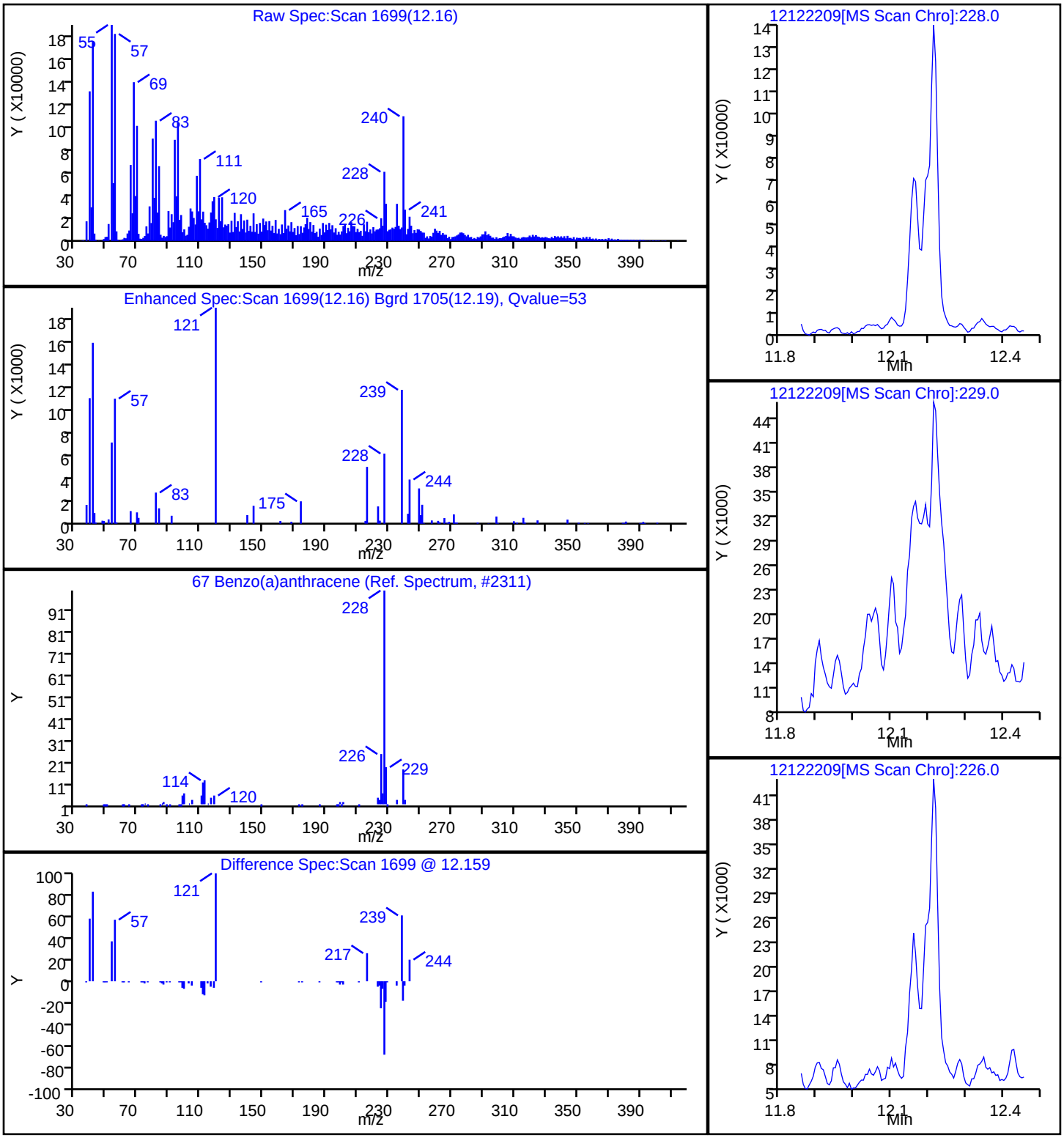


Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

67 Benzo(a)anthracene

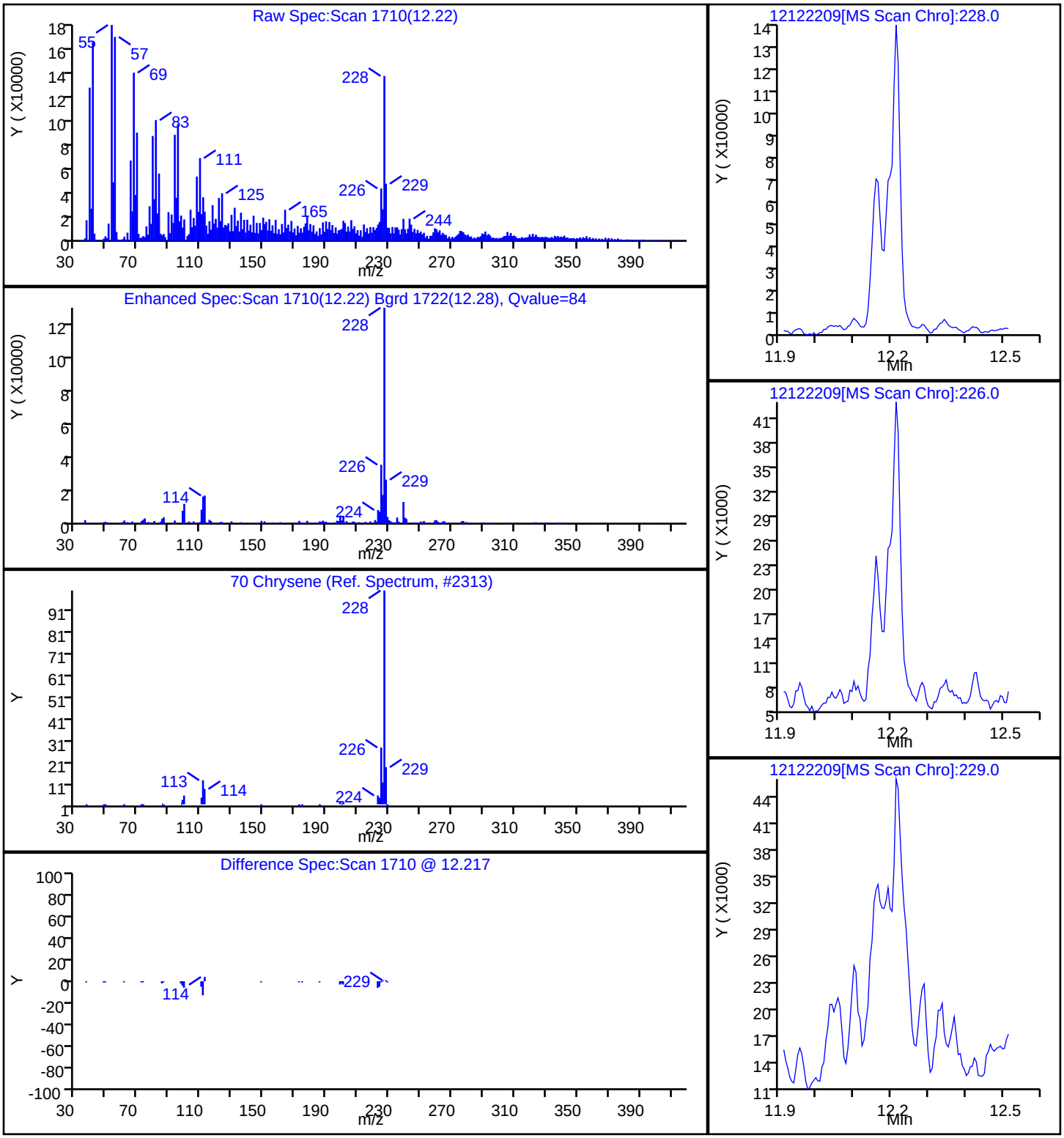


Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene



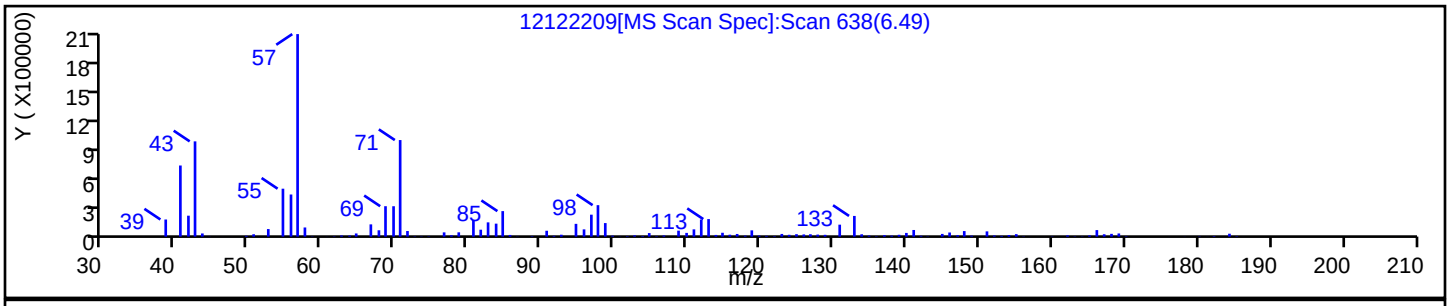
Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

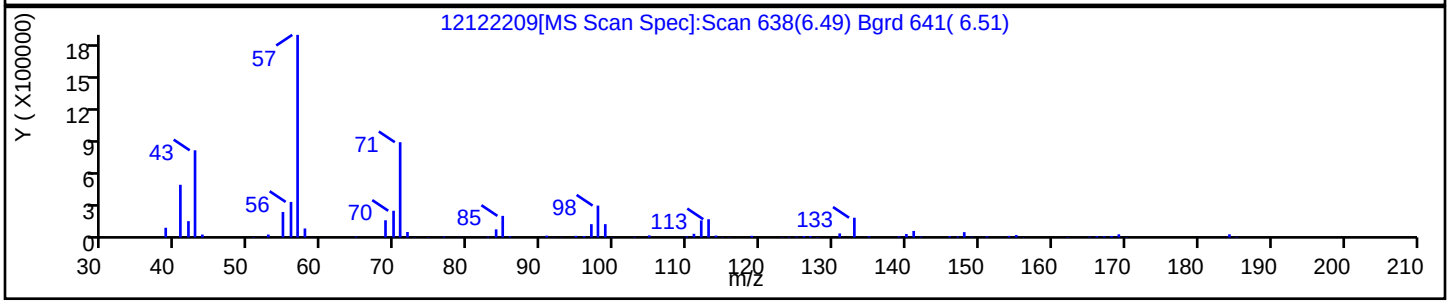
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.485

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





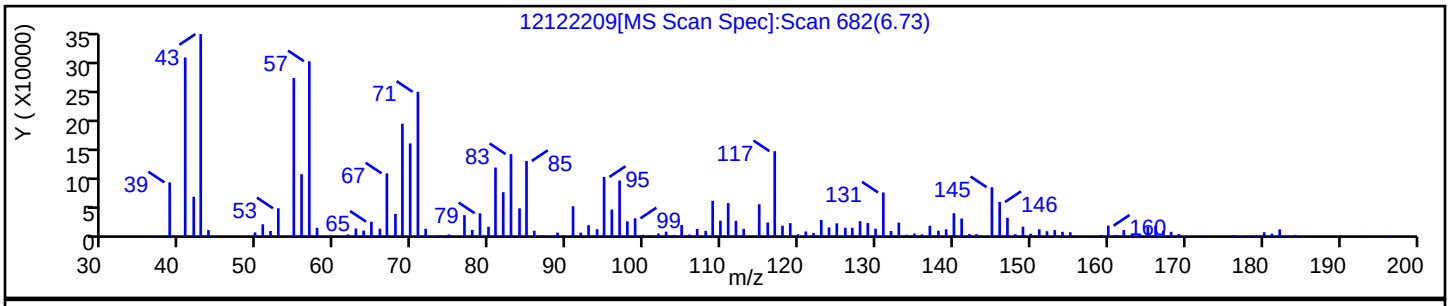
Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

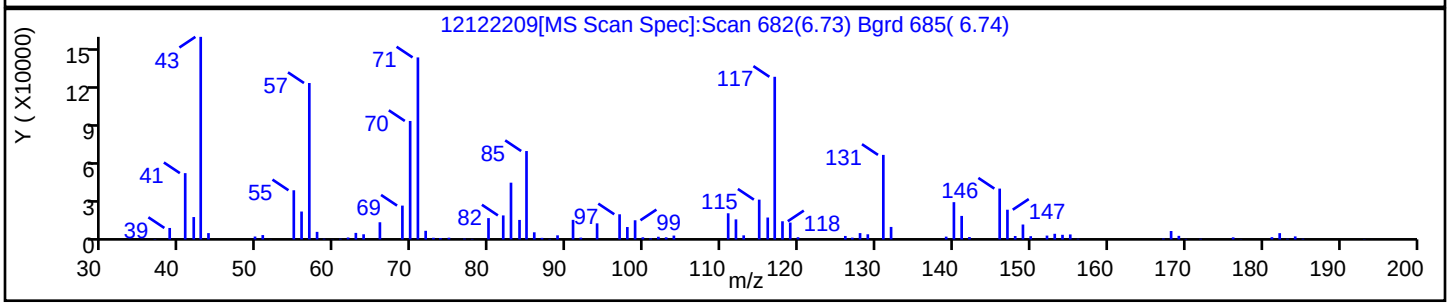
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.720

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





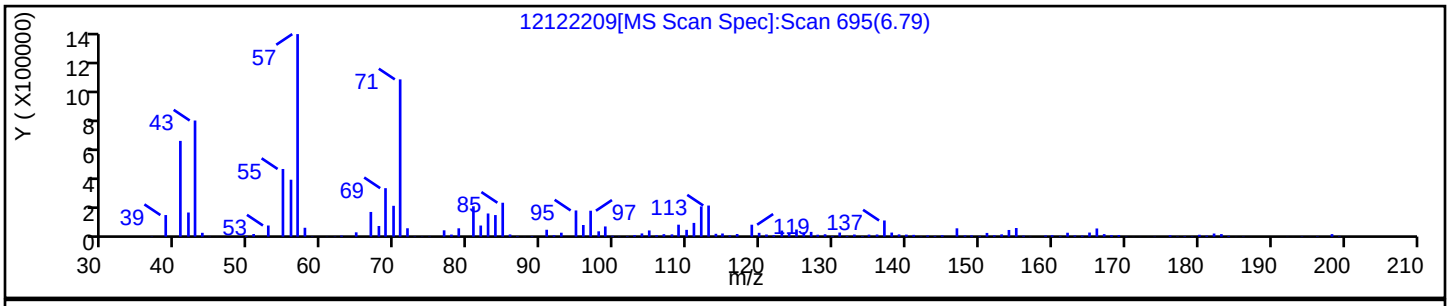
Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

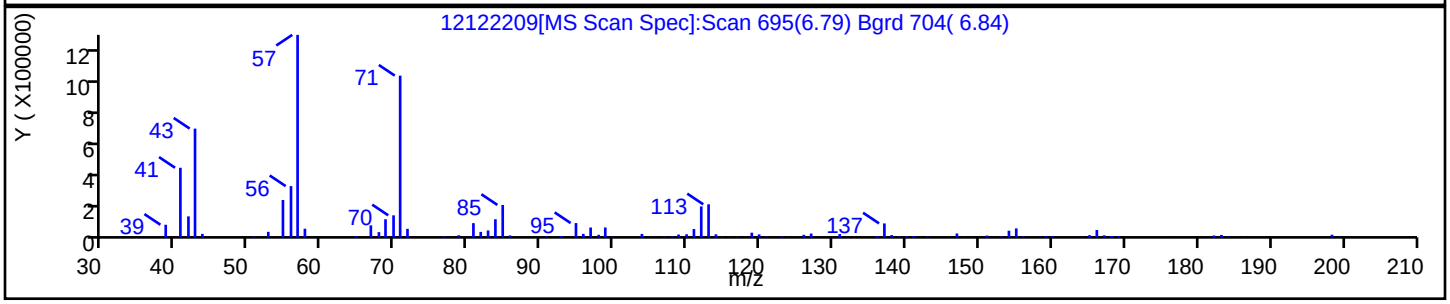
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.790

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





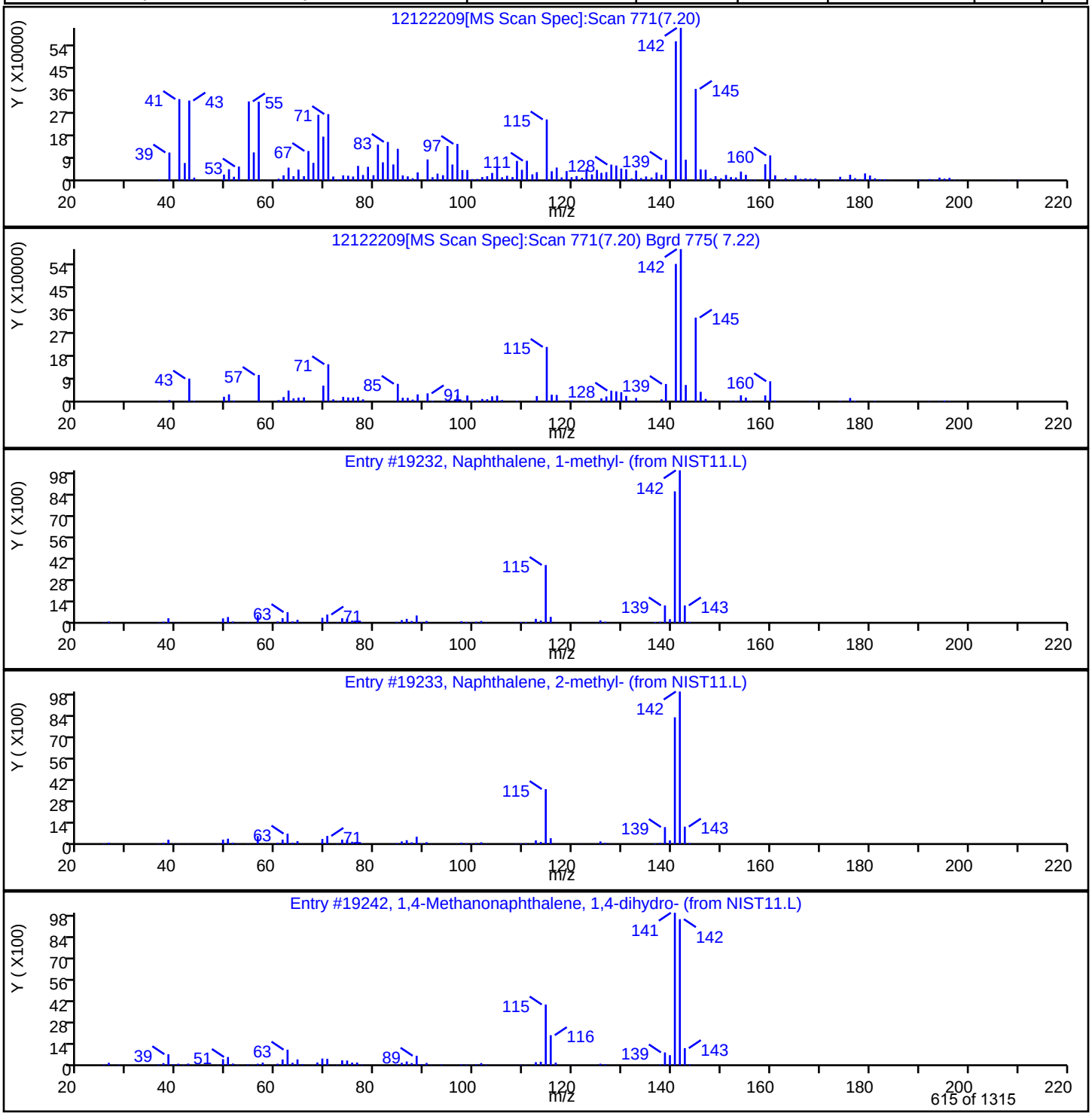
Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.196

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	93
Naphthalene, 2-methyl-	91-57-6	NIST11	19233	C11H10	142	93
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST11	19242	C11H10	142	91



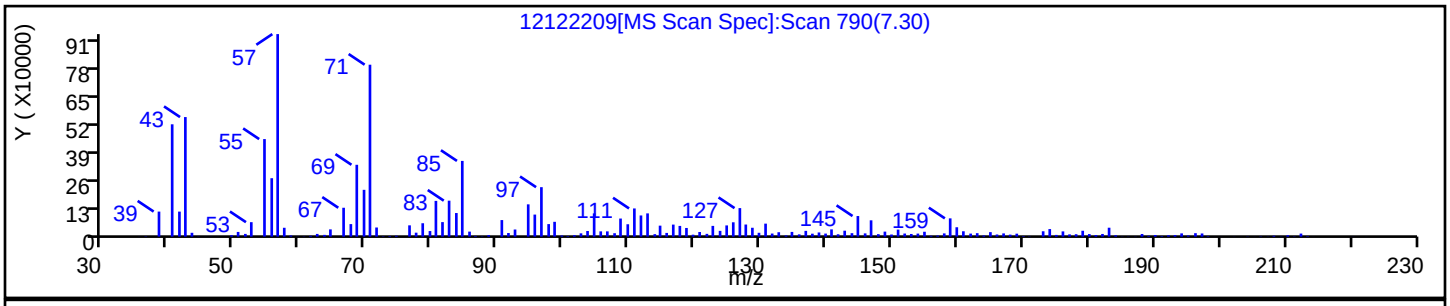
Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

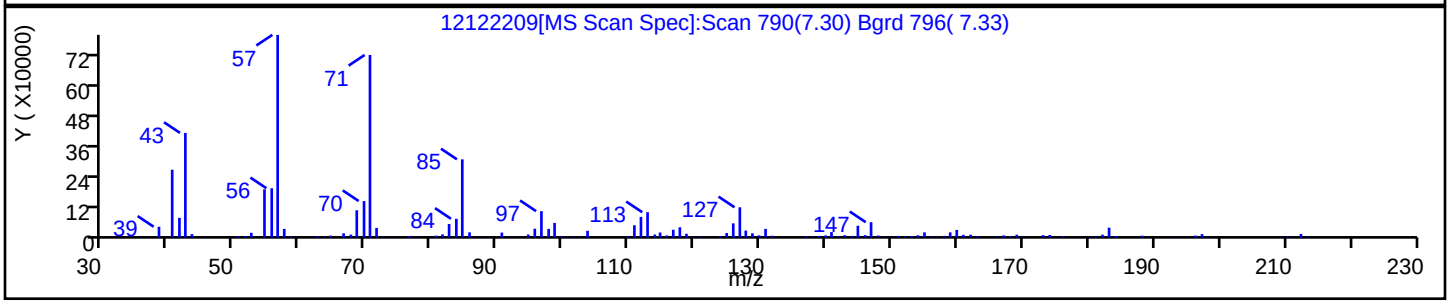
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.297

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





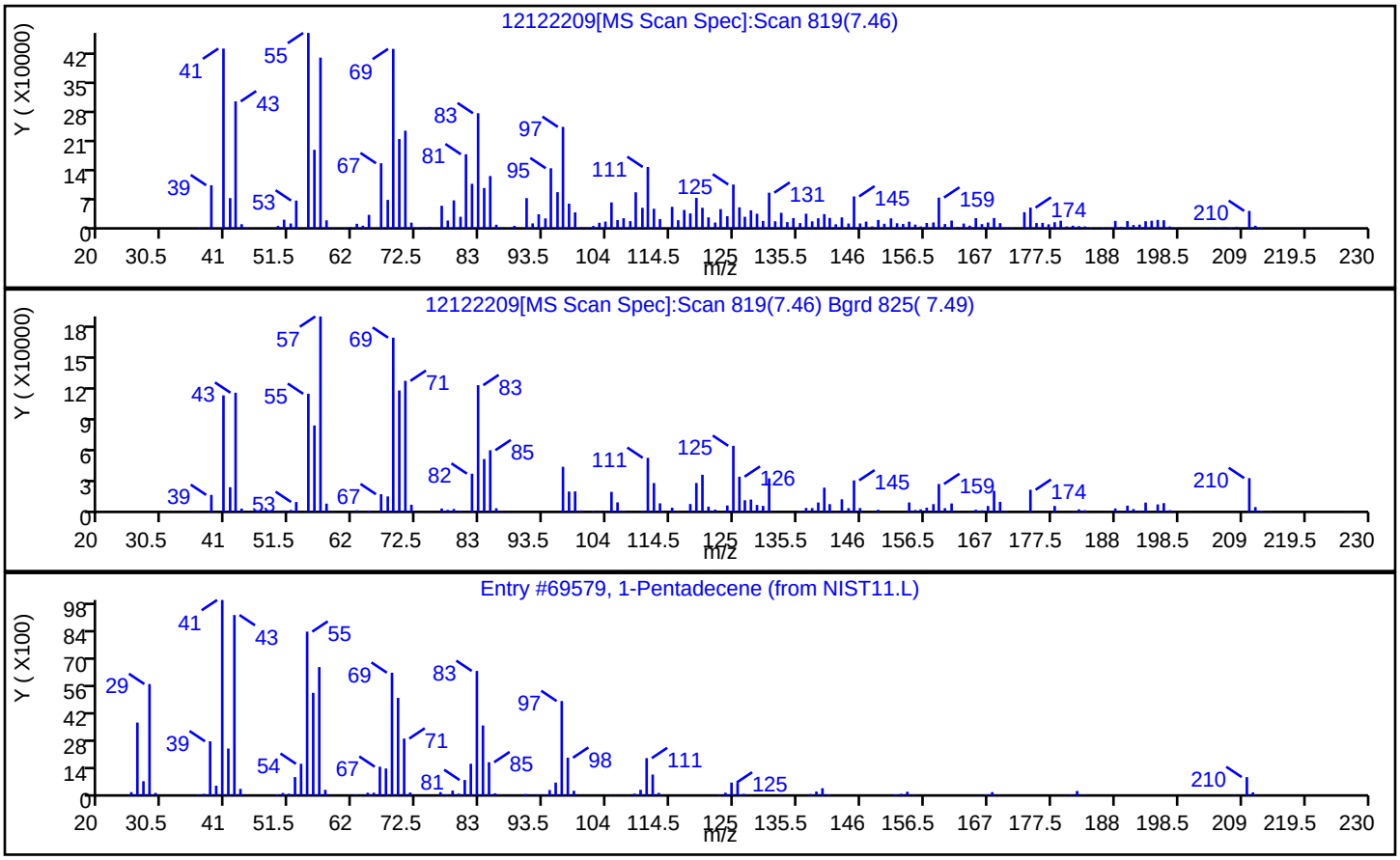
Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.452

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1-Pentadecene	13360-61-7	NIST11	69579	C15H30	210	86



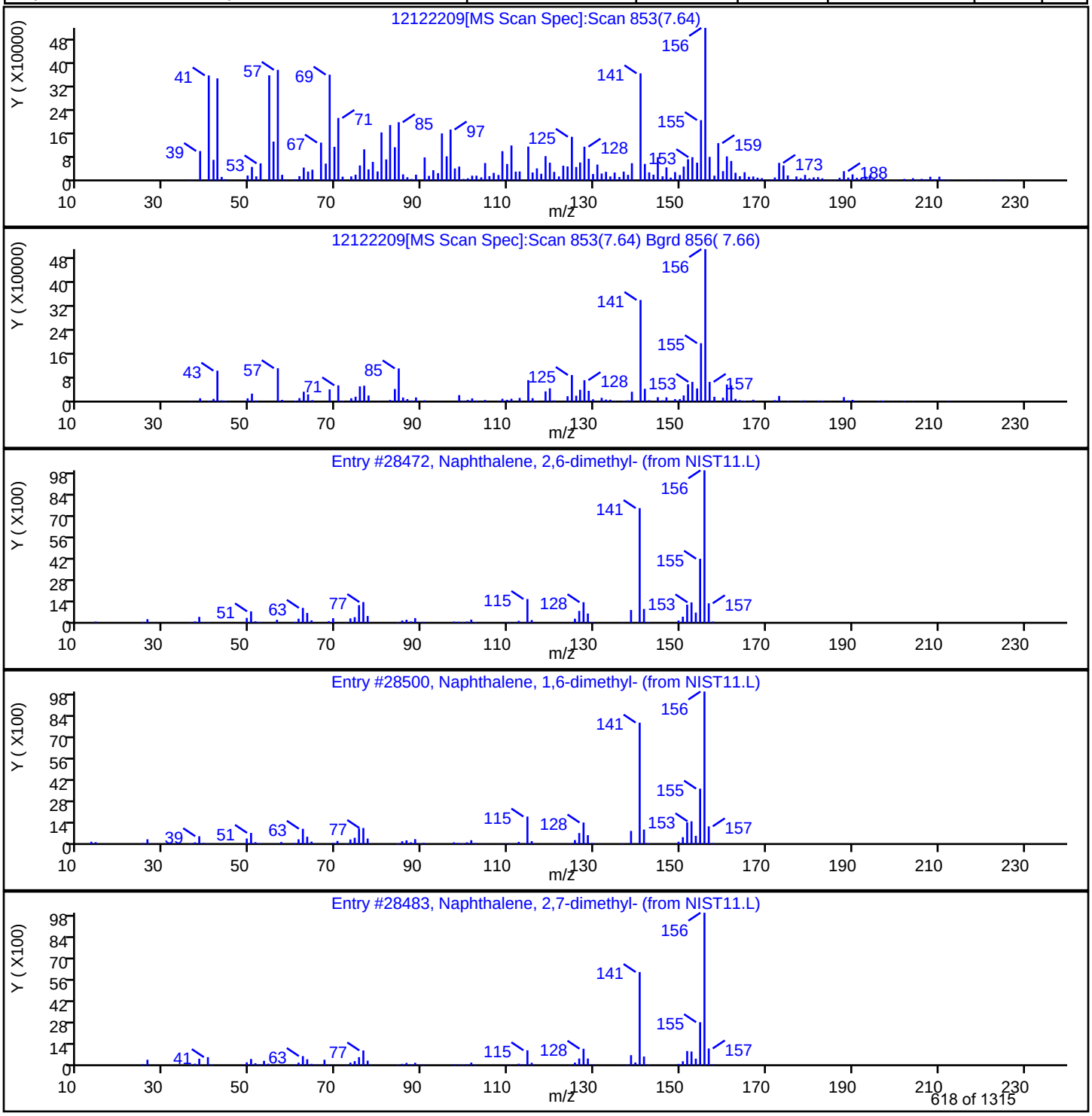
Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.634

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 2,6-dimethyl-	581-42-0	NIST11	28472	C12H12	156	98
Naphthalene, 1,6-dimethyl-	575-43-9	NIST11	28500	C12H12	156	98
Naphthalene, 2,7-dimethyl-	582-16-1	NIST11	28483	C12H12	156	97



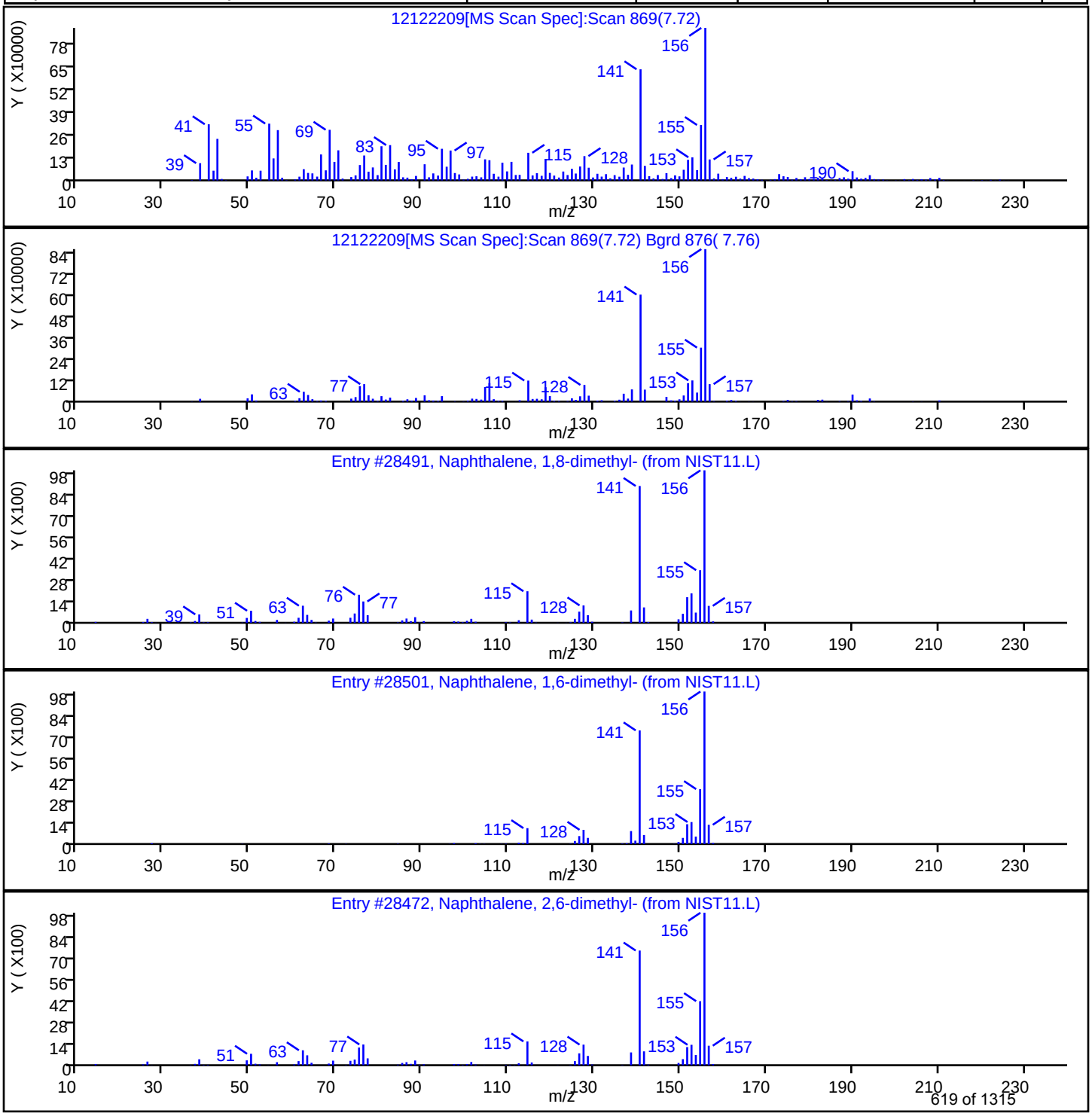
Report Date: 04-Jan-2016 14:42:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.719

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,8-dimethyl-	569-41-5	NIST11	28491	C12H12	156	95
Naphthalene, 1,6-dimethyl-	575-43-9	NIST11	28501	C12H12	156	95
Naphthalene, 2,6-dimethyl-	581-42-0	NIST11	28472	C12H12	156	95



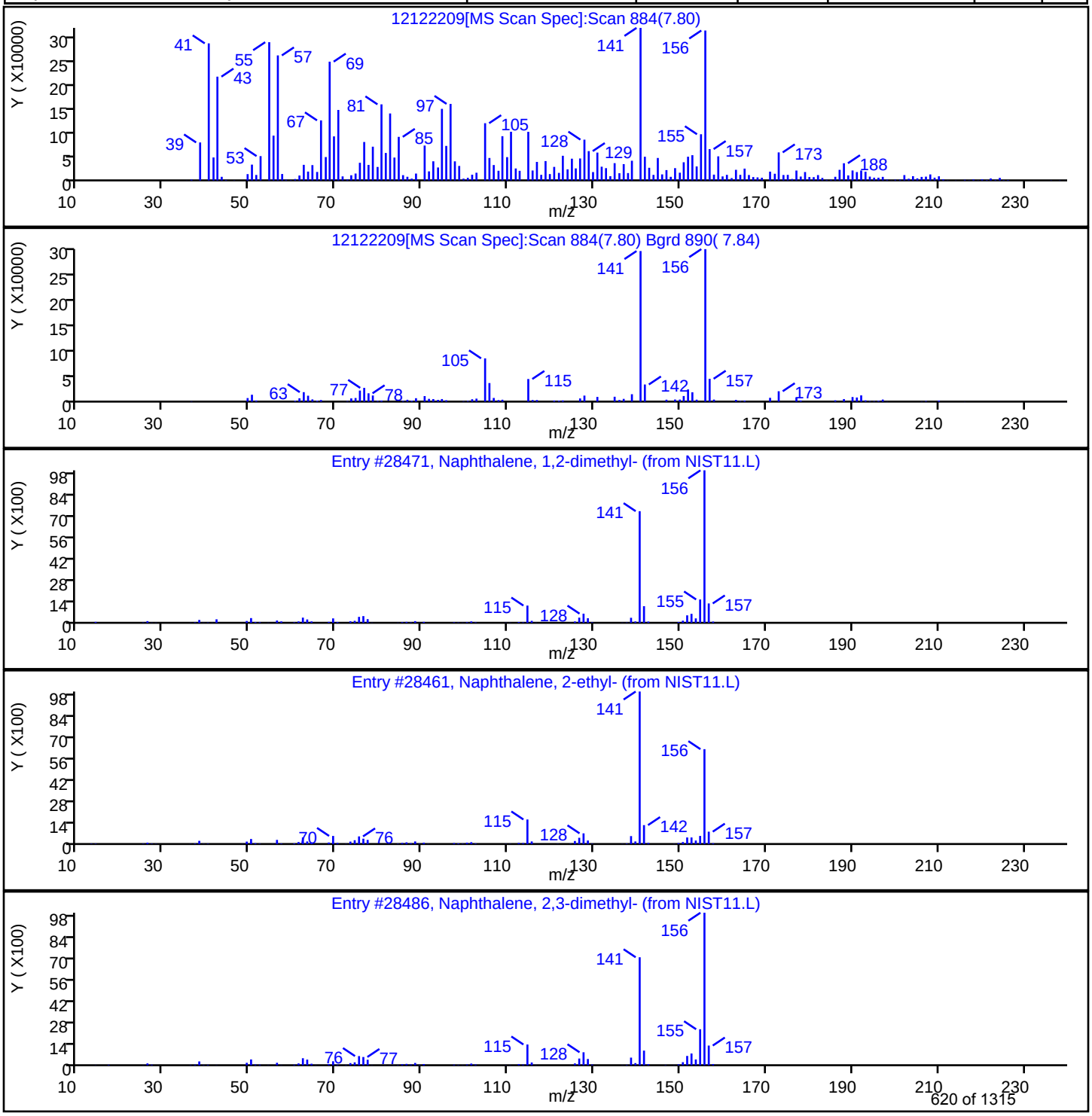
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.799

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2-dimethyl-	573-98-8	NIST11	28471	C12H12	156	94
Naphthalene, 2-ethyl-	939-27-5	NIST11	28461	C12H12	156	93
Naphthalene, 2,3-dimethyl-	581-40-8	NIST11	28486	C12H12	156	93



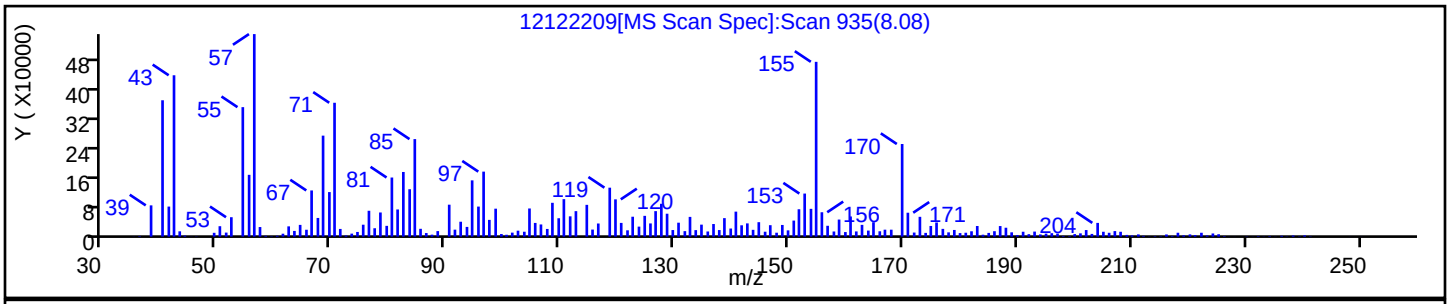
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

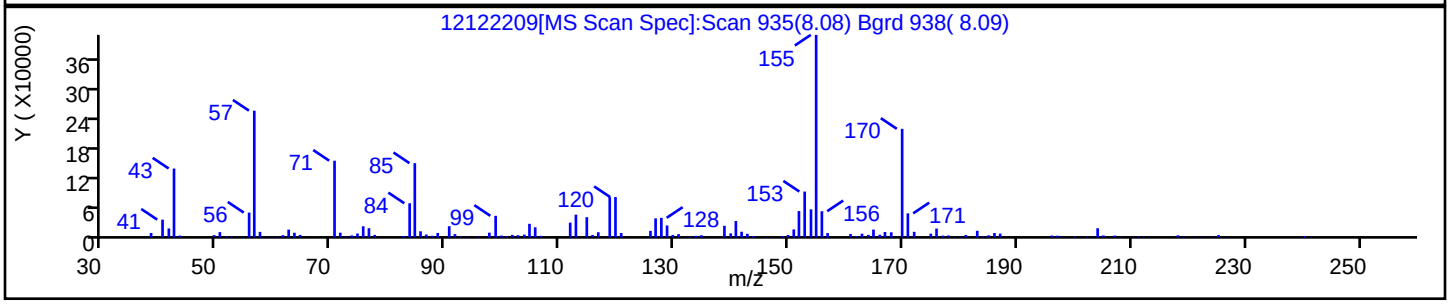
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.072

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown PAH		NIST11				





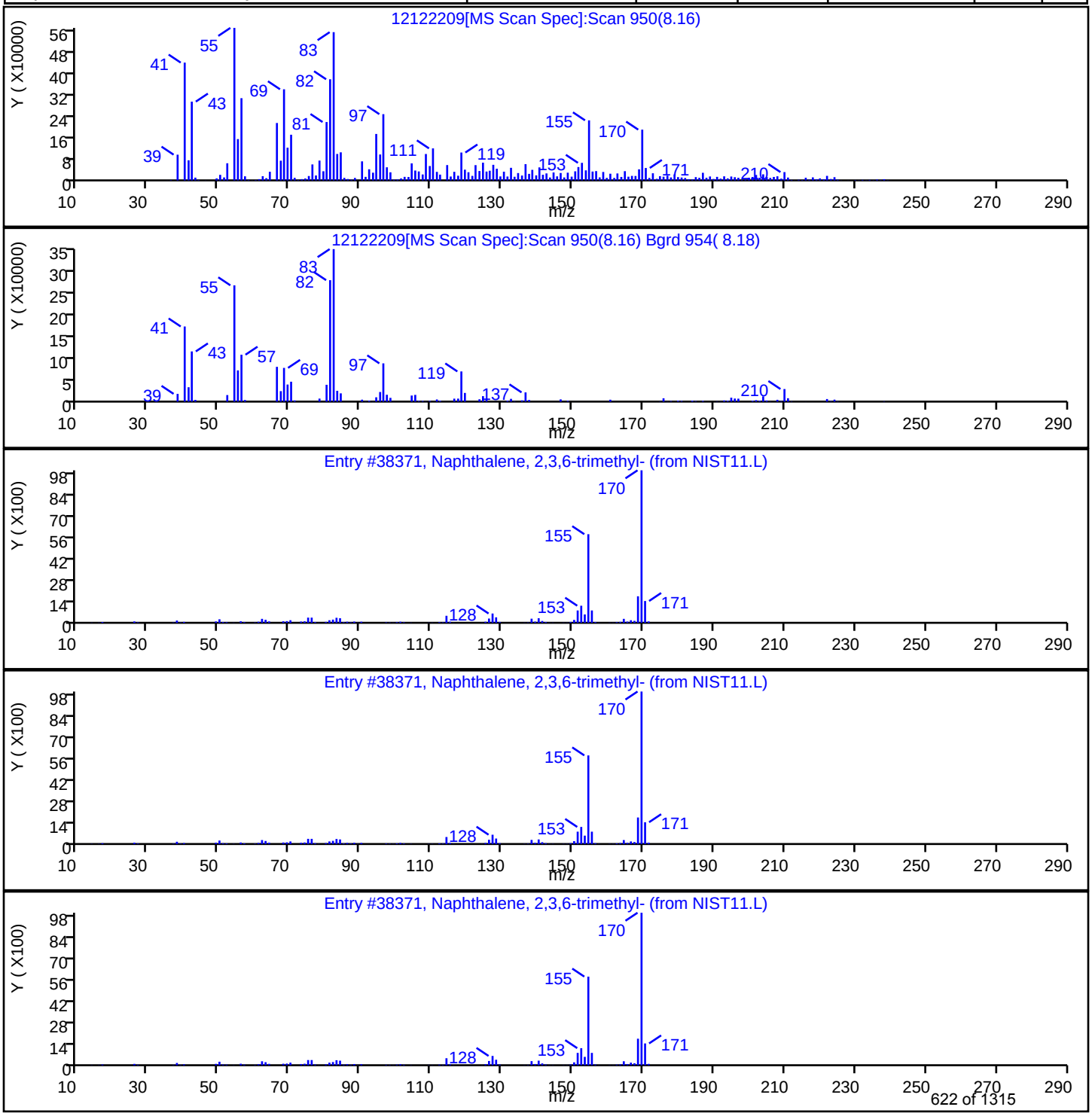
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.152

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 2,3,6-trimethyl-	829-26-5	NIST11	38371	C13H14	170	93
Naphthalene, 2,3,6-trimethyl-	829-26-5	NIST11	38371	C13H14	170	93
Naphthalene, 2,3,6-trimethyl-	829-26-5	NIST11	38371	C13H14	170	93



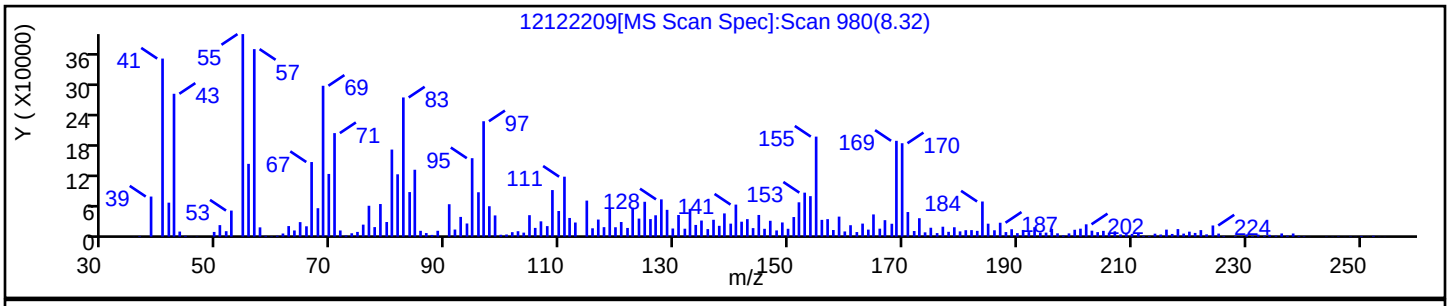
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

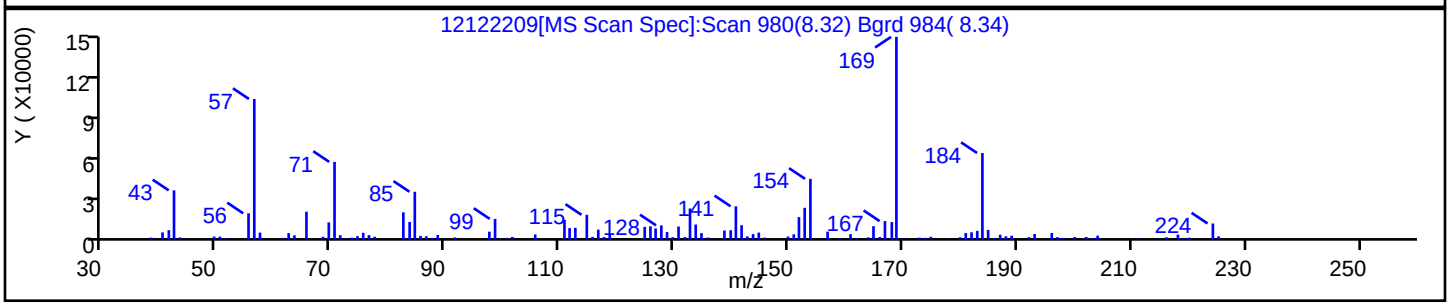
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.312

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





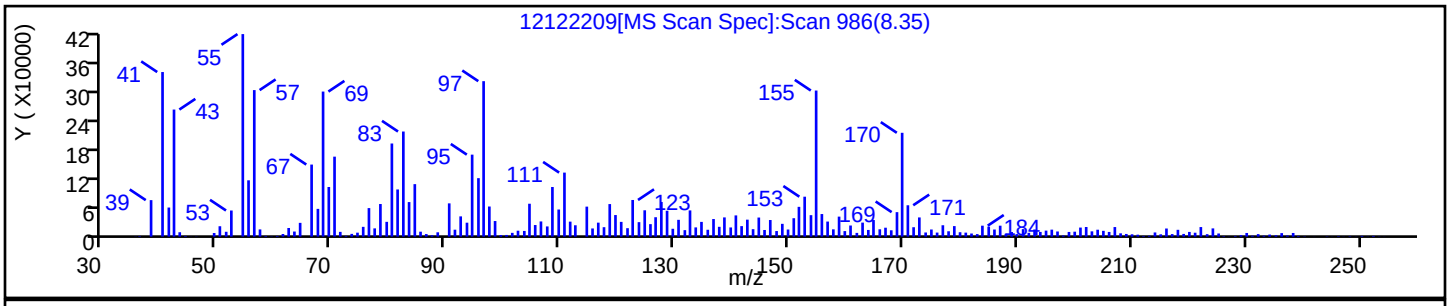
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

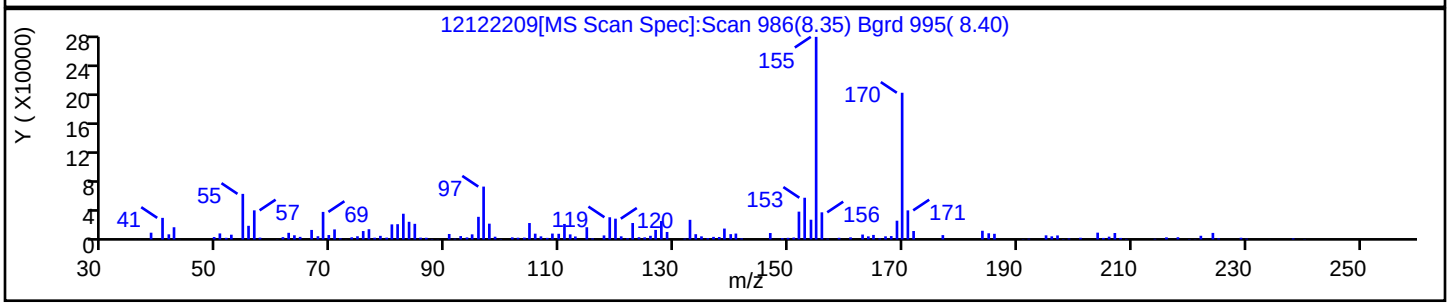
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.344

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





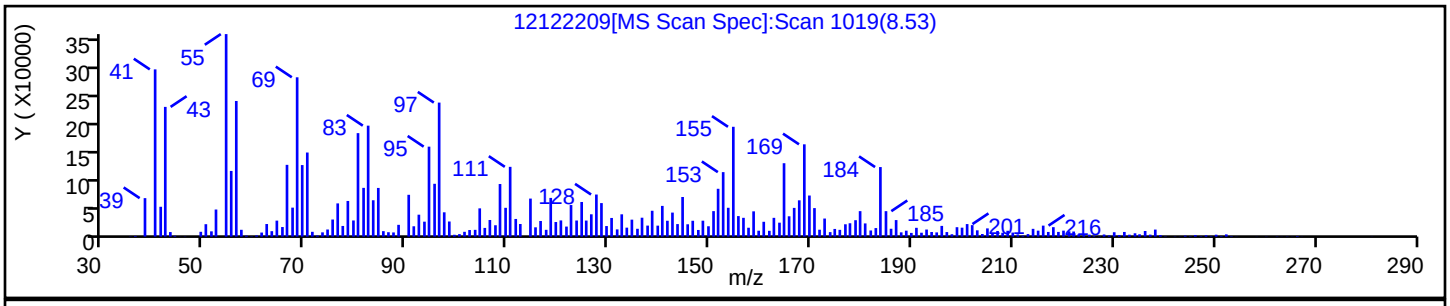
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

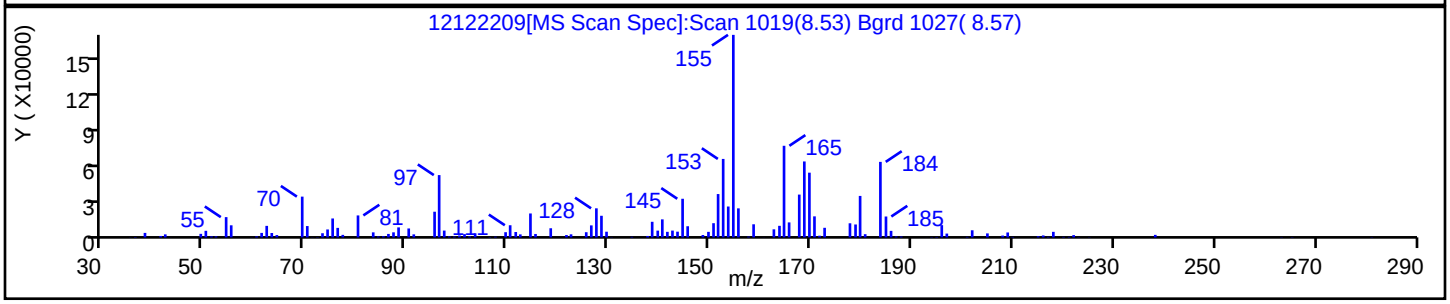
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.521

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





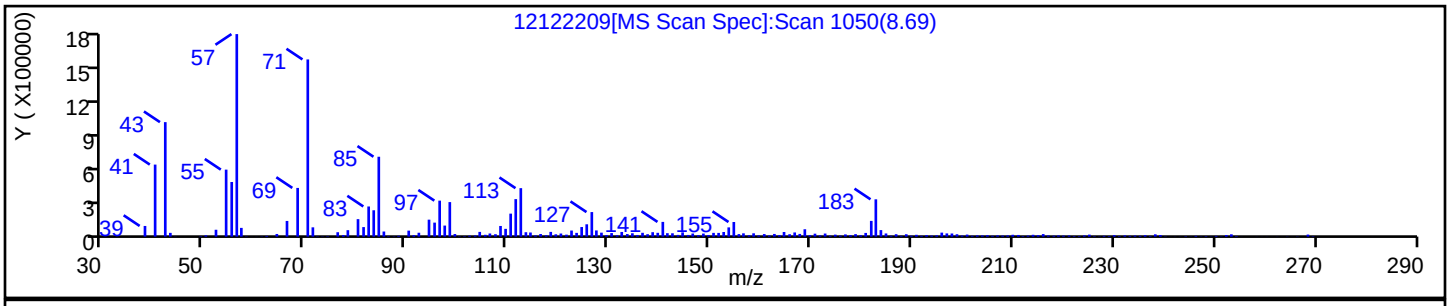
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

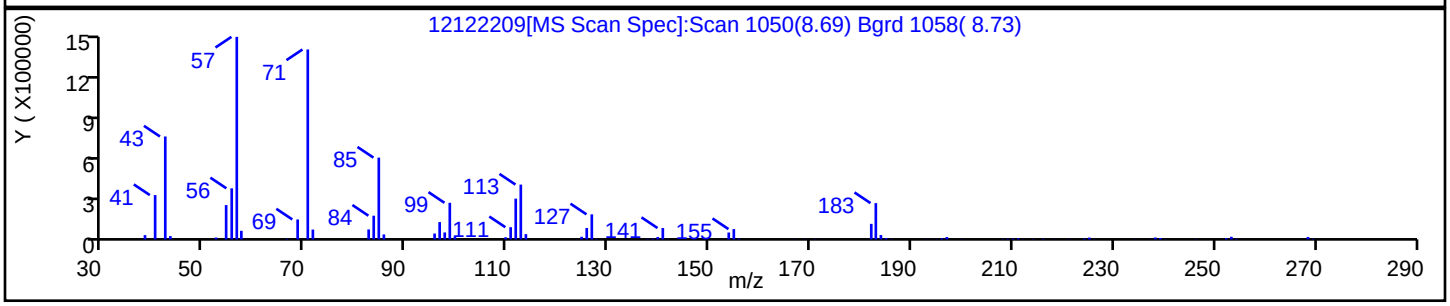
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.686

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





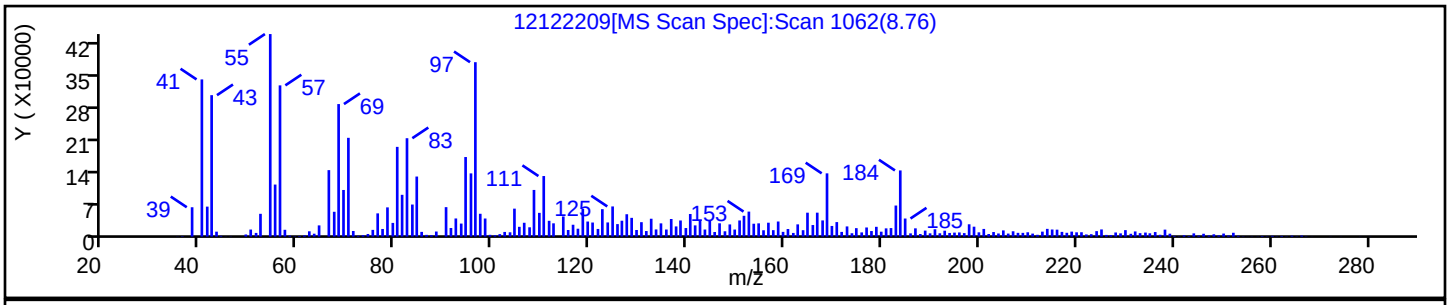
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

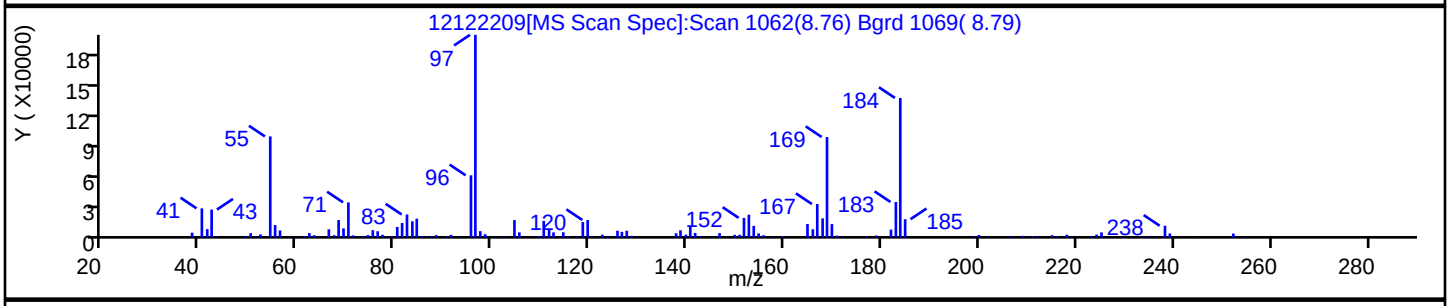
Shealy Environmental Services

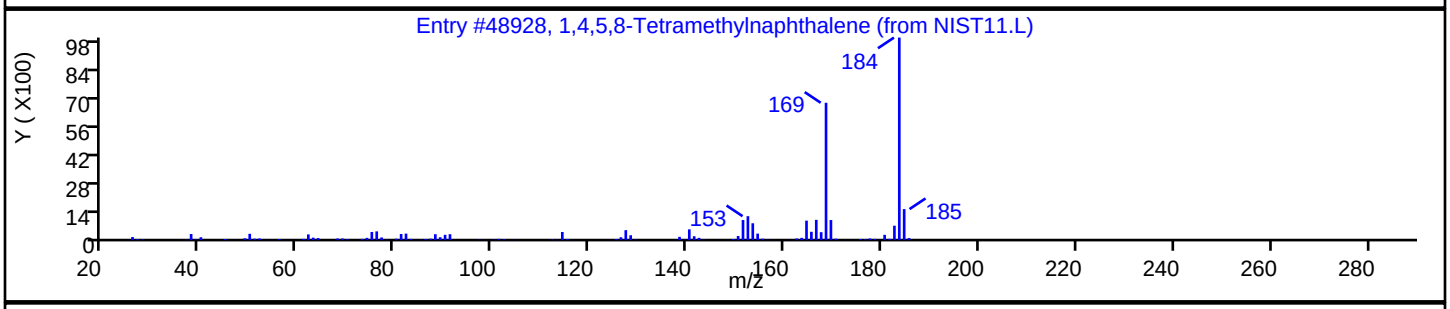
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

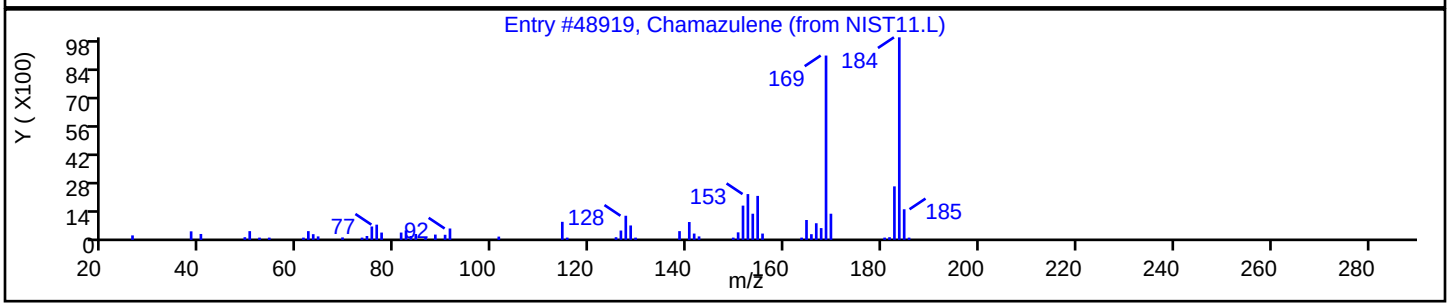
TIC @ 8.750

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1,4,5,8-Tetramethylnaphthalene	2717-39-7	NIST11	48928	C14H16	184	94
Chamazulene	529-05-5	NIST11	48919	C14H16	184	86









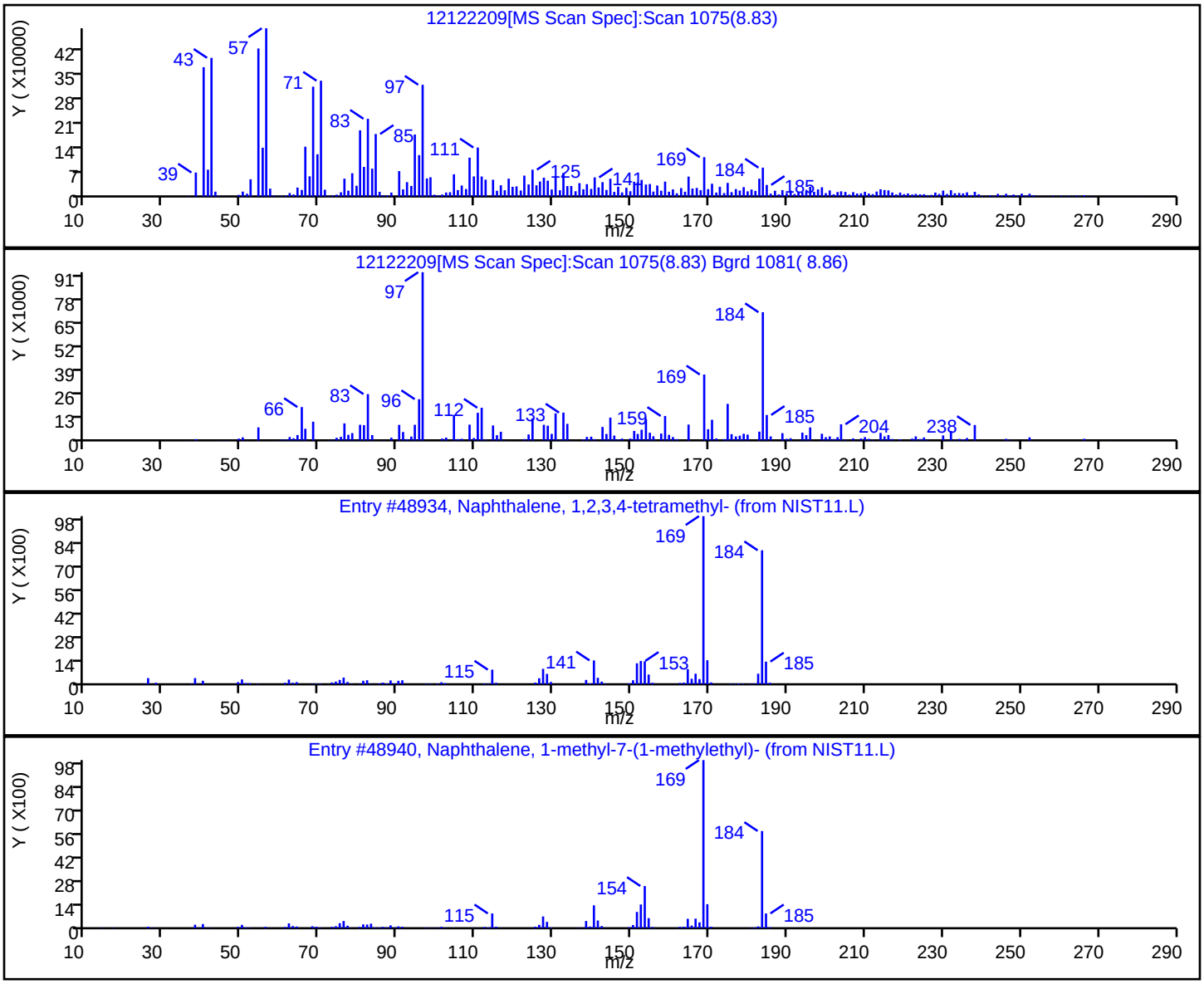
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.820

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2,3,4-tetramethyl-	3031-15-0	NIST11	48934	C14H16	184	96
Naphthalene, 1-methyl-7-(1-methylethyl)-	490-65-3	NIST11	48940	C14H16	184	86



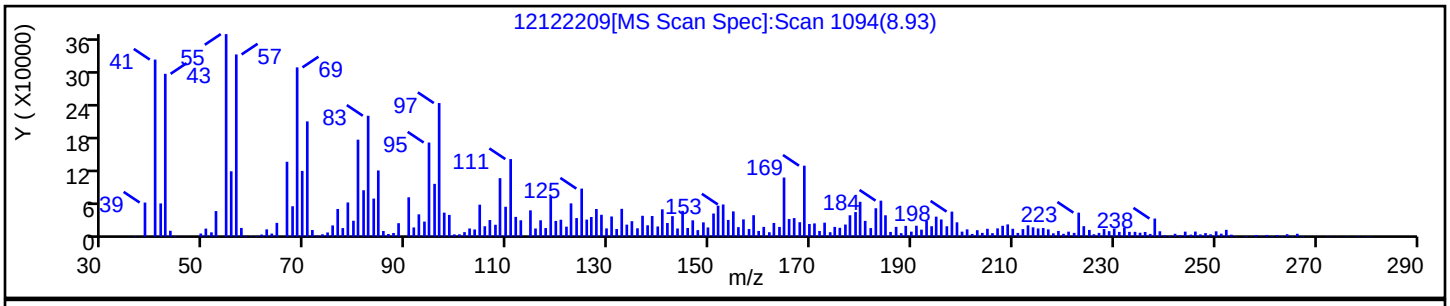
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

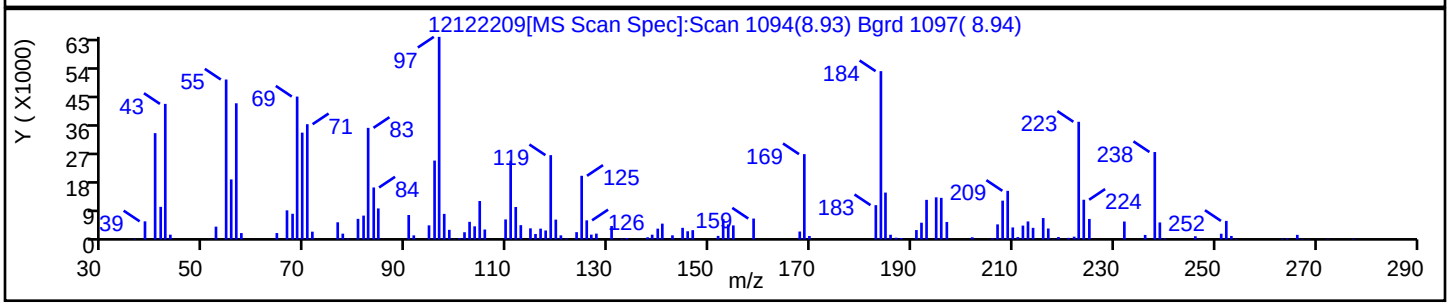
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.921

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





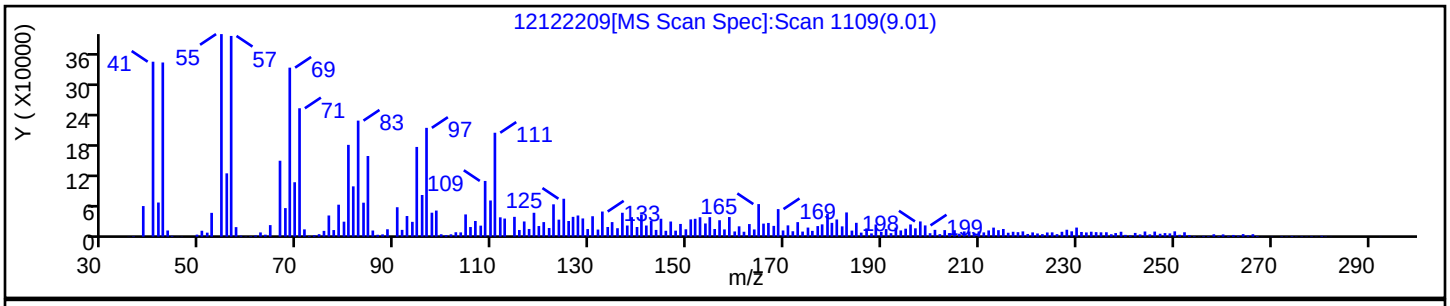
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

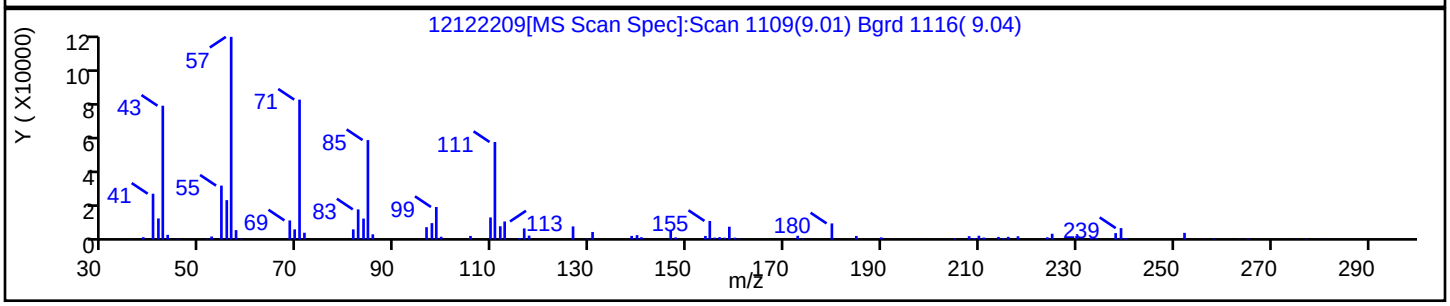
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.001

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





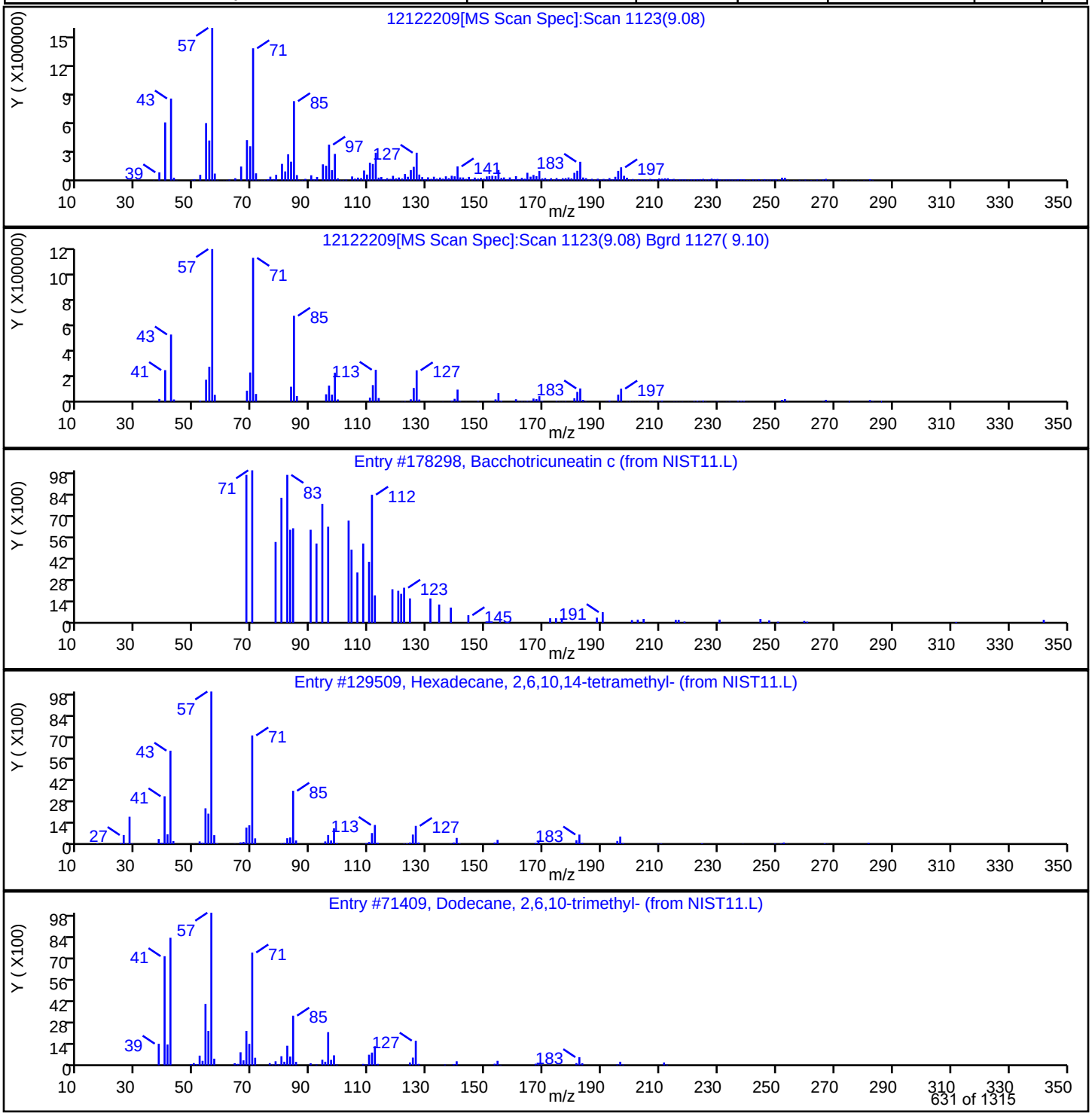
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.076

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Bacchotricuneatin c	66563-30-2	NIST11	178298	C20H22O5	342	96
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	NIST11	129509	C20H42	282	90
Dodecane, 2,6,10-trimethyl-	3891-98-3	NIST11	71409	C15H32	212	87



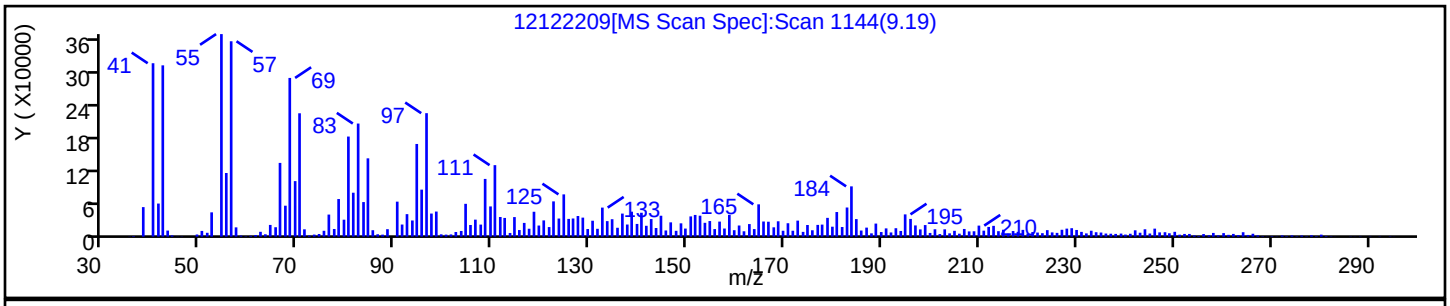
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

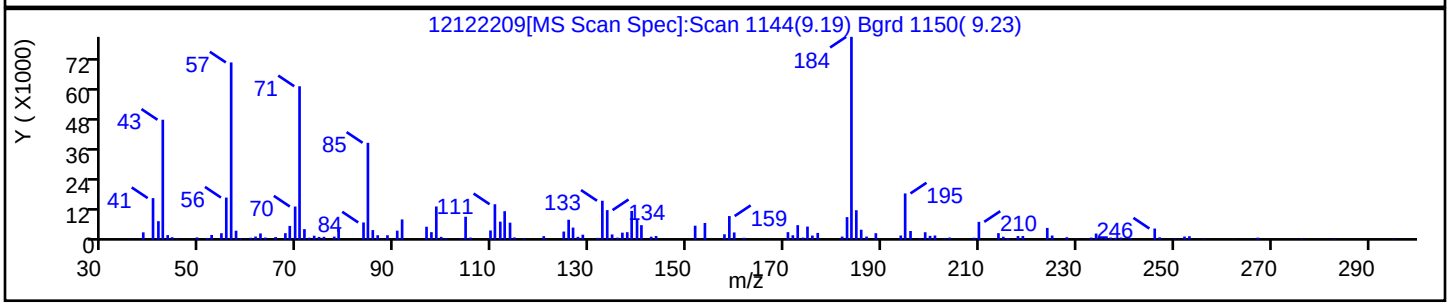
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.188

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





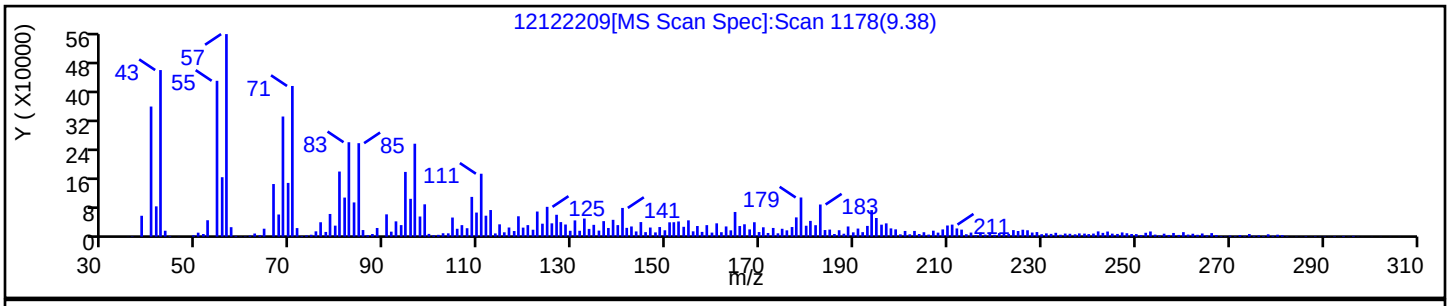
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

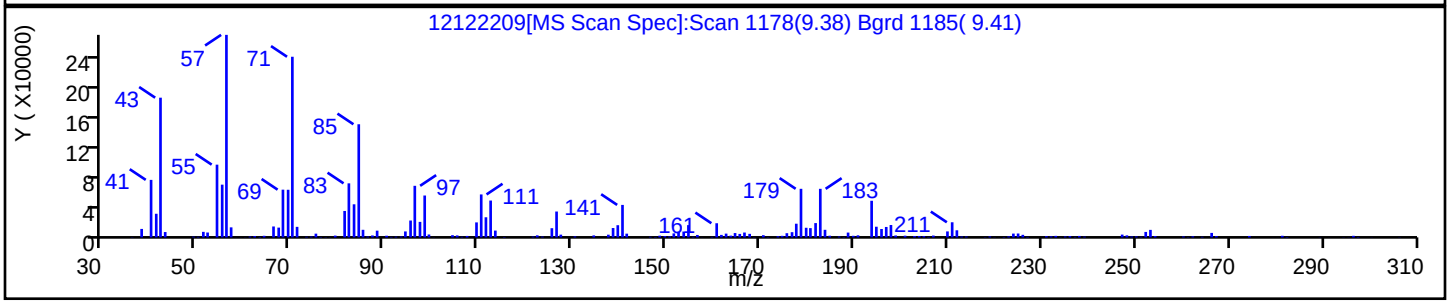
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.370

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





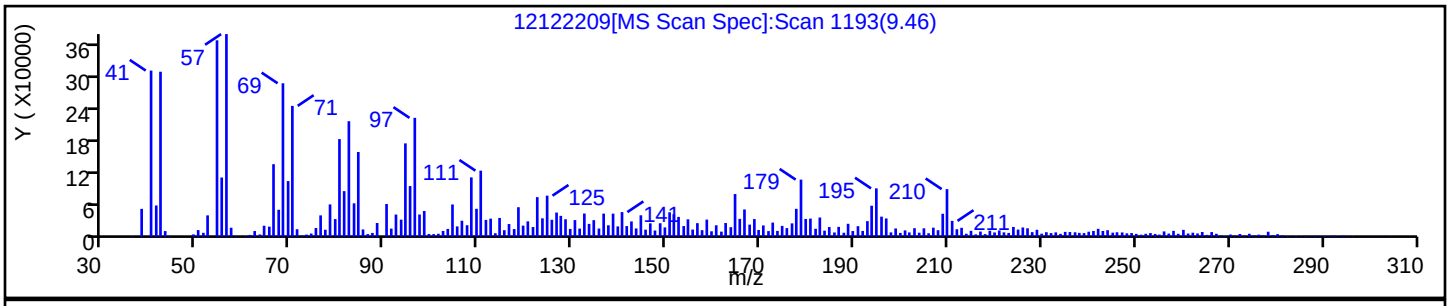
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

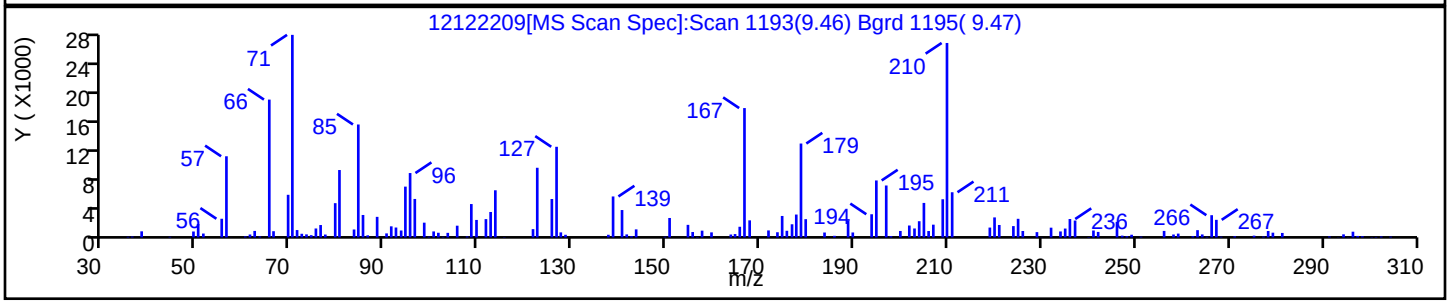
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.450

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





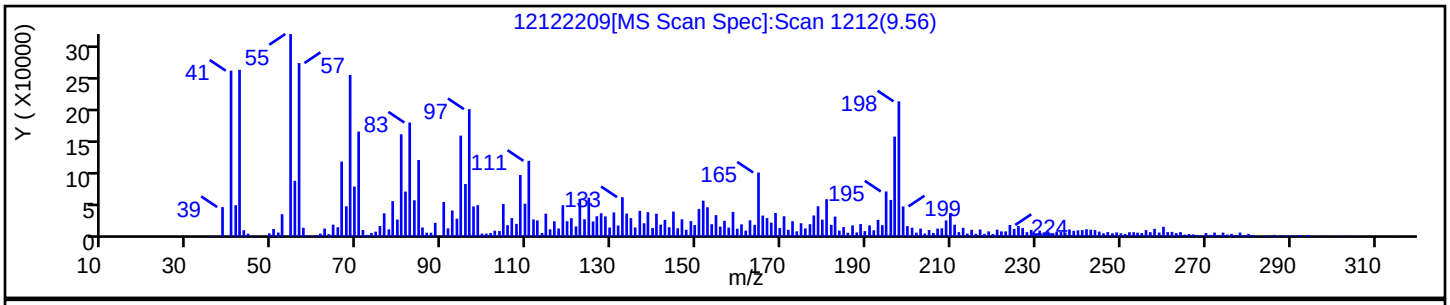
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

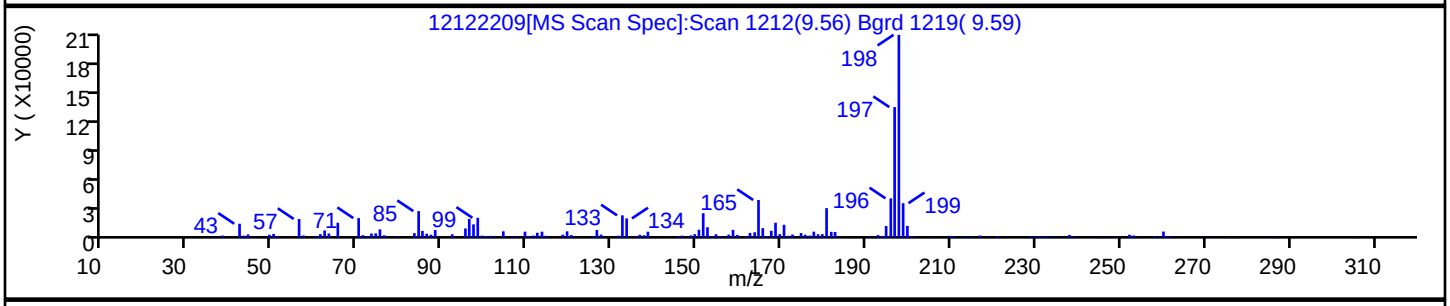
Shealy Environmental Services

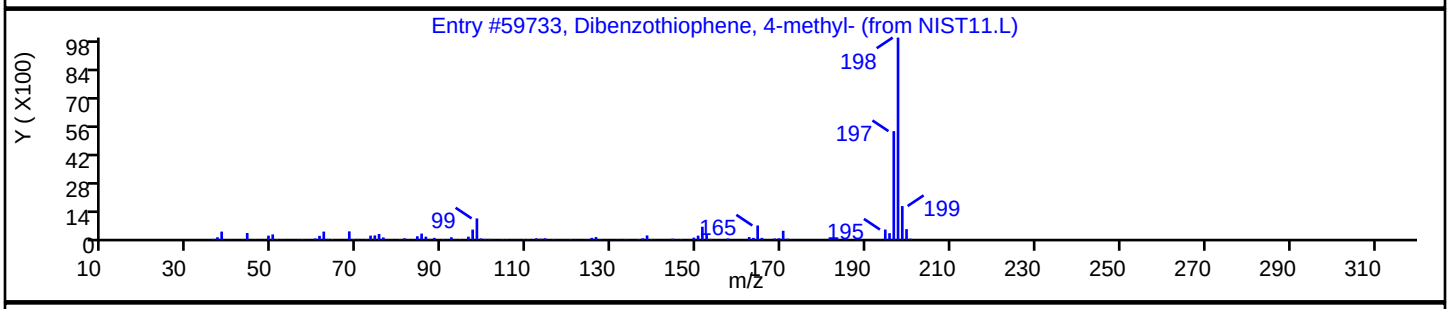
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

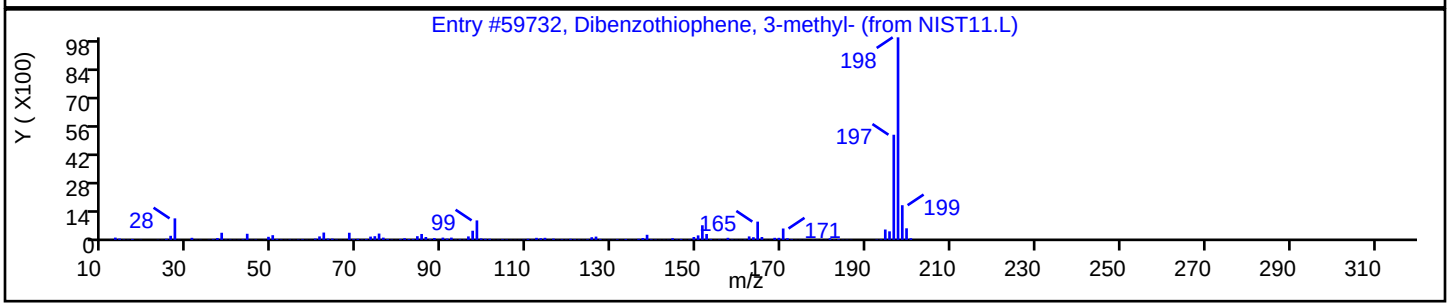
TIC @ 9.552

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Dibenzothiophene, 4-methyl-	7372-88-5	NIST11	59733	C13H10S	198	86
Dibenzothiophene, 3-methyl-	16587-52-3	NIST11	59732	C13H10S	198	86









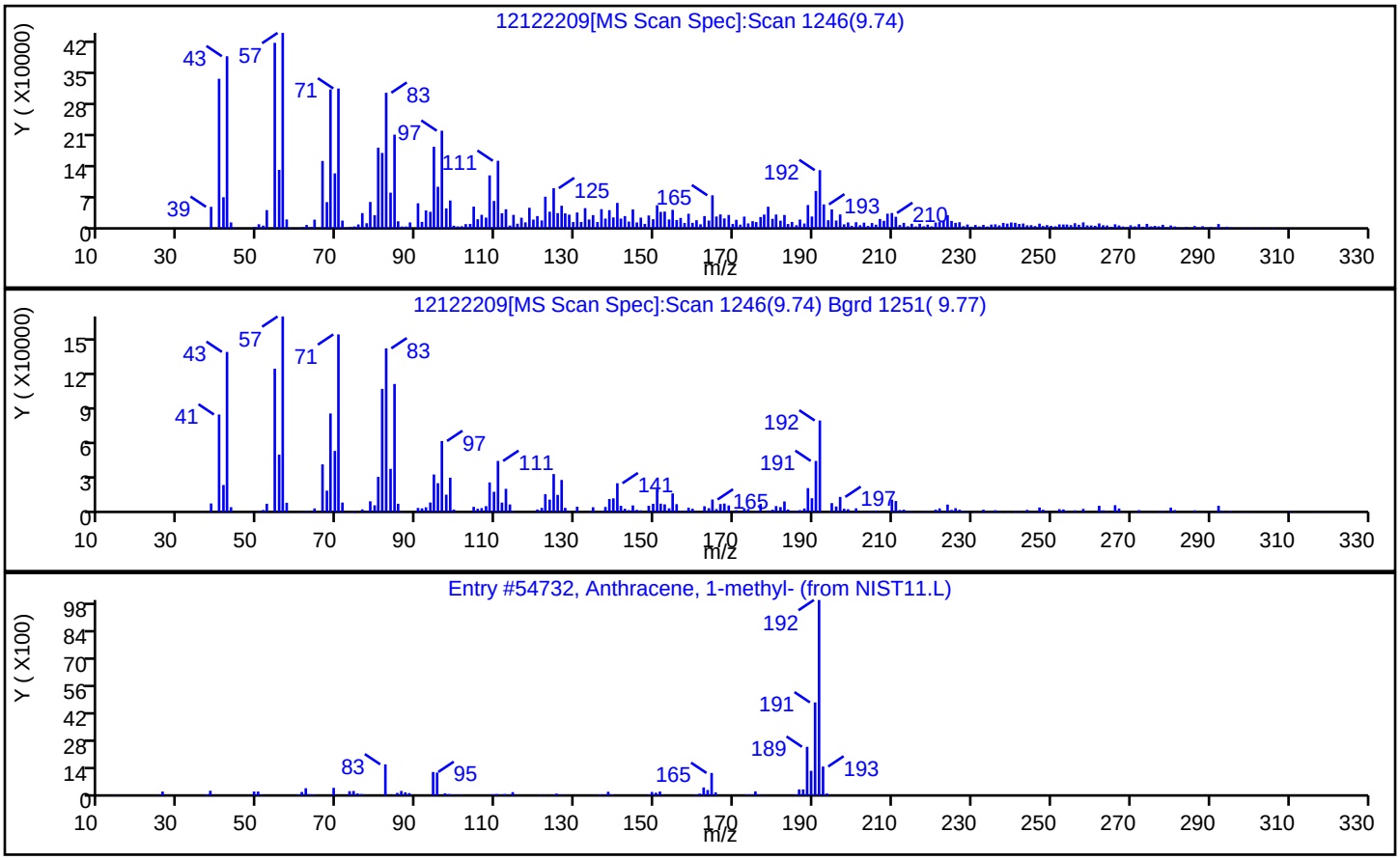
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.733

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Anthracene, 1-methyl-	610-48-0	NIST11	54732	C15H12	192	92



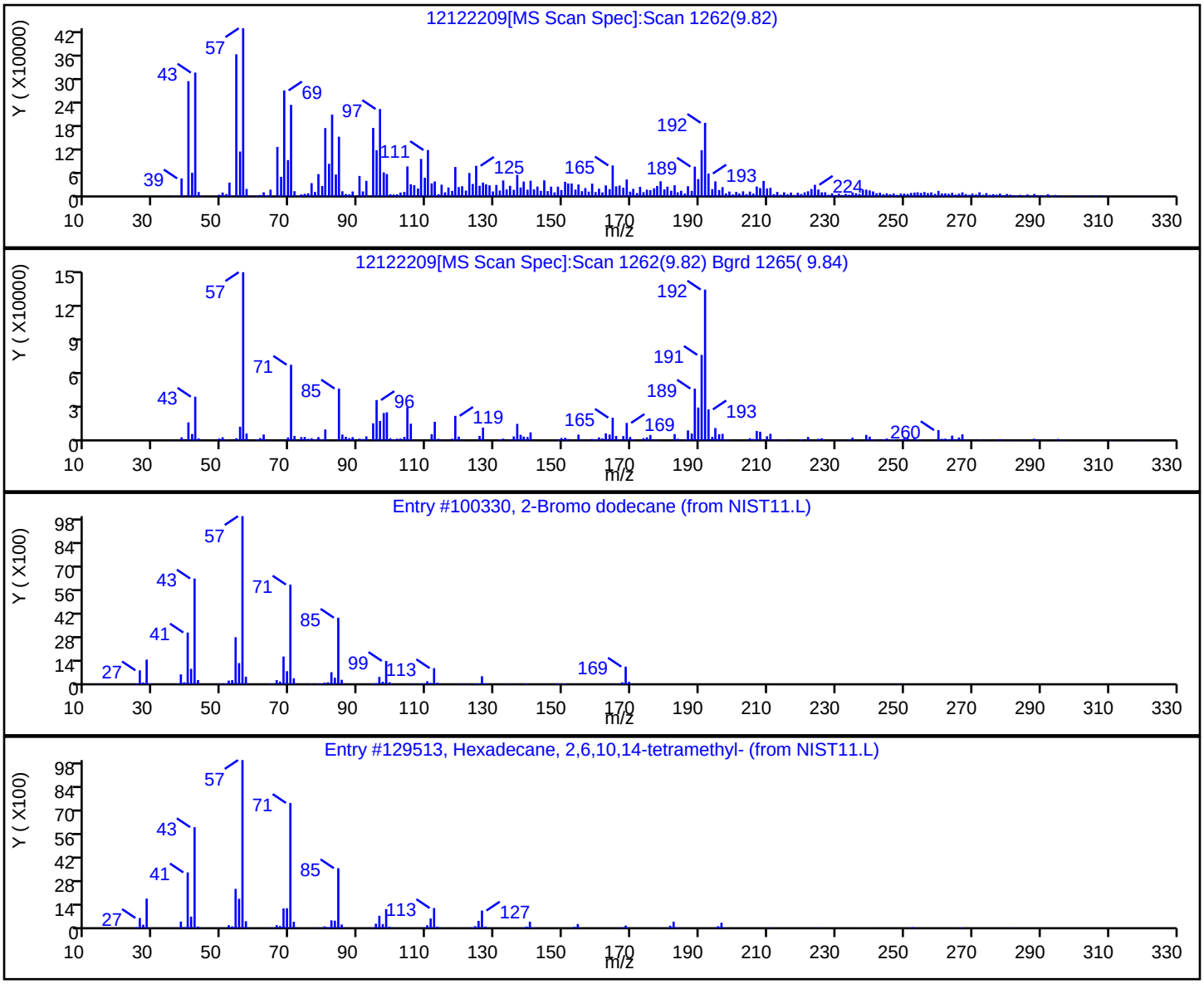
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.819

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
2-Bromo dodecane	13187-99-0	NIST11	100330	C12H25Br	248	89
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	NIST11	129513	C20H42	282	86



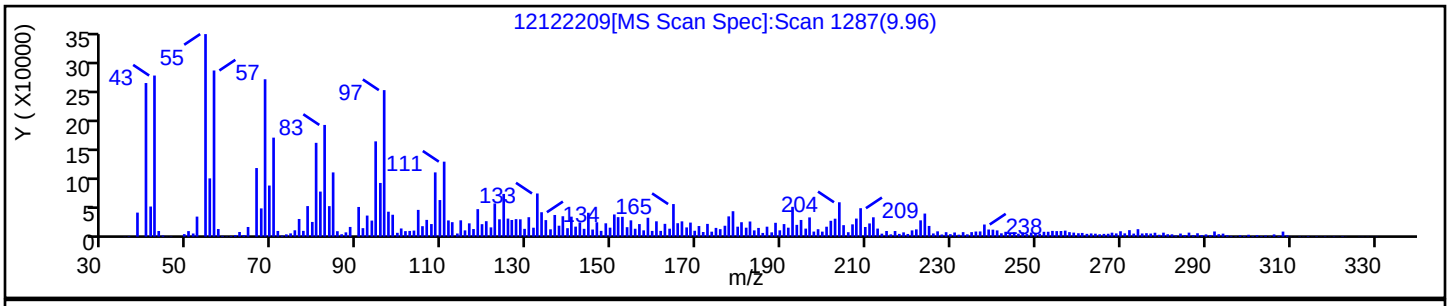
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

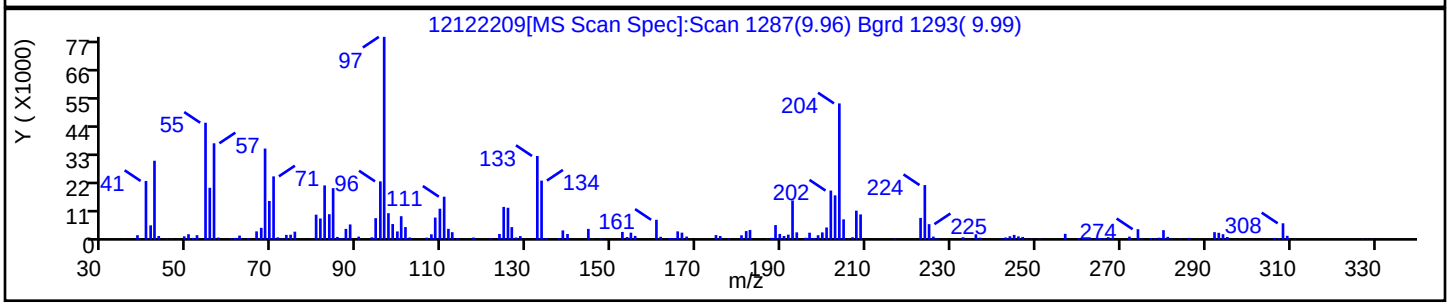
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.952

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





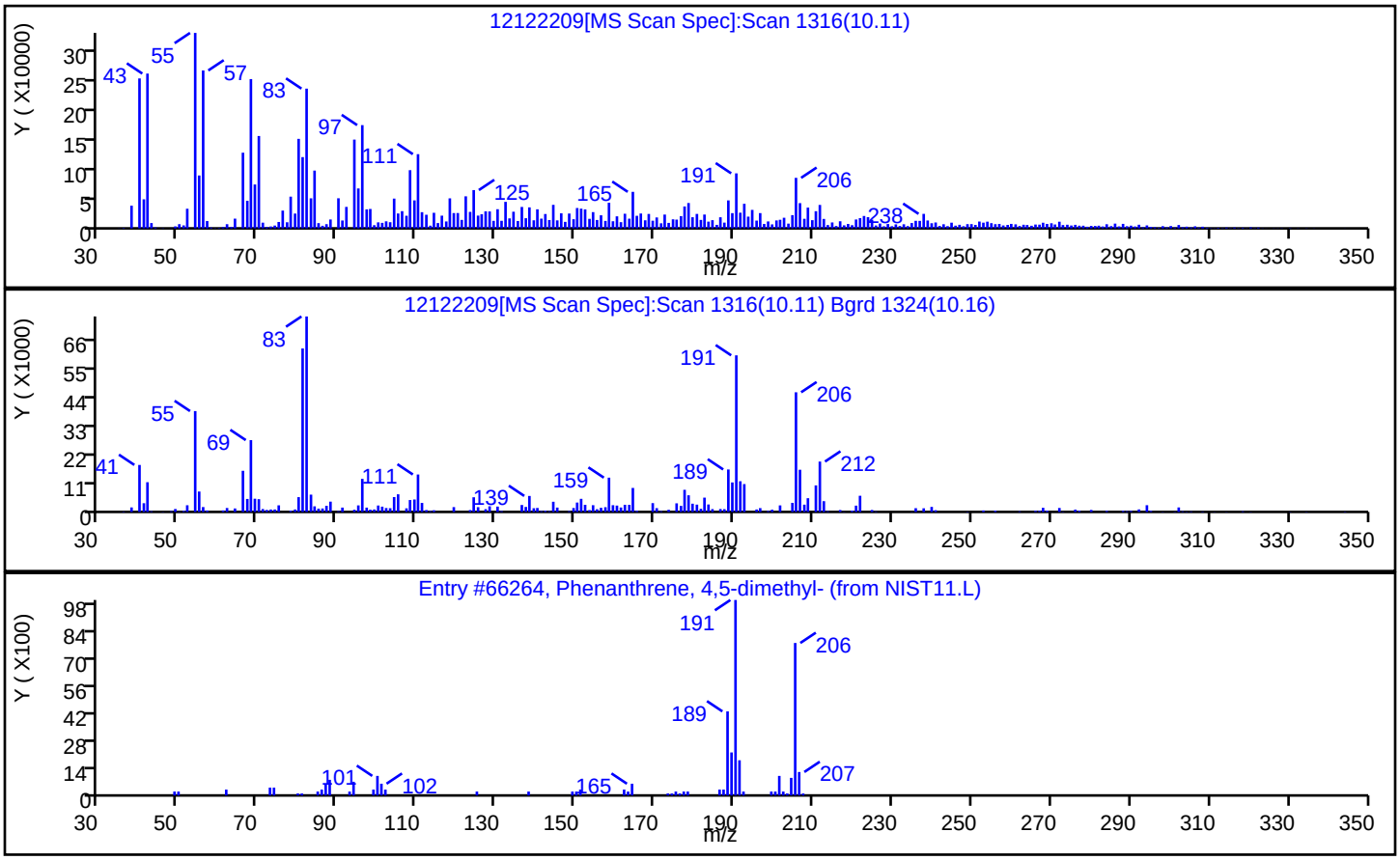
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.107

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenanthrene, 4,5-dimethyl-	3674-69-9	NIST11	66264	C16H14	206	92



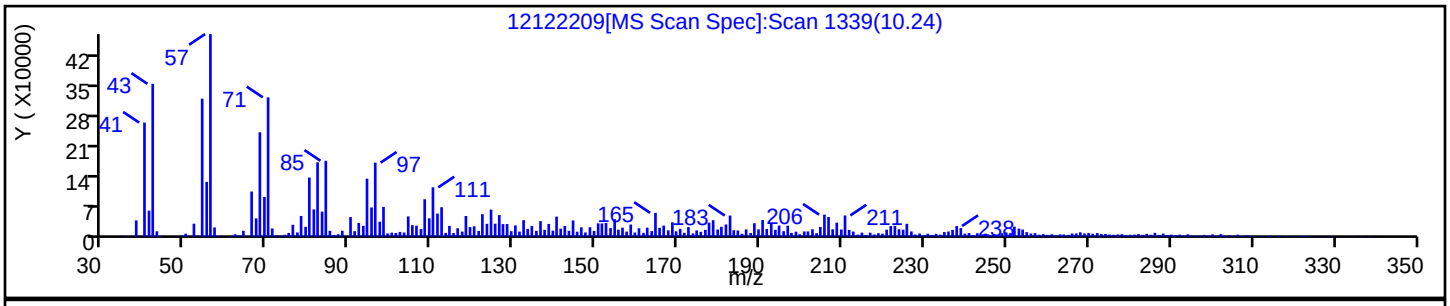
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

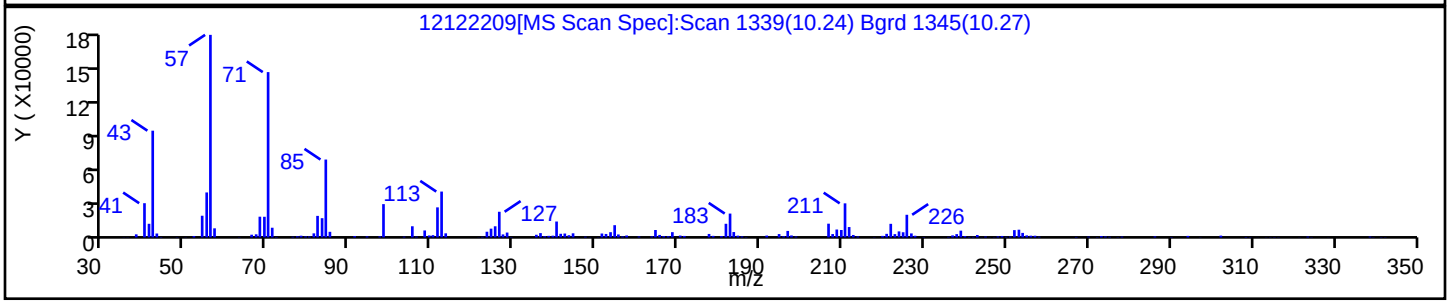
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.230

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





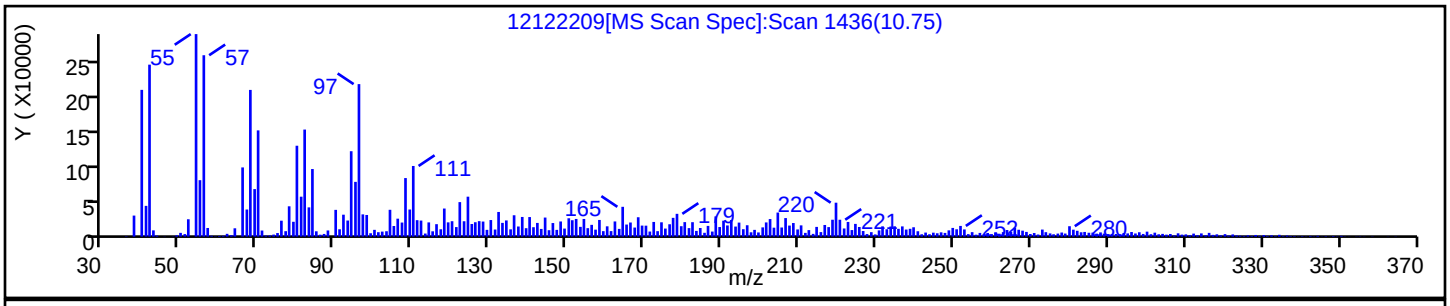
Report Date: 04-Jan-2016 14:42:31 AIM Revision: 1.0 26-May-2015 13:41:26

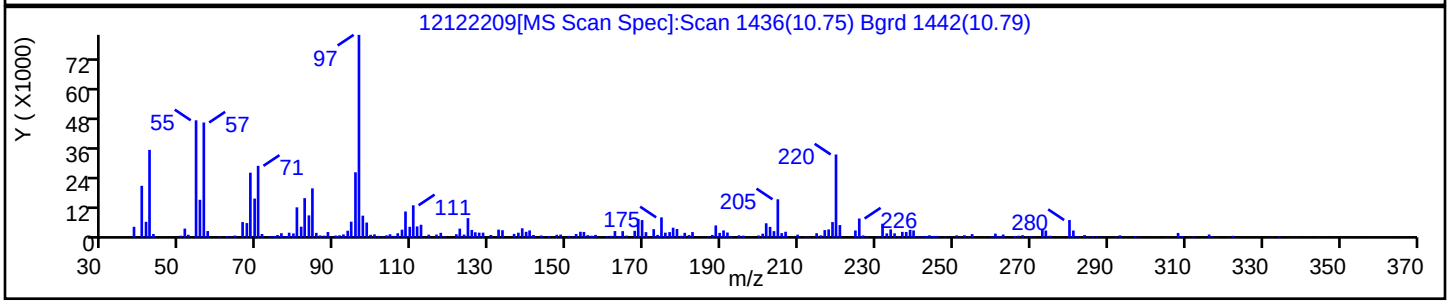
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122209.D		
Injection Date:	22-Dec-2015 13:08:30	Inst. ID:	msd12.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	12122215.b, QL12004-004		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.748

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R24

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122210
% Solids: 77.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1800	U
100-52-7	Benzaldehyde	8400	U
108-95-2	Phenol	8400	U
111-44-4	Bis(2-Chloroethyl) ether	8400	U
95-57-8	2-Chlorophenol	4300	U
95-48-7	2-Methylphenol	8400	U
108-60-1	2,2'-Oxybis(1-chloropropane)	8400	U
98-86-2	Acetophenone	8400	U
106-44-5	4-Methylphenol	8400	U
621-64-7	N-Nitroso-di-n propylamine	4300	U
67-72-1	Hexachloroethane	4300	U
98-95-3	Nitrobenzene	4300	U
78-59-1	Isophorone	4300	U
88-75-5	2-Nitrophenol	4300	U
105-67-9	2,4-Dimethylphenol	4300	U
111-91-1	Bis(2-chloroethoxy)methane	4300	U
120-83-2	2,4-Dichlorophenol	4300	U
91-20-3	Naphthalene	2200	J
106-47-8	4-Chloroaniline	8400	U
87-68-3	Hexachlorobutadiene	4300	U
105-60-2	Caprolactam	8400	U
59-50-7	4-Chloro-3-methylphenol	4300	U
91-57-6	2-Methylnaphthalene	4800	
77-47-4	Hexachlorocyclo-pentadiene	8400	U
88-06-2	2,4,6-Trichlorophenol	4300	U
95-95-4	2,4,5-Trichlorophenol	4300	U
92-52-4	1,1'-Biphenyl	4300	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R24

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122210
% Solids: 77.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	4300	U
88-74-4	2-Nitroaniline	4300	U
131-11-3	Dimethylphthalate	4300	U
606-20-2	2,6-Dinitrotoluene	4300	U
208-96-8	Acenaphthylene	4300	U
99-09-2	3-Nitroaniline	8400	U
83-32-9	Acenaphthene	4300	U
51-28-5	2,4-Dinitrophenol	8400	U
100-02-7	4-Nitrophenol	8400	U
132-64-9	Dibenzofuran	4300	U
121-14-2	2,4-Dinitrotoluene	4300	U
84-66-2	Diethylphthalate	4300	U
95-94-3	1,2,4,5-Tetrachlorobenzene	4300	U
7005-72-3	4-Chlorophenyl-phenyl ether	4300	U
86-73-7	Fluorene	4300	U
100-01-6	4-Nitroaniline	8400	U
534-52-1	4,6-Dinitro-2-methylphenol	8400	U
101-55-3	4-Bromophenyl-phenylether	4300	U
86-30-6	N-Nitrosodiphenylamine	4300	U
118-74-1	Hexachlorobenzene	4300	U
1912-24-9	Atrazine	8400	U
87-86-5	Pentachlorophenol	8400	U
85-01-8	Phenanthrene	3000	J
120-12-7	Anthracene	690	J
86-74-8	Carbazole	8400	U
84-74-2	Di-n-butylphthalate	4300	U
206-44-0	Fluoranthene	8400	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R24

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122210
% Solids: 77.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	4300	U
85-68-7	Butylbenzylphthalate	4300	U
91-94-1	3,3'-Dichlorobenzidine	8400	U
56-55-3	Benzo(a)anthracene	4300	U
218-01-9	Chrysene	510	J
117-81-7	Bis(2-ethylhexyl)phthalate	4300	U
117-84-0	Di-n-octylphthalate	8400	U
205-99-2	Benzo(b)fluoranthene	4300	U
207-08-9	Benzo(k)fluoranthene	4300	U
50-32-8	Benzo(a)pyrene	4300	U
193-39-5	Indeno(1,2,3-cd)pyrene	4300	U
53-70-3	Dibenzo(a,h)anthracene	4300	U
191-24-2	Benzo(g,h,i)perylene	4300	U
58-90-2	2,3,4,6-Tetrachlorophenol	4300	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R24

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122210
% Solids: 77.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Y
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 500 (uL)
Heated Purge: (Y/N)
Extraction Type: SONC
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types: GPC
pH: Dilution Factor: 20.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03		Unknown-01	6.92	9200	J
04	264-09-5	Benzocycloheptatriene	7.19	9500	NJ
05					
06					
07	582-16-1	Naphthalene, 2,7-dimethyl-	7.63	13000	NJ
08		Unknown-02	8.34	9400	J
09		Unknown-03	8.52	11000	J
10					
11	2717-39-7	1,4,5,8-	8.74	5500	NJ
12	3031-15-0	Naphthalene, 1,2,3,4-	8.81	7800	NJ
13					
14					
15					
16		Unknown-04	9.45	6600	J
17	16587-52-3	Dibenzothiophene, 3-methyl-	9.55	6700	NJ
18	2531-84-2	Phenanthrene, 2-methyl-	9.70	8200	NJ
19	610-48-0	Anthracene, 1-methyl-	9.73	6600	NJ
20		Unknown-05	9.82	11000	J
21		Unknown-06	9.94	7500	J
22					
23	3674-66-6	Phenanthrene, 2,5-dimethyl-	10.21	9600	NJ
24		Unknown-07	10.30	5300	J
25					
26		Unknown-08	10.55	6000	J
27		Unknown-09	10.74	8400	J
28		Unknown-10	10.81	7300	J
29					
30					
	E966796[2]	Total Alkanes	N/A	108700	J

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Lab Sample ID:	QL12004-005	Client Sample ID:	F6R24
Injection Date:	22-Dec-2015 13:37:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL12004-005		
Misc. Info:	92512 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	8
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.400	Weight of sample extracted (g)
M	22.200	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 14:33:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 3 Phenol-d5	99.0	5.117	5.122	-0.005	34728	0.92078	778.63	Qe
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	983	0.07126	60.256	eR
4 Phenol	94.0		5.133		ND			
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	24874	0.97780	826.85	Qe
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.294	5.299	-0.005	23842	0.95547	807.97	e
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.475	-0.005	411761	20.000	16912	
10 2-Methylphenol	108.0		5.614		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.700	5.710	-0.010	26376	0.96277	814.14	Qe
14 4-Methylphenol	108.0		5.737		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.918	-0.010	18152	1.1793	997.24	Qe
17 Nitrobenzene	77.0		5.935		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.170		ND			
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	15284	0.86709	733.24	Qe
19 2-Nitrophenol	139.0		6.186		ND			

Report Date: 23-Dec-2015 09:57:59 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122210.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.367	-0.005	27662	1.0690	904.00	e
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1780417	20.000	16912	
24 Naphthalene	128.0	6.533	6.538	-0.005	254893	2.6561	2246.02	Qe
$ 97 4-Chloroaniline-d4	131.0	6.528	6.544	-0.016	151319	3.8793	3280.42	QeR
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0	7.105	7.104	0.001	348566	5.6288	4759.84	
30 Hexachlorocyclopentadiene	237.0		7.227		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.687	-0.011	85425	1.2806	1082.87	Qe
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.869	7.874	-0.005	103037	1.1673	987.14	Qe
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	1021303	20.000	16912	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0	8.034	8.034	0.000	28905	1.7723	1498.67	Qe
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.290		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0	8.430	8.435	-0.005	77530	1.2387	1047.48	e
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0		8.472		ND			
51 4,6-Dinitro-2-methylphenol	198.0		8.477		ND			
52 N-Nitrosodiphenylamine	169.0		8.525		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.273	-0.005	1991983	20.000	16912	
59 Phenanthrene	178.0	9.290	9.295	-0.005	389564	3.5121	2969.95	Qe
$ 103 Anthracene-d10	188.0	9.316	9.321	-0.005	147767	1.4550	1230.42	Qe
60 Anthracene	178.0	9.332	9.338	-0.006	91166	0.81321	687.67	Qe
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			

Report Date: 23-Dec-2015 09:57:59 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122210.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 104 Pyrene-d10	212.0	10.636	10.641	-0.005	162890	1.5071	1274.45	Qe
64 Pyrene	202.0		10.662		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	2477045	20.000	16912	
70 Chrysene	228.0	12.212	12.222	-0.010	73854	0.60031	507.63	Qe
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.317	14.322	-0.005	131218	1.1707	989.98	Qe
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.466	14.461	0.005	2312143	20.000	16912	
77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Lab Sample ID:	QL12004-005	Client Sample ID:	F6R24
Injection Date:	22-Dec-2015 13:37:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL12004-005		
Misc. Info:	92512 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	8
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.400	Weight of sample extracted (g)
M	22.200	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 14:33:30

Tentative Identified Compound Results

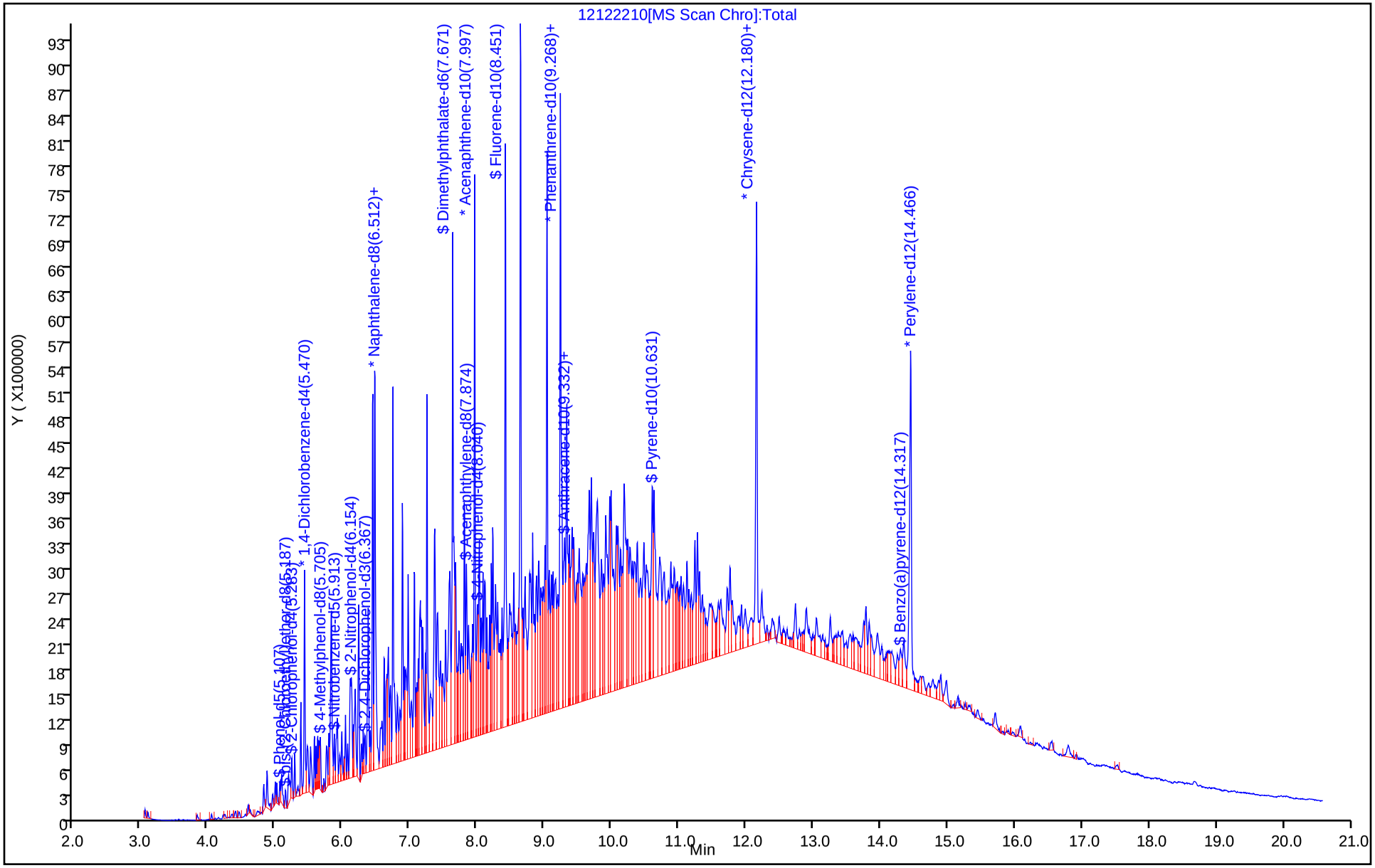
RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown Alkane						
6.485	4517058	12.948	10949	23				
		Unknown Alkane						
6.784	5352213	15.342	12973	23				
		Unknown						
6.923	3797758	10.886	9205.42	23				
264-09-5		Benzocycloheptatriene						
7.190	3898888	11.176	9450.55	23	93	19230	C11H10	142
		Unknown Alkane						
7.286	4732962	13.722	11604	41				
		Unknown Alkane						
7.404	4647710	13.475	11395	41				
582-16-1		Naphthalene, 2,7-dimethyl-						
7.628	5157391	14.953	12644	41	96	28470	C12H12	156
		Unknown						
8.339	3823210	11.085	9373.32	41				
		Unknown						
8.515	4317948	12.519	10586	41				
		Unknown Alkane						
8.675	10590535	17.739	15000	58				
2717-39-7		1,4,5,8-Tetramethylnaphthalene						
8.745	3865387	6.4744	5474.89	58	90	48928	C14H16	184

RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
3031-15-0	Naphthalene, 1,2,3,4-tetramethyl-							
8.814	5492630	9.2000	7779.69	58	95	48934	C14H16	184
	Unknown Alkane							
8.857	4049463	6.7827	5735.61	58				
	Unknown Alkane							
9.071	6954222	11.648	9849.87	58				
	Unknown Alkane							
9.364	6420822	10.755	9094.37	58				
	Unknown							
9.445	4624553	7.7460	6550.16	58				
16587-52-3	Dibenzothiophene, 3-methyl-							
9.546	4755792	7.9658	6736.04	58	93	59732	C13H10S	198
2531-84-2	Phenanthrene, 2-methyl-							
9.696	5761569	9.6504	8160.61	58	95	54750	C15H12	192
610-48-0	Anthracene, 1-methyl-							
9.728	4678515	7.8363	6626.59	58	91	54732	C15H12	192
	Unknown							
9.819	8033313	13.456	11378	58				
	Unknown							
9.941	5327352	8.9231	7545.59	58				
	Unknown Alkane							
10.022	6384254	10.693	9042.58	58				
3674-66-6	Phenanthrene, 2,5-dimethyl-							
10.214	6747337	11.302	9556.84	58	97	66257	C16H14	206
	Unknown							
10.299	3776778	6.3260	5349.38	58				
	Unknown Alkane							
10.508	4120369	6.9015	5836.04	58				
	Unknown							
10.545	4240152	7.1021	6005.70	58				
	Unknown							
10.743	4211120	9.9809	8440.11	69				
	Unknown							
10.807	3652428	8.6568	7320.36	69				
	Unknown Alkane							
10.908	3654975	8.6628	7325.46	69				

Quant. Compounds	RT	Response	Amount ng/ul
* 23 Naphthalene-d8	6.517	6977353	20.000
* 41 Acenaphthene-d10	7.997	6898294	20.000
* 58 Phenanthrene-d10	9.268	11940563	20.000
* 69 Chrysene-d12	12.180	8438326	20.000

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D				
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R24	Lab ID:	QL12004-005		
Sample Info:	12122215.b, QL12004-005				
Injection Vol.	1.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

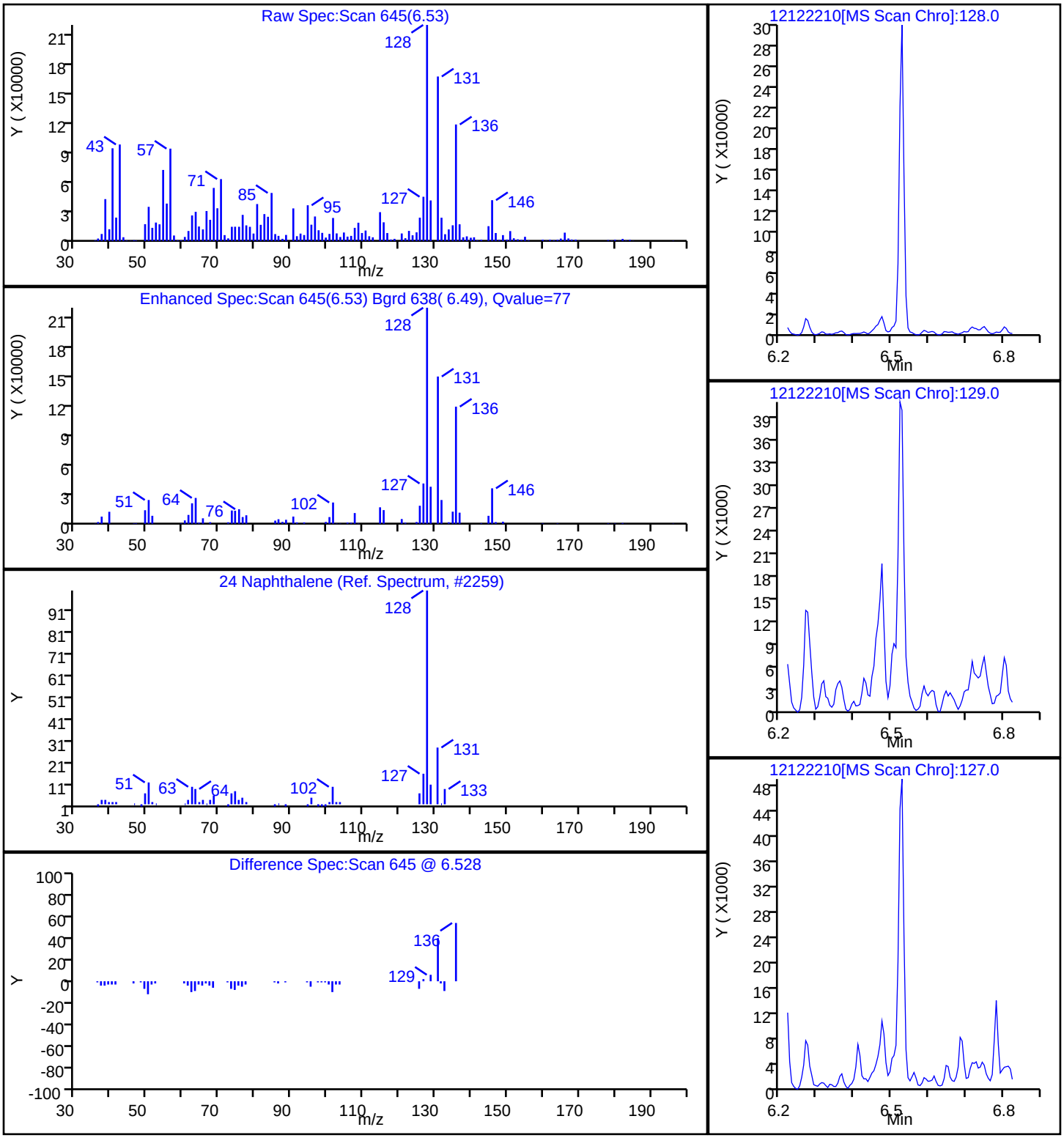


Report Date: 23-Dec-2015 09:57:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene

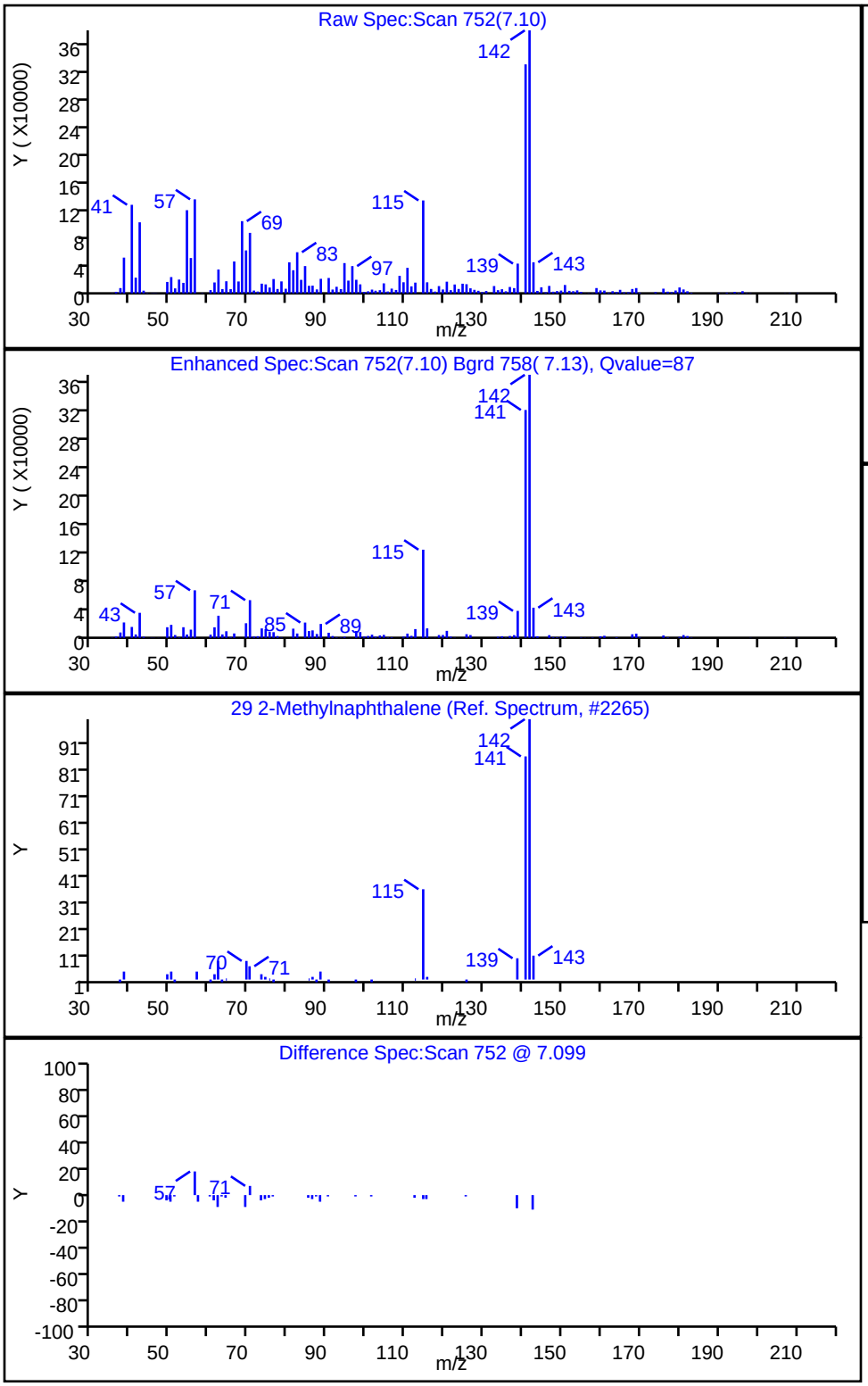


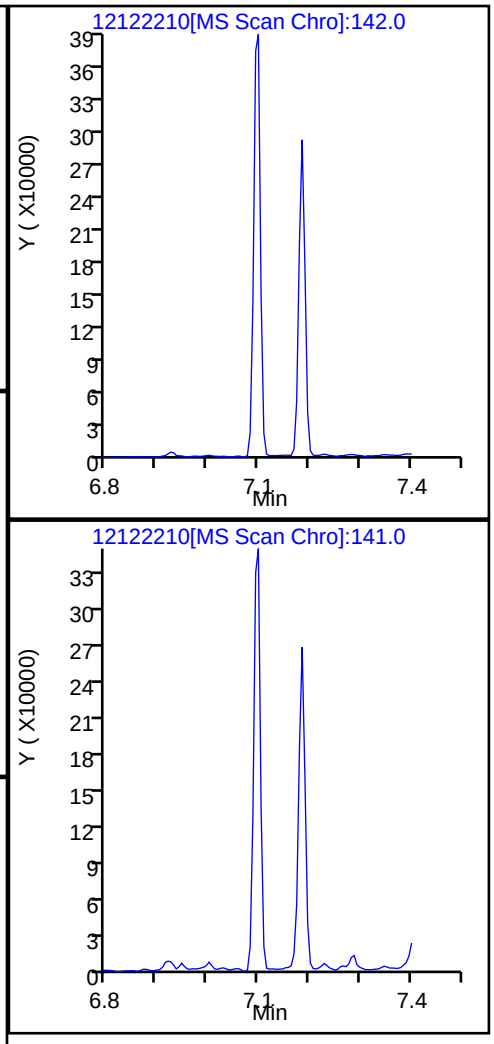
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene



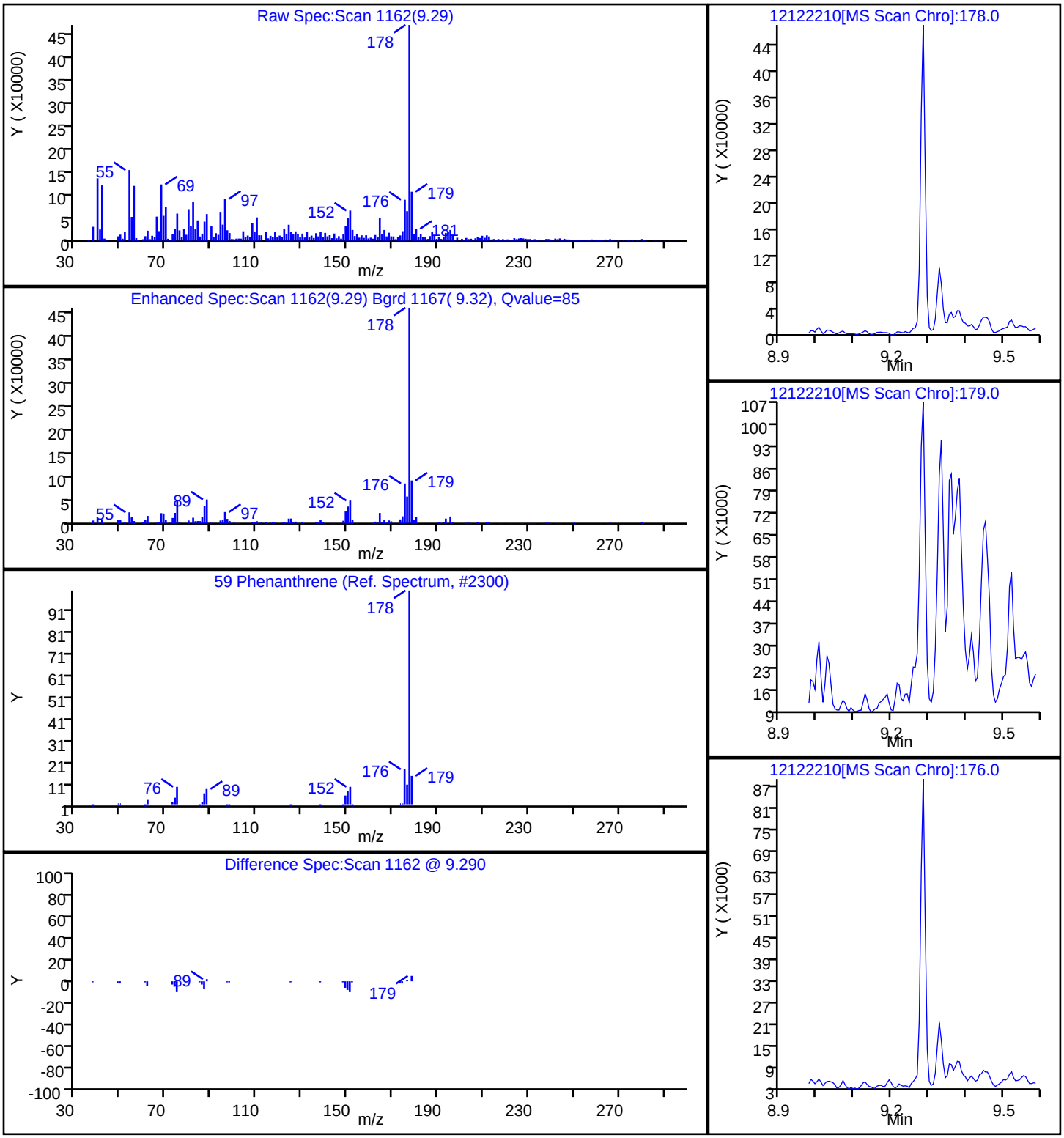


Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene

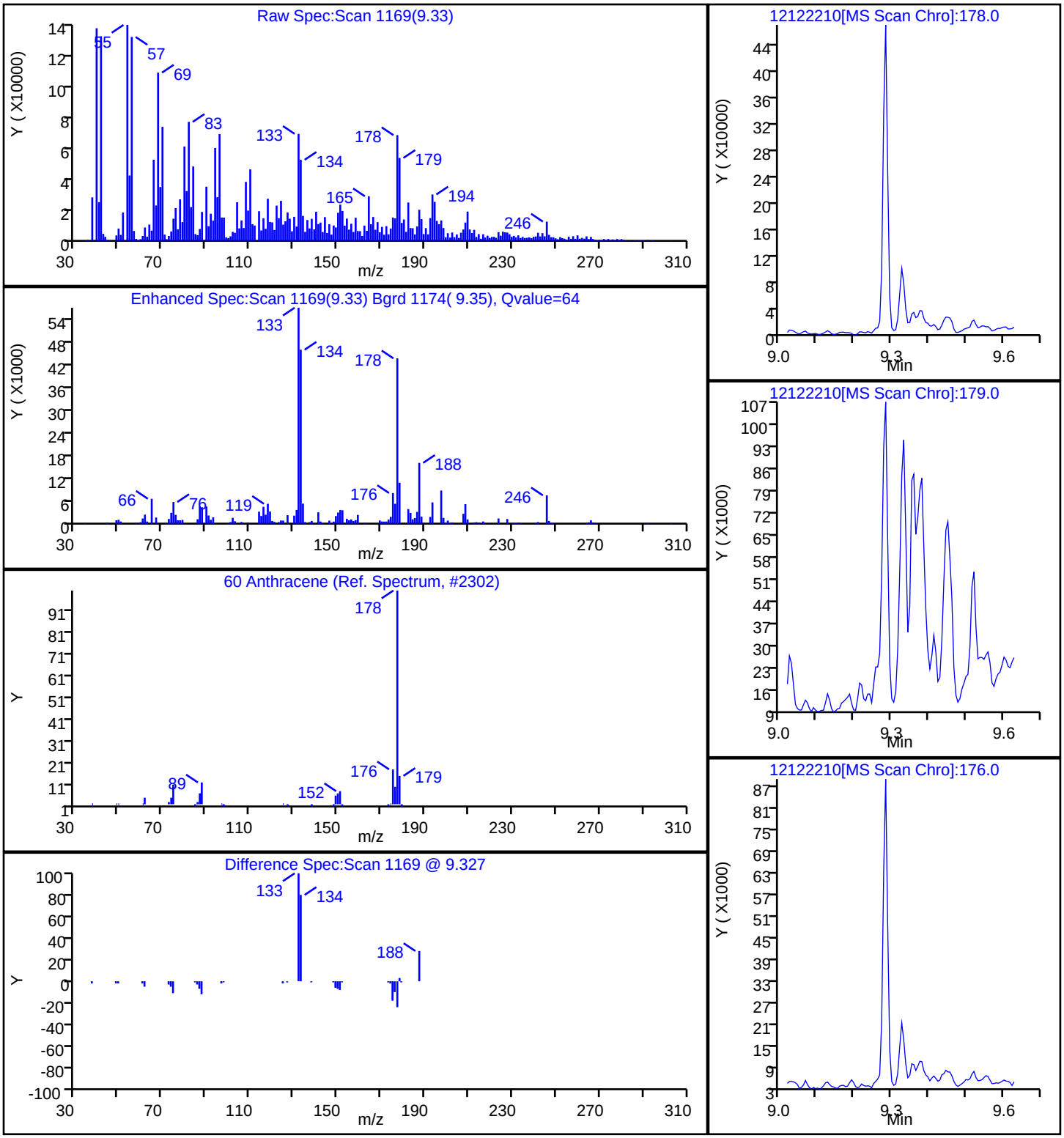


Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

60 Anthracene

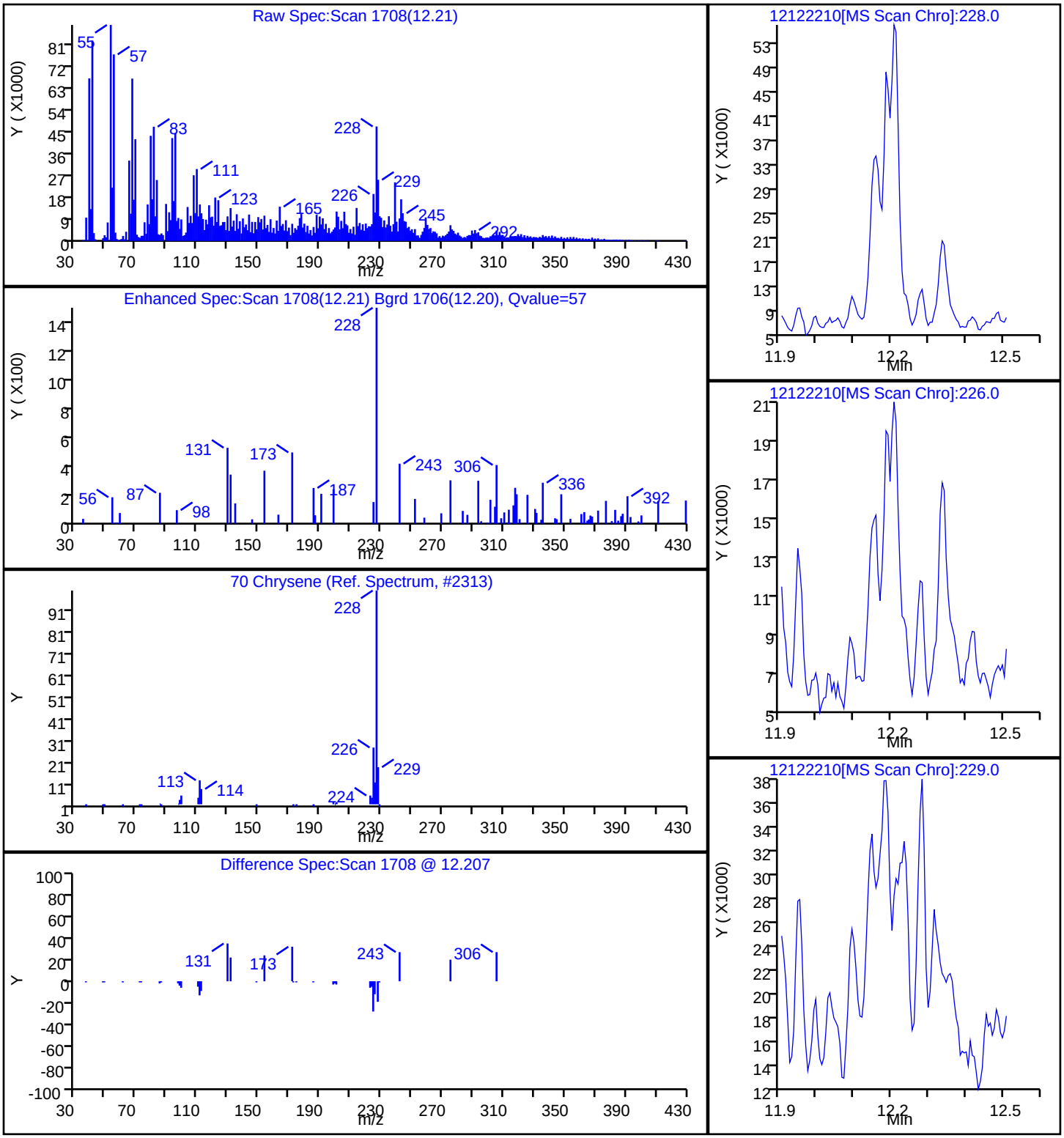


Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene



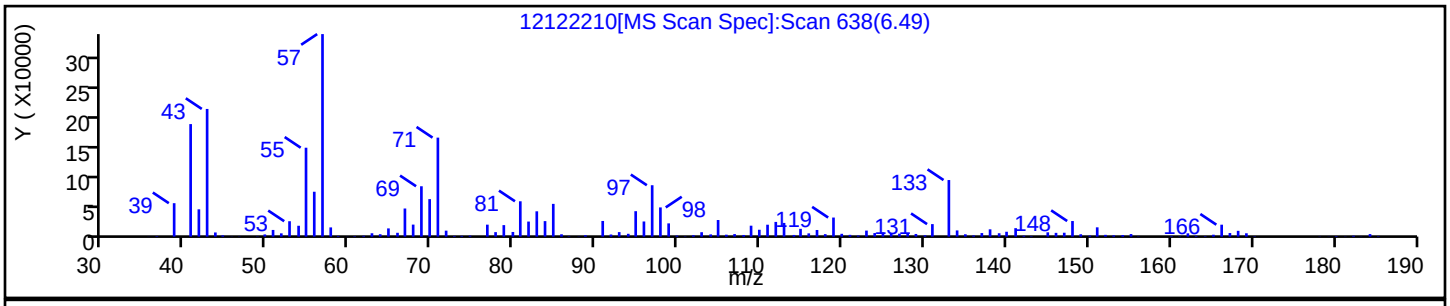
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

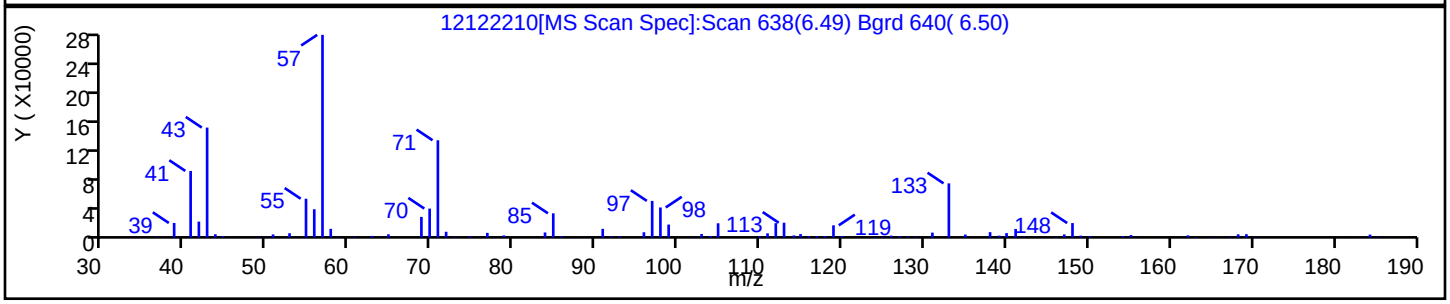
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.485

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





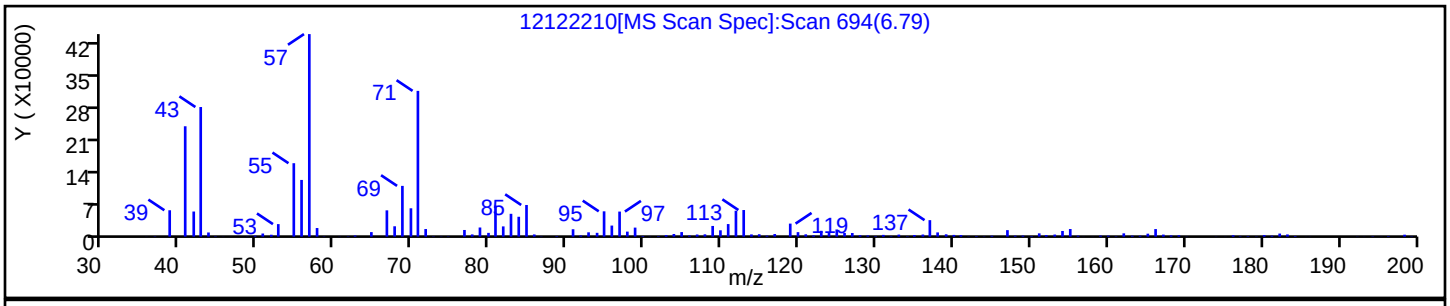
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

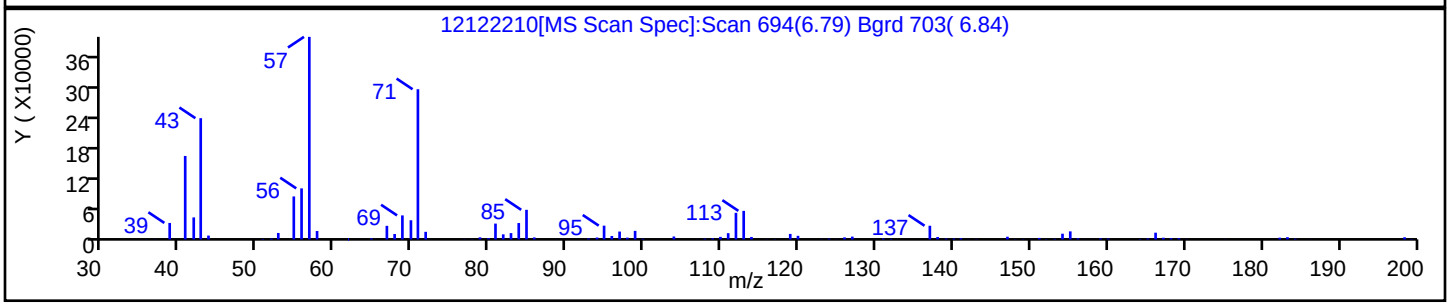
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.784

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





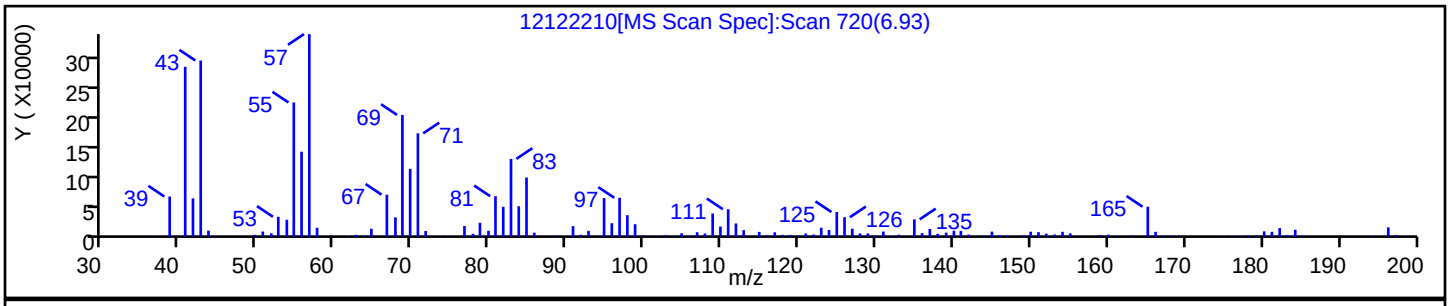
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

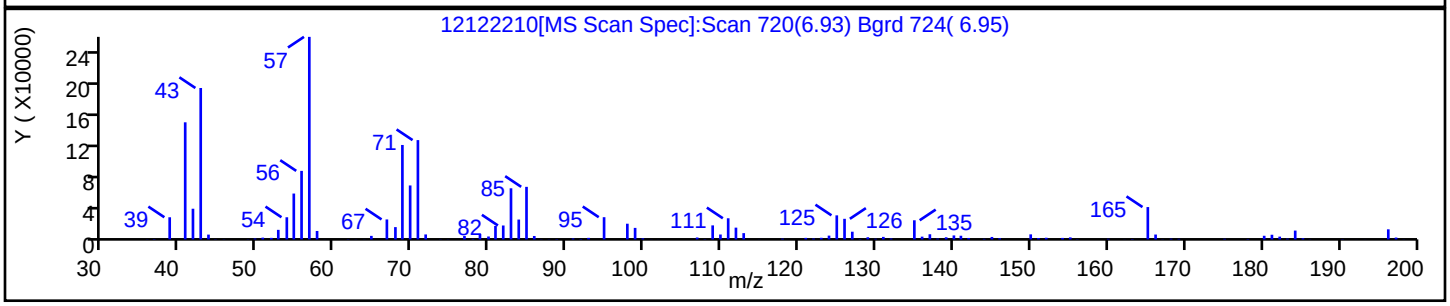
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.923

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





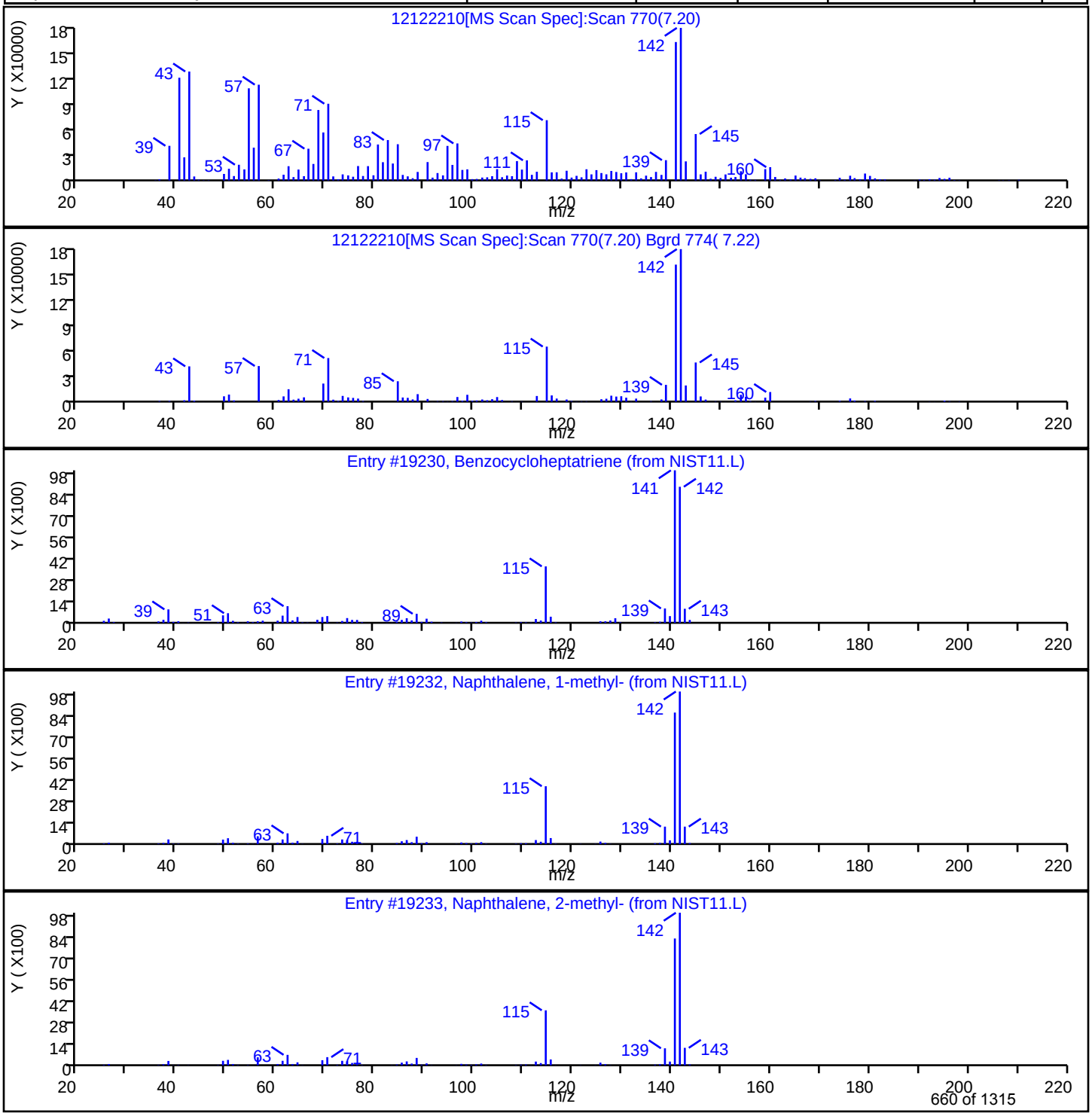
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.190

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzocycloheptatriene	264-09-5	NIST11	19230	C11H10	142	93
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	93
Naphthalene, 2-methyl-	91-57-6	NIST11	19233	C11H10	142	93



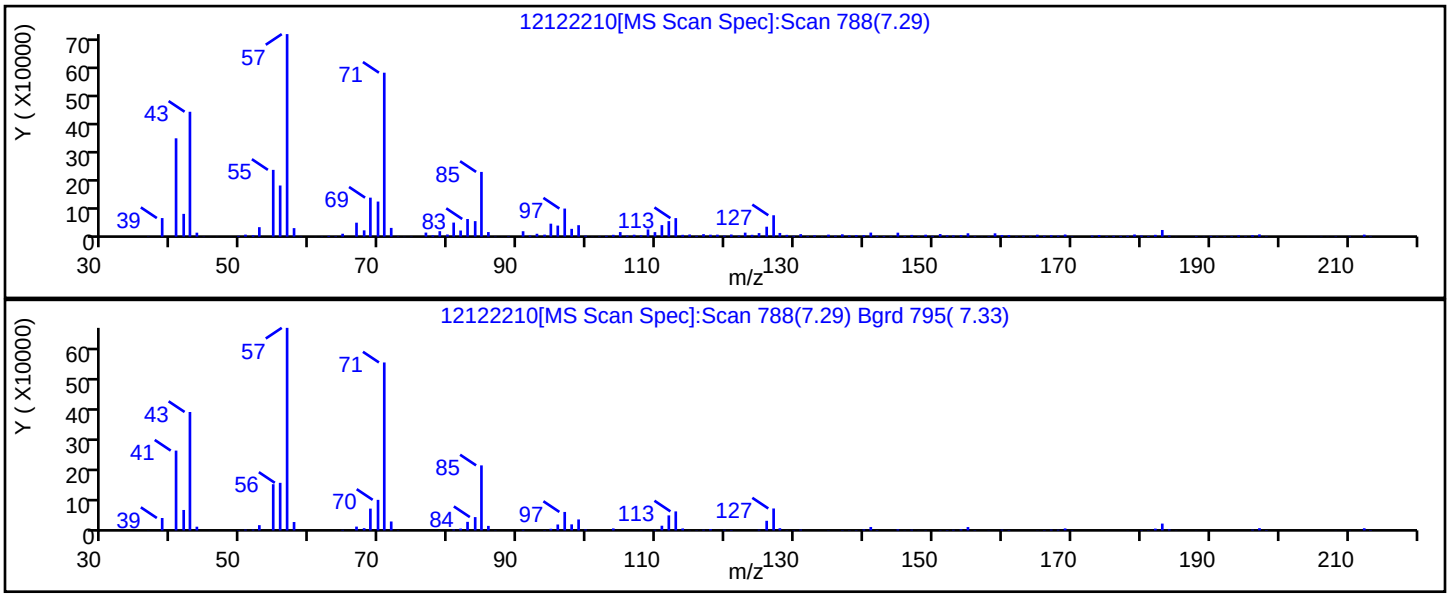
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.286

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



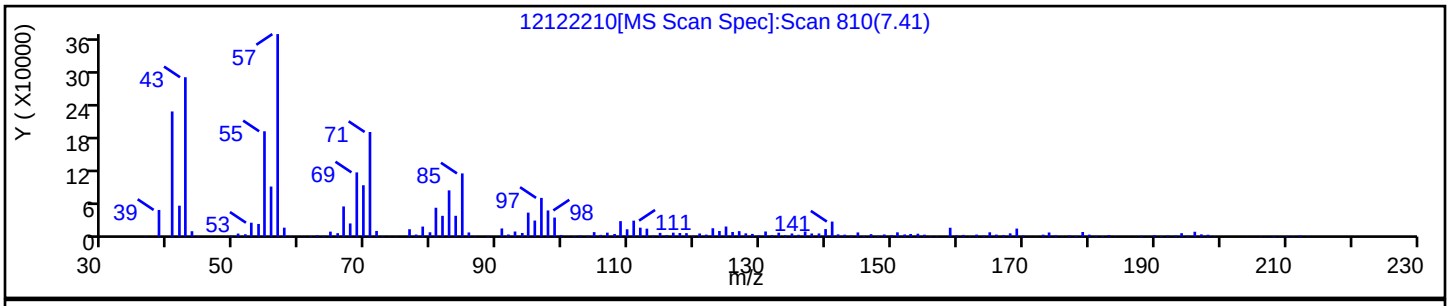
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

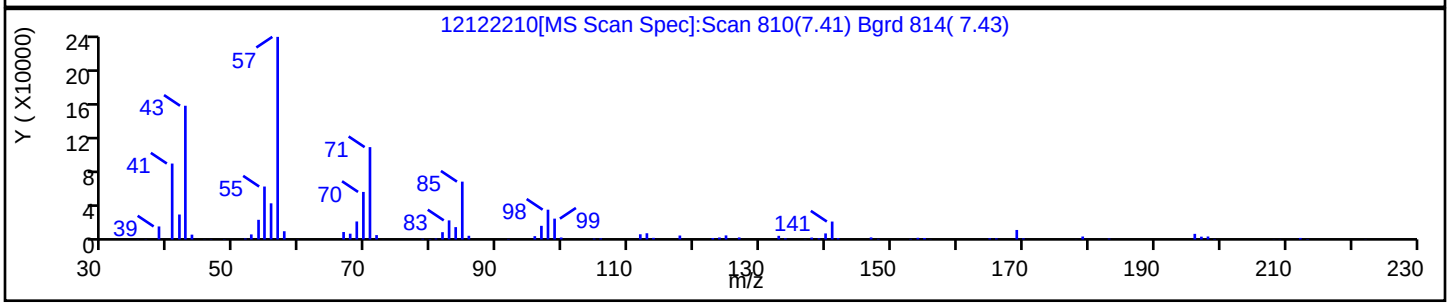
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.404

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





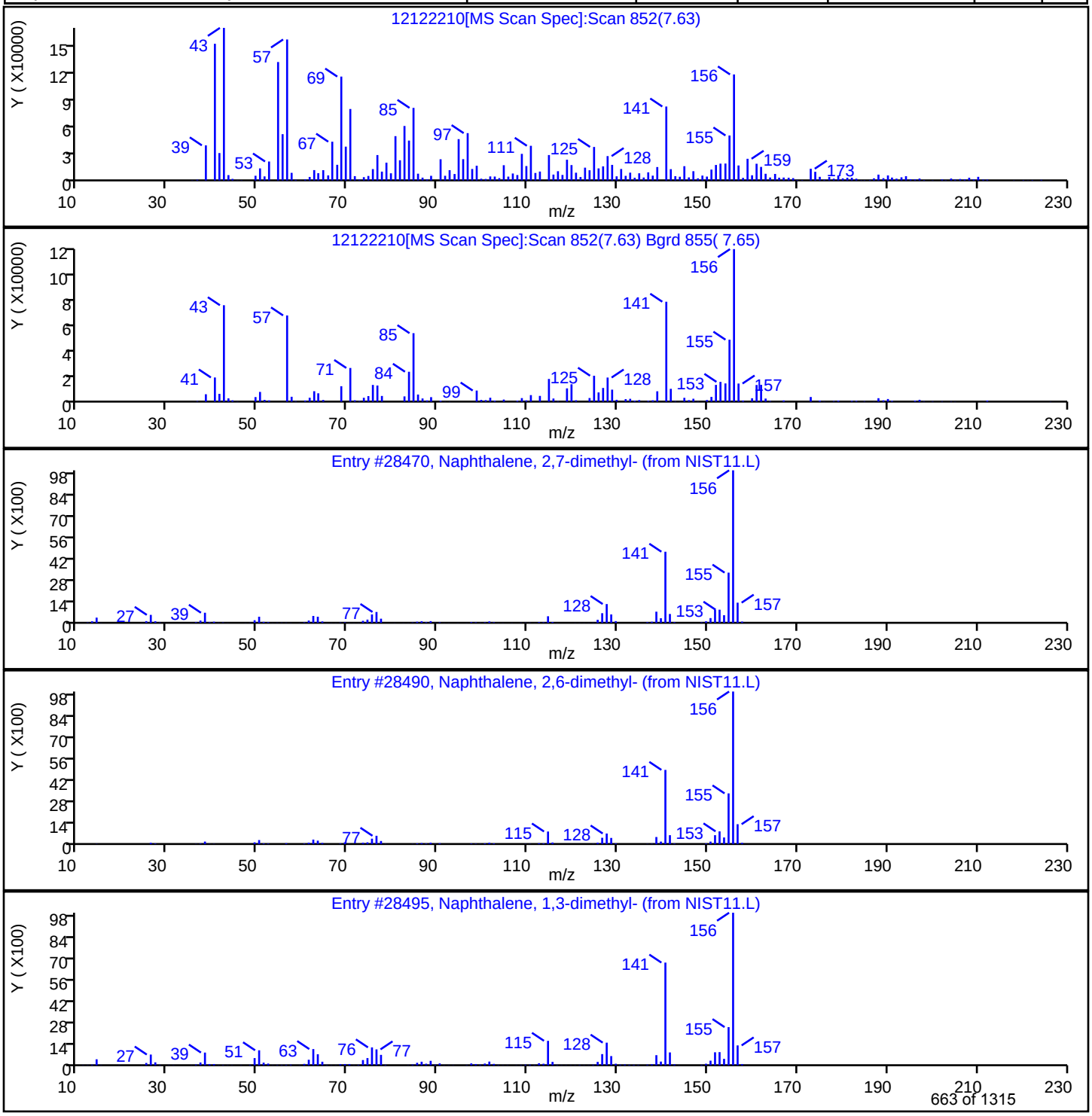
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.628

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 2,7-dimethyl-	582-16-1	NIST11	28470	C12H12	156	96
Naphthalene, 2,6-dimethyl-	581-42-0	NIST11	28490	C12H12	156	94
Naphthalene, 1,3-dimethyl-	575-41-7	NIST11	28495	C12H12	156	92



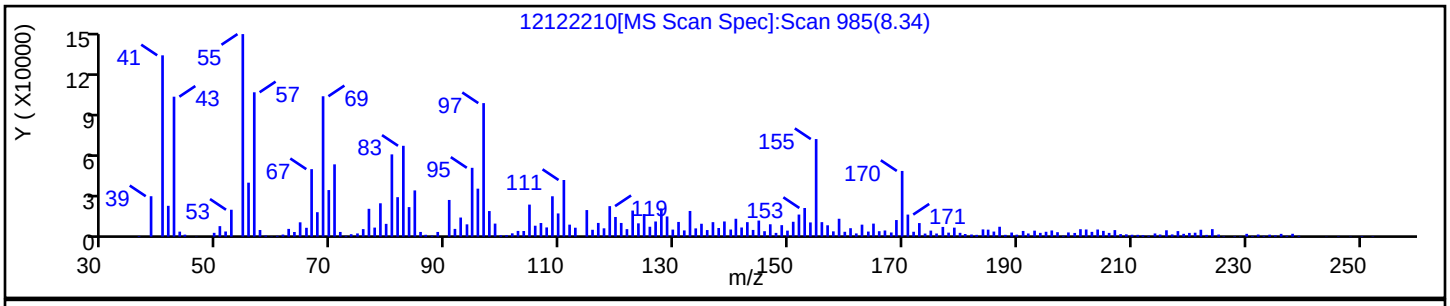
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

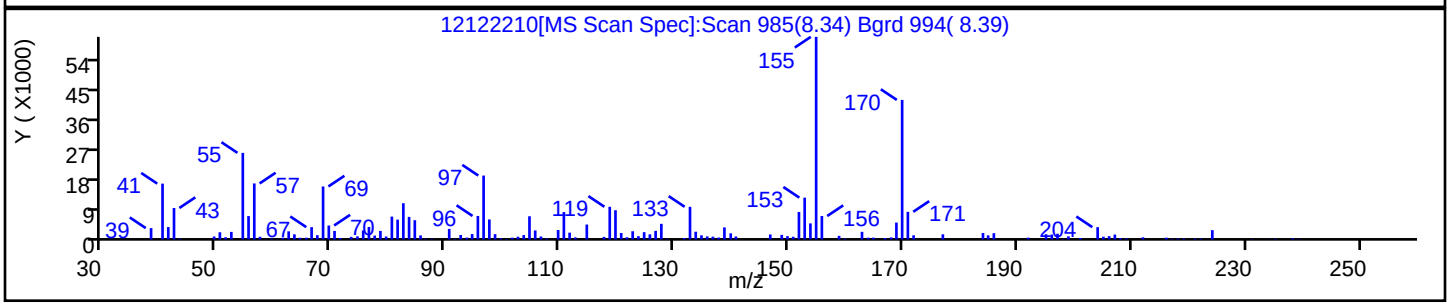
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.339

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





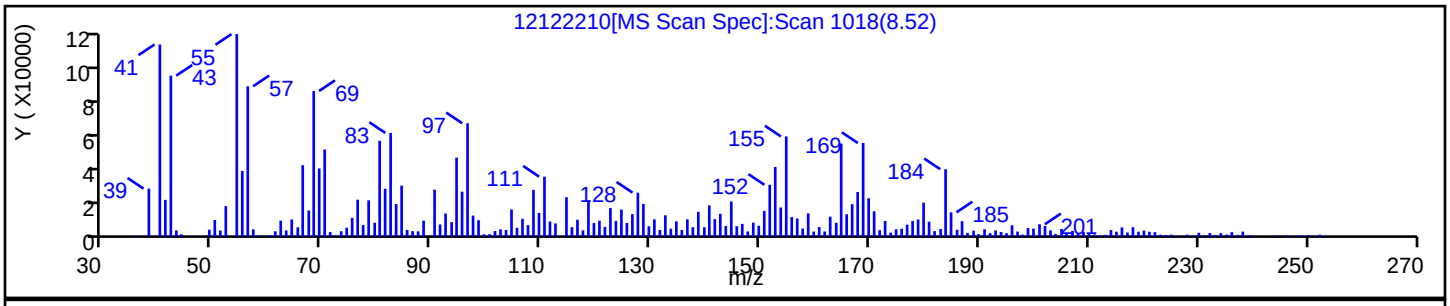
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

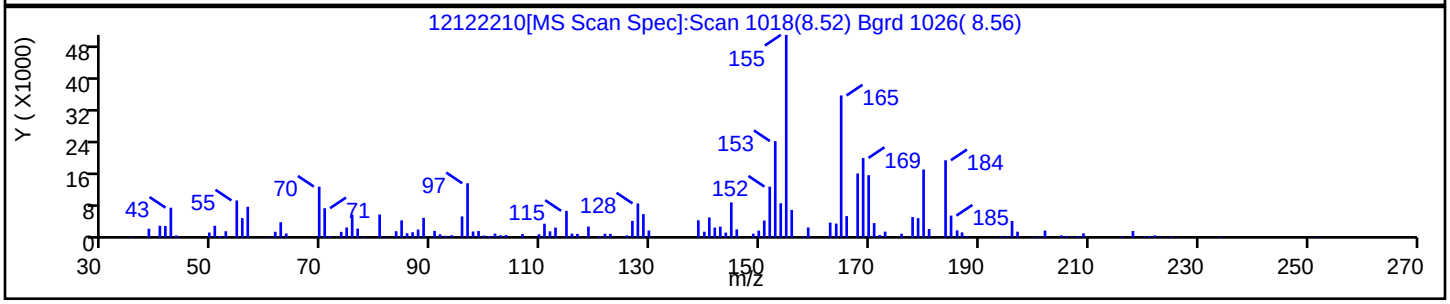
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.515

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





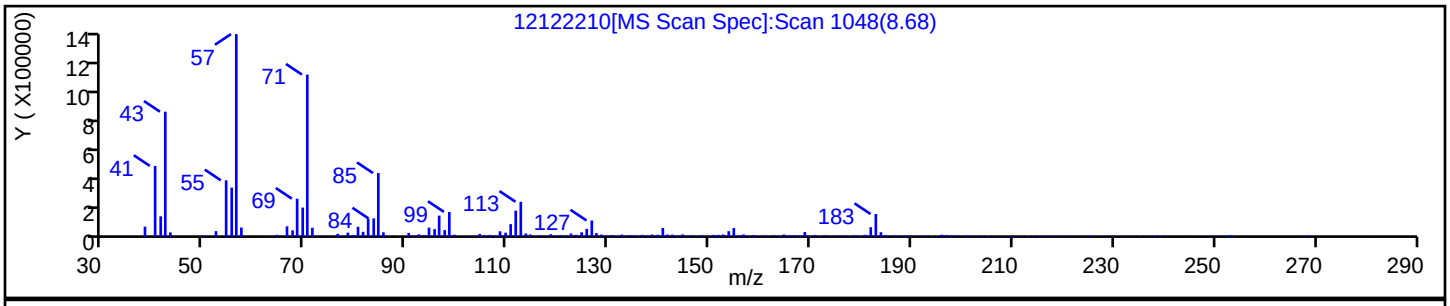
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

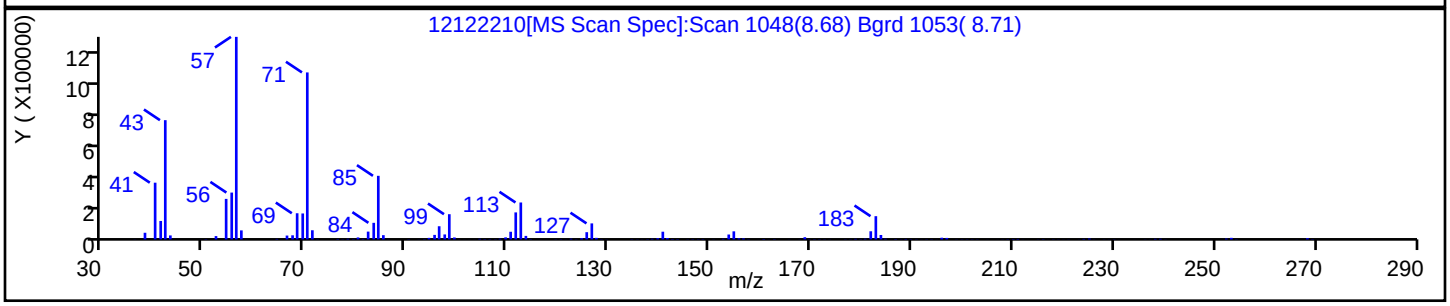
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.675

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





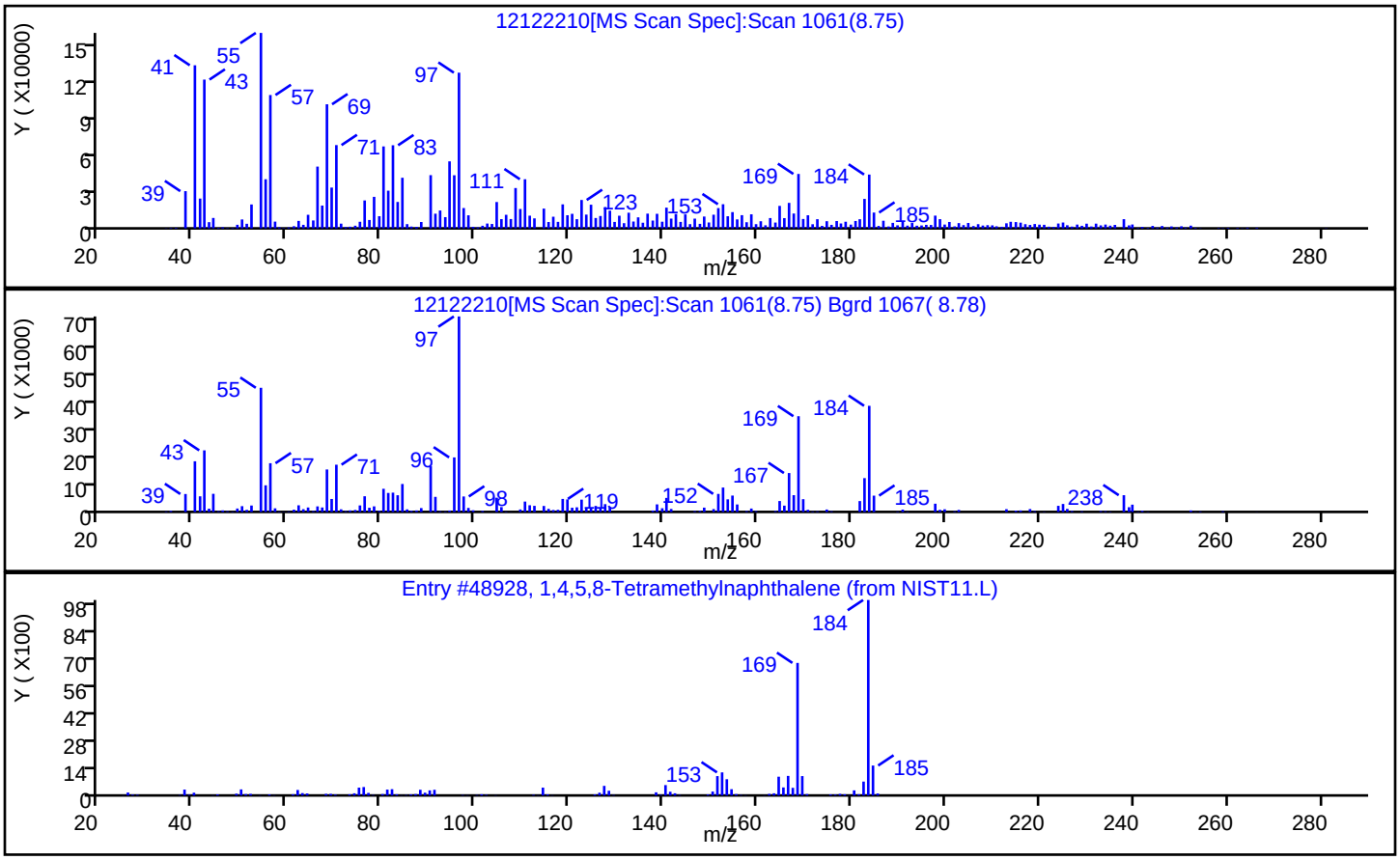
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.745

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1,4,5,8-Tetramethylnaphthalene	2717-39-7	NIST11	48928	C14H16	184	90



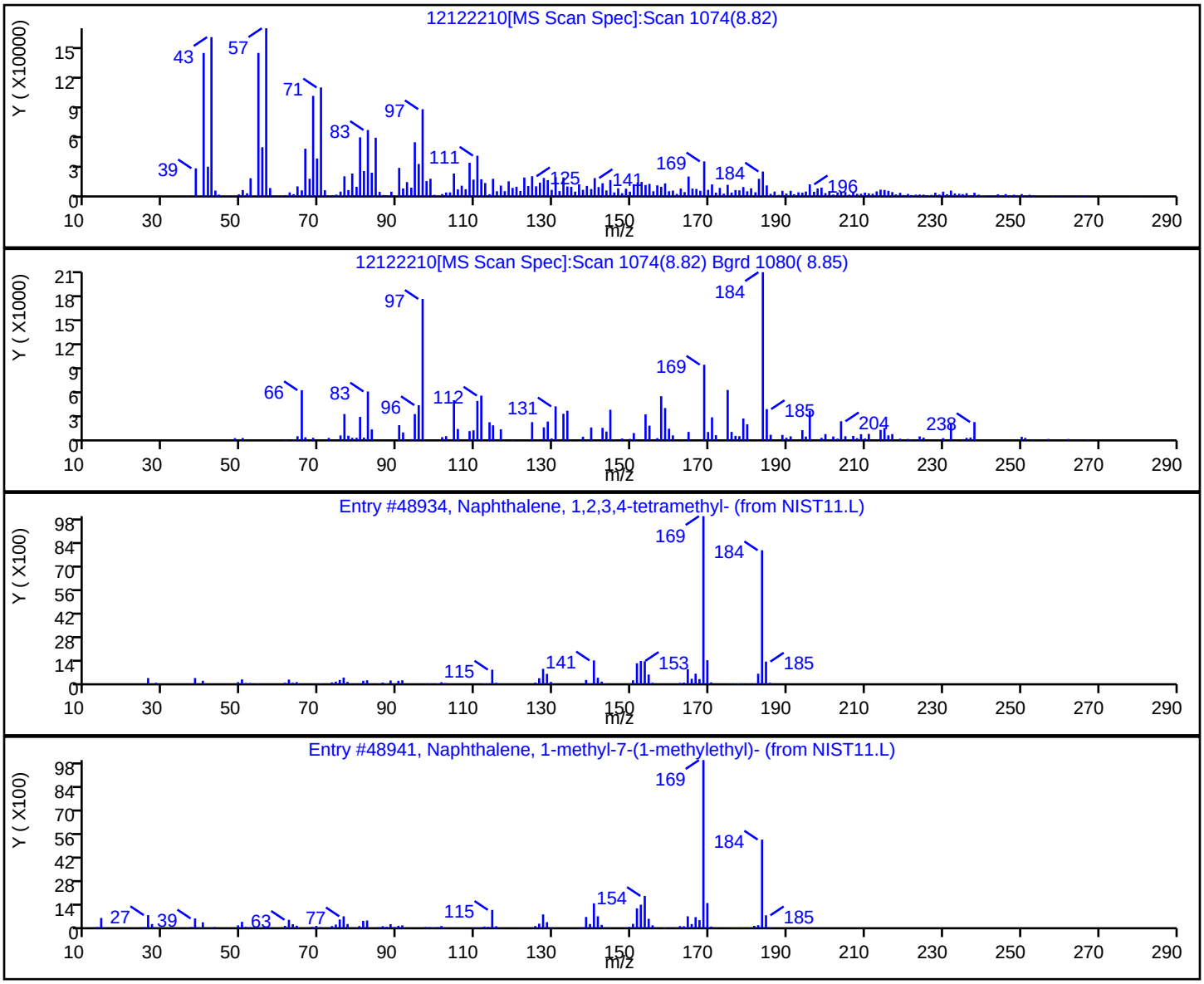
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.814

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2,3,4-tetramethyl-	3031-15-0	NIST11	48934	C14H16	184	95
Naphthalene, 1-methyl-7-(1-methylethyl)-	490-65-3	NIST11	48941	C14H16	184	90



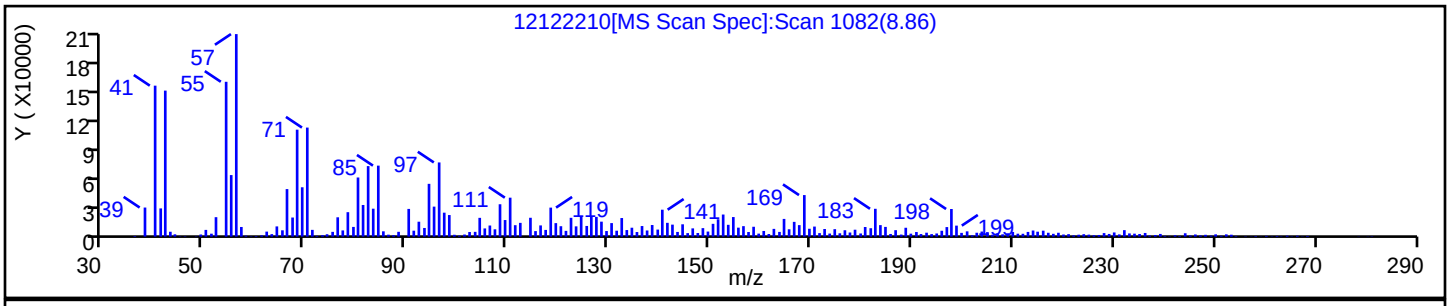
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

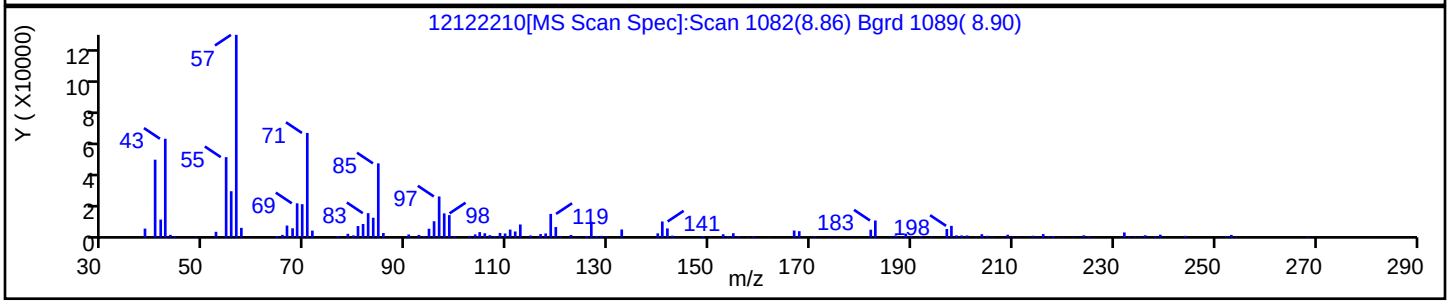
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.857

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





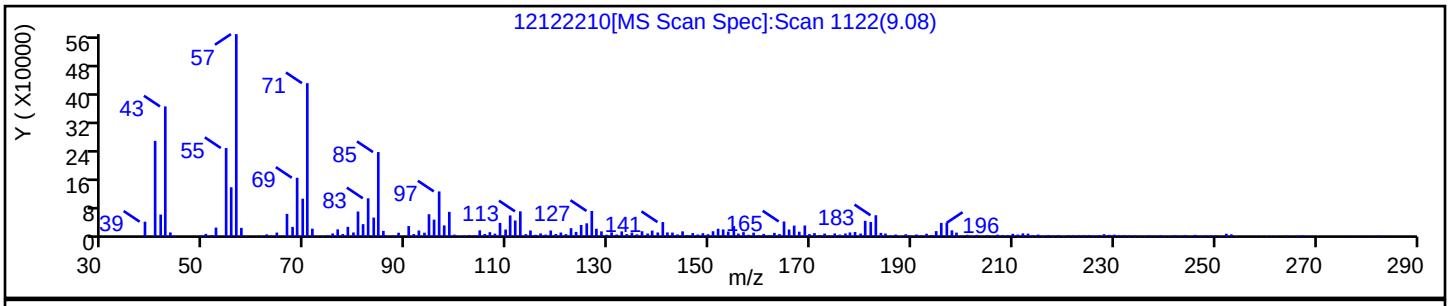
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

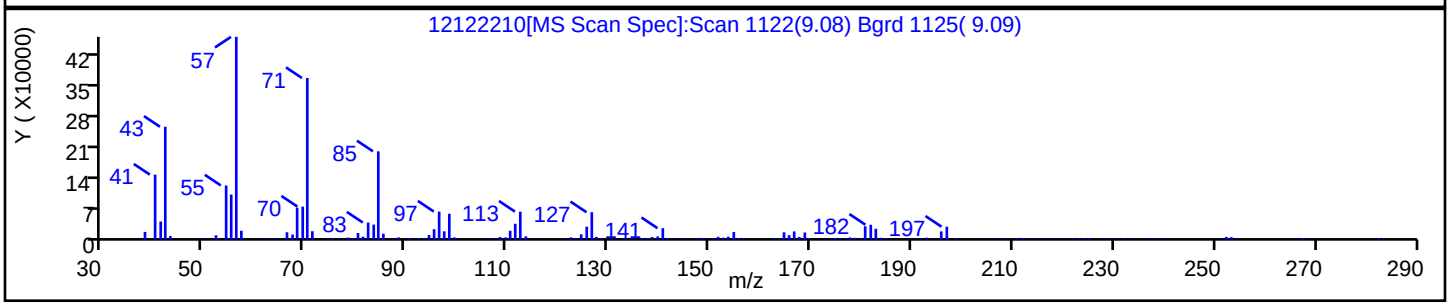
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.071

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





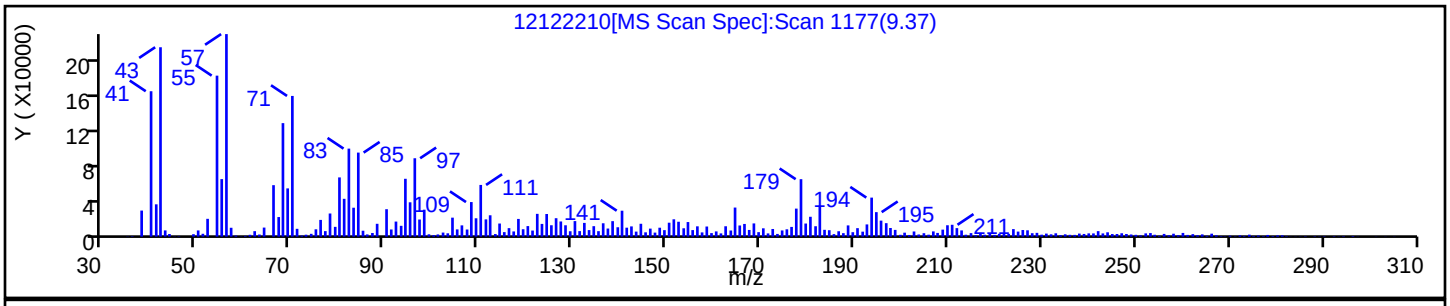
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

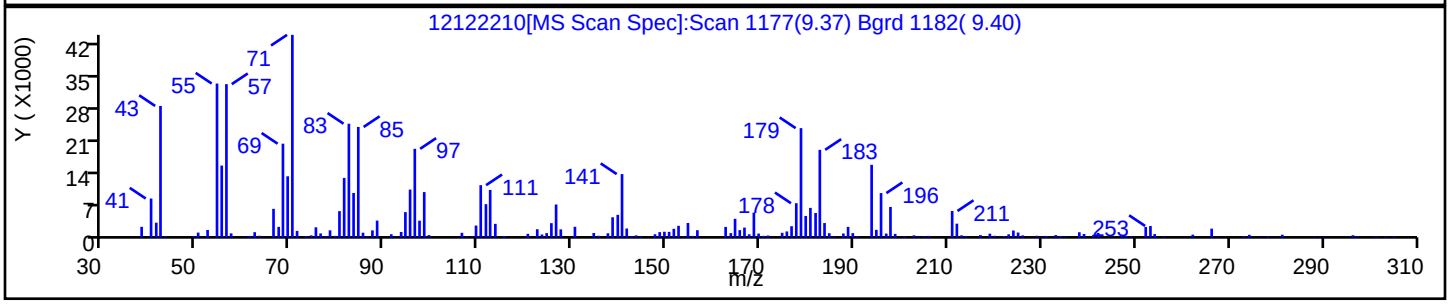
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.364

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





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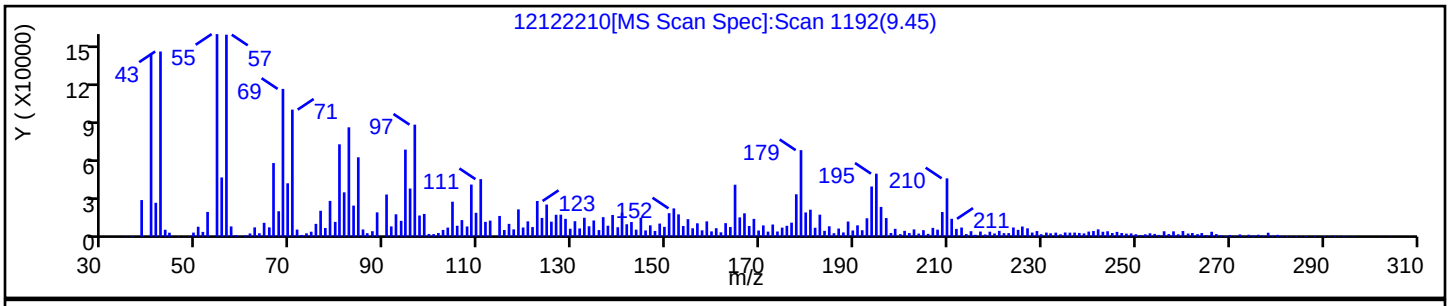
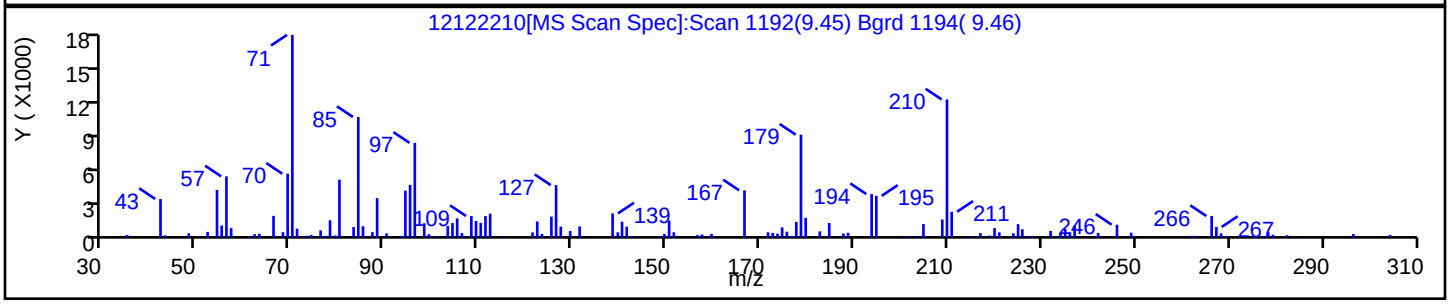
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.445

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





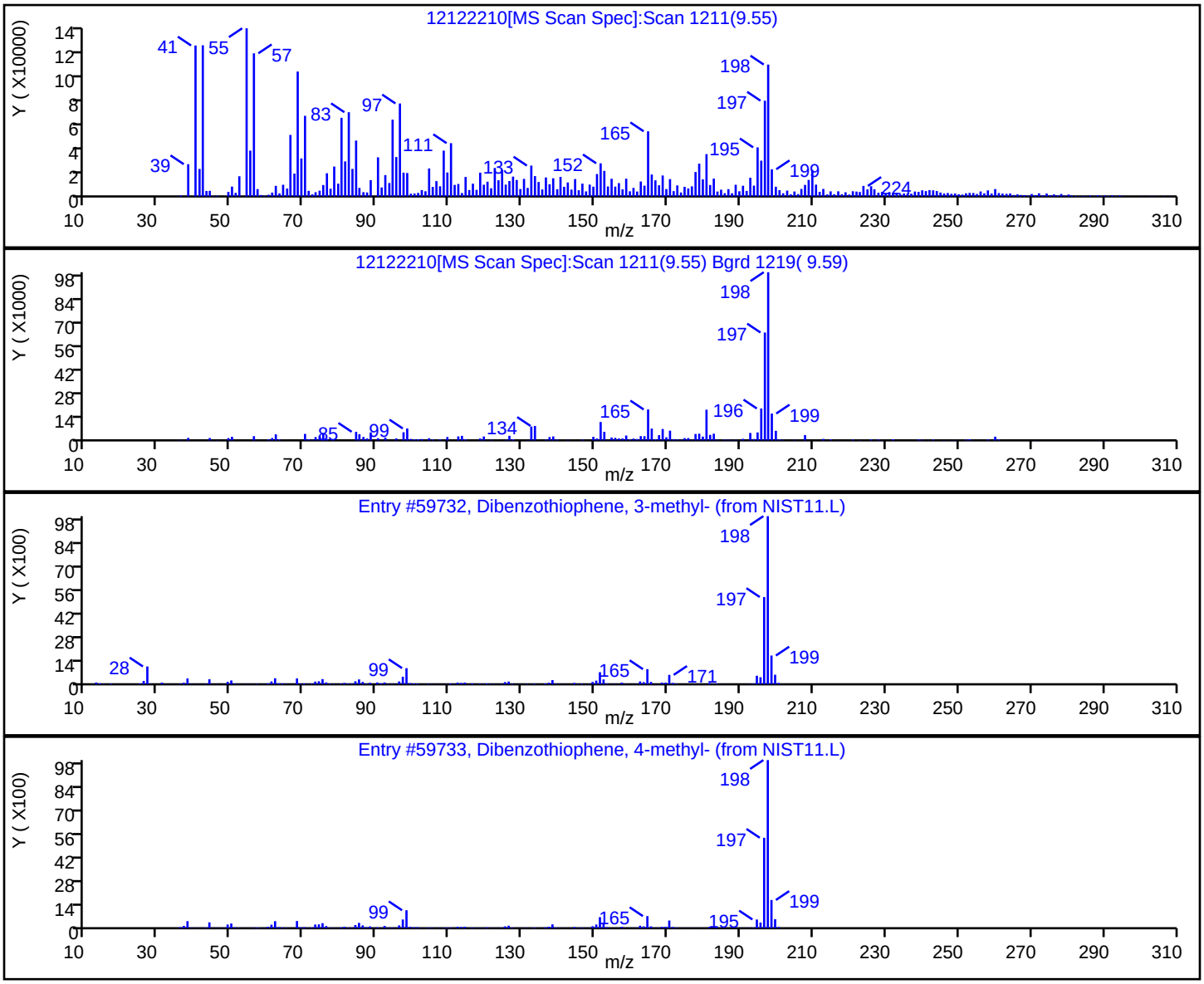
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.546

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Dibenzothiophene, 3-methyl-	16587-52-3	NIST11	59732	C13H10S	198	93
Dibenzothiophene, 4-methyl-	7372-88-5	NIST11	59733	C13H10S	198	89



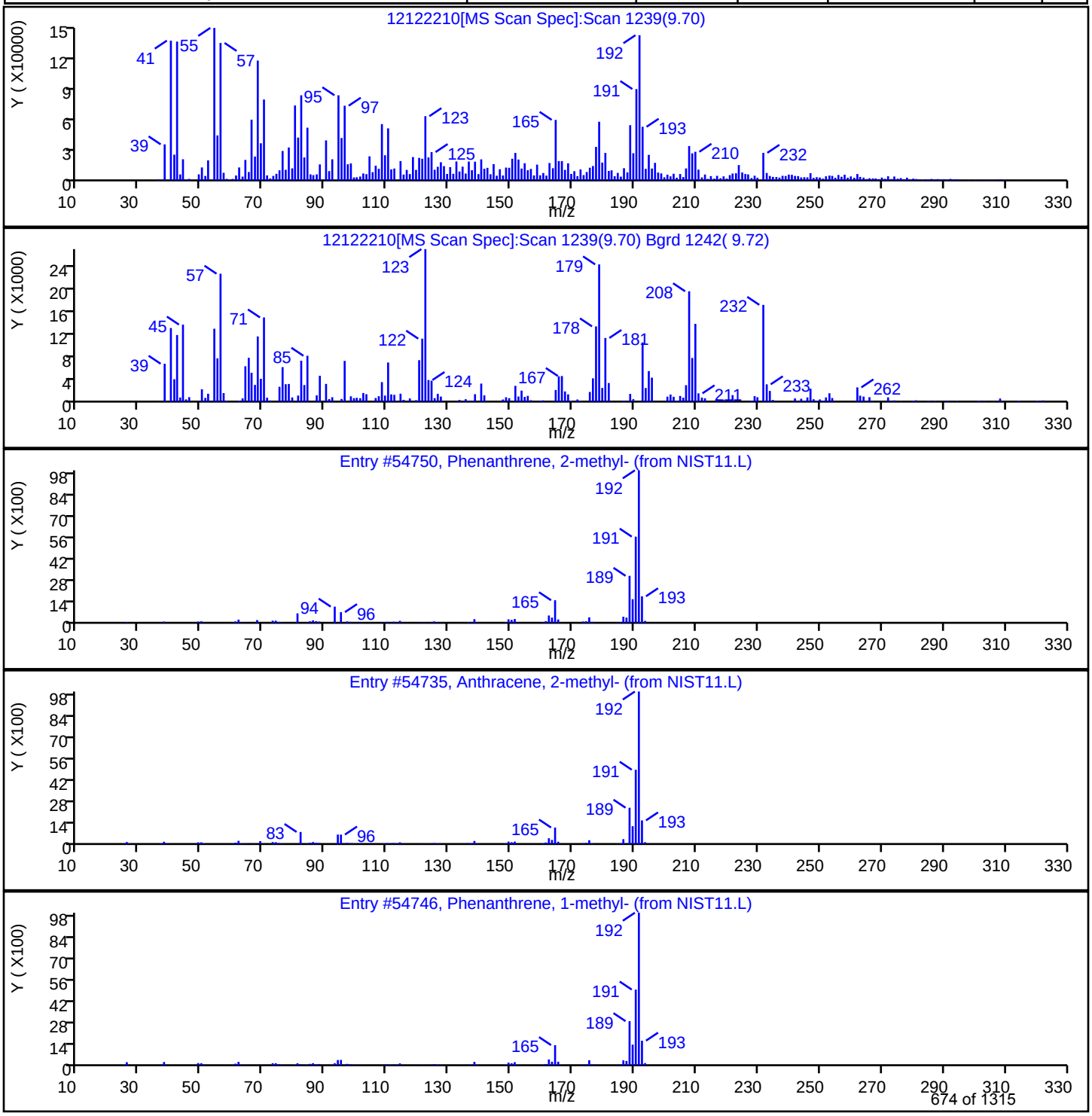
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.696

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenanthrene, 2-methyl-	2531-84-2	NIST11	54750	C15H12	192	95
Anthracene, 2-methyl-	613-12-7	NIST11	54735	C15H12	192	93
Phenanthrene, 1-methyl-	832-69-9	NIST11	54746	C15H12	192	92



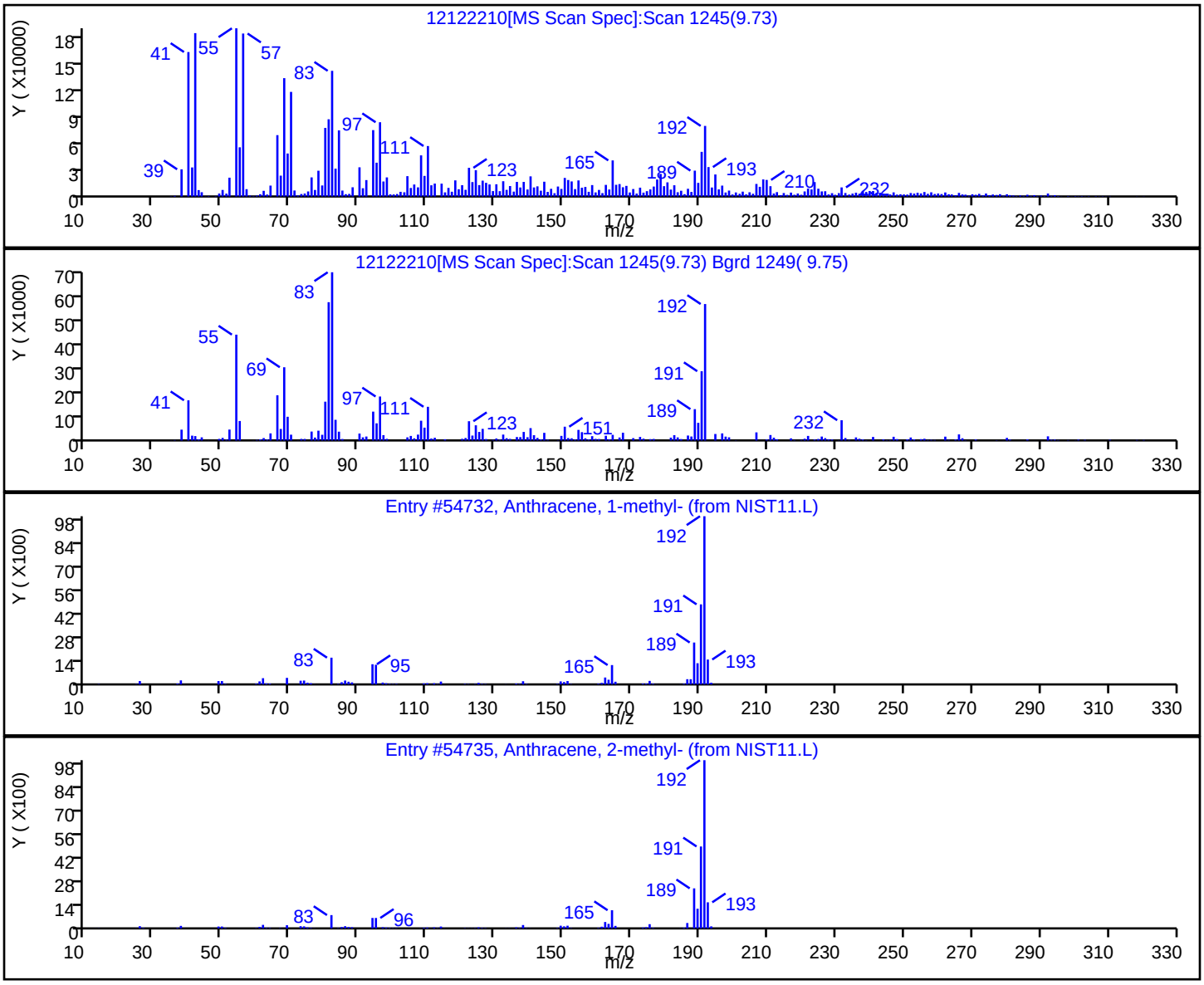
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.728

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Anthracene, 1-methyl-	610-48-0	NIST11	54732	C15H12	192	91
Anthracene, 2-methyl-	613-12-7	NIST11	54735	C15H12	192	91



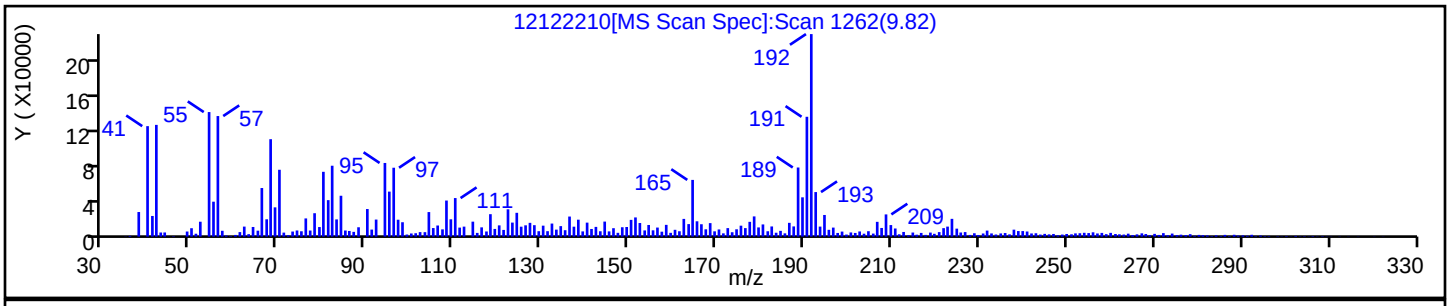
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

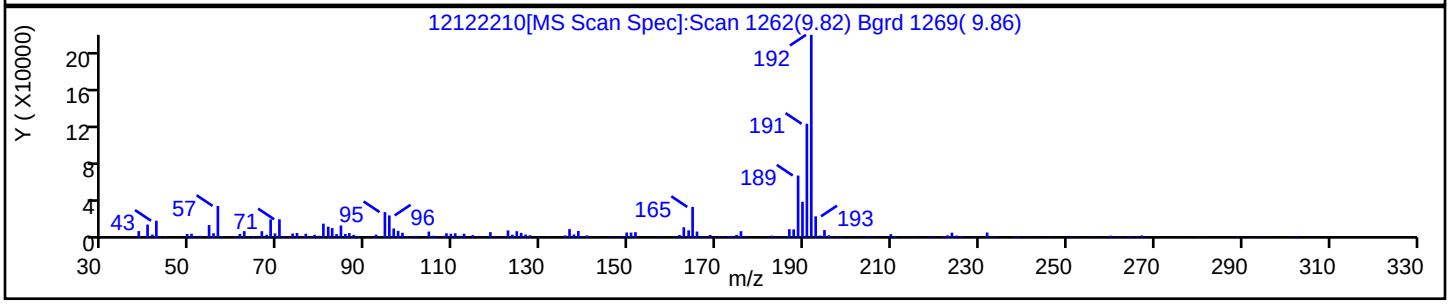
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.819

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





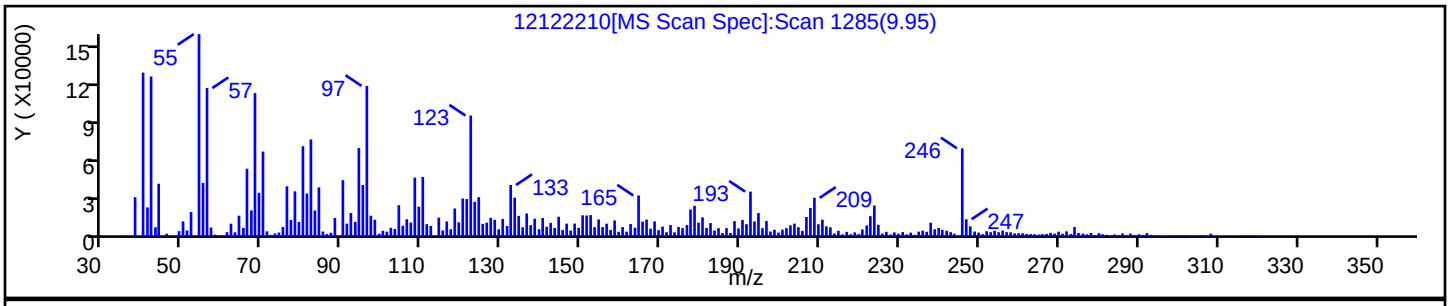
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

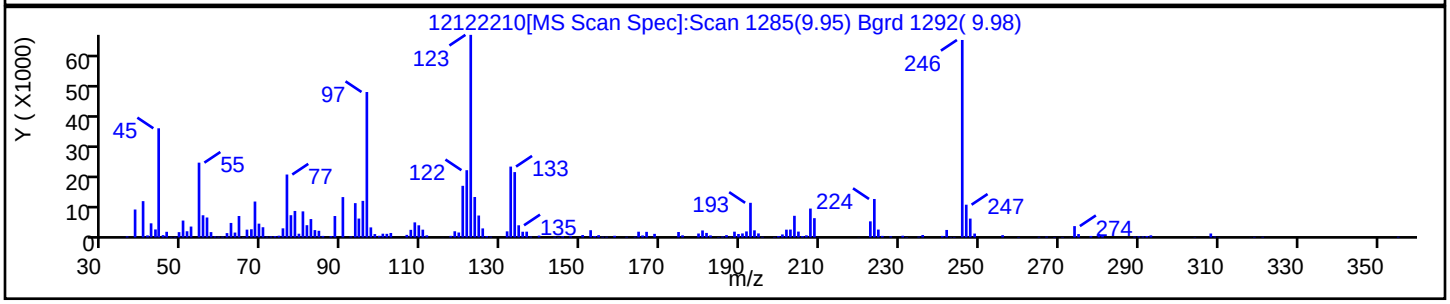
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.941

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





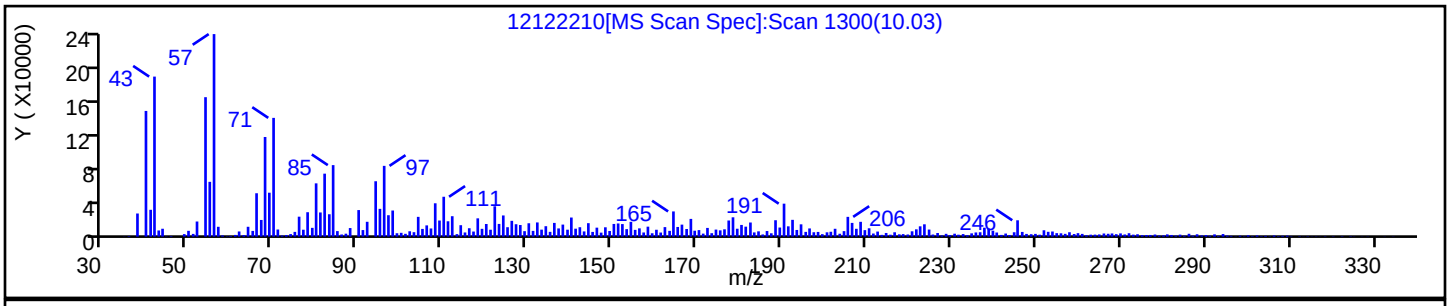
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

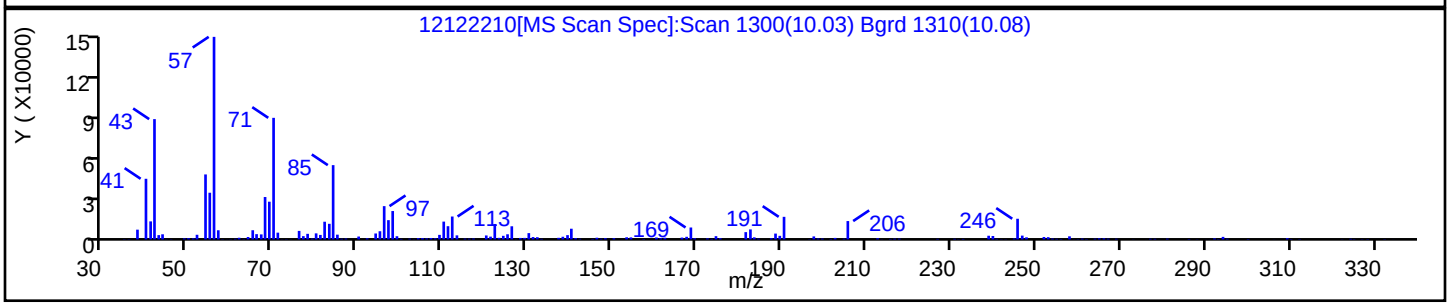
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.022

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





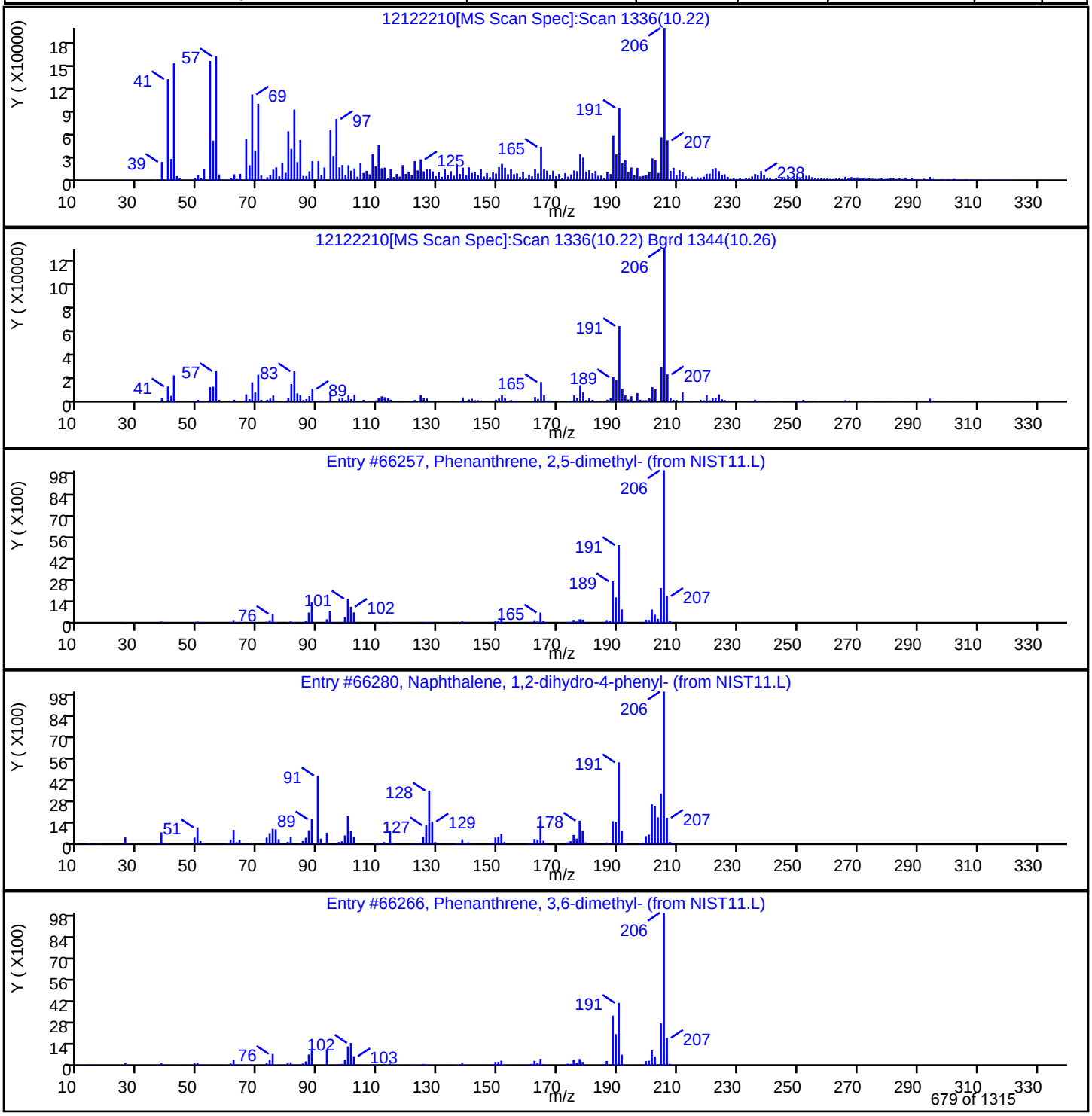
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.214

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenanthrene, 2,5-dimethyl-	3674-66-6	NIST11	66257	C16H14	206	97
Naphthalene, 1,2-dihydro-4-phenyl-	7469-40-1	NIST11	66280	C16H14	206	93
Phenanthrene, 3,6-dimethyl-	1576-67-6	NIST11	66266	C16H14	206	93



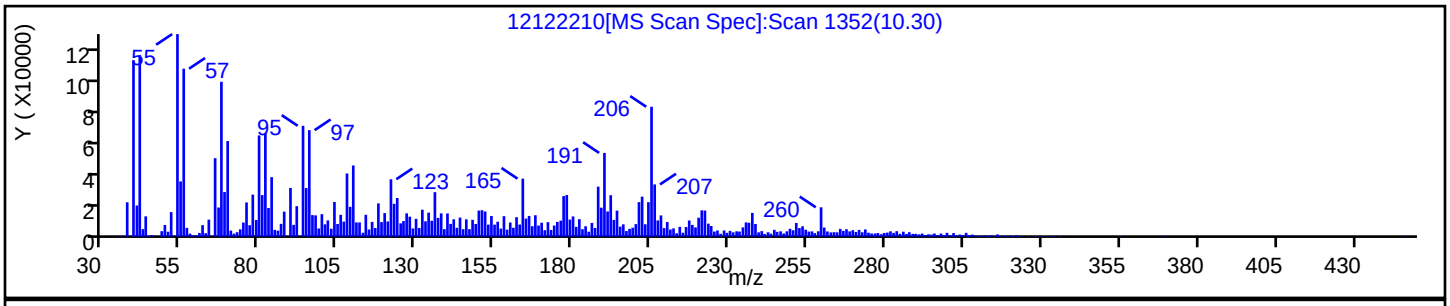
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

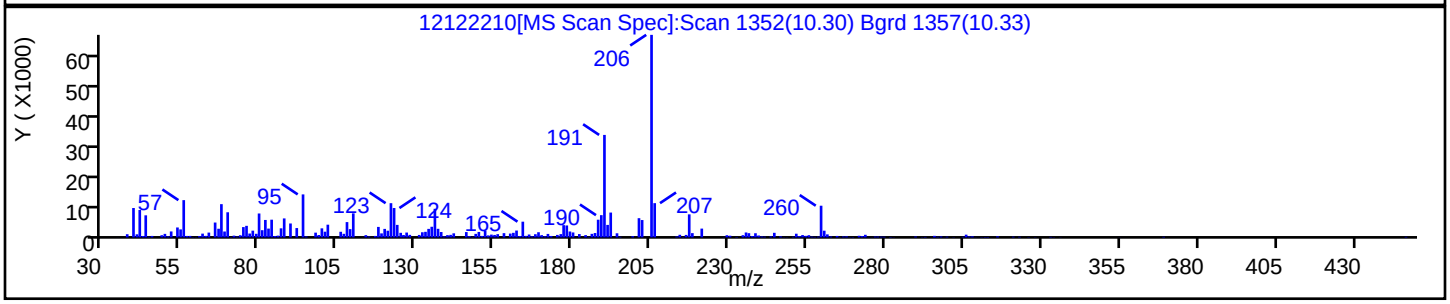
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.299

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





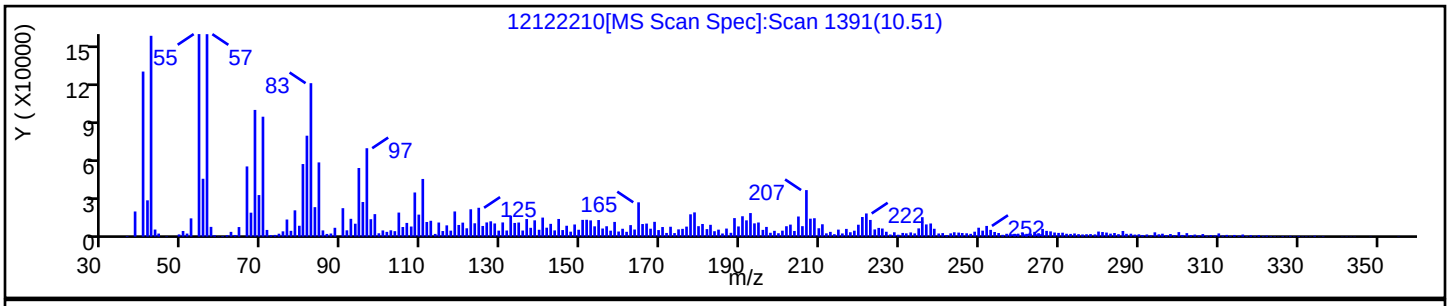
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

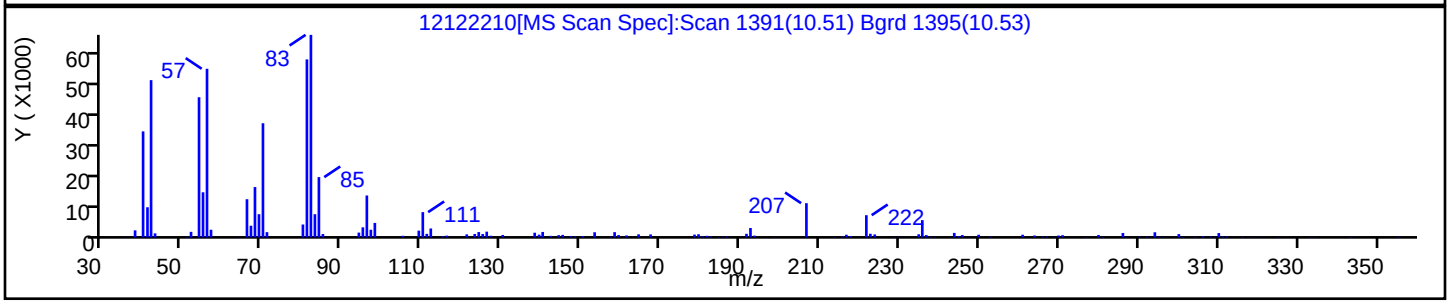
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.508

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





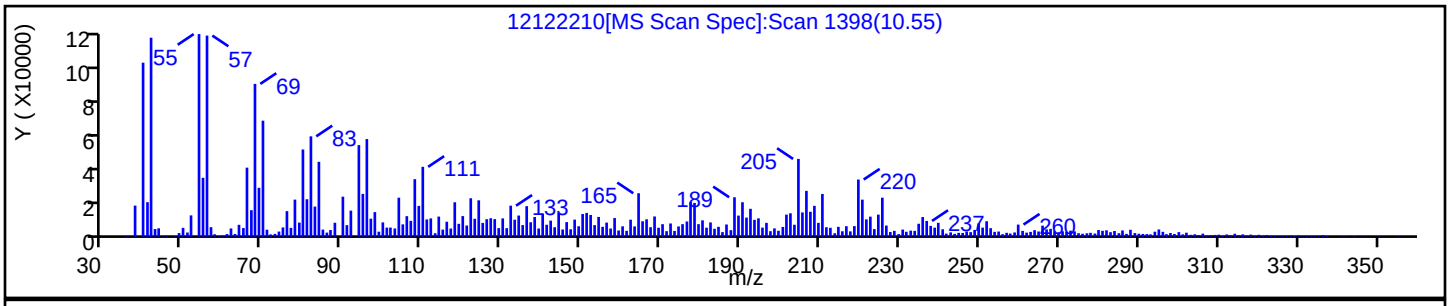
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

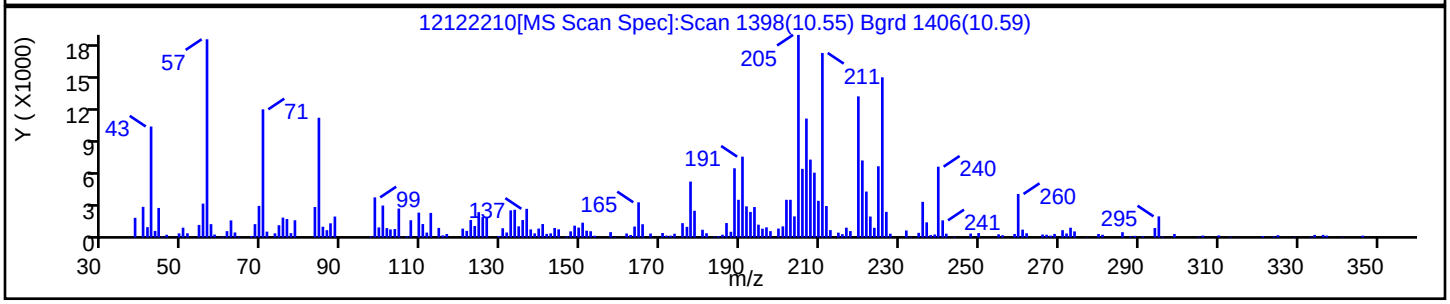
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.545

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





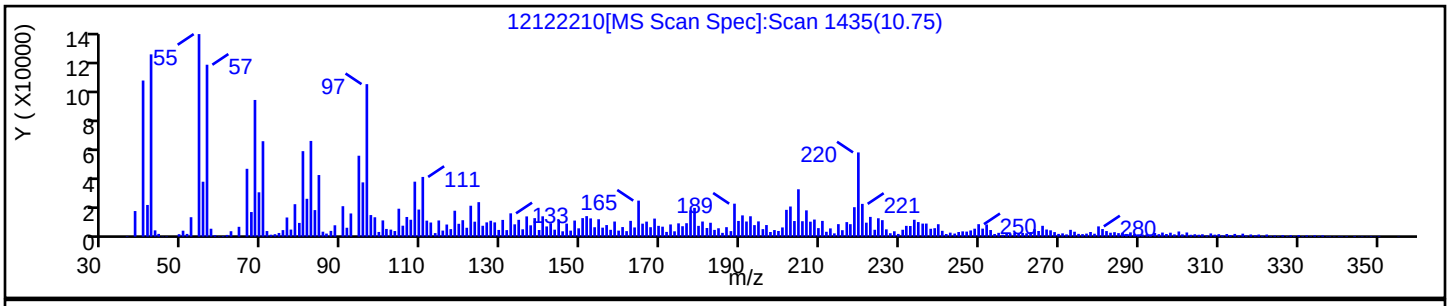
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

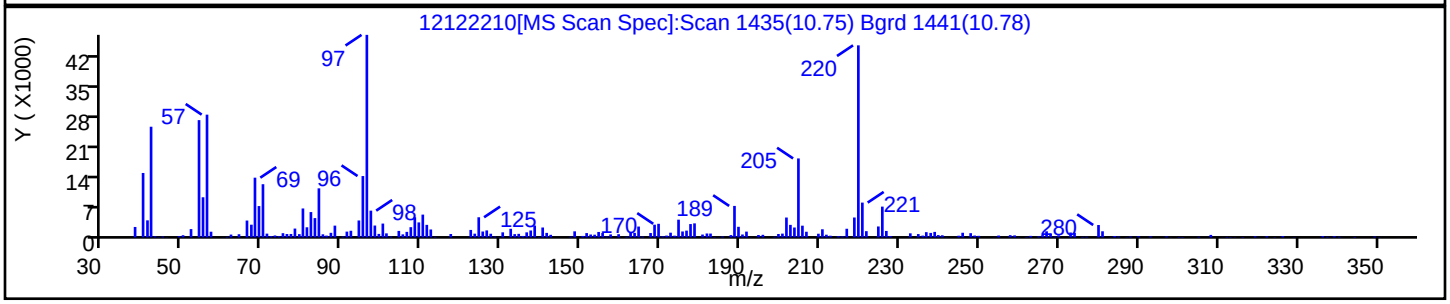
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.743

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





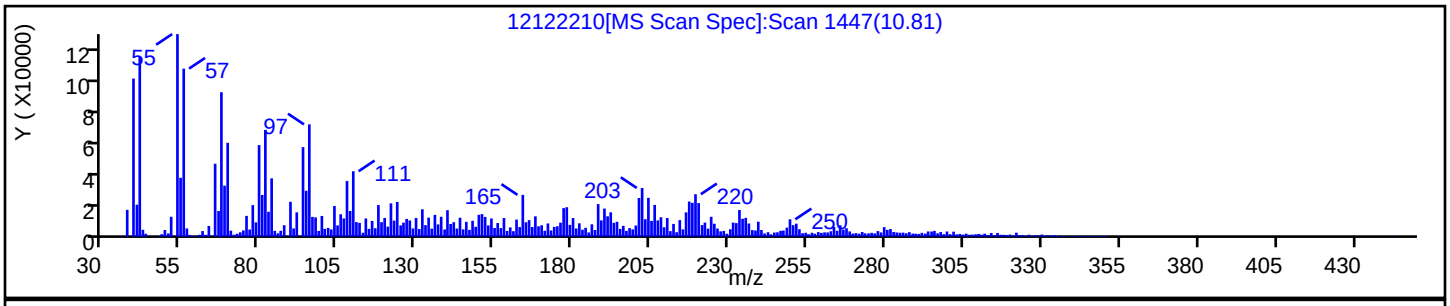
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

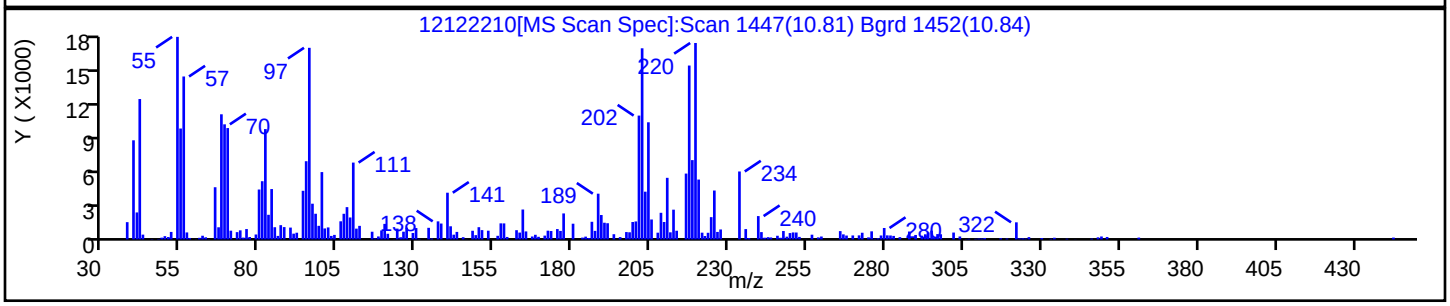
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.807

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





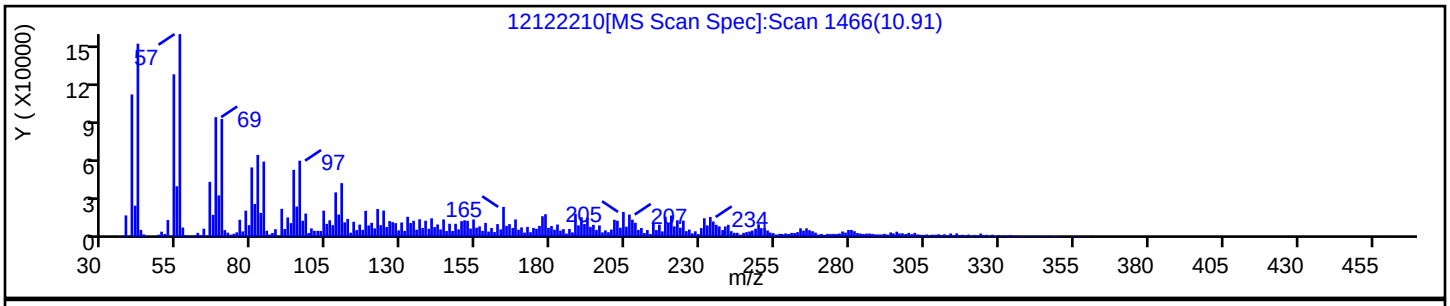
Report Date: 23-Dec-2015 09:58:00 AIM Revision: 1.0 26-May-2015 13:41:26

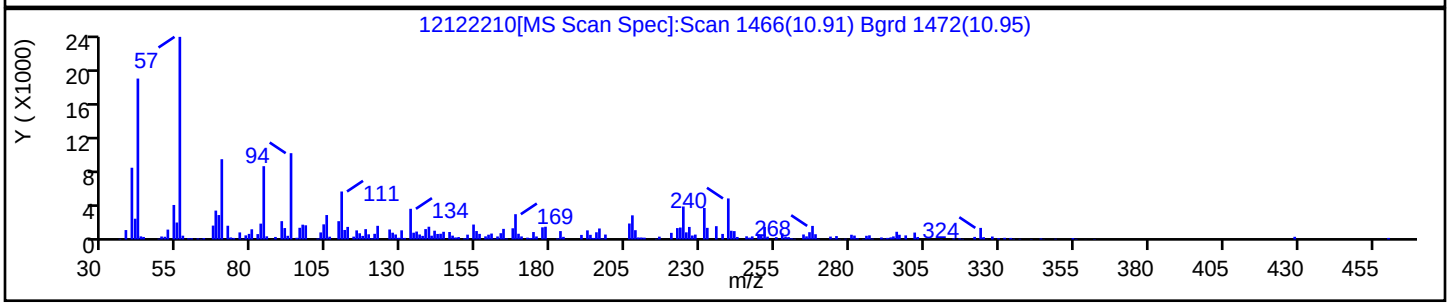
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122210.D		
Injection Date:	22-Dec-2015 13:37:30	Inst. ID:	msd12.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	12122215.b, QL12004-005		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.908

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R25

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-006
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122211
% Solids: 84.4
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1600	U
100-52-7	Benzaldehyde	7700	U
108-95-2	Phenol	7700	U
111-44-4	Bis(2-Chloroethyl) ether	7700	U
95-57-8	2-Chlorophenol	4000	U
95-48-7	2-Methylphenol	7700	U
108-60-1	2,2'-Oxybis(1-chloropropane)	7700	U
98-86-2	Acetophenone	7700	U
106-44-5	4-Methylphenol	7700	U
621-64-7	N-Nitroso-di-n propylamine	4000	U
67-72-1	Hexachloroethane	4000	U
98-95-3	Nitrobenzene	4000	U
78-59-1	Isophorone	4000	U
88-75-5	2-Nitrophenol	4000	U
105-67-9	2,4-Dimethylphenol	4000	U
111-91-1	Bis(2-chloroethoxy)methane	4000	U
120-83-2	2,4-Dichlorophenol	4000	U
91-20-3	Naphthalene	4000	U
106-47-8	4-Chloroaniline	7700	U
87-68-3	Hexachlorobutadiene	4000	U
105-60-2	Caprolactam	7700	U
59-50-7	4-Chloro-3-methylphenol	4000	U
91-57-6	2-Methylnaphthalene	740	J
77-47-4	Hexachlorocyclo-pentadiene	7700	U
88-06-2	2,4,6-Trichlorophenol	4000	U
95-95-4	2,4,5-Trichlorophenol	4000	U
92-52-4	1,1'-Biphenyl	4000	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R25

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-006
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122211
% Solids: 84.4
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	4000	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	4000	U
606-20-2	2,6-Dinitrotoluene	4000	U
208-96-8	Acenaphthylene	4000	U
99-09-2	3-Nitroaniline	7700	U
83-32-9	Acenaphthene	4000	U
51-28-5	2,4-Dinitrophenol	7700	U
100-02-7	4-Nitrophenol	7700	U
132-64-9	Dibenzofuran	4000	U
121-14-2	2,4-Dinitrotoluene	4000	U
84-66-2	Diethylphthalate	4000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	4000	U
7005-72-3	4-Chlorophenyl-phenyl ether	4000	U
86-73-7	Fluorene	4000	U
100-01-6	4-Nitroaniline	7700	U
534-52-1	4,6-Dinitro-2-methylphenol	7700	U
101-55-3	4-Bromophenyl-phenylether	4000	U
86-30-6	N-Nitrosodiphenylamine	4000	U
118-74-1	Hexachlorobenzene	4000	U
1912-24-9	Atrazine	7700	U
87-86-5	Pentachlorophenol	7700	U
85-01-8	Phenanthrene	880	J
120-12-7	Anthracene	4000	U
86-74-8	Carbazole	7700	U
84-74-2	Di-n-butylphthalate	4000	U
206-44-0	Fluoranthene	7700	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R25

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-006
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122211
% Solids: 84.4
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	4000	U
85-68-7	Butylbenzylphthalate	4000	U
91-94-1	3,3'-Dichlorobenzidine	7700	U
56-55-3	Benzo(a)anthracene	4000	U
218-01-9	Chrysene	4000	U
117-81-7	Bis(2-ethylhexyl)phthalate	4000	U
117-84-0	Di-n-octylphthalate	7700	U
205-99-2	Benzo(b)fluoranthene	4000	U
207-08-9	Benzo(k)fluoranthene	4000	U
50-32-8	Benzo(a)pyrene	4000	U
193-39-5	Indeno(1,2,3-cd)pyrene	4000	U
53-70-3	Dibenzo(a,h)anthracene	4000	U
191-24-2	Benzo(g,h,i)perylene	4000	U
58-90-2	2,3,4,6-Tetrachlorophenol	4000	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R25

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-006
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 12122211
% Solids: 84.4
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Y
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 500 (uL)
Heated Purge: (Y/N)
Extraction Type: SONC
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types: GPC
pH: Dilution Factor: 20.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.87	36000	J
02		Unknown-02	6.43	6900	J
03					
04		Unknown-03	6.62	7600	J
05					
06		Unknown-04	6.79	20000	J
07		Unknown-05	6.93	11000	J
08		Unknown-06	6.96	14000	J
09					
10	90-12-0	Naphthalene, 1-methyl-	7.19	11000	NJ
11		Unknown-07	7.23	9300	J
12	66563-30-2	Bacchotricuneatin c	7.29	25000	NJ
13		Unknown-08	7.35	10000	J
14					
15		Unknown-09	7.45	15000	J
16		Unknown-10	7.49	9700	J
17	575-43-9	Naphthalene, 1,6-dimethyl-	7.63	18000	NJ
18		Unknown-11	7.91	11000	J
19		Unknown-12	8.07	11000	J
20		Unknown-13	8.16	17000	J
21	41446-64-4	6-Tetradecene, (E)-	8.31	11000	NJ
22					
23					
24	2717-39-7	1,4,5,8-	8.74	9300	NJ
25		Unknown-14	8.81	12000	J
26					
27		Unknown-15	9.00	14000	J
28					
29					
30		Unknown-16	9.44	14000	J
	E966796[2]	Total Alkanes	N/A	115500	J

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Lab Sample ID:	QL12004-006	Client Sample ID:	F6R25
Injection Date:	22-Dec-2015 14:05:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL12004-006		
Misc. Info:	92512 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	9
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.400	Weight of sample extracted (g)
M	15.600	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 14:35:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 3 Phenol-d5	99.0	5.117	5.122	-0.005	37647	1.0545	821.99	Qe
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	900	0.06892	53.725	eR
4 Phenol	94.0		5.133		ND			
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	40266	1.6722	1303.48	Qe
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.293	5.299	-0.006	25452	1.0776	839.96	Qe
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	389760	20.000	15590	
10 2-Methylphenol	108.0		5.614		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.699	5.710	-0.011	30371	1.1712	912.92	Qe
14 4-Methylphenol	108.0		5.737		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.918	-0.010	20749	1.3104	1021.48	Qe
17 Nitrobenzene	77.0		5.935		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.170		ND			
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	16656	0.91859	716.03	Qe
19 2-Nitrophenol	139.0		6.186		ND			

Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122211.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.367	-0.005	30096	1.1307	881.35	Qe
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1831482	20.000	15590	Q
24 Naphthalene	128.0		6.538		ND			
$ 97 4-Chloroaniline-d4	131.0	6.533	6.544	-0.011	282009	7.0281	5478.42	QeR
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0	7.104	7.104	0.000	60113	0.94366	735.58	e
30 Hexachlorocyclopentadiene	237.0		7.227		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.687	-0.011	101627	1.4440	1125.59	Qe
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.868	7.874	-0.006	130280	1.3990	1090.54	Qe
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	8.002	7.997	0.005	1077483	20.000	15590	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0	7.981	8.034	-0.053	206438	11.997	9351.99	QR
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.290		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	94676	1.4338	1117.63	Qe
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.477	8.472	0.005	35367	1.9256	1501.01	Qe
51 4,6-Dinitro-2-methylphenol	198.0		8.477		ND			
52 N-Nitrosodiphenylamine	169.0		8.525		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.273	-0.005	2017940	20.000	15590	
59 Phenanthrene	178.0	9.289	9.295	-0.006	127009	1.1303	881.09	Qe
$ 103 Anthracene-d10	188.0	9.316	9.321	-0.005	161583	1.5706	1224.29	Qe
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			

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Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122211.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 104 Pyrene-d10	212.0	10.636	10.641	-0.005	156558	1.5731	1226.22	e
64 Pyrene	202.0		10.662		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.174	12.180	-0.006	2280890	20.000	15590	
70 Chrysene	228.0		12.222		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.306	14.322	-0.016	133289	1.2363	963.70	e
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.461	14.461	0.000	2224007	20.000	15590	
77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Lab Sample ID:	QL12004-006	Client Sample ID:	F6R25
Injection Date:	22-Dec-2015 14:05:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL12004-006		
Misc. Info:	92512 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	9
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.400	Weight of sample extracted (g)
M	15.600	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 14:35:30

Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
5.865	8127810	45.960	35826	8				
		Unknown						
6.426	7770852	8.8552	6902.63	23				
		Unknown Alkane						
6.485	12649262	14.414	11236	23				
		Unknown						
6.624	8558407	9.7527	7602.19	23				
		Unknown Alkane						
6.714	18419731	20.990	16362	23				
		Unknown						
6.789	22779381	25.958	20234	23				
		Unknown						
6.928	11970136	13.641	10633	23				
		Unknown						
6.960	15265250	17.395	13560	23				
		Unknown Alkane						
7.014	10666152	12.155	9474.44	23				
90-12-0		Naphthalene, 1-methyl-						
7.190	11999155	13.674	10659	23	93	19232	C11H10	142
		Unknown						
7.227	10421068	11.875	9256.74	23				

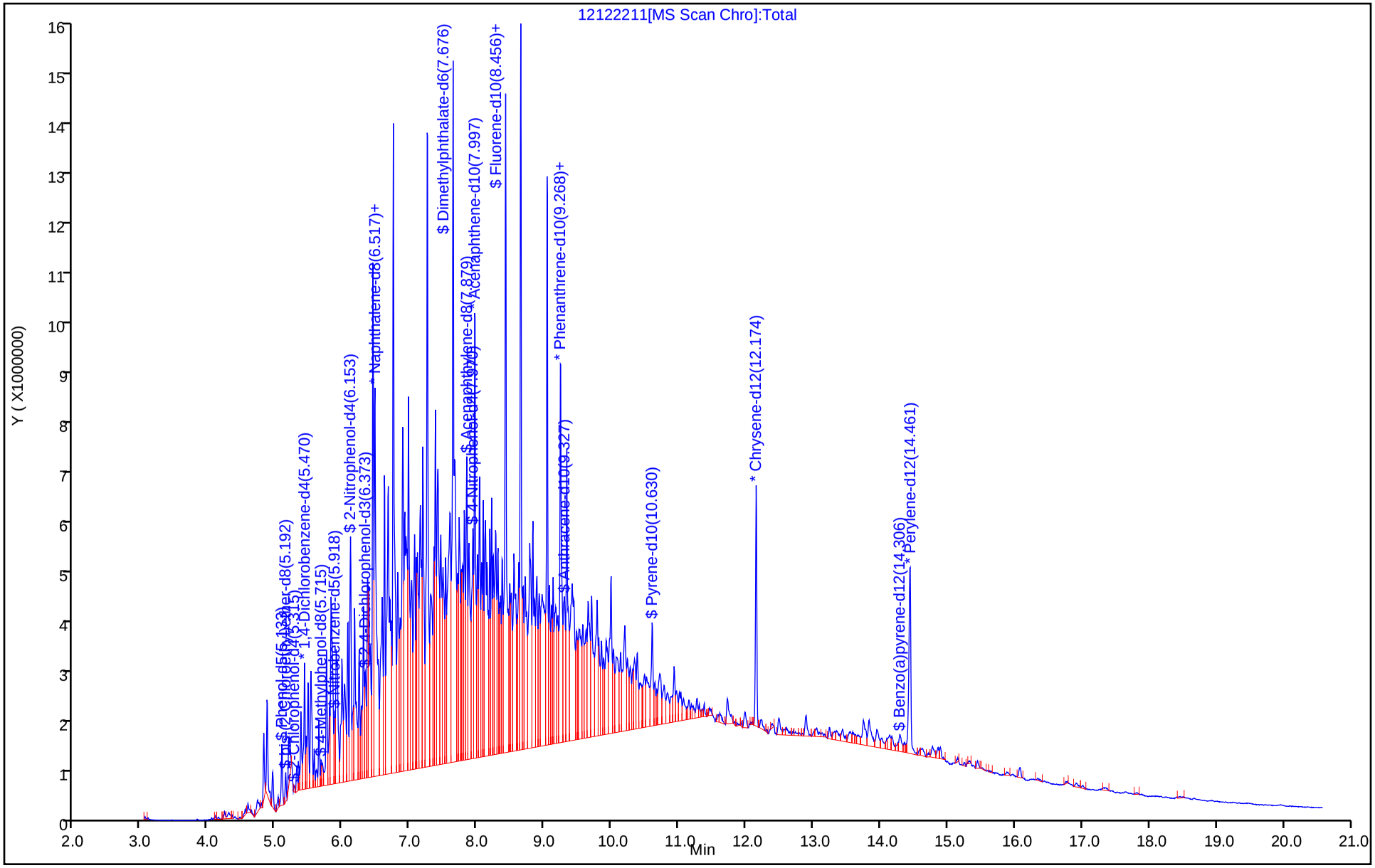
RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
66563-30-2	Bacchotricuneatin c							
7.291	21731496	32.149	25060	41	98	178298	C20H22O5	342
	Unknown							
7.345	8774616	12.981	10119	41				
	Unknown Alkane							
7.414	9611471	14.219	11084	41				
	Unknown							
7.452	13292387	19.664	15328	41				
	Unknown							
7.494	8432373	12.475	9723.92	41				
575-43-9	Naphthalene, 1,6-dimethyl-							
7.628	15250006	22.560	17586	41	98	28499	C12H12	156
	Unknown							
7.911	9715260	14.372	11203	41				
	Unknown							
8.071	9200191	13.611	10609	41				
	Unknown							
8.157	14694680	21.739	16945	41				
41446-64-4	6-Tetradecene, (E)-							
8.306	9212713	13.629	10624	41	86	58289	C14H28	196
	Unknown Alkane							
8.579	10648490	15.753	12279	41				
	Unknown Alkane							
8.680	18858312	25.372	19777	58				
2717-39-7	1,4,5,8-Tetramethylnaphthalene							
8.744	8840401	11.894	9271.07	58	91	48928	C14H16	184
	Unknown							
8.814	11715778	15.762	12287	58				
	Unknown Alkane							
8.862	9803735	13.190	10281	58				
	Unknown							
8.996	13044526	17.550	13680	58				
	Unknown Alkane							
9.070	14501000	19.509	15207	58				
	Unknown Alkane							
9.364	10404770	13.998	10912	58				
	Unknown							
9.444	13616282	18.319	14280	58				

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.475	3536897	20.000
* 23 Naphthalene-d8	6.517	17550845	20.000
* 41 Acenaphthene-d10	8.002	13519243	20.000
* 58 Phenanthrene-d10	9.268	14865730	20.000

Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D				
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R25	Lab ID:	QL12004-006		
Sample Info:	12122215.b, QL12004-006				
Injection Vol.	1.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

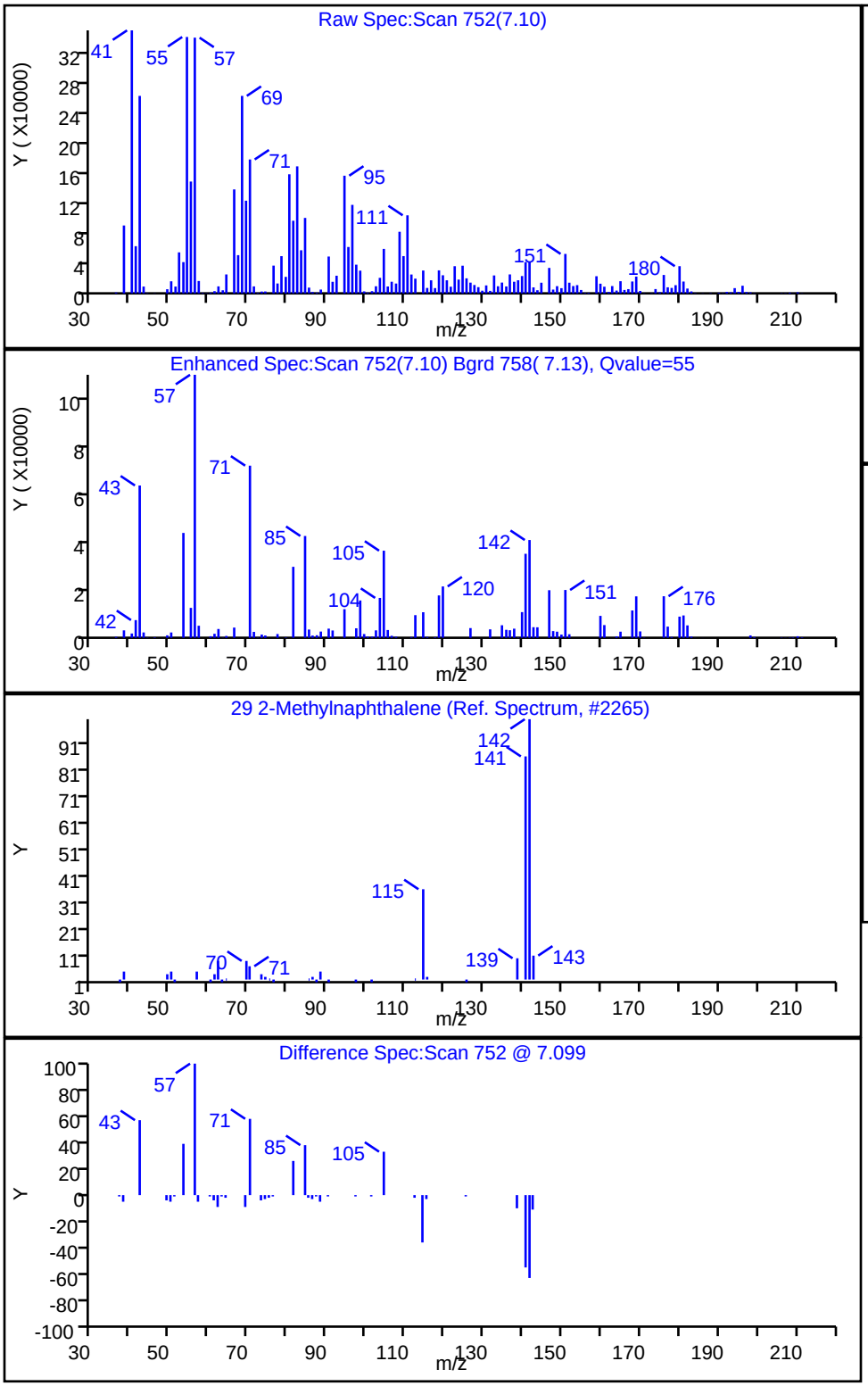


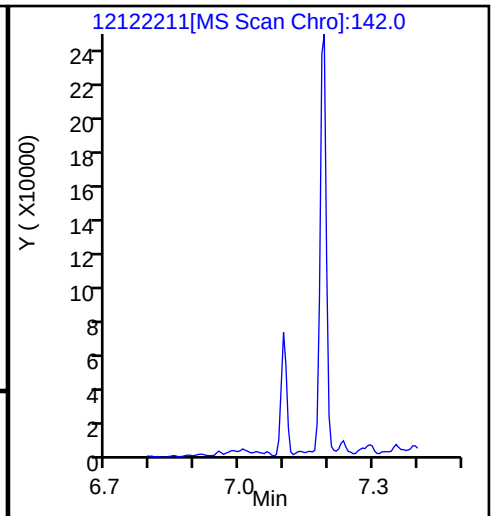
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

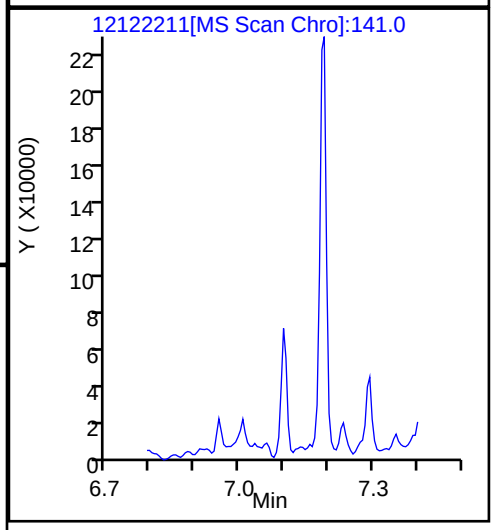
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene





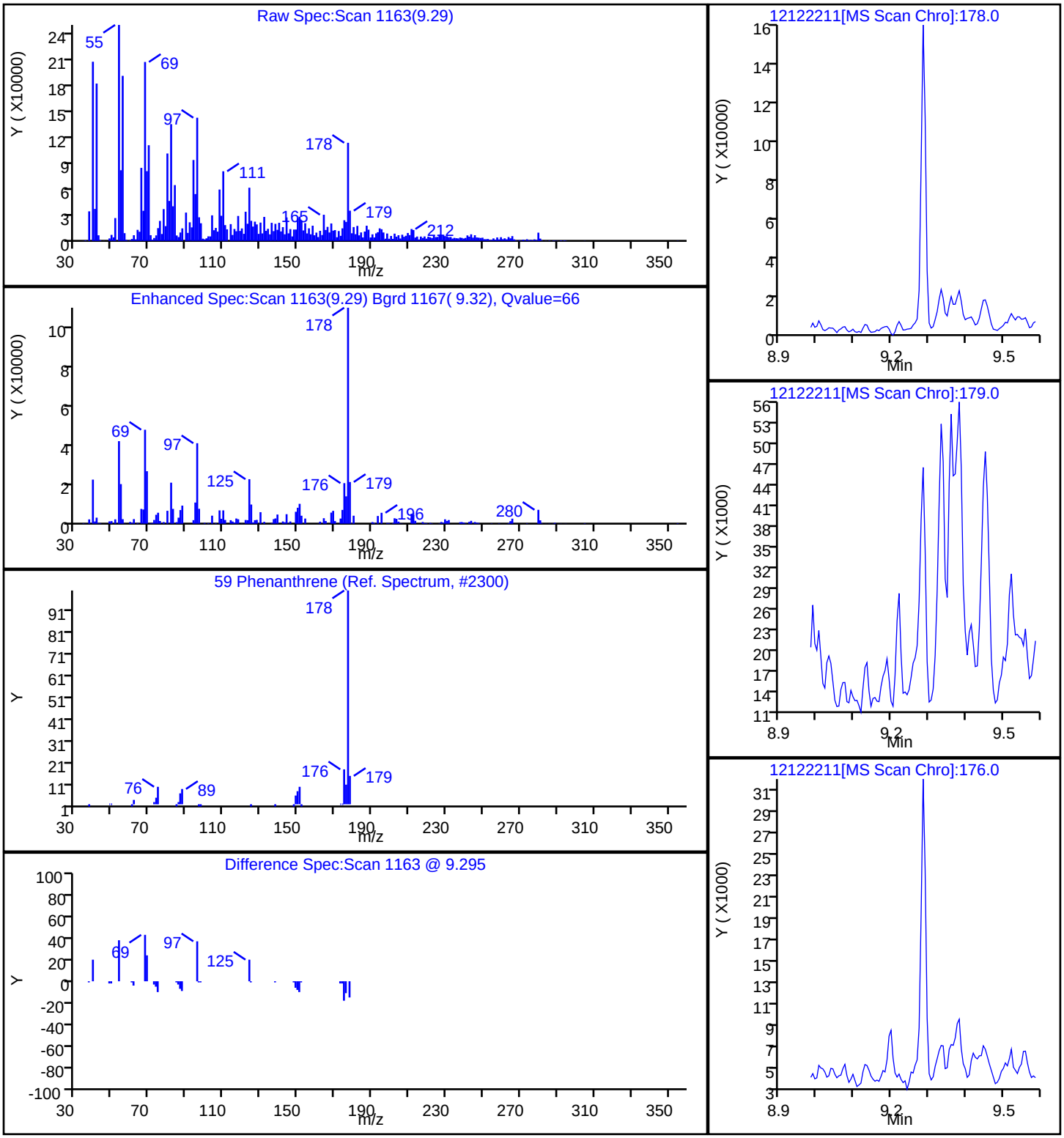


Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene



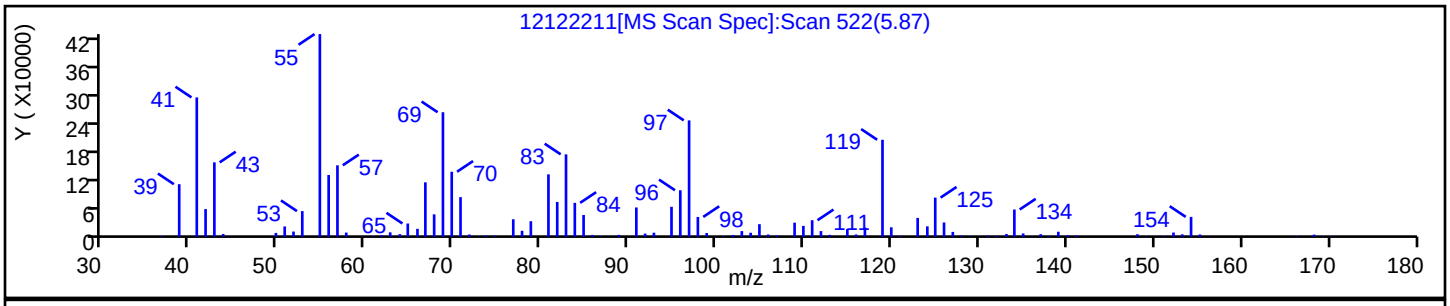
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

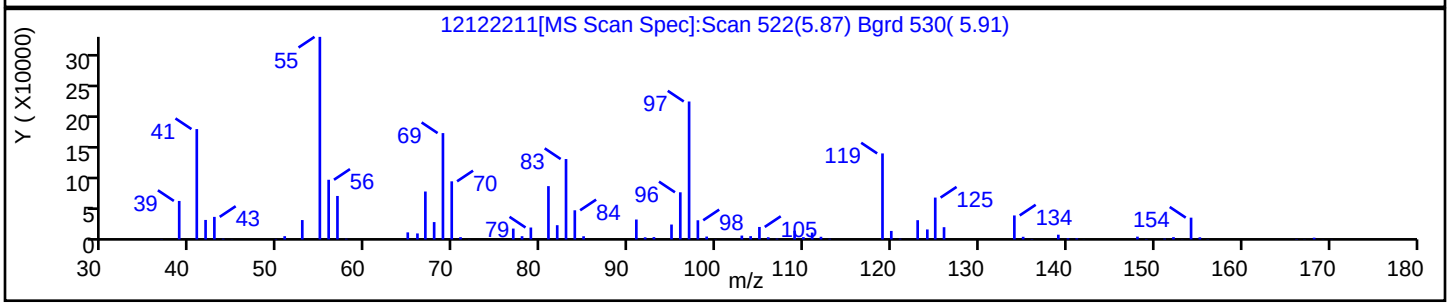
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.865

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





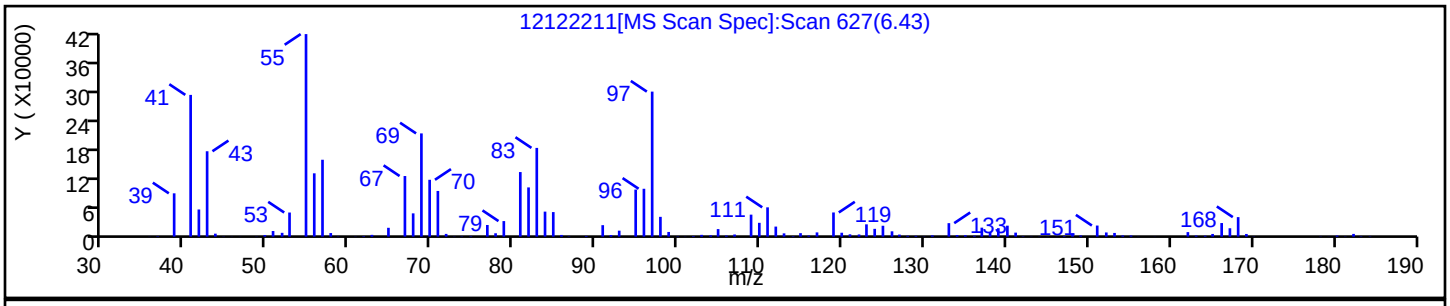
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

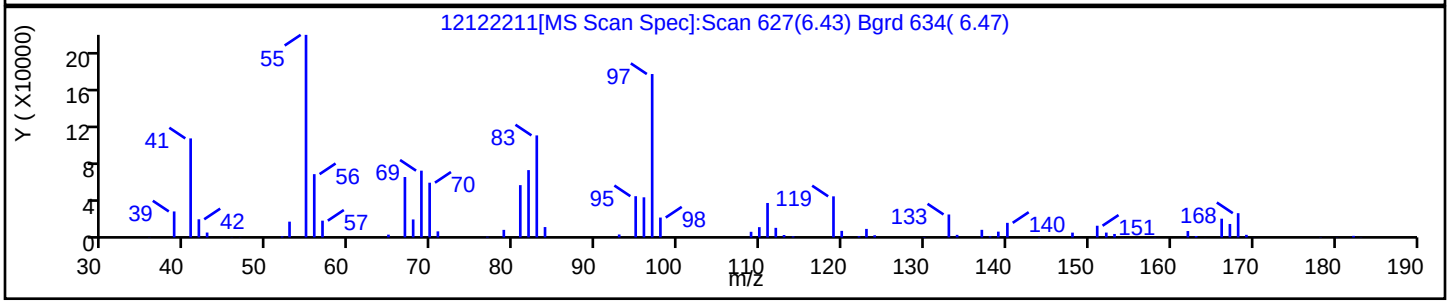
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.426

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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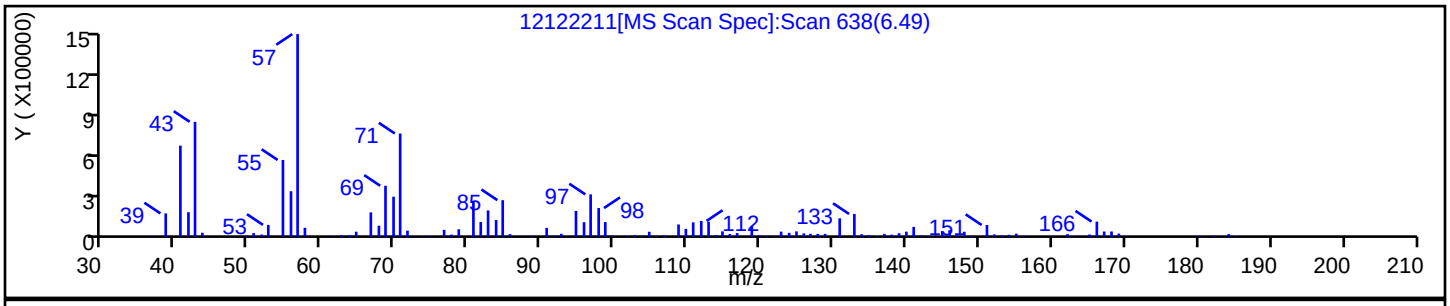
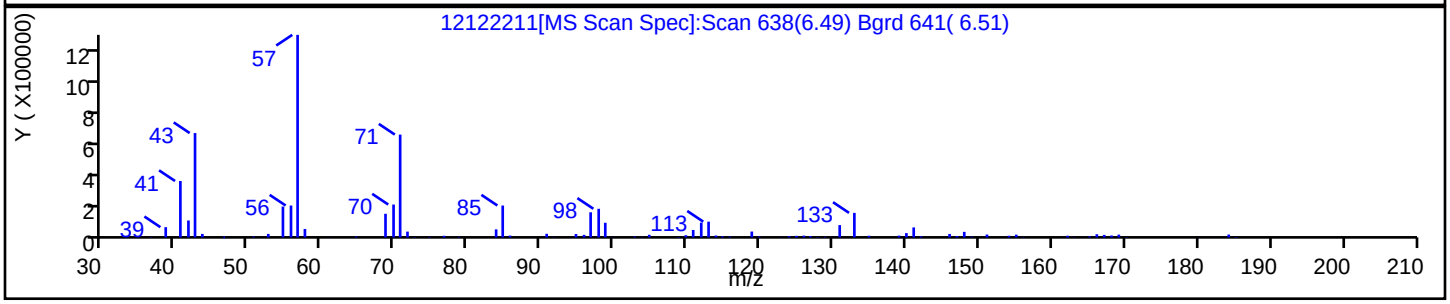
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.485

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





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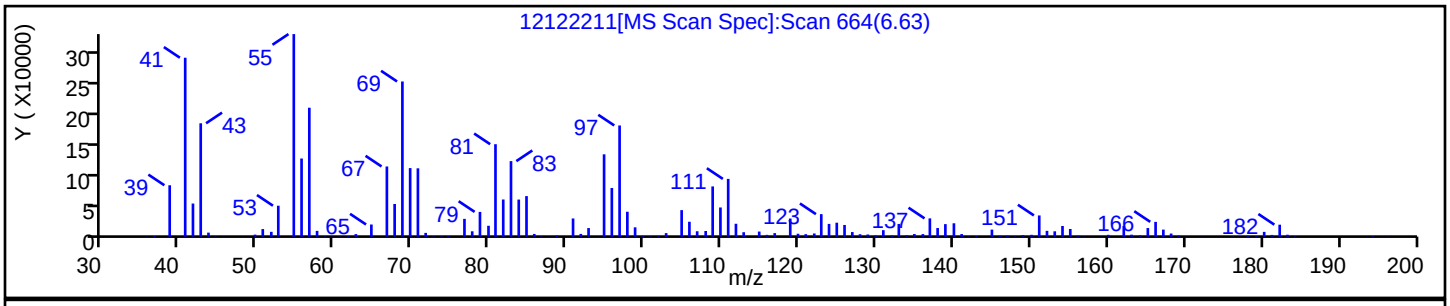
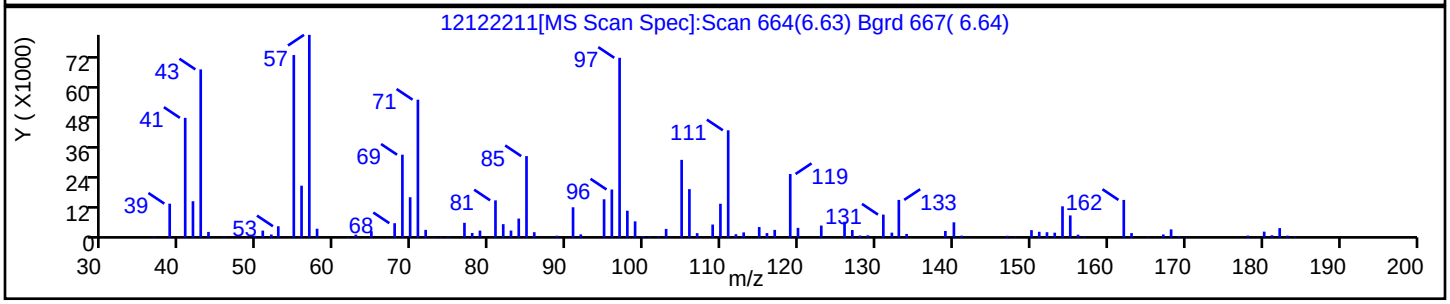
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.624

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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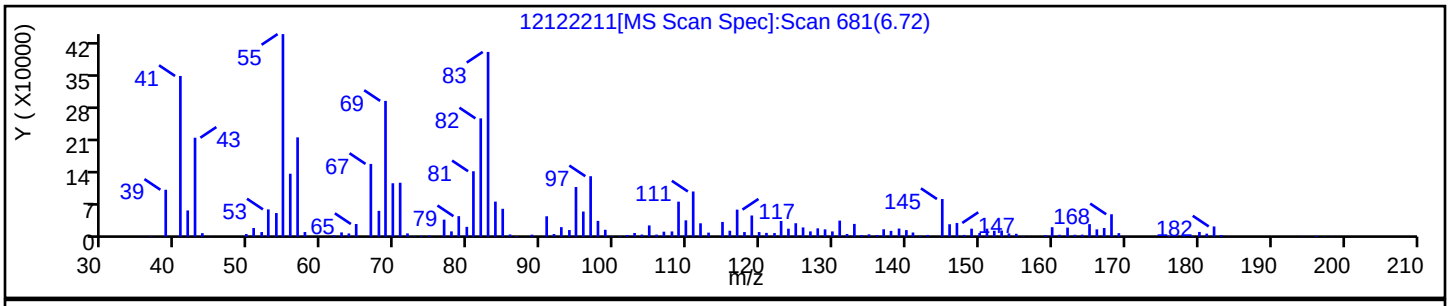
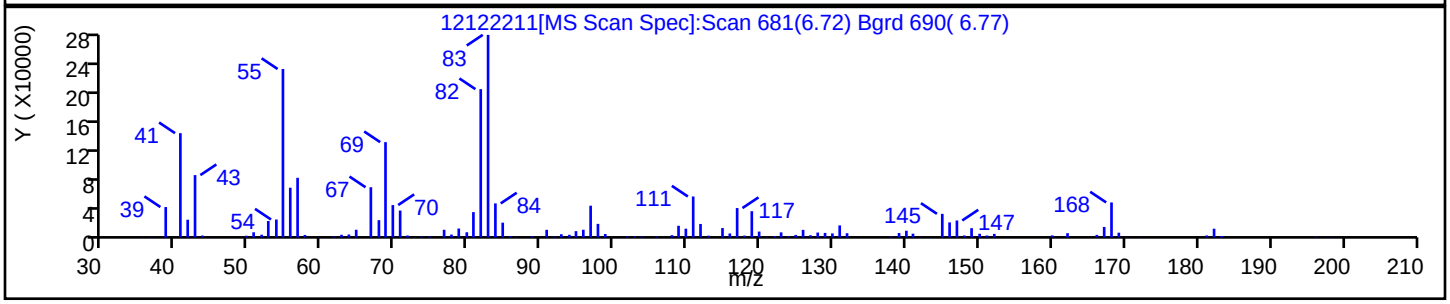
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.714

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





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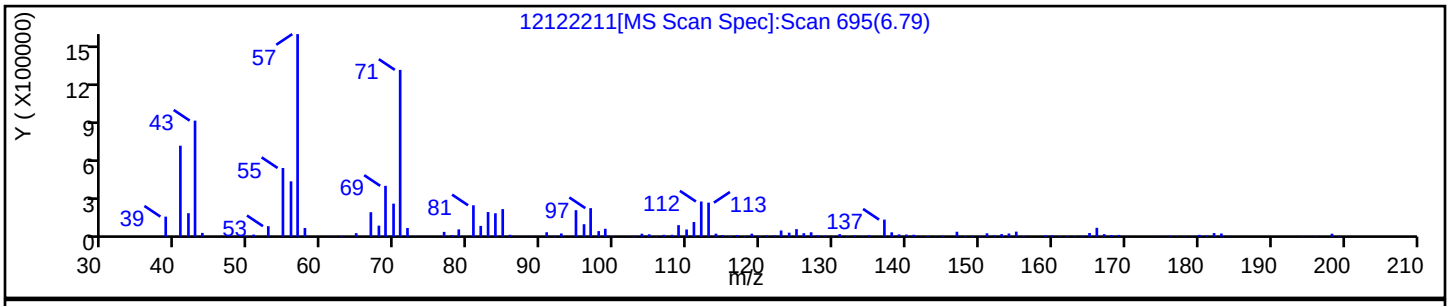
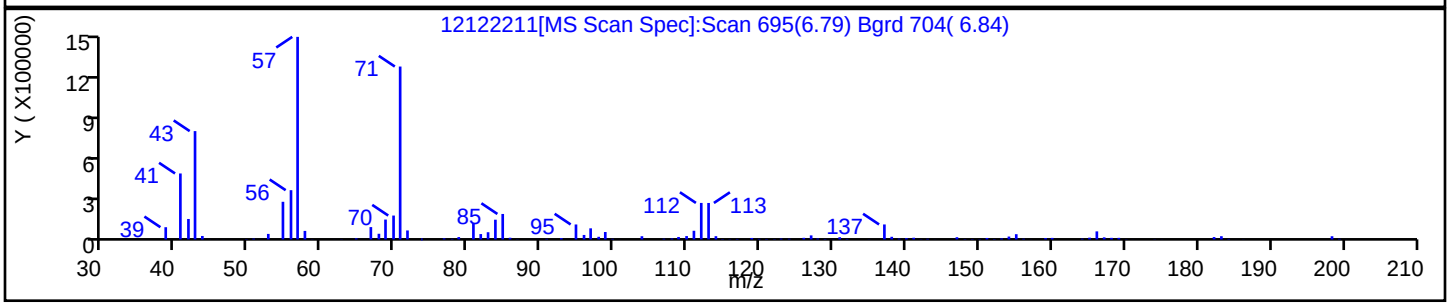
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.789

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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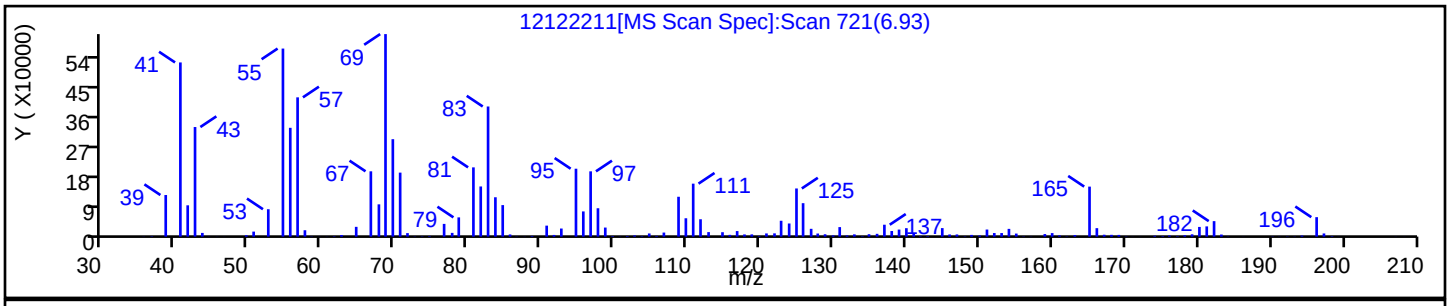
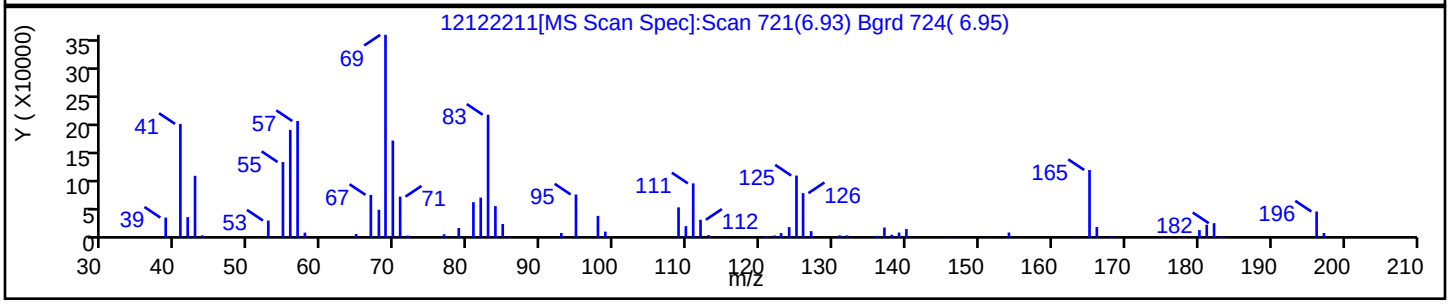
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.928

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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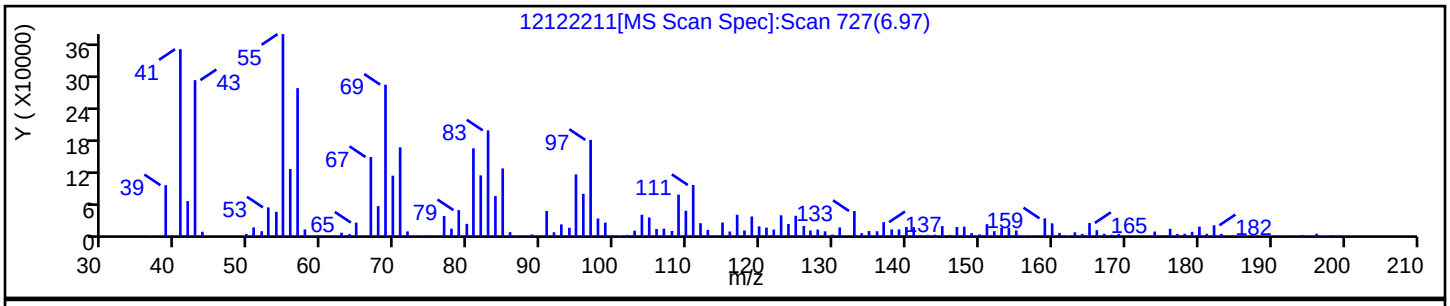
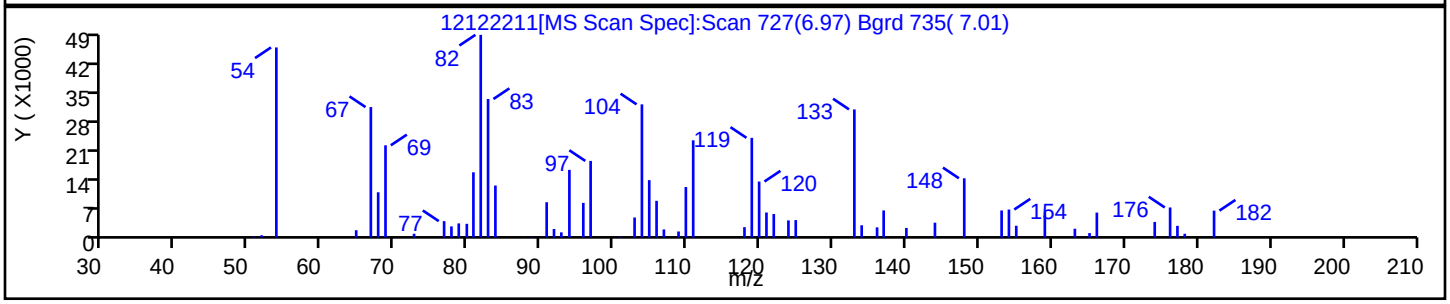
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.960

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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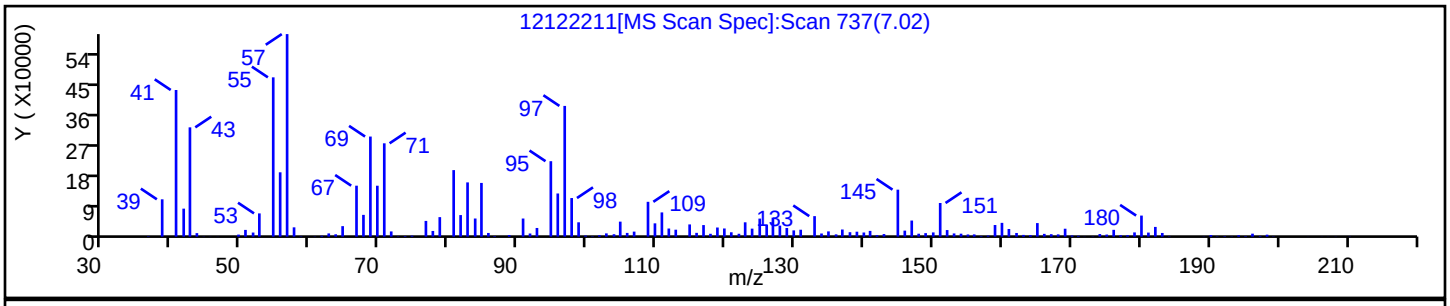
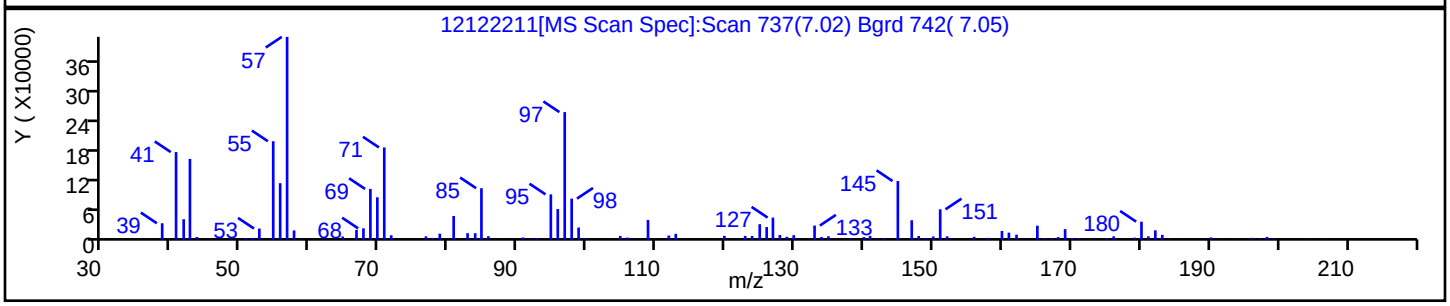
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.014

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





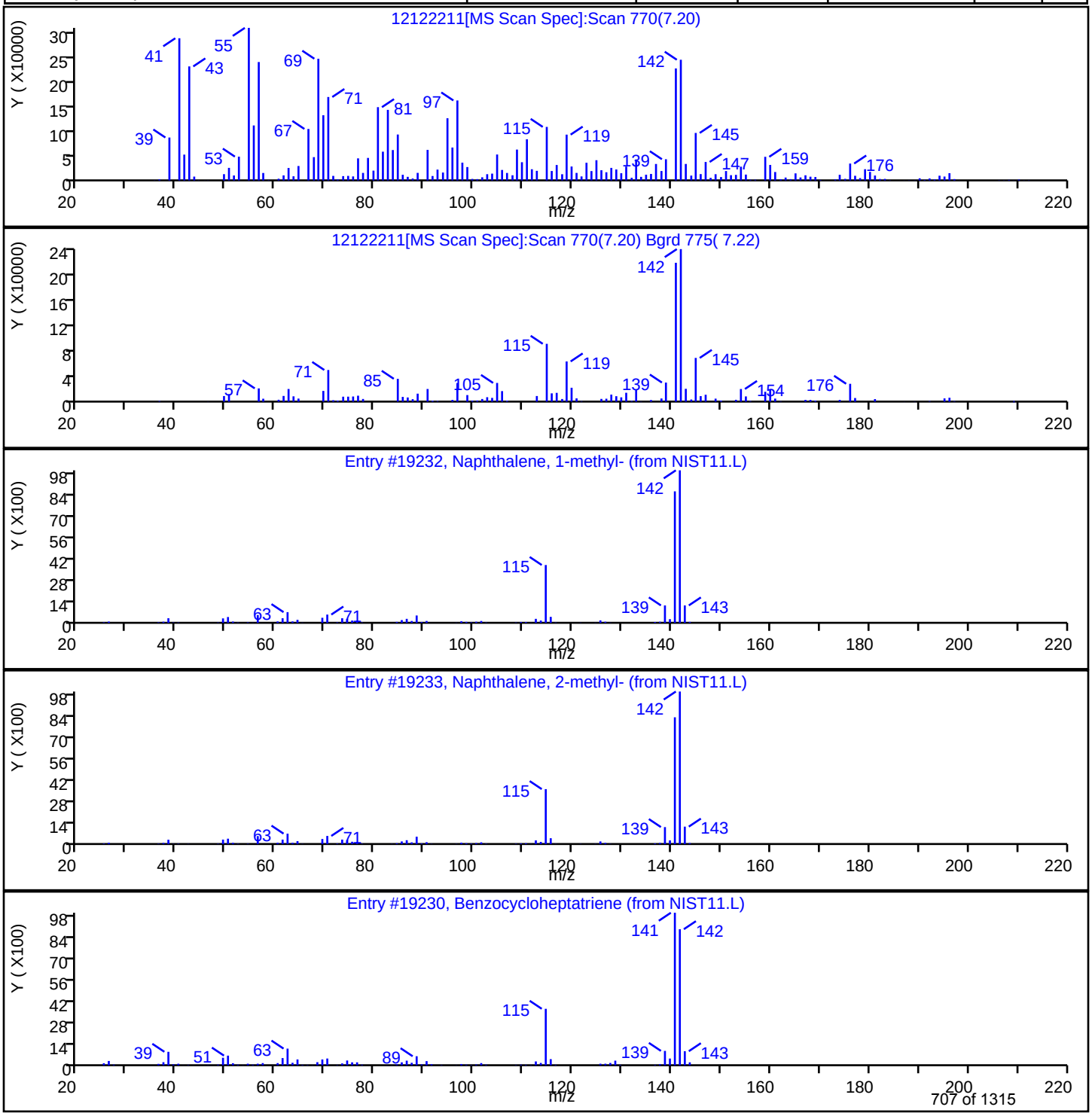
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.190

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	93
Naphthalene, 2-methyl-	91-57-6	NIST11	19233	C11H10	142	92
Benzocycloheptatriene	264-09-5	NIST11	19230	C11H10	142	92



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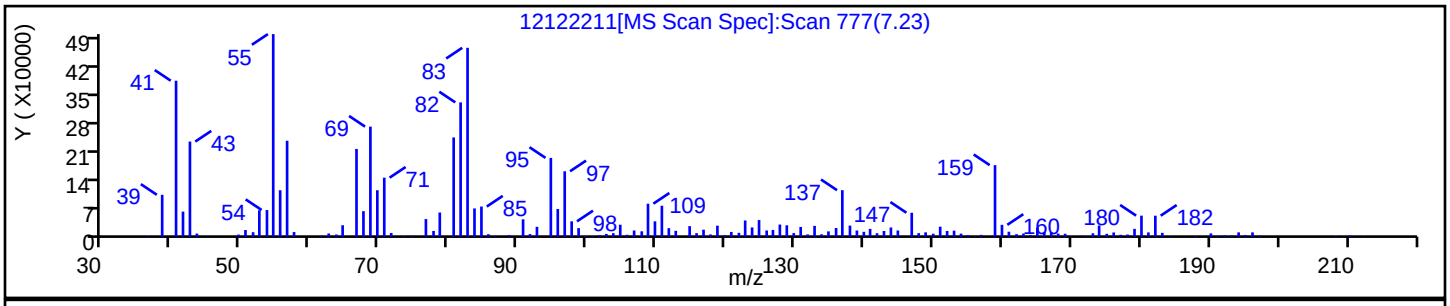
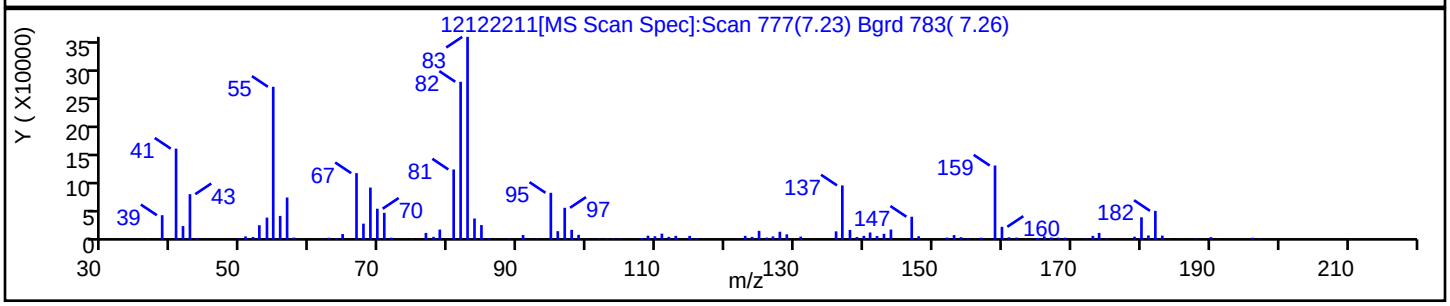
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.227

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





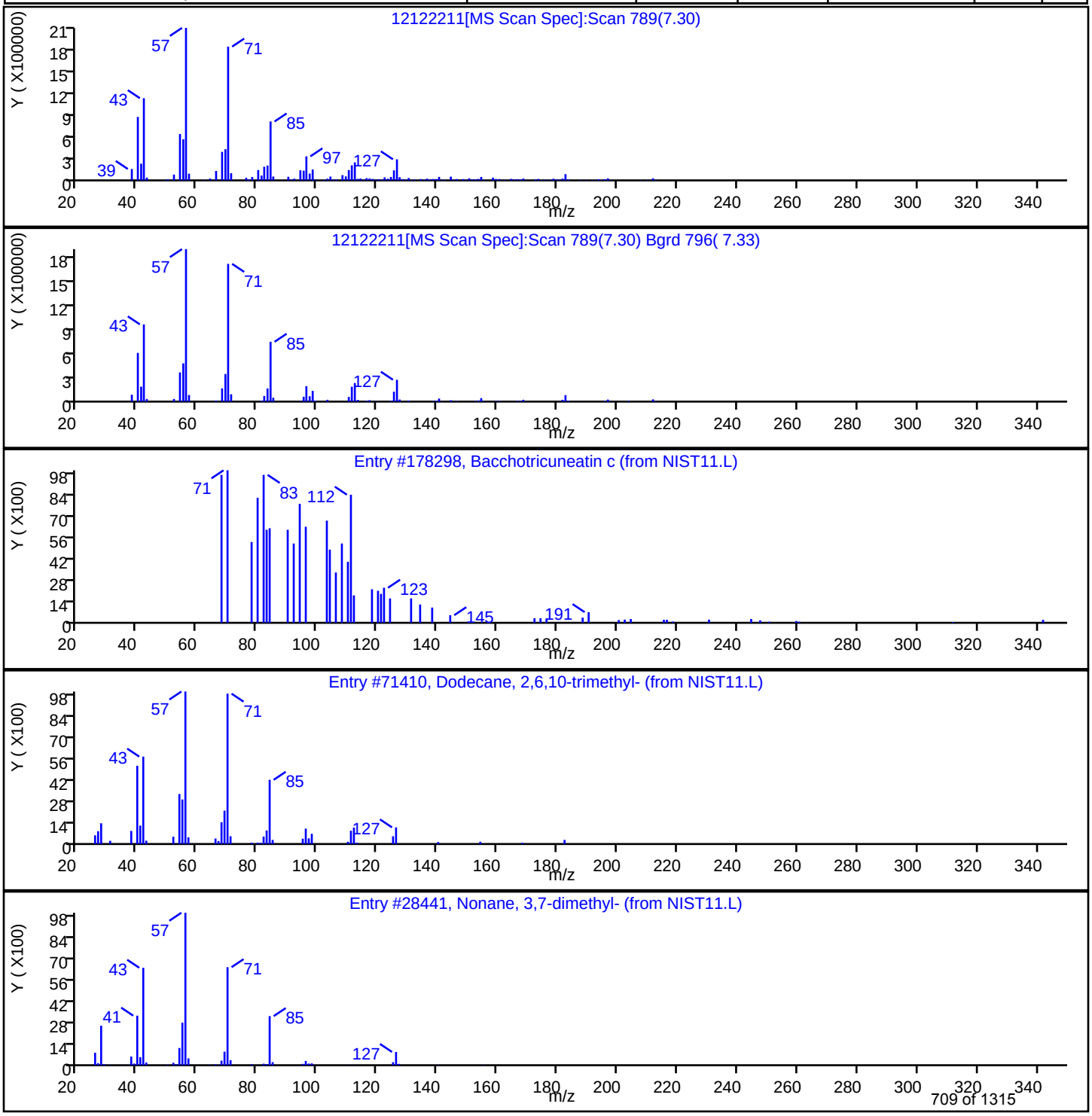
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.291

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Bacchotricuneatin c	66563-30-2	NIST11	178298	C20H22O5	342	98
Dodecane, 2,6,10-trimethyl-	3891-98-3	NIST11	71410	C15H32	212	90
Nonane, 3,7-dimethyl-	17302-32-8	NIST11	28441	C11H24	156	87



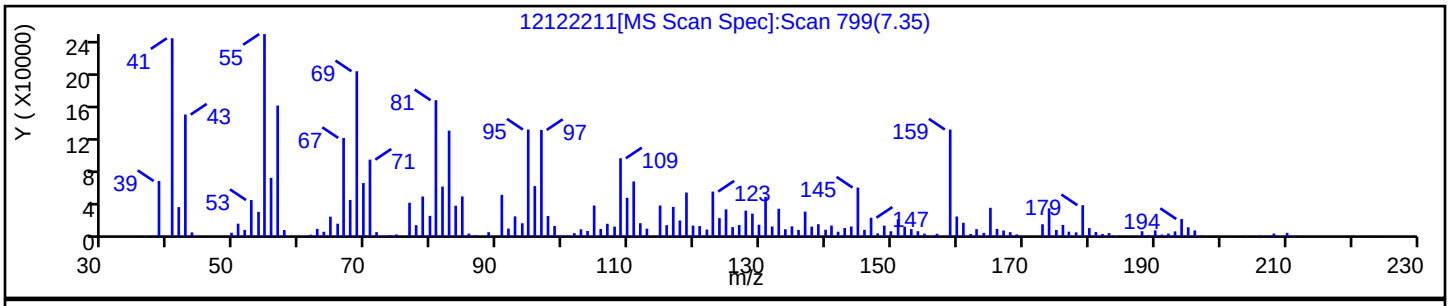
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

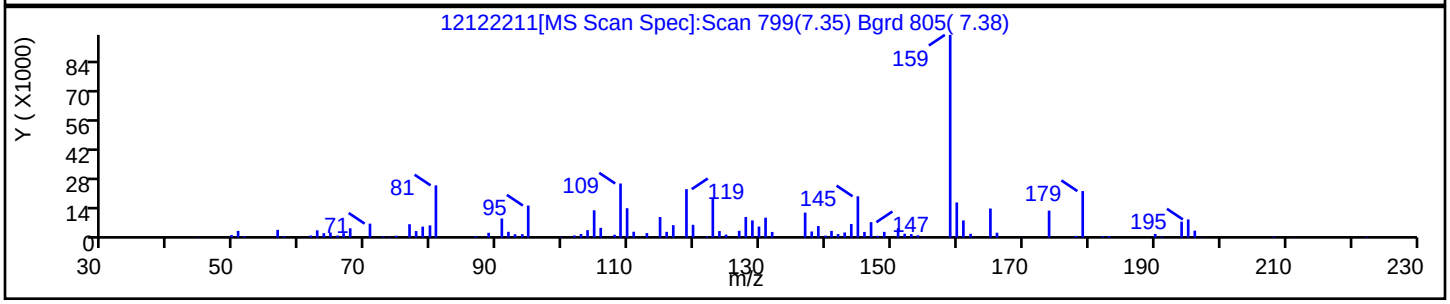
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.345

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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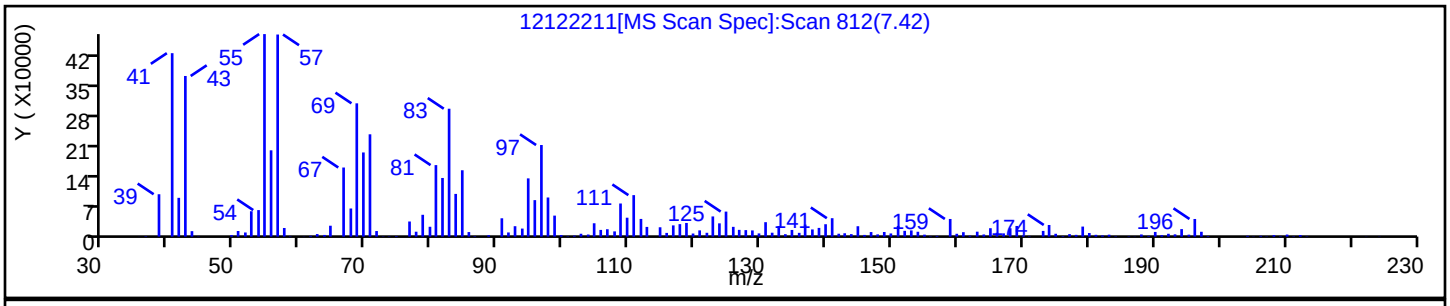
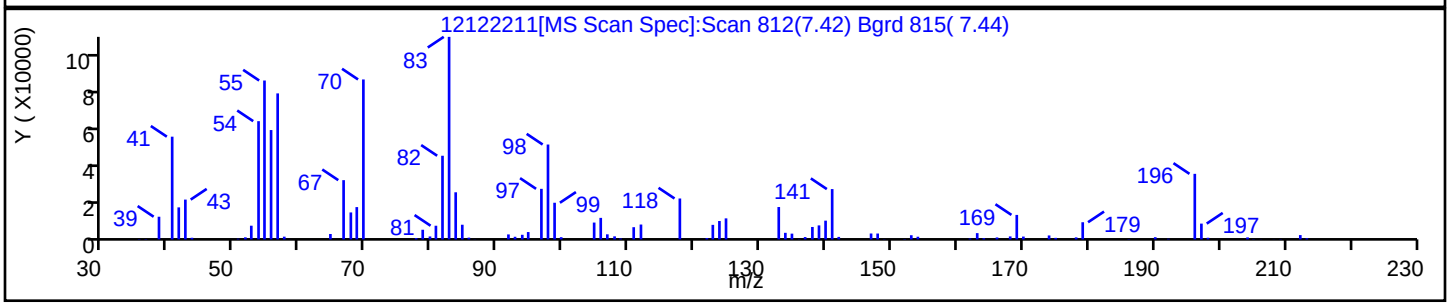
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.414

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





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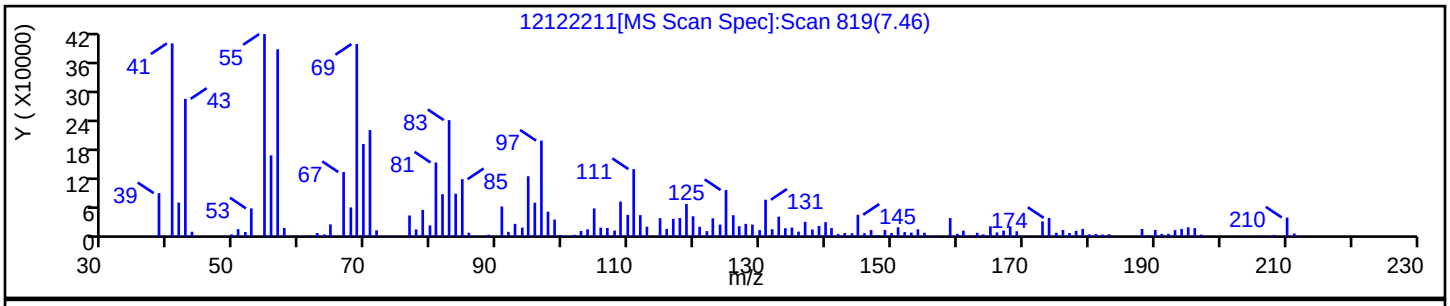
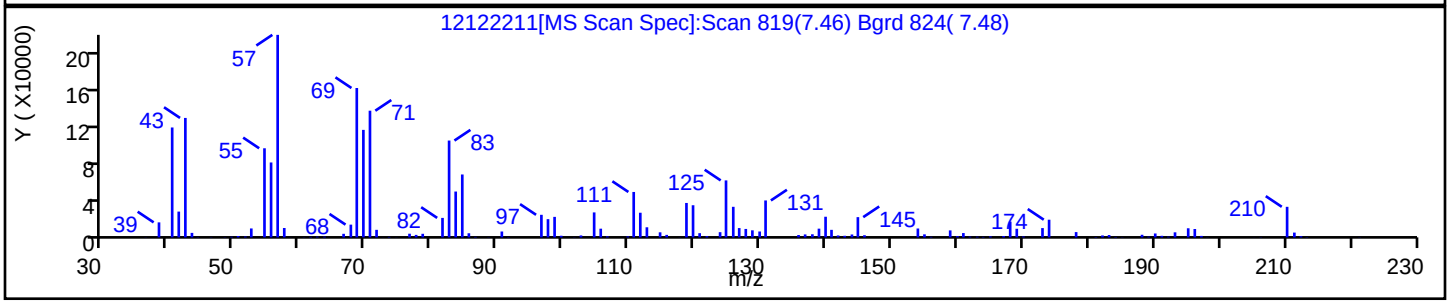
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.452

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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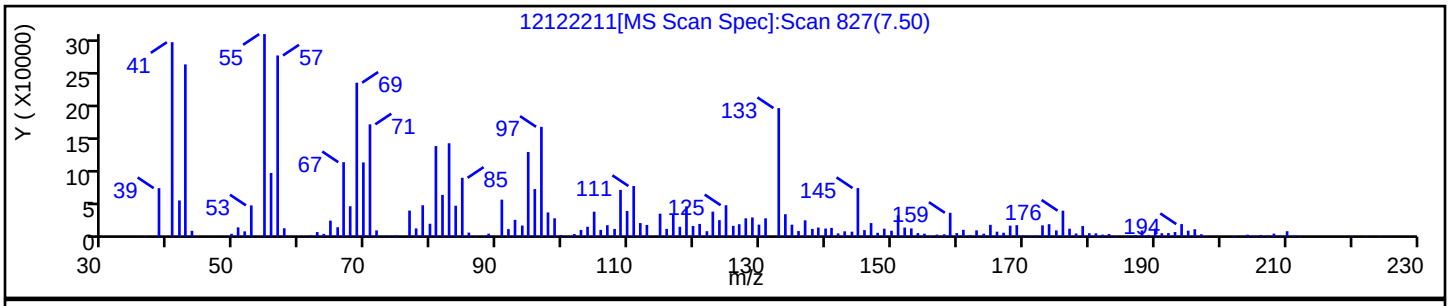
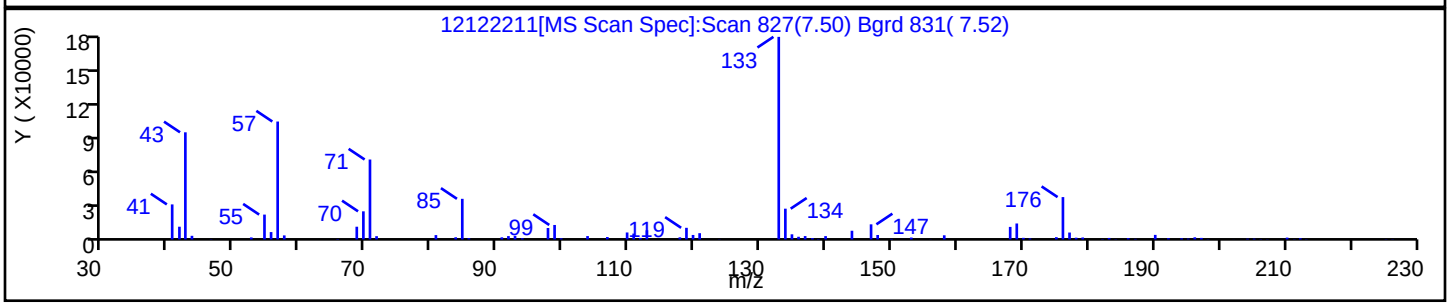
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.494

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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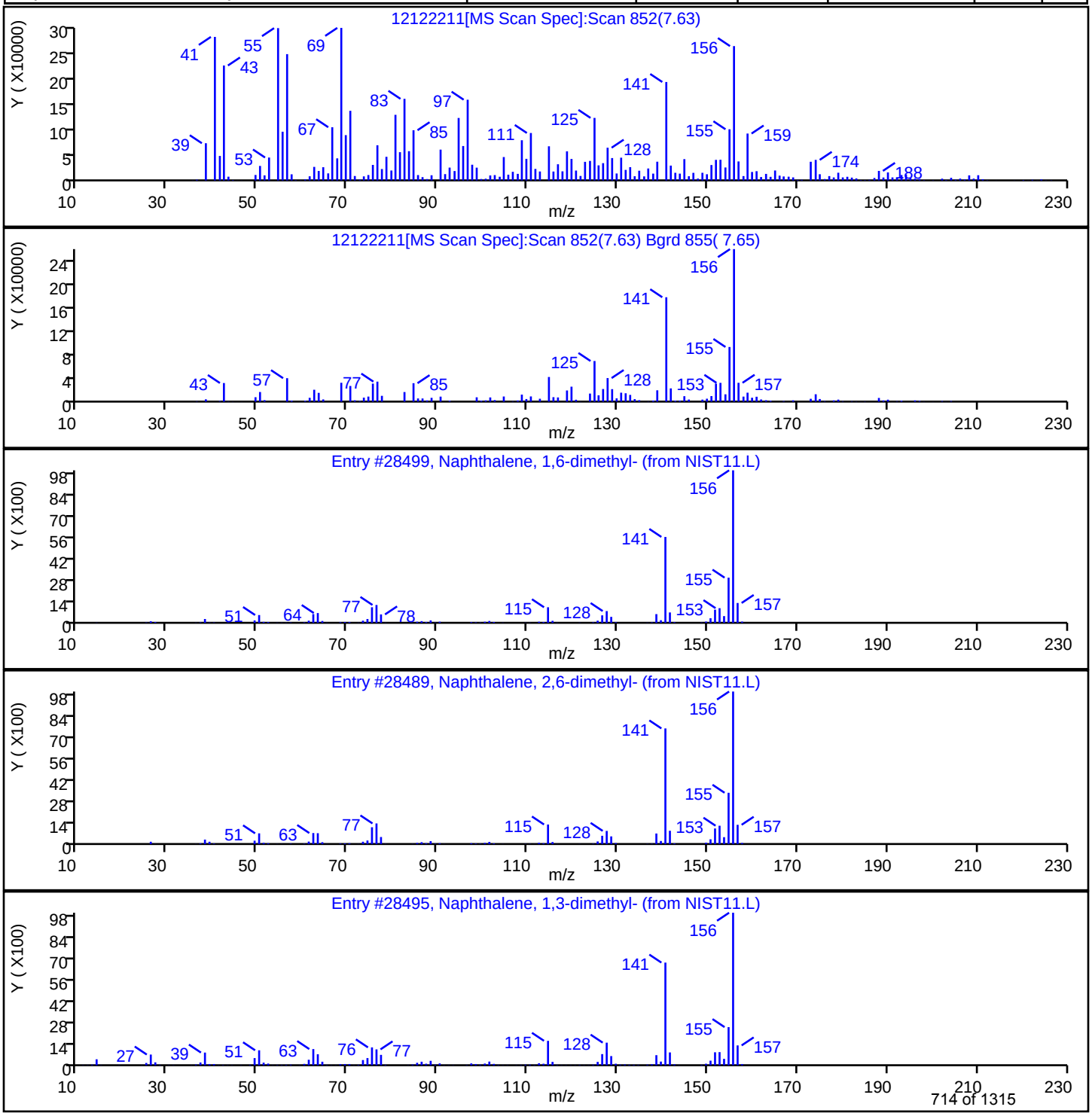
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.628

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,6-dimethyl-	575-43-9	NIST11	28499	C12H12	156	98
Naphthalene, 2,6-dimethyl-	581-42-0	NIST11	28489	C12H12	156	96
Naphthalene, 1,3-dimethyl-	575-41-7	NIST11	28495	C12H12	156	96



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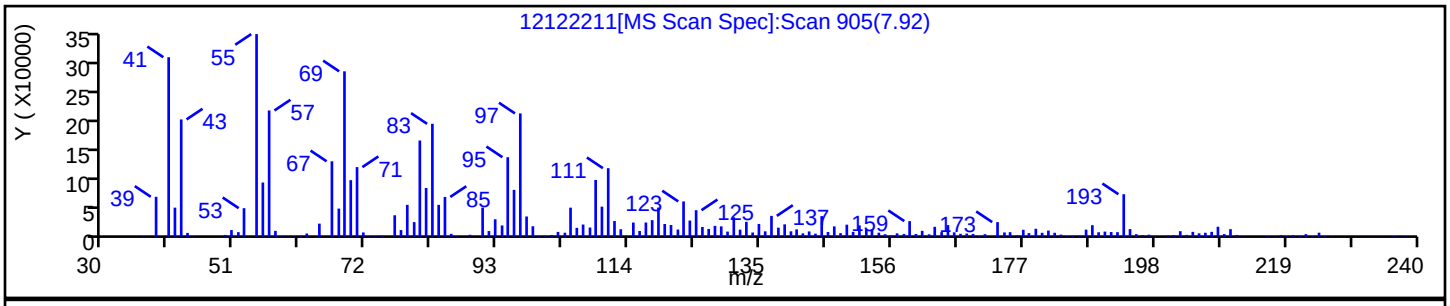
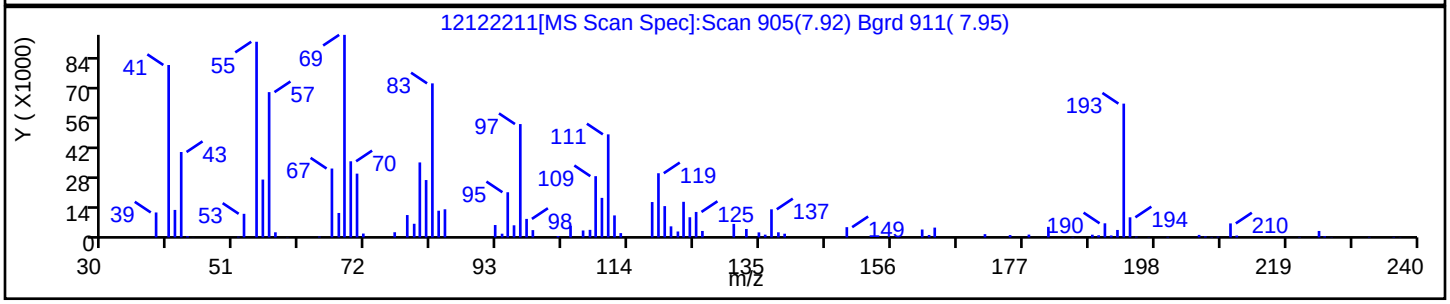
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.911

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





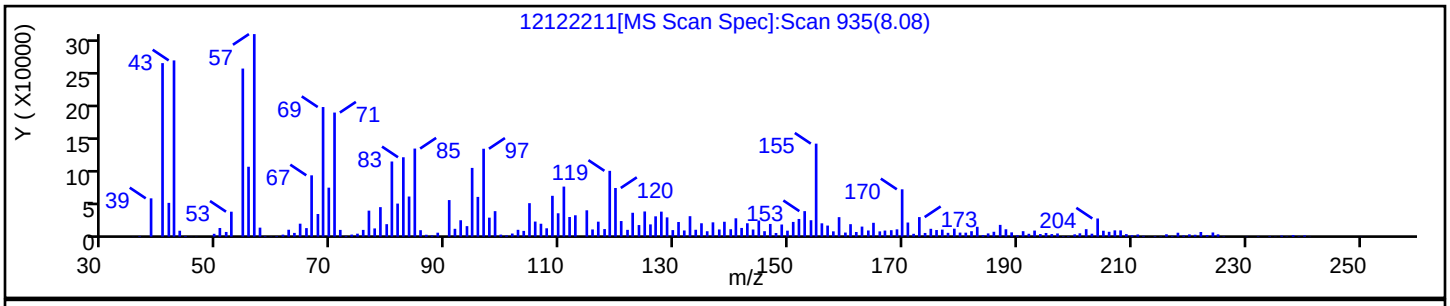
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

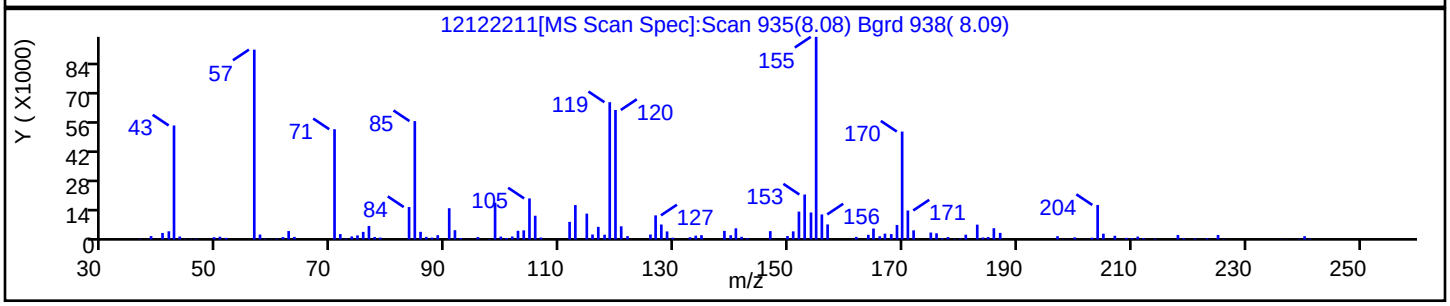
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.071

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





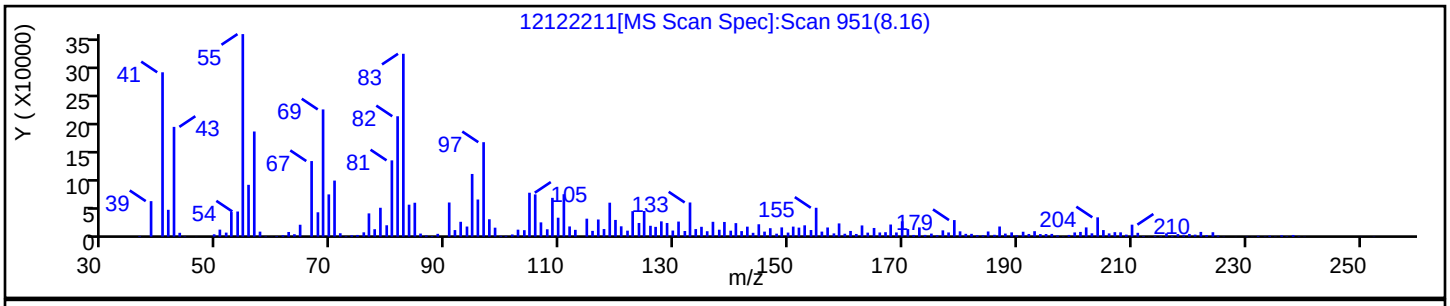
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

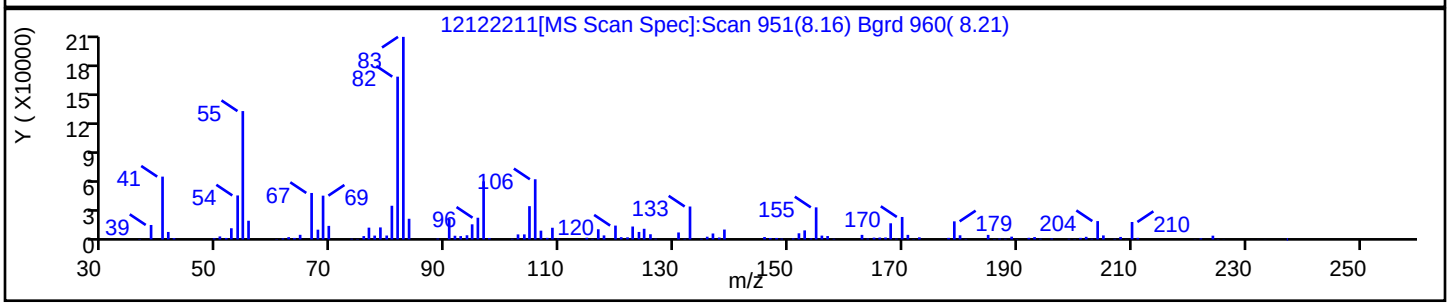
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.157

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





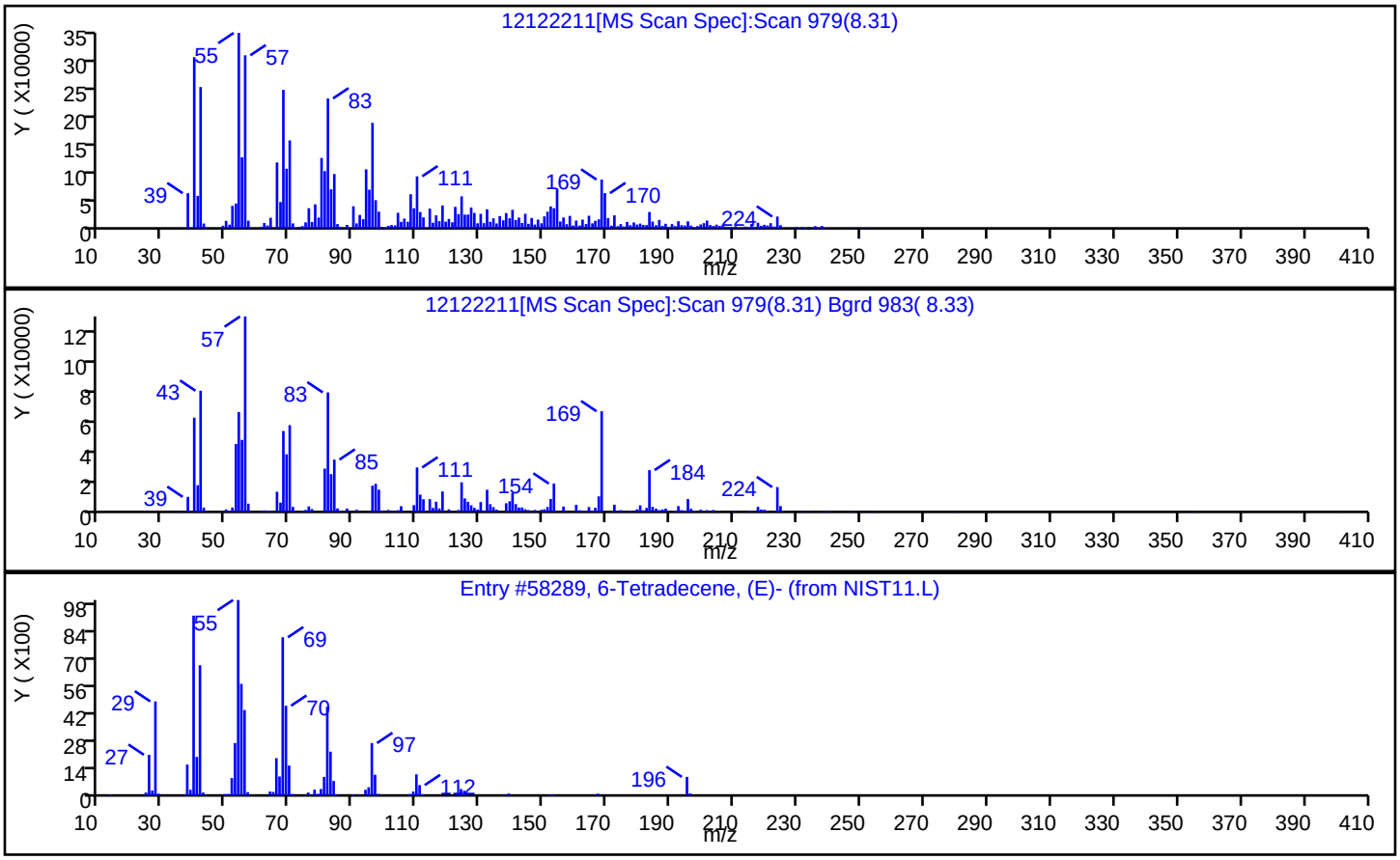
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.306

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
6-Tetradecene, (E)-	41446-64-4	NIST11	58289	C14H28	196	86



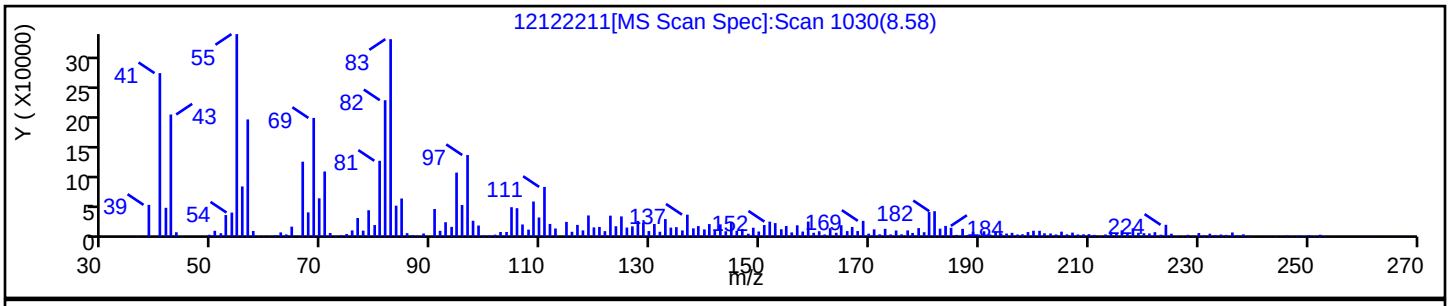
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

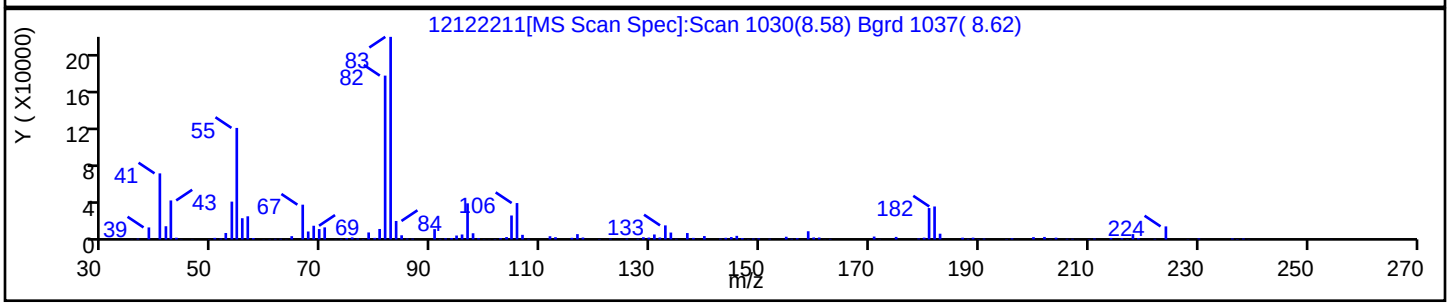
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.579

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





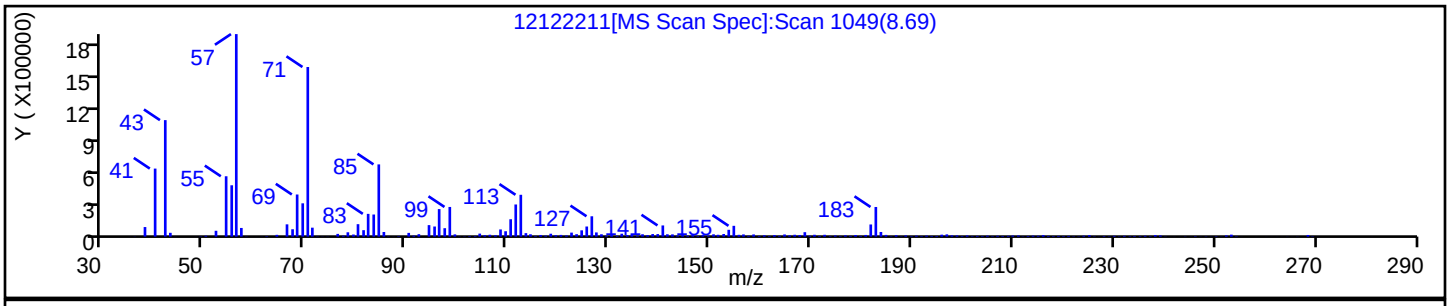
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

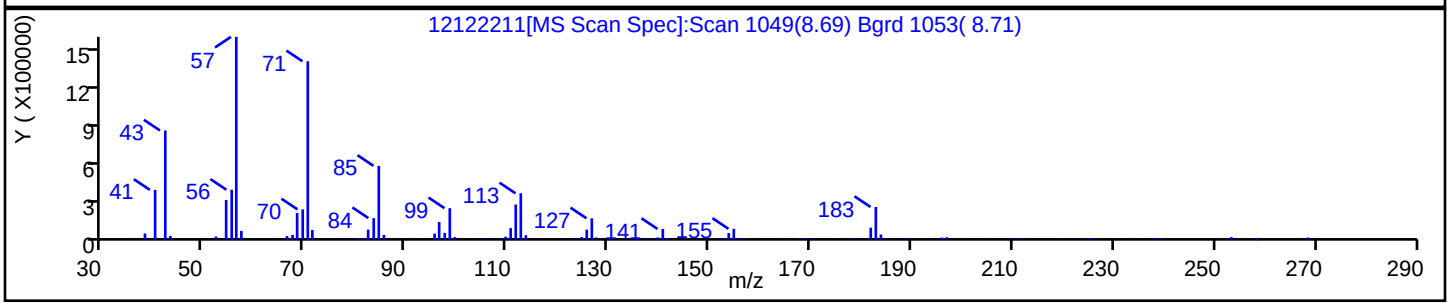
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.680

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





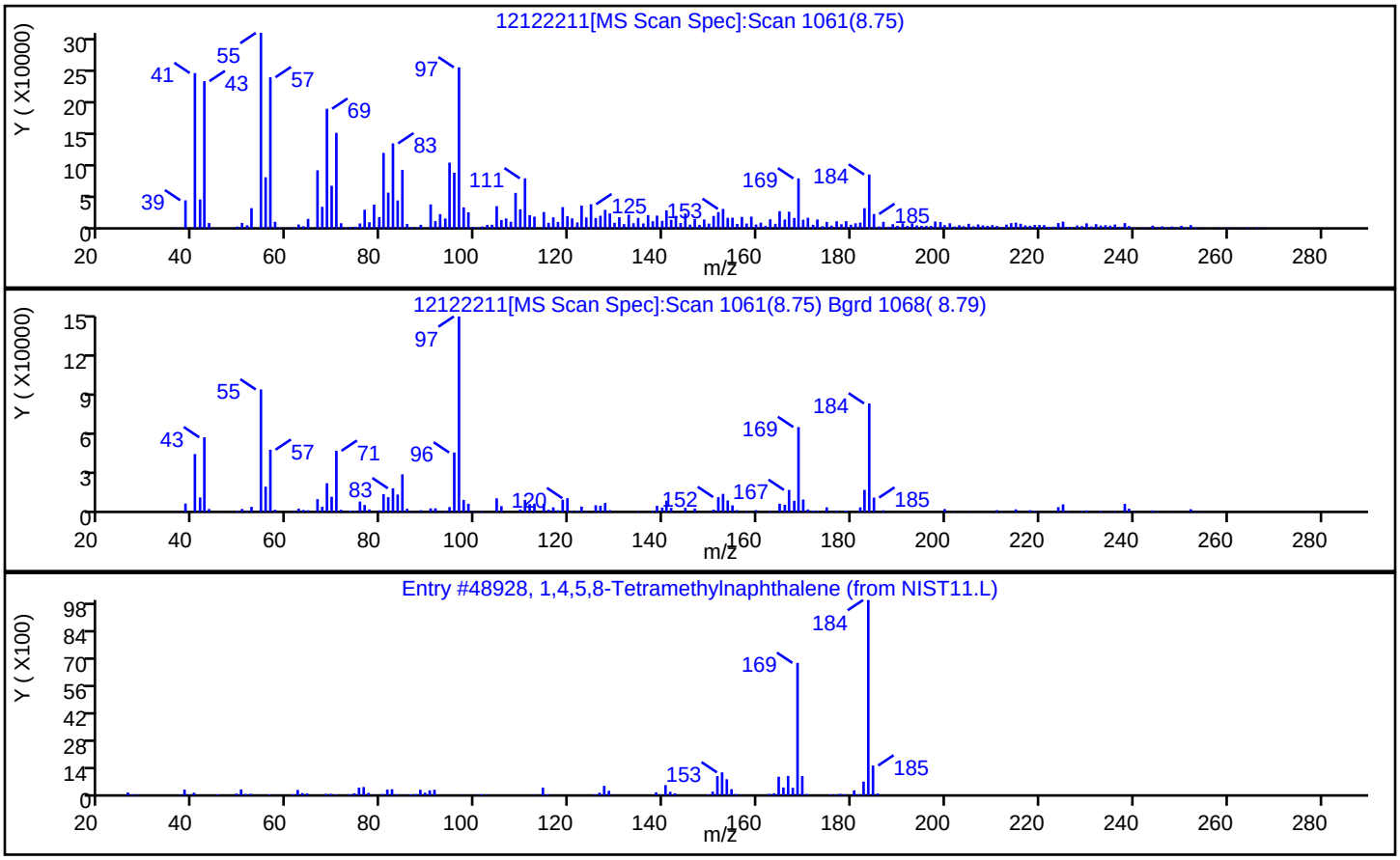
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.744

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1,4,5,8-Tetramethylnaphthalene	2717-39-7	NIST11	48928	C14H16	184	91



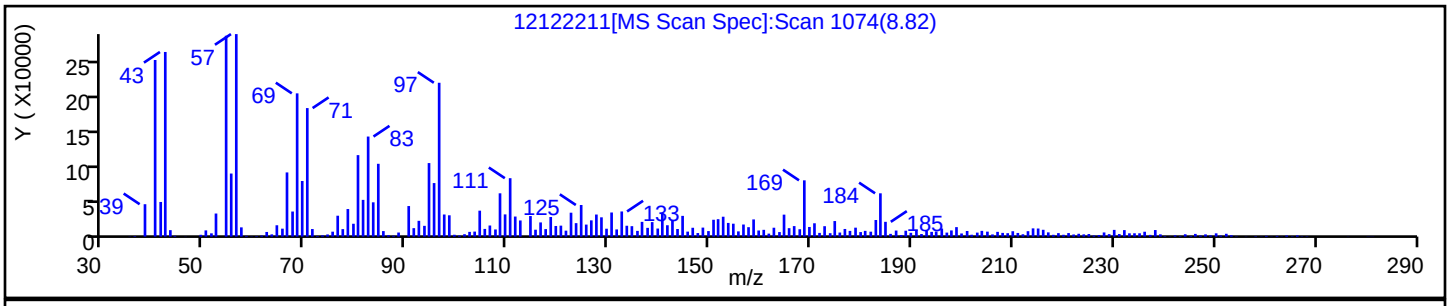
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

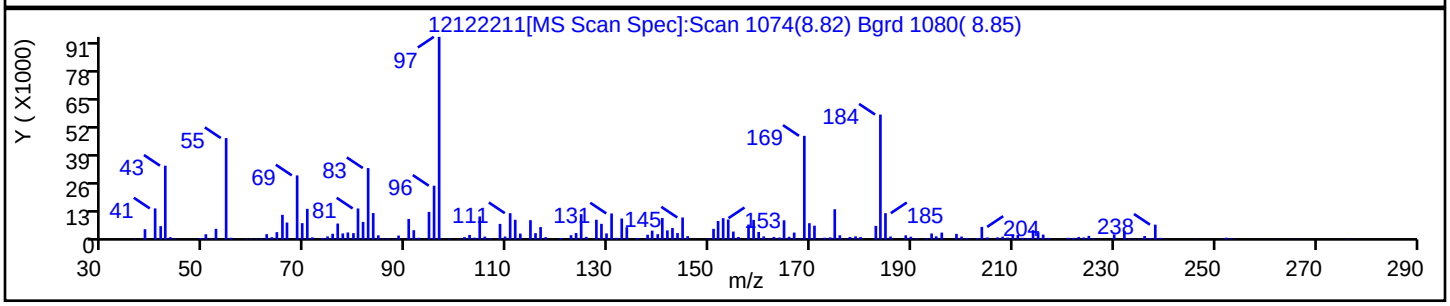
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.814

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





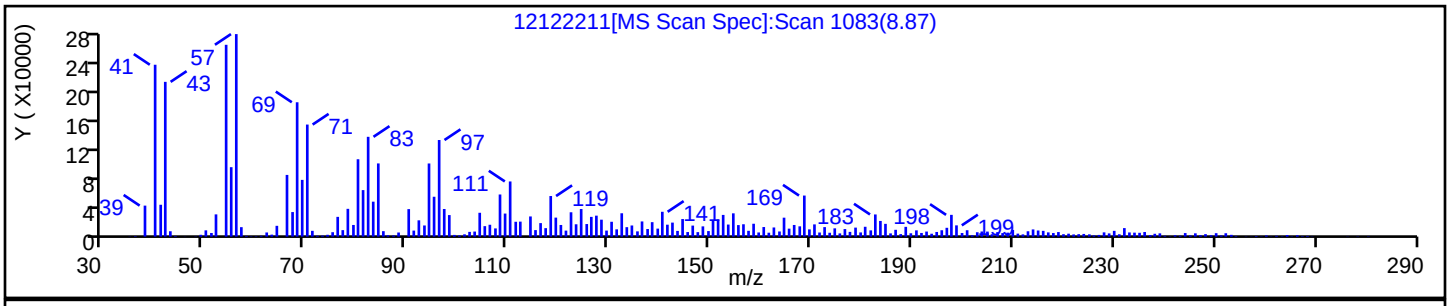
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

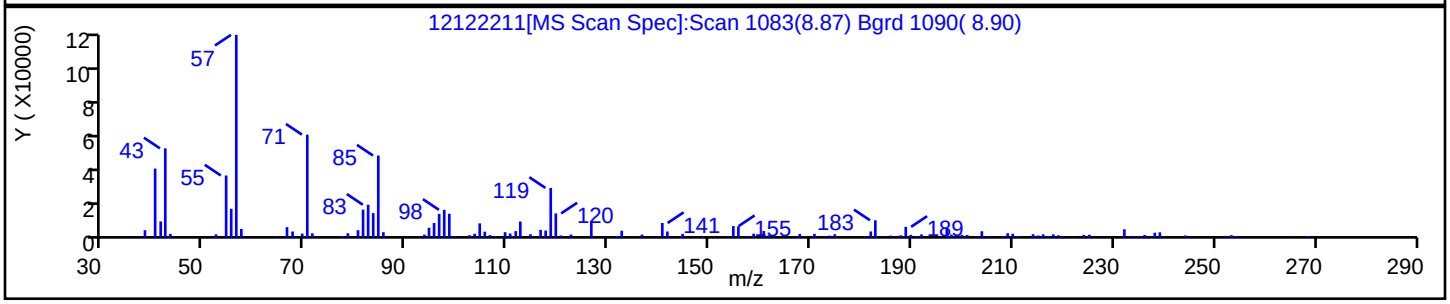
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.862

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





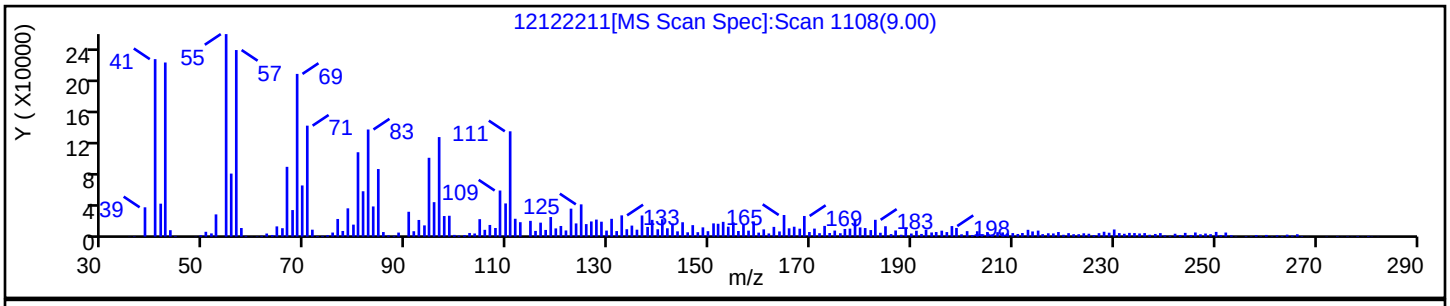
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

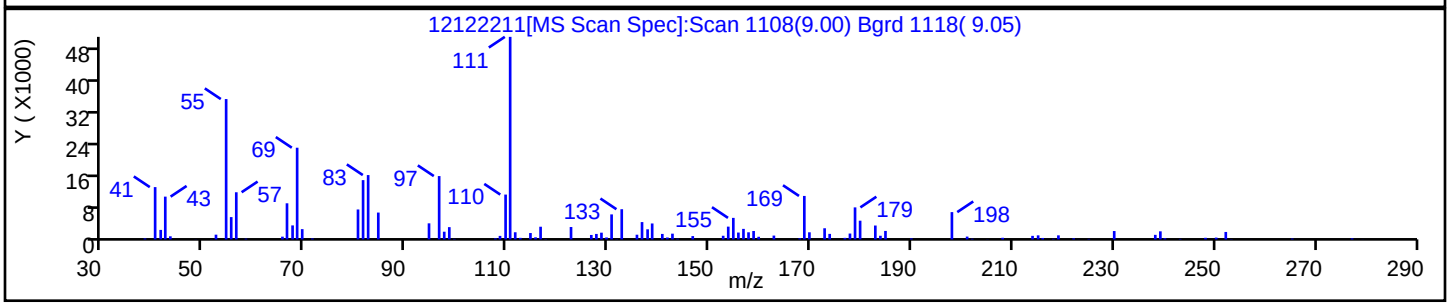
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.996

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





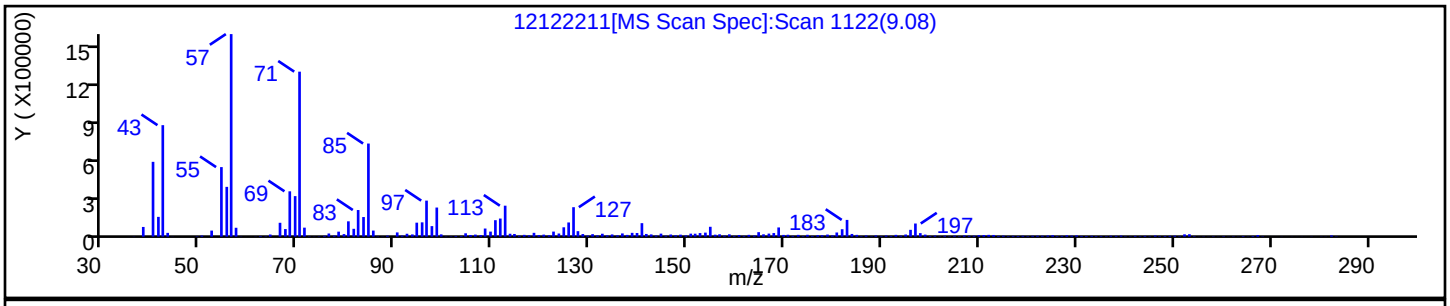
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

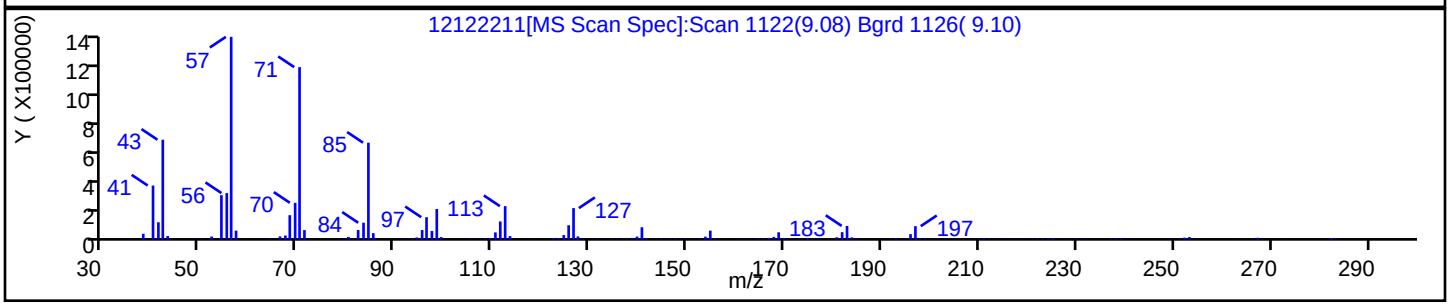
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.070

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





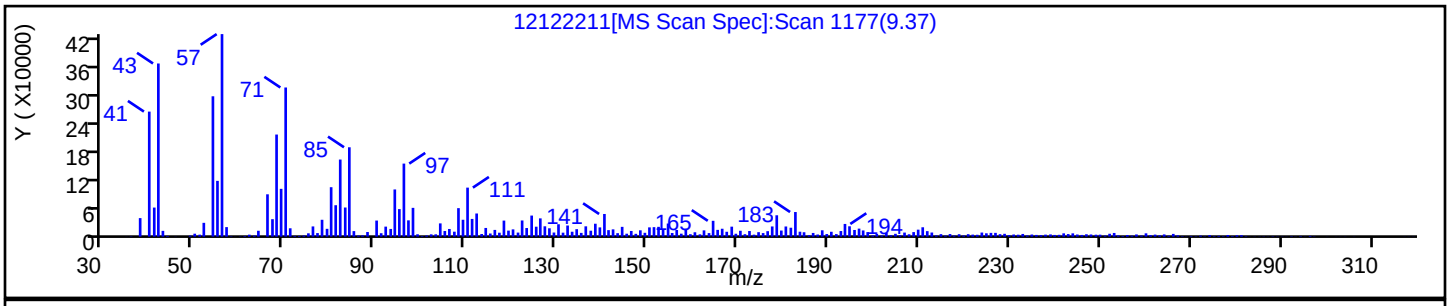
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

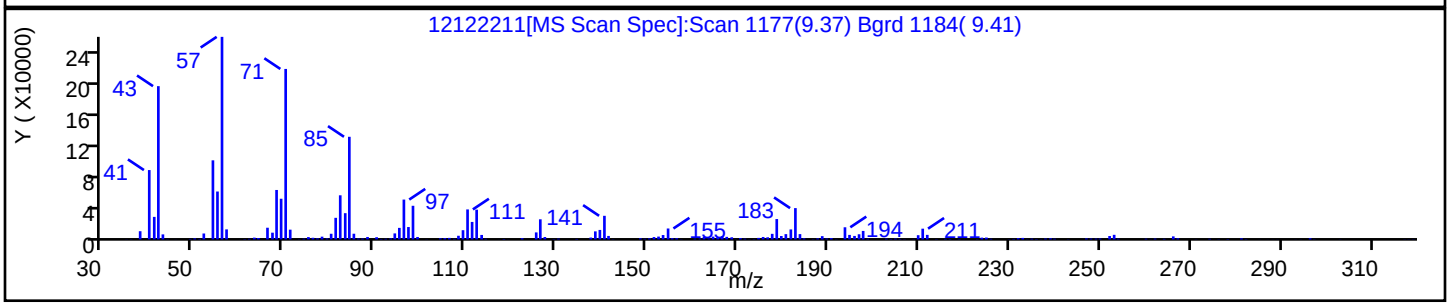
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.364

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





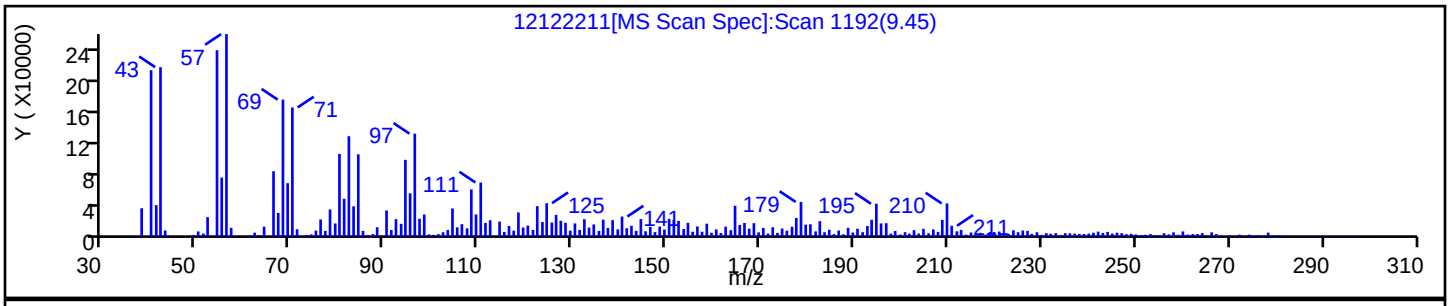
Report Date: 23-Dec-2015 09:58:01 AIM Revision: 1.0 26-May-2015 13:41:26

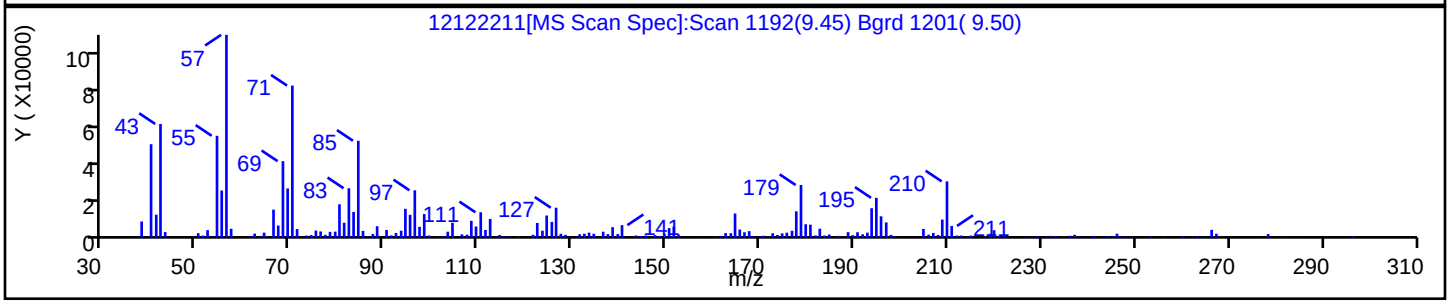
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122211.D		
Injection Date:	22-Dec-2015 14:05:30	Inst. ID:	msd12.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	12122215.b, QL12004-006		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.444

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R26

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-007
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122212
% Solids: 86.3
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1600	U
100-52-7	Benzaldehyde	7600	U
108-95-2	Phenol	7600	U
111-44-4	Bis(2-Chloroethyl) ether	7600	U
95-57-8	2-Chlorophenol	3900	U
95-48-7	2-Methylphenol	7600	U
108-60-1	2,2'-Oxybis(1-chloropropane)	7600	U
98-86-2	Acetophenone	7600	U
106-44-5	4-Methylphenol	7600	U
621-64-7	N-Nitroso-di-n propylamine	3900	U
67-72-1	Hexachloroethane	3900	U
98-95-3	Nitrobenzene	3900	U
78-59-1	Isophorone	3900	U
88-75-5	2-Nitrophenol	3900	U
105-67-9	2,4-Dimethylphenol	3900	U
111-91-1	Bis(2-chloroethoxy)methane	3900	U
120-83-2	2,4-Dichlorophenol	3900	U
91-20-3	Naphthalene	390	J
106-47-8	4-Chloroaniline	7600	U
87-68-3	Hexachlorobutadiene	3900	U
105-60-2	Caprolactam	7600	U
59-50-7	4-Chloro-3-methylphenol	3900	U
91-57-6	2-Methylnaphthalene	3000	J
77-47-4	Hexachlorocyclo-pentadiene	7600	U
88-06-2	2,4,6-Trichlorophenol	3900	U
95-95-4	2,4,5-Trichlorophenol	3900	U
92-52-4	1,1'-Biphenyl	3900	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R26

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-007
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122212
% Solids: 86.3
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	3900	U
88-74-4	2-Nitroaniline	3900	U
131-11-3	Dimethylphthalate	3900	U
606-20-2	2,6-Dinitrotoluene	3900	U
208-96-8	Acenaphthylene	3900	U
99-09-2	3-Nitroaniline	7600	U
83-32-9	Acenaphthene	3900	U
51-28-5	2,4-Dinitrophenol	7600	U
100-02-7	4-Nitrophenol	7600	U
132-64-9	Dibenzofuran	3900	U
121-14-2	2,4-Dinitrotoluene	3900	U
84-66-2	Diethylphthalate	3900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	3900	U
7005-72-3	4-Chlorophenyl-phenyl ether	3900	U
86-73-7	Fluorene	3900	U
100-01-6	4-Nitroaniline	7600	U
534-52-1	4,6-Dinitro-2-methylphenol	7600	U
101-55-3	4-Bromophenyl-phenylether	3900	U
86-30-6	N-Nitrosodiphenylamine	3900	U
118-74-1	Hexachlorobenzene	3900	U
1912-24-9	Atrazine	7600	U
87-86-5	Pentachlorophenol	7600	U
85-01-8	Phenanthrene	490	J
120-12-7	Anthracene	3900	U
86-74-8	Carbazole	7600	U
84-74-2	Di-n-butylphthalate	3900	U
206-44-0	Fluoranthene	7600	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R26

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-007
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122212
% Solids: 86.3
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	3900	U
85-68-7	Butylbenzylphthalate	3900	U
91-94-1	3,3'-Dichlorobenzidine	7600	U
56-55-3	Benzo(a)anthracene	3900	U
218-01-9	Chrysene	3900	U
117-81-7	Bis(2-ethylhexyl)phthalate	3900	U
117-84-0	Di-n-octylphthalate	7600	U
205-99-2	Benzo(b)fluoranthene	3900	U
207-08-9	Benzo(k)fluoranthene	3900	U
50-32-8	Benzo(a)pyrene	3900	U
193-39-5	Indeno(1,2,3-cd)pyrene	3900	U
53-70-3	Dibenzo(a,h)anthracene	3900	U
191-24-2	Benzo(g,h,i)perylene	3900	U
58-90-2	2,3,4,6-Tetrachlorophenol	3900	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R26

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-007
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122212
% Solids: 86.3
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Y
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 500 (uL)
Heated Purge: (Y/N)
Extraction Type: SONC
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types: GPC
pH: Dilution Factor: 20.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	6.41	7000	J
02					
03	700-12-9	Benzene, pentamethyl-	6.61	7400	NJ
04					
05					
06		Unknown-02	6.93	9800	J
07		Unknown-03	6.98	6600	J
08		Unknown-04	7.01	8800	J
09	2809-64-5	Naphthalene, 1,2,3,4-	7.06	6400	NJ
10		Unknown-05	7.13	9200	J
11	90-12-0	Naphthalene, 1-methyl-	7.19	9300	NJ
12		Unknown-06	7.22	8300	J
13					
14		Unknown-07	7.34	8700	J
15		Unknown-08	7.41	8300	J
16		Unknown-09	7.45	14000	J
17	575-41-7	Naphthalene, 1,3-dimethyl-	7.63	16000	NJ
18		Unknown-10	7.91	8300	J
19		Unknown-11	7.97	8700	J
20	66563-30-2	Bacchotricuneatin c	8.07	8800	NJ
21		Unknown-12	8.15	8300	J
22		Unknown-13	8.31	8400	J
23		Unknown-14	8.34	10000	J
24		Unknown-15	8.58	9300	J
25					
26	529-05-5	Chamazulene	8.74	7800	NJ
27	3031-15-0	Naphthalene, 1,2,3,4-	8.81	8900	NJ
28		Unknown-16	9.00	8300	J
29					
30					
	E966796[2]	Total Alkanes	N/A	100100	J

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Lab Sample ID:	QL12004-007	Client Sample ID:	F6R26
Injection Date:	22-Dec-2015 14:34:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL12004-007		
Misc. Info:	92512 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	10
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.000	Weight of sample extracted (g)
M	13.700	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 15:06:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 3 Phenol-d5	99.0	5.117	5.122	-0.005	34964	0.91971	710.48	Qe
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	812	0.05840	45.111	eR
4 Phenol	94.0		5.133		ND			
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	29344	1.1444	884.05	Qe
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.293	5.299	-0.006	23431	0.93158	719.64	Qe
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.475	-0.005	415041	20.000	15450	
10 2-Methylphenol	108.0		5.614		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.699	5.710	-0.011	27229	0.98605	761.72	Qe
14 4-Methylphenol	108.0		5.737		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.918	-0.010	16560	1.0368	800.90	Qe
17 Nitrobenzene	77.0		5.935		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.170		ND			
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	14415	0.78807	608.78	Qe
19 2-Nitrophenol	139.0		6.186		ND			

Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122212.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.367	-0.005	24910	0.92768	716.63	Qe
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1847577	20.000	15450	Q
24 Naphthalene	128.0	6.533	6.538	-0.005	50101	0.50309	388.64	Qe
$ 97 4-Chloroaniline-d4	131.0	6.527	6.544	-0.017	160261	3.9592	3058.47	QeR
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0	7.104	7.104	0.000	249233	3.8784	2996.08	e
30 Hexachlorocyclopentadiene	237.0		7.227		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.687	-0.011	93640	1.3889	1072.95	Qe
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.868	7.874	-0.006	109468	1.2272	947.98	Qe
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	1032160	20.000	15450	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0	8.034	8.034	0.000	57894	3.5123	2713.28	QeR
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.290		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0	8.429	8.435	-0.006	80486	1.2724	982.94	Qe
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.456	8.472	-0.016	24442	1.3836	1068.86	Qe
51 4,6-Dinitro-2-methylphenol	198.0		8.477		ND			
52 N-Nitrosodiphenylamine	169.0		8.525		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.273	-0.005	1940859	20.000	15450	
59 Phenanthrene	178.0	9.289	9.295	-0.006	68845	0.63703	492.10	Qe
$ 103 Anthracene-d10	188.0	9.316	9.321	-0.005	140099	1.4159	1093.76	e
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			

Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122212.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 104 Pyrene-d10	212.0	10.630	10.641	-0.011	134094	1.4233	1099.51	e
64 Pyrene	202.0		10.662		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.174	12.180	-0.006	2159198	20.000	15450	
70 Chrysene	228.0		12.222		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.300	14.322	-0.022	118245	1.1283	871.63	Qe
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.455	14.461	-0.006	2161826	20.000	15450	
77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Lab Sample ID:	QL12004-007	Client Sample ID:	F6R26
Injection Date:	22-Dec-2015 14:34:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL12004-007		
Misc. Info:	92512 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	10
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.000	Weight of sample extracted (g)
M	13.700	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 15:06:30

Tentative Identified Compound Results

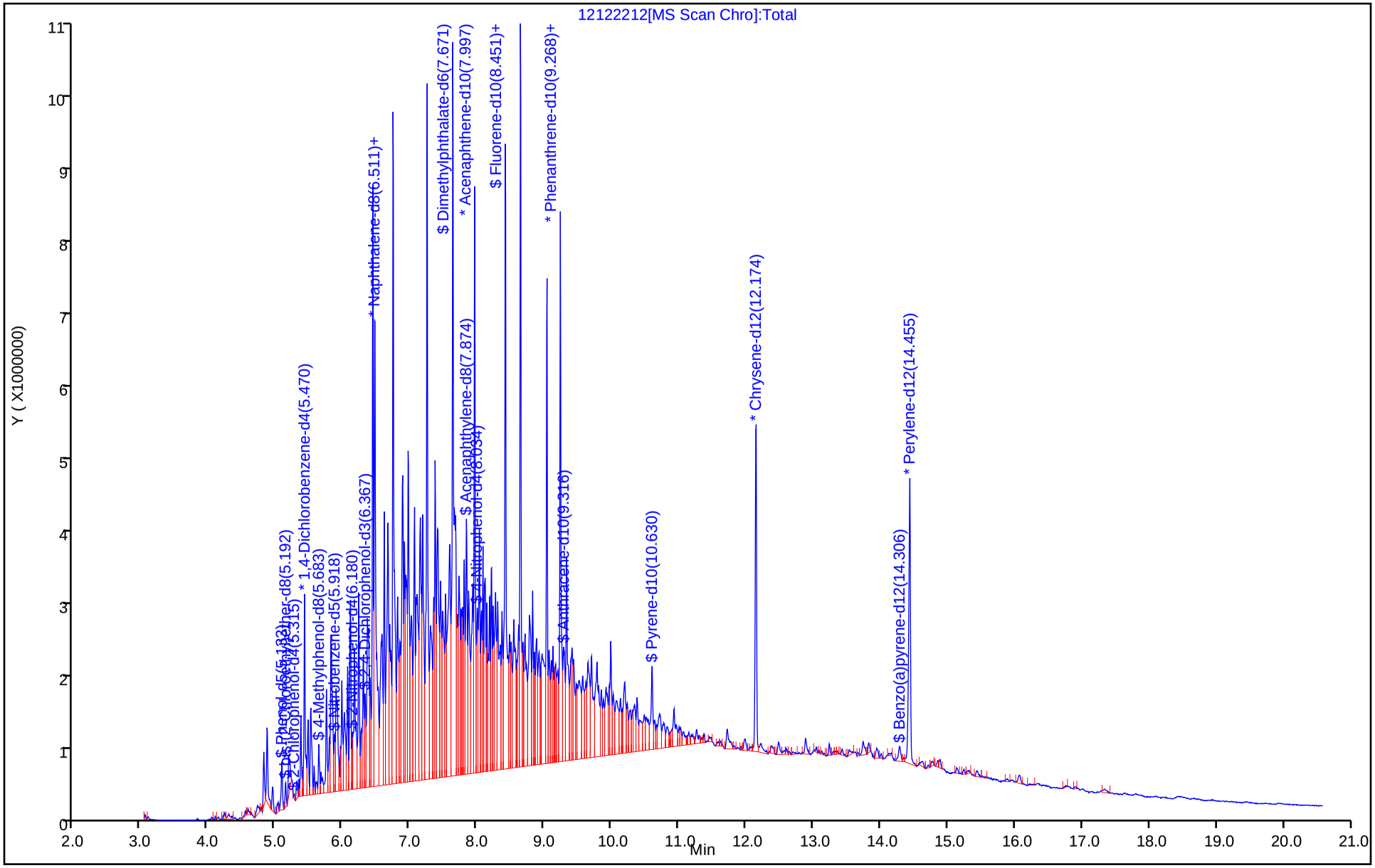
RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
6.405	5192721	9.1226	7047.18	23				
	Unknown Alkane							
6.485	8677186	15.244	11776	23				
700-12-9	Benzene, pentamethyl-							
6.608	5474092	9.6169	7429.03	23	87	22770	C11H16	148
	Unknown Alkane							
6.709	7014607	12.323	9519.71	23				
	Unknown Alkane							
6.784	13257440	23.291	17992	23				
	Unknown							
6.928	7225454	12.694	9805.85	23				
	Unknown							
6.976	4855892	8.5308	6590.06	23				
	Unknown							
7.008	6510183	11.437	8835.14	23				
2809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-methyl							
7.056	4751005	8.3466	6447.71	23	95	21673	C11H14	146
	Unknown							
7.131	6770570	11.895	9188.52	23				
90-12-0	Naphthalene, 1-methyl-							
7.190	6837324	12.012	9279.11	23	94	19232	C11H10	142

RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
7.222	6111541	10.737	8294.13	23				
		Unknown Alkane						
7.291	13244789	29.737	22972	41				
		Unknown						
7.339	5008588	11.245	8686.80	41				
		Unknown						
7.409	4766997	10.703	8267.79	41				
		Unknown						
7.446	8074377	18.128	14004	41				
	575-41-7	Naphthalene, 1,3-dimethyl-						
7.628	9394584	21.092	16294	41	96	28495	C12H12	156
		Unknown						
7.906	4798672	10.774	8322.73	41				
		Unknown						
7.970	5041772	11.320	8744.35	41				
	66563-30-2	Bacchotricuneatin c						
8.066	5063714	11.369	8782.41	41	95	178298	C20H22O5	342
		Unknown						
8.152	4773400	10.717	8278.89	41				
		Unknown						
8.306	4819217	10.820	8358.36	41				
		Unknown						
8.338	5818964	13.064	10092	41				
		Unknown						
8.579	5386073	12.093	9341.50	41				
		Unknown Alkane						
8.675	11147840	23.571	18209	58				
	529-05-5	Chamazulene						
8.744	4777226	10.101	7803.05	58	92	48919	C14H16	184
	3031-15-0	Naphthalene, 1,2,3,4-tetramethyl-						
8.809	5425229	11.471	8861.49	58	90	48934	C14H16	184
		Unknown						
8.996	5077008	10.735	8292.71	58				
		Unknown Alkane						
9.070	7022175	14.848	11470	58				
		Unknown Alkane						
9.359	5271340	11.146	8610.13	58				

Quant. Compounds	RT	Response	Amount ng/ul
* 23 Naphthalene-d8	6.517	11384338	20.000
* 41 Acenaphthene-d10	7.997	8908067	20.000
* 58 Phenanthrene-d10	9.268	9458870	20.000

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D				
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R26	Lab ID:	QL12004-007		
Sample Info:	12122215.b, QL12004-007				
Injection Vol.	1.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

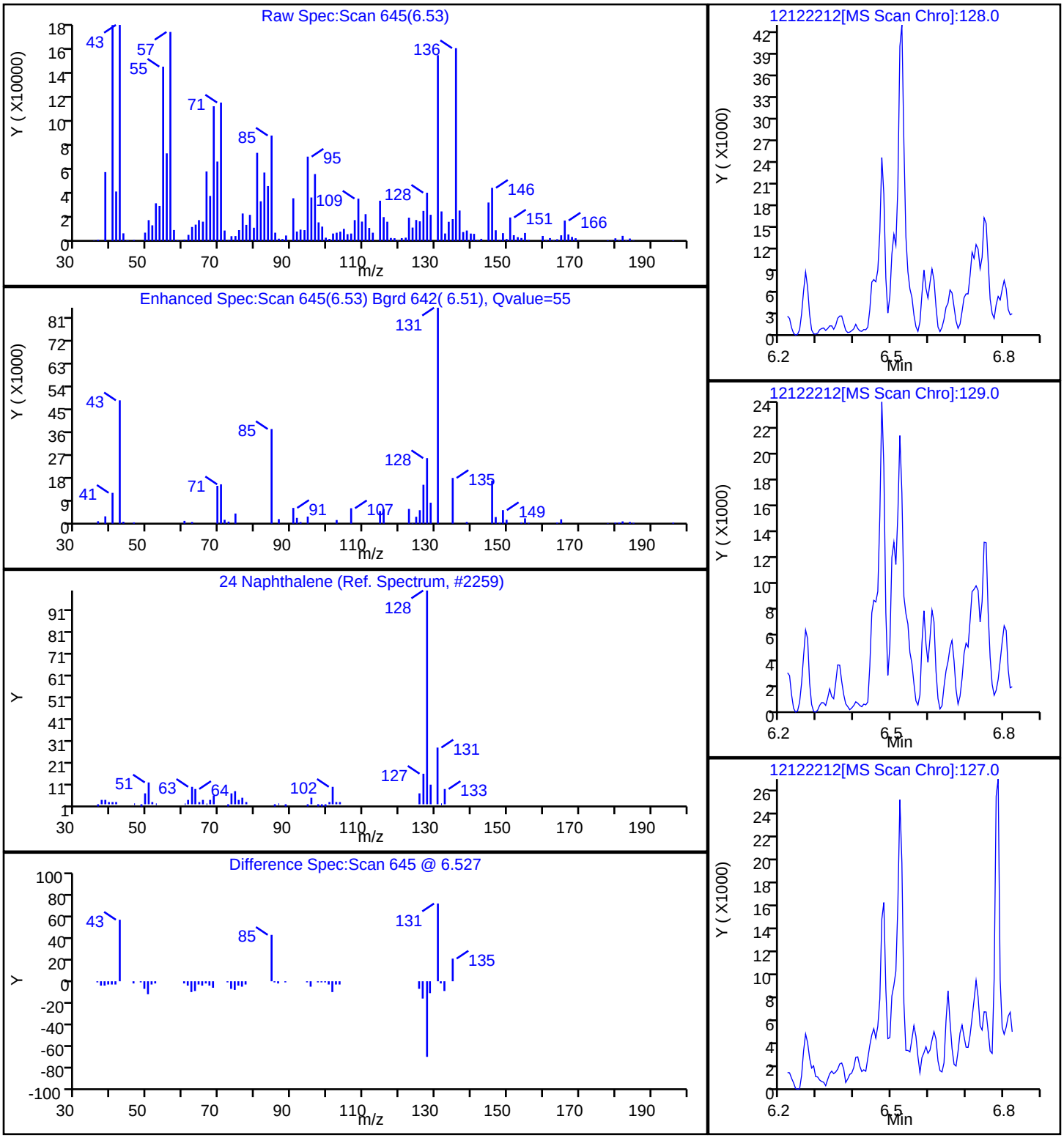


Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene

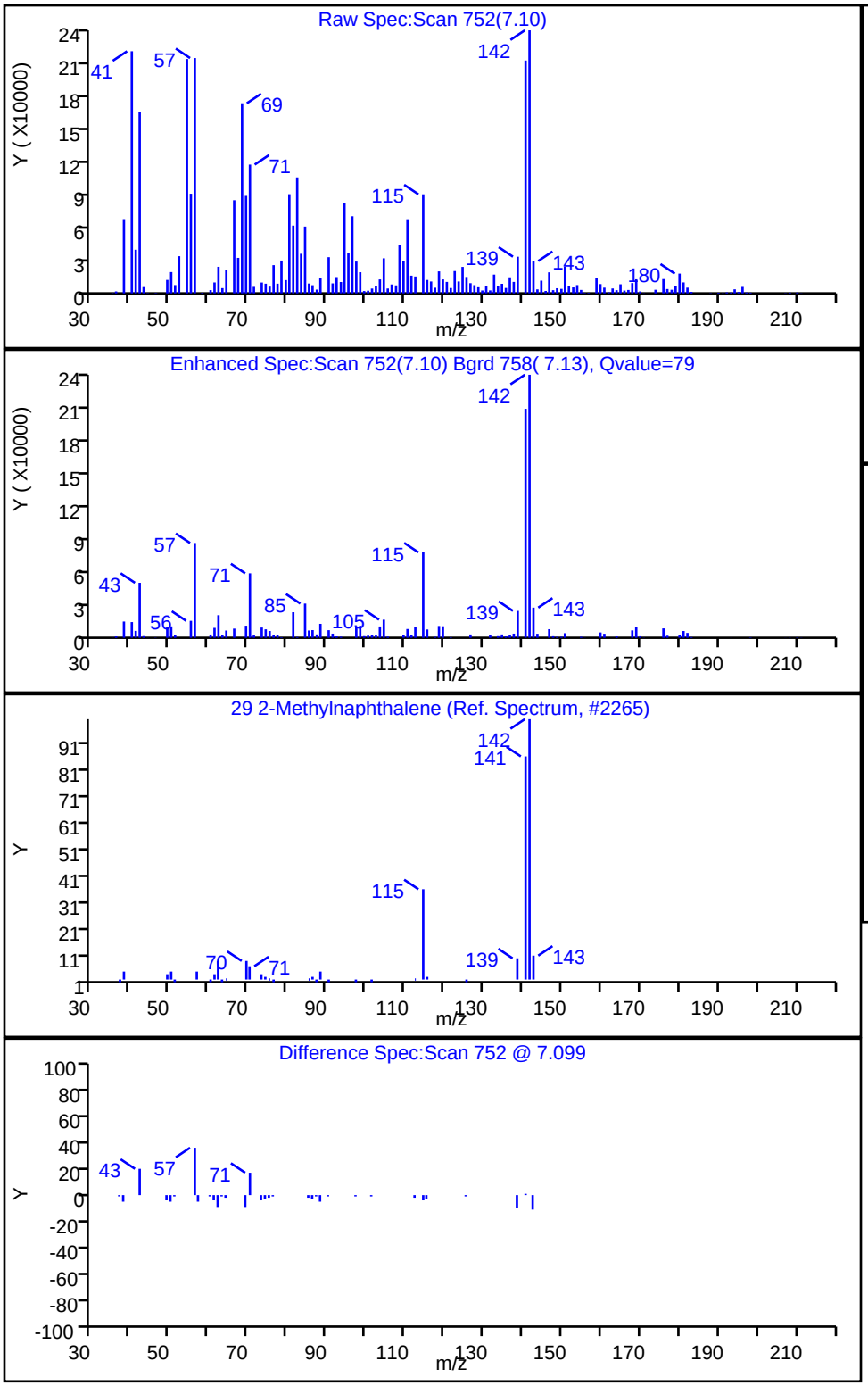


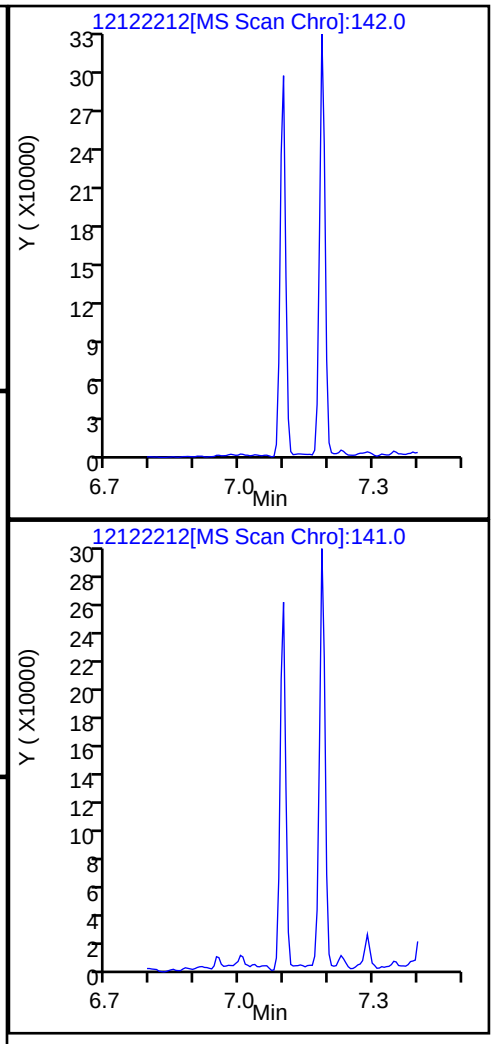
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene



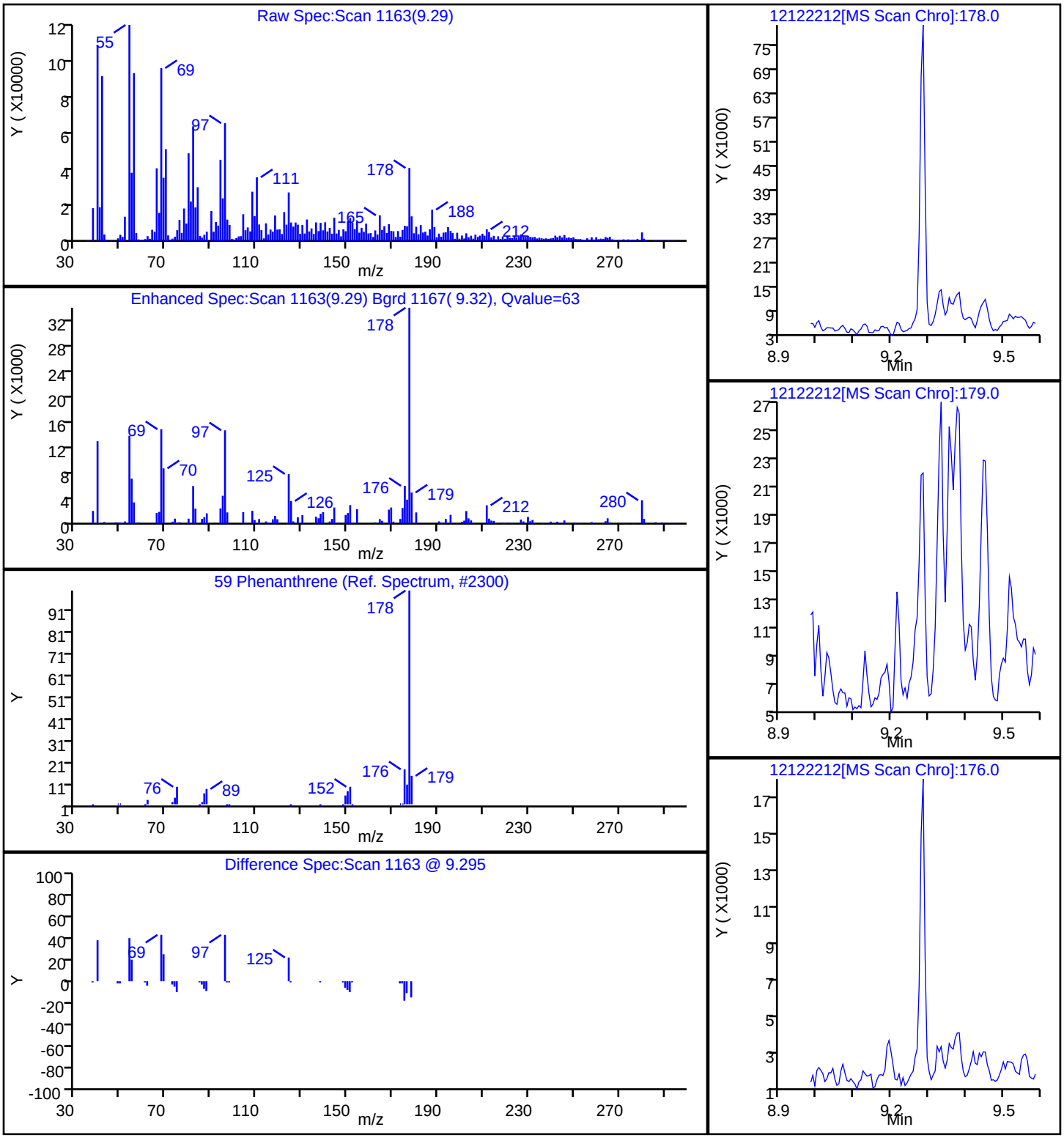


Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene



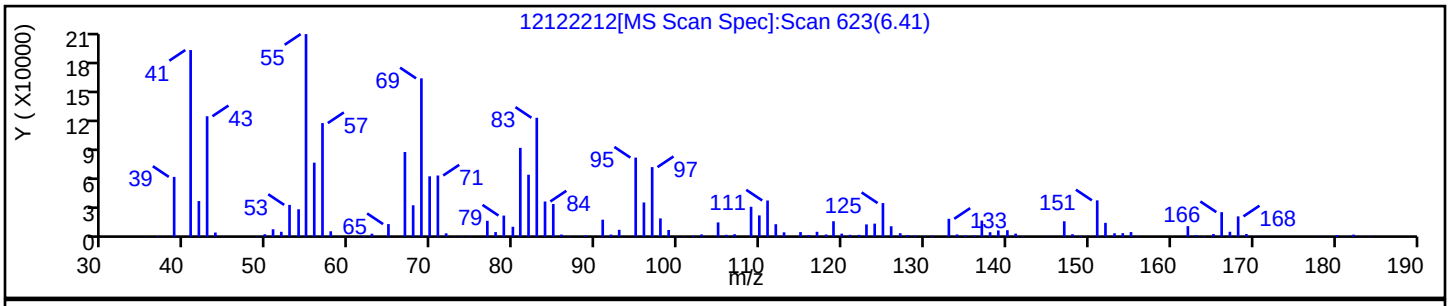
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

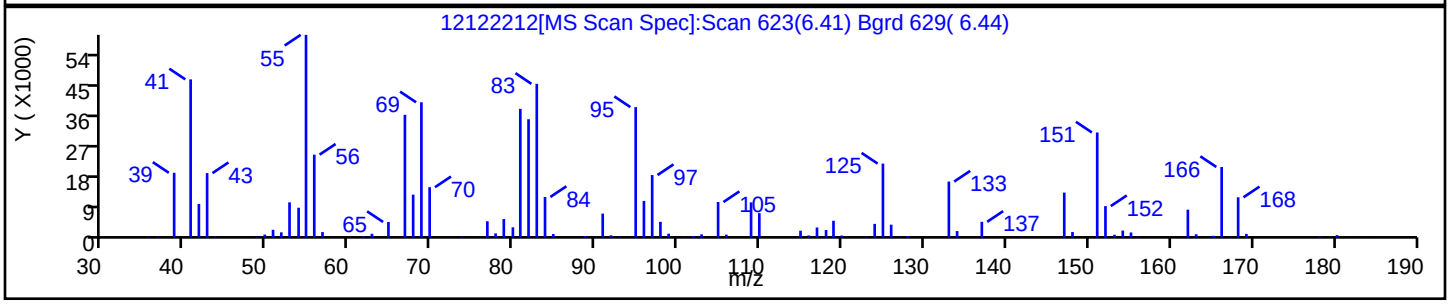
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.405

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





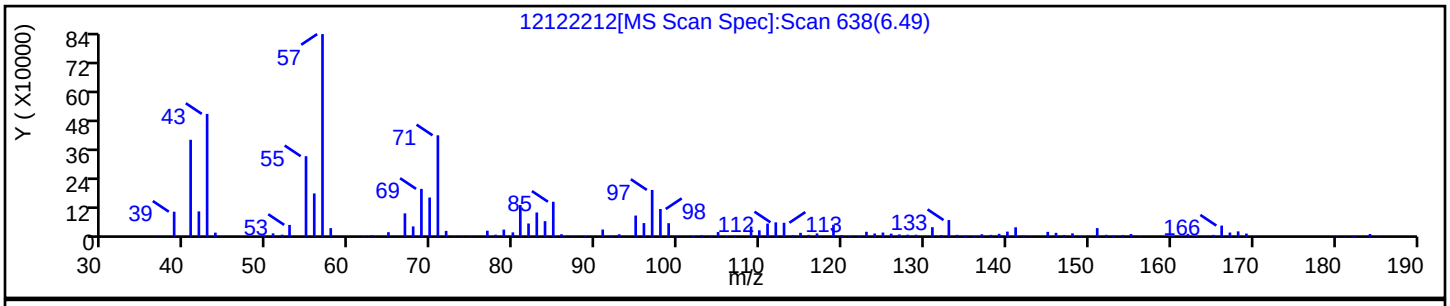
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

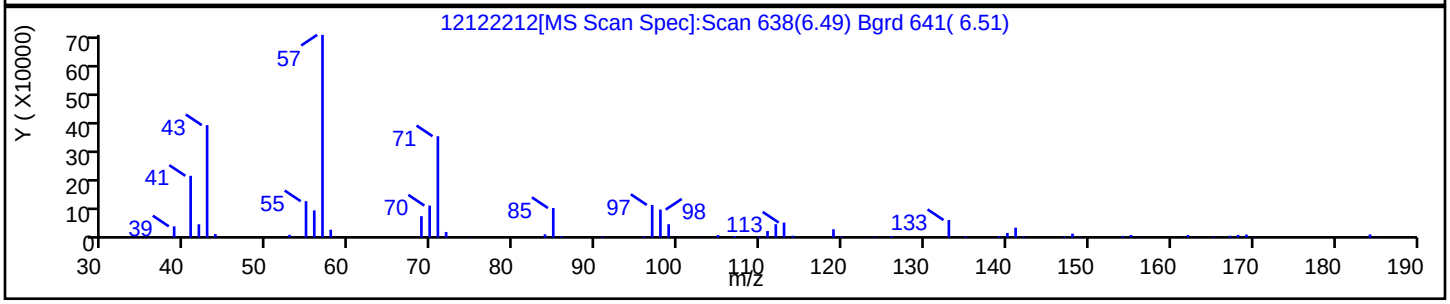
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.485

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





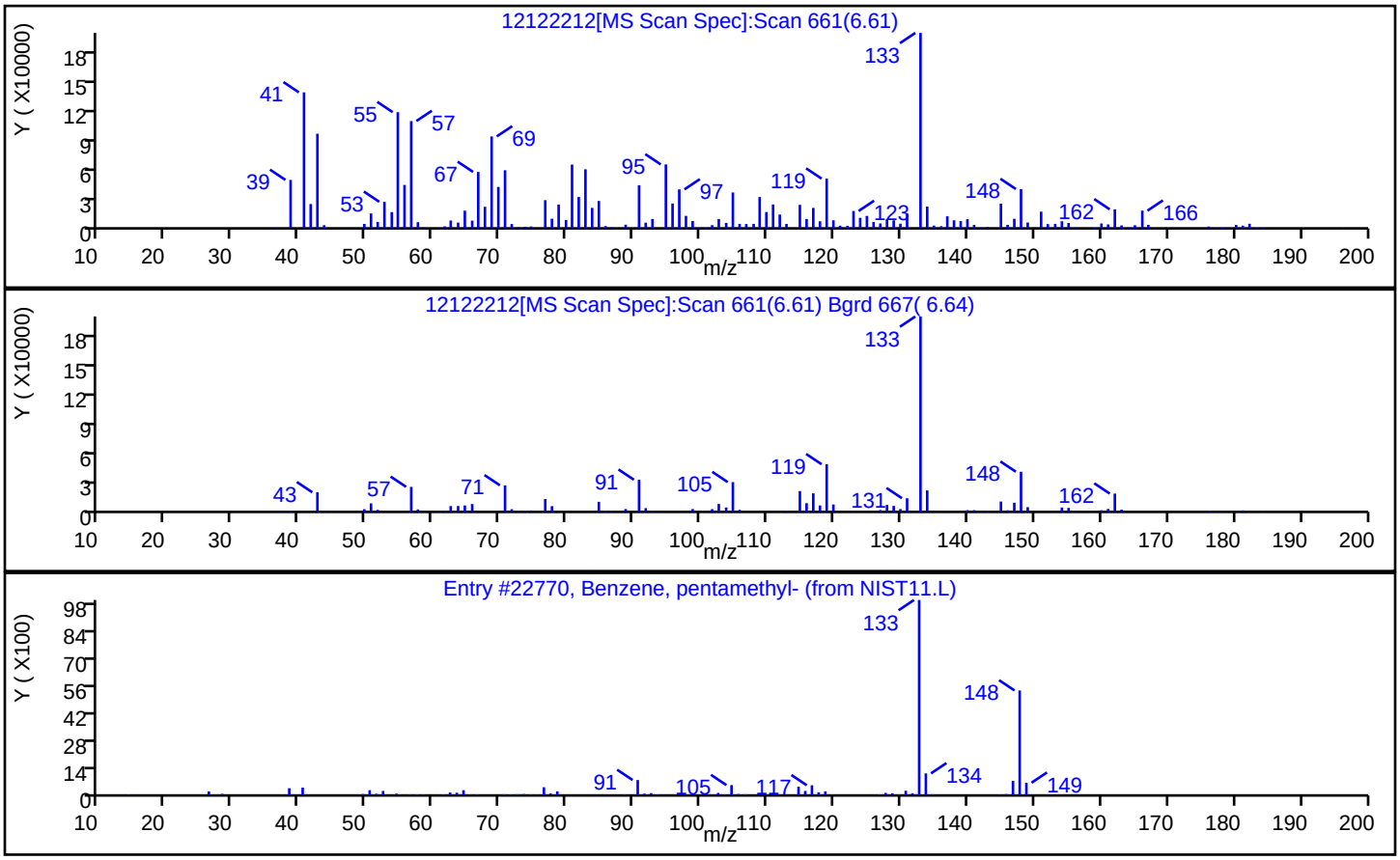
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.608

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, pentamethyl-	700-12-9	NIST11	22770	C11H16	148	87



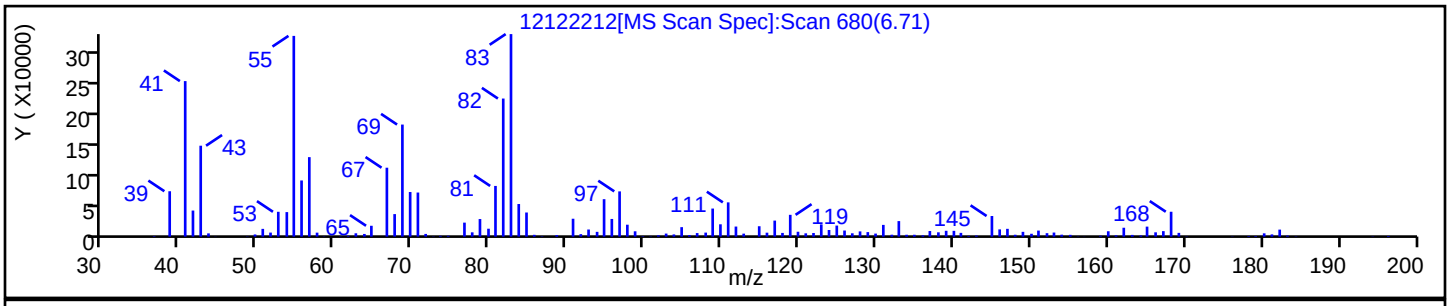
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

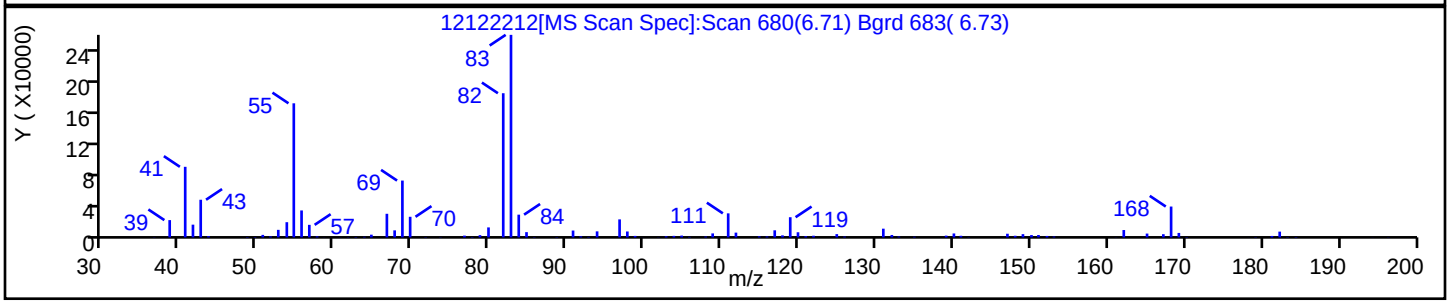
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.709

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





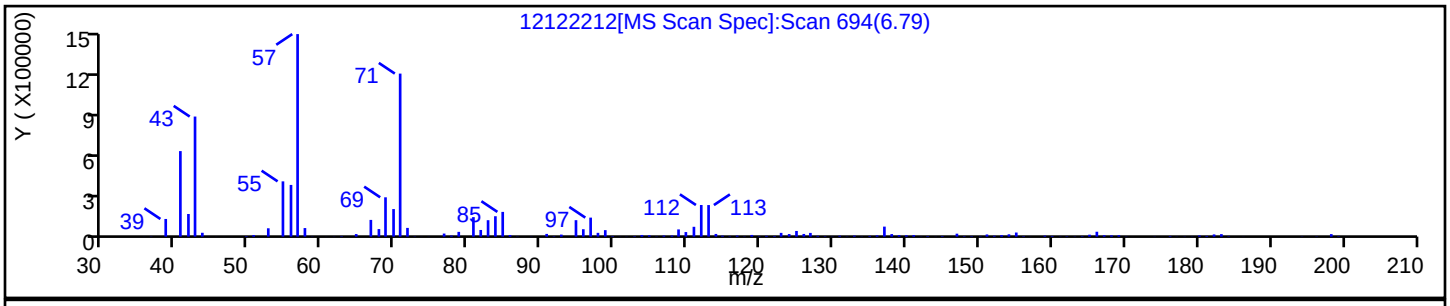
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

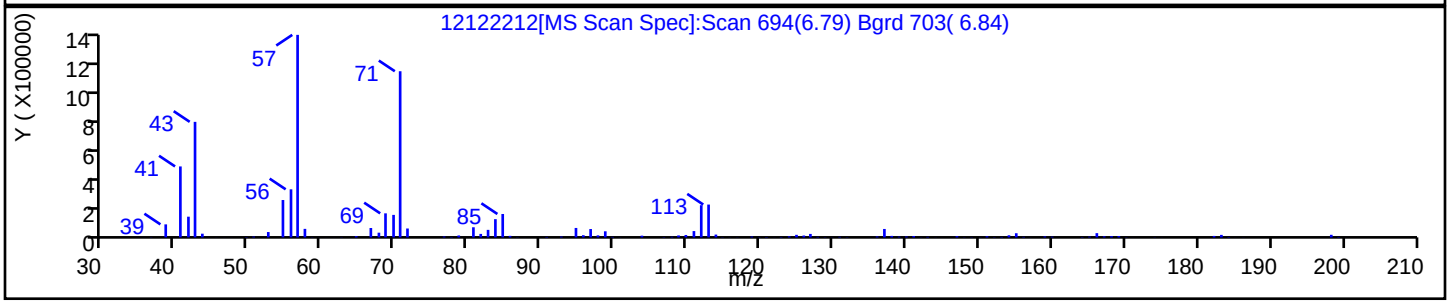
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.784

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





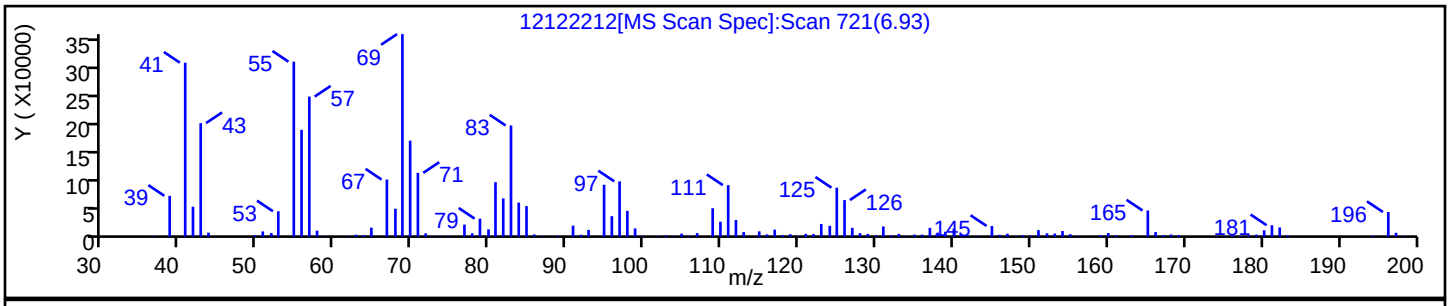
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

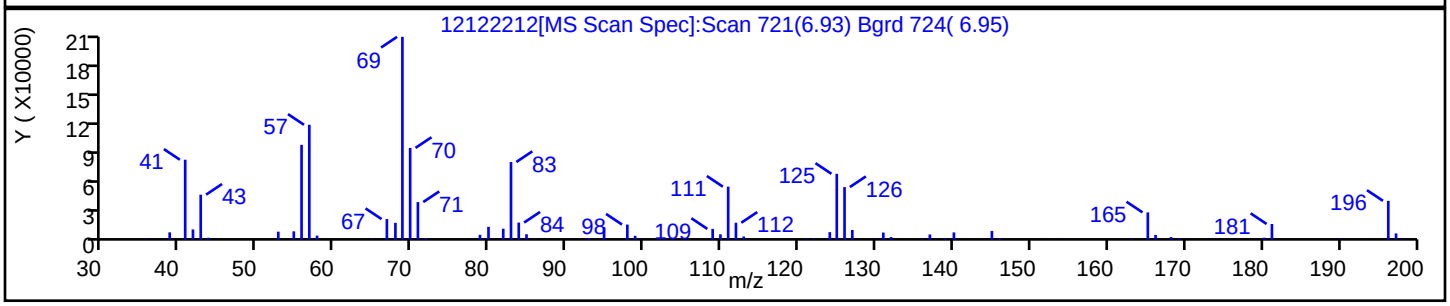
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.928

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





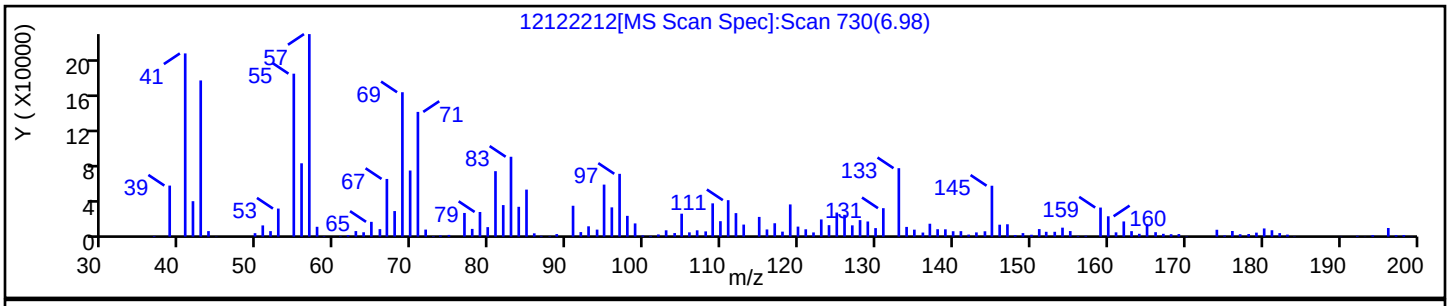
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

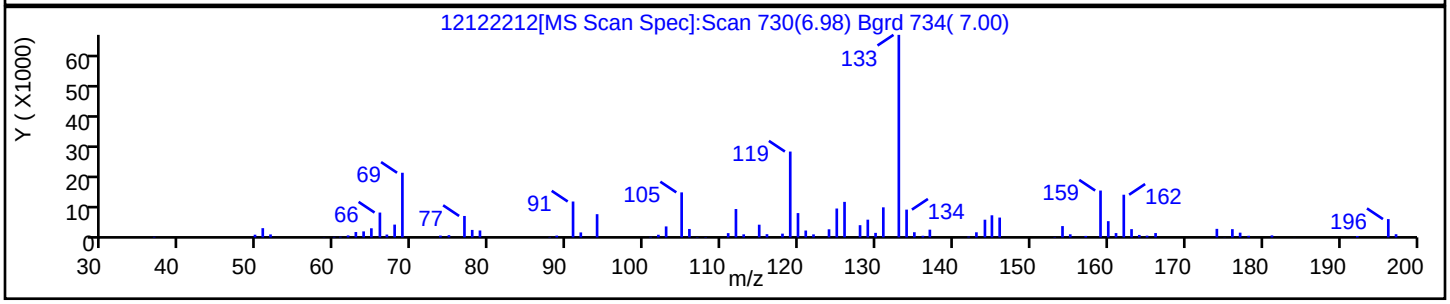
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.976

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





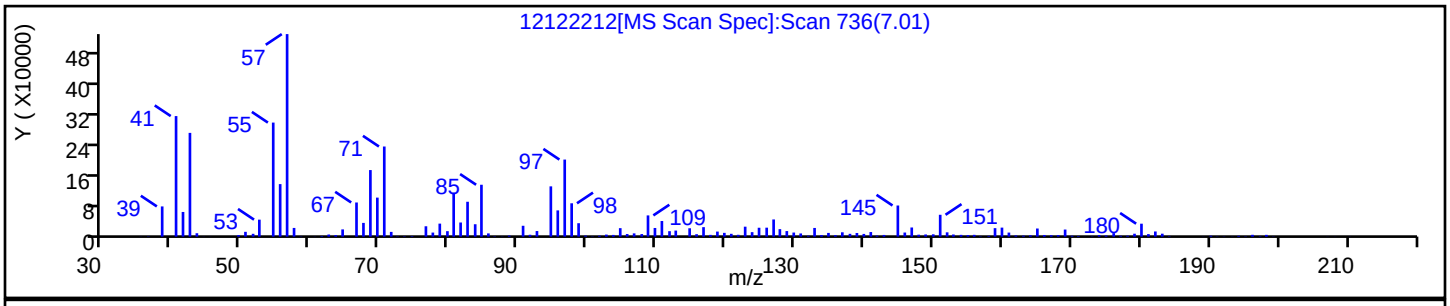
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

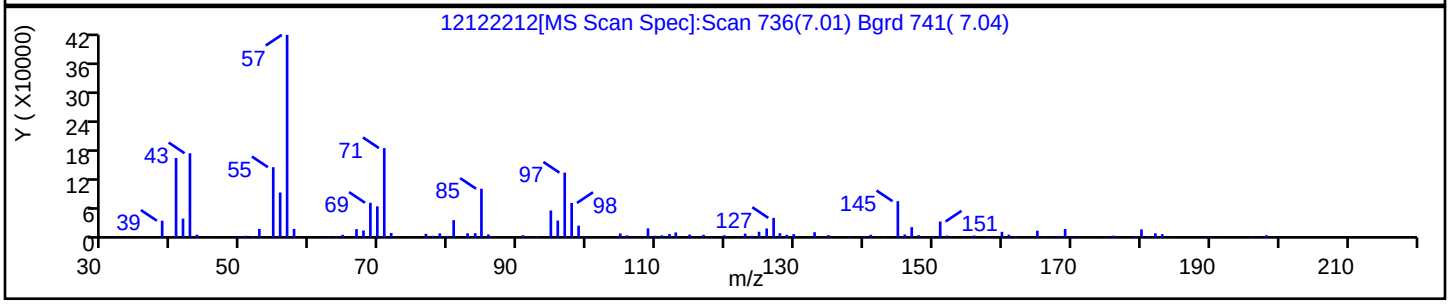
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.008

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





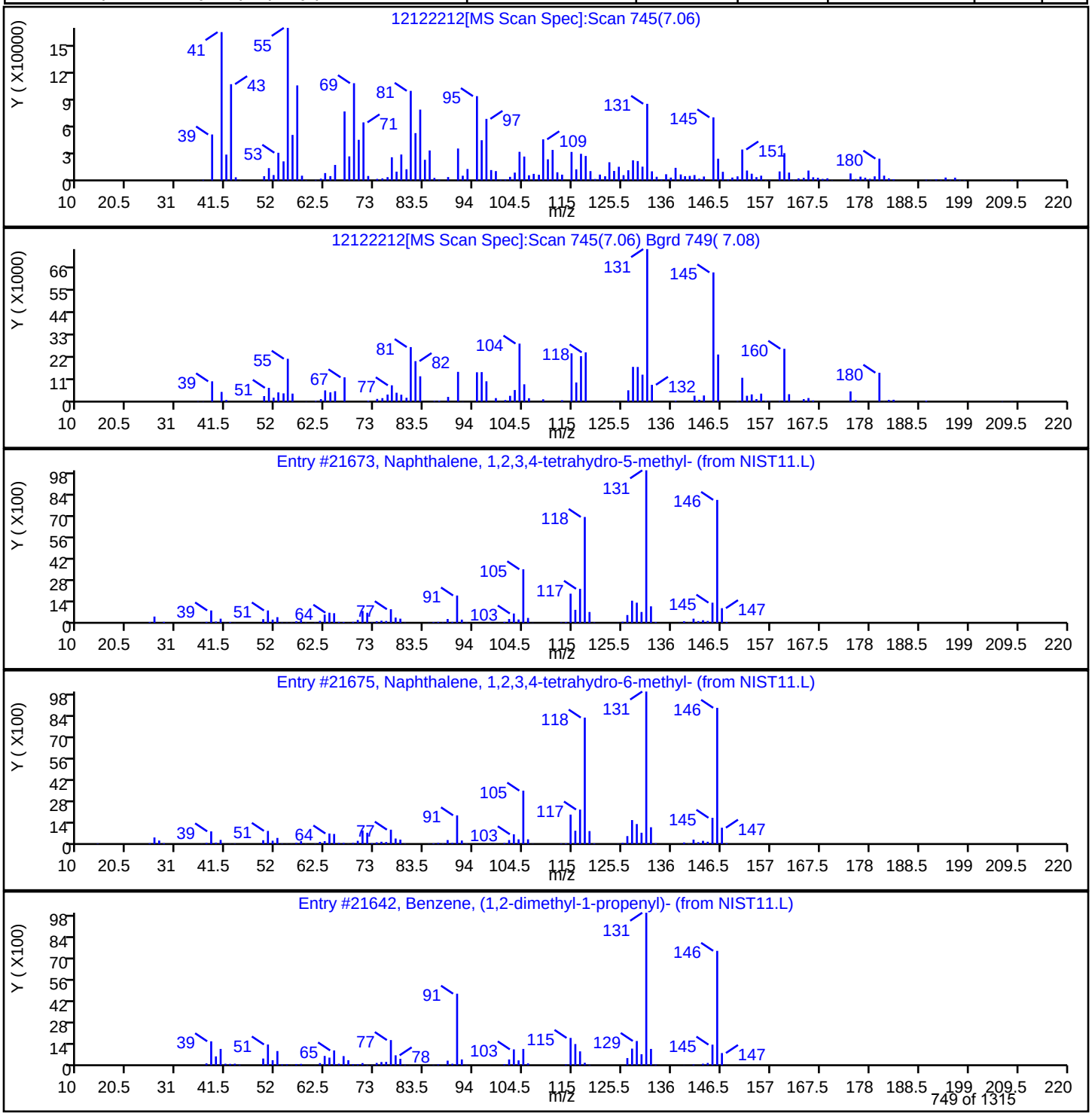
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.056

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	NIST11	21673	C11H14	146	95
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	NIST11	21675	C11H14	146	94
Benzene, (1,2-dimethyl-1-propenyl)-	769-57-3	NIST11	21642	C11H14	146	92



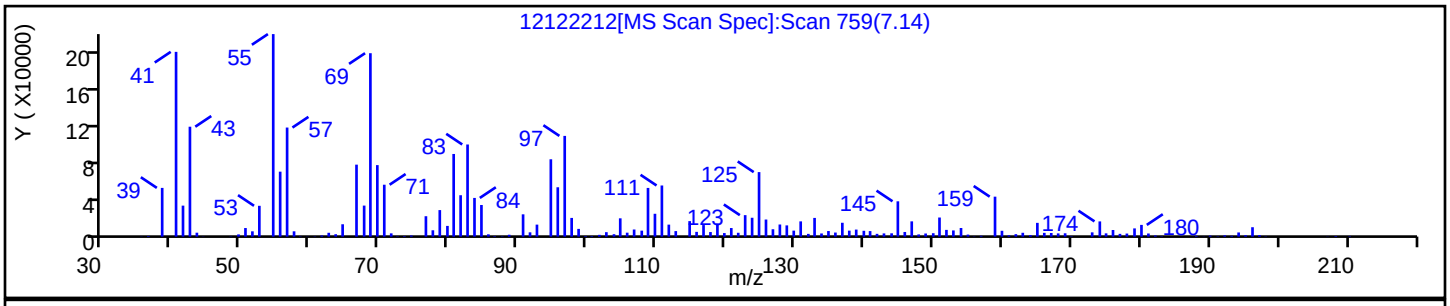
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

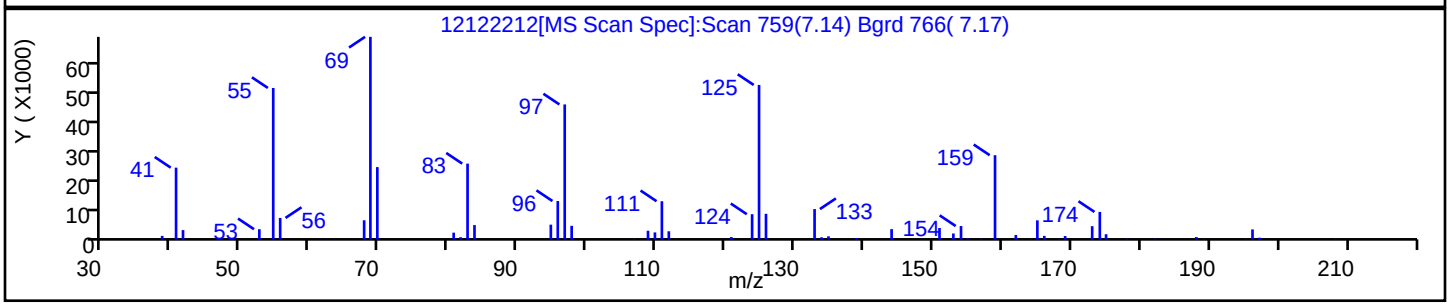
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.131

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





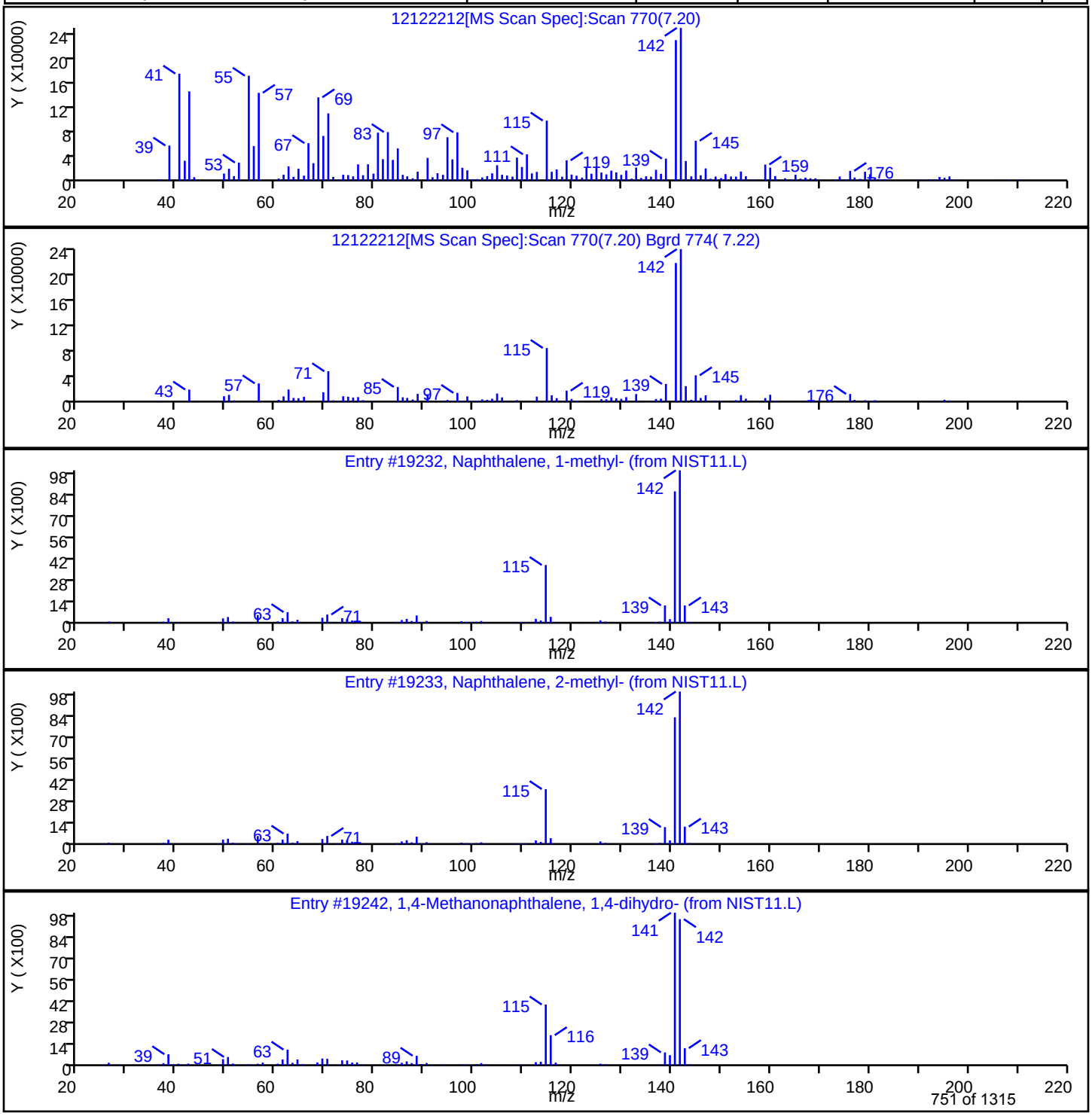
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.190

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	94
Naphthalene, 2-methyl-	91-57-6	NIST11	19233	C11H10	142	93
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST11	19242	C11H10	142	91



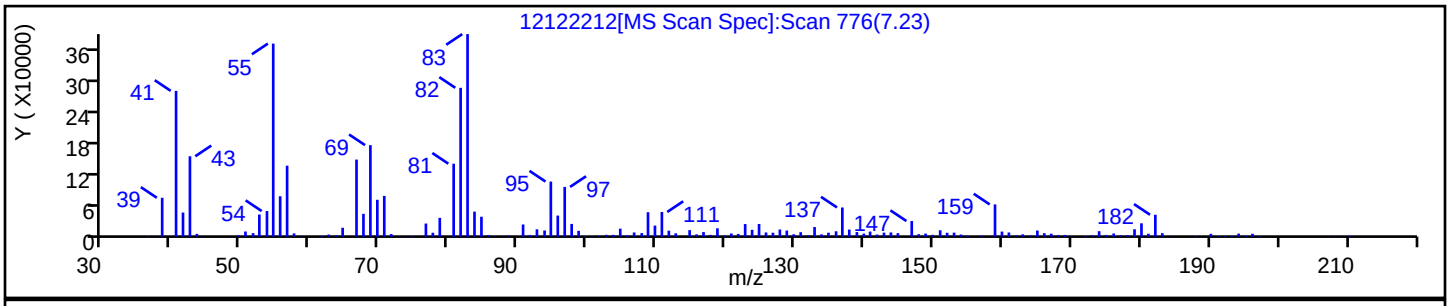
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

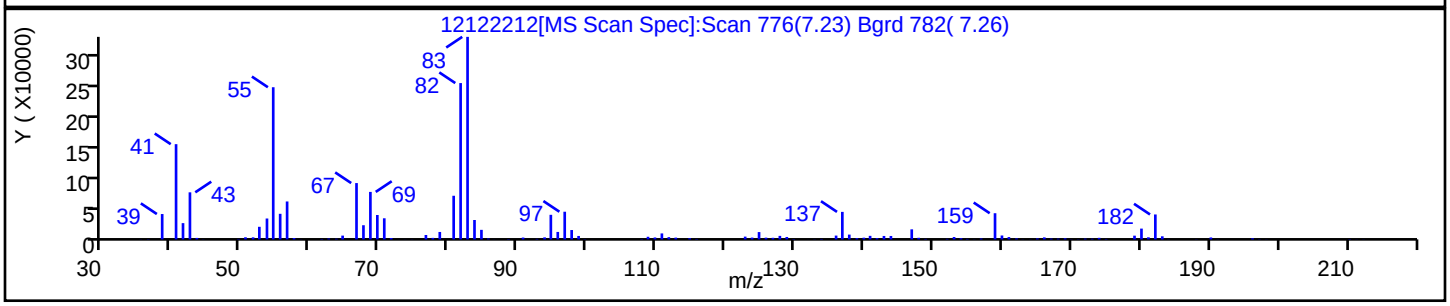
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.222

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





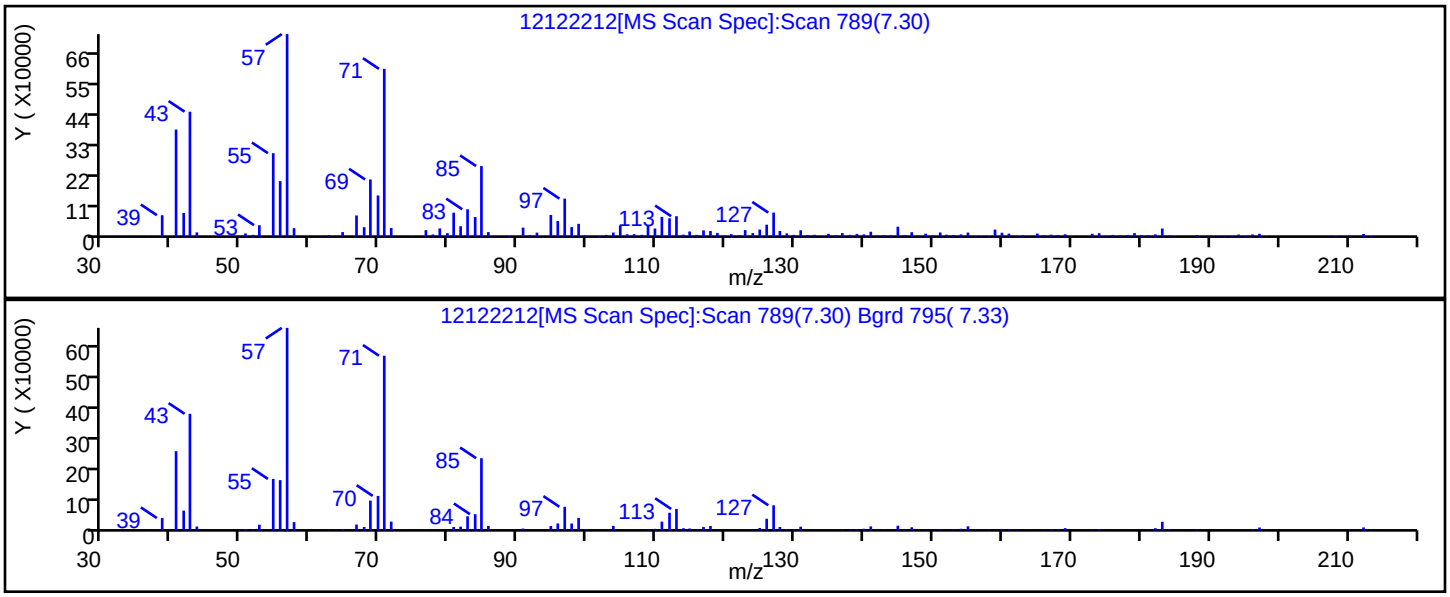
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.291

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



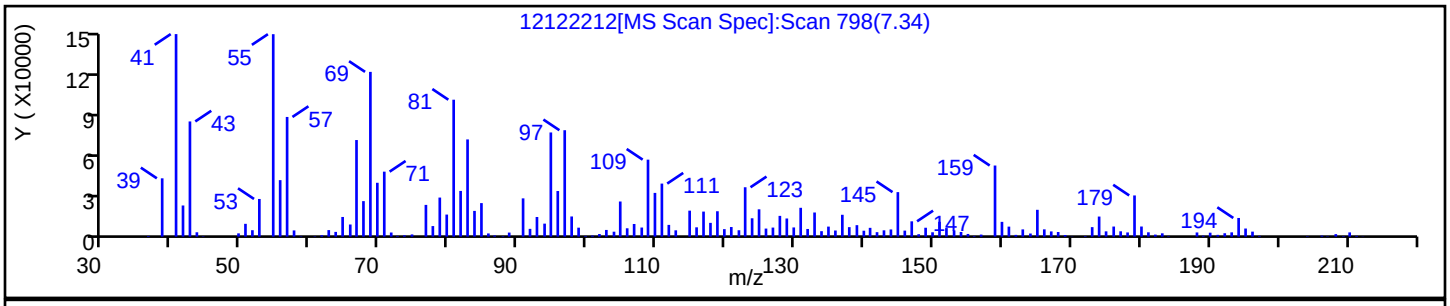
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

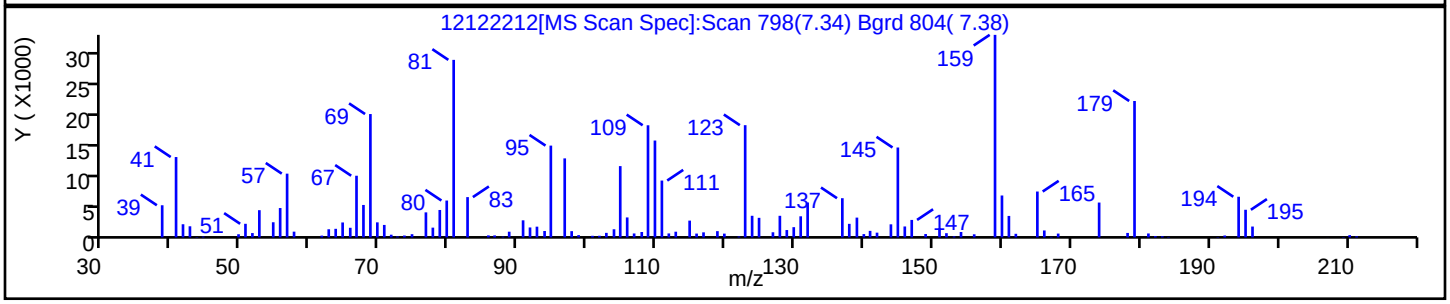
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.339

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





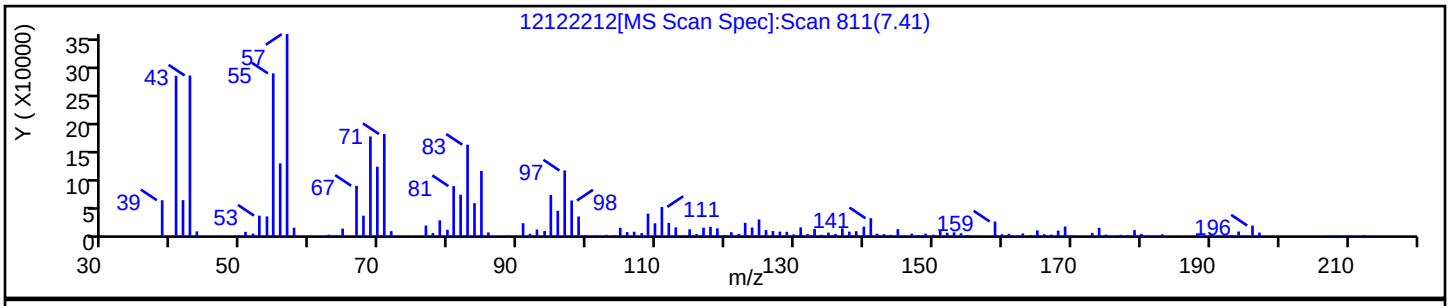
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

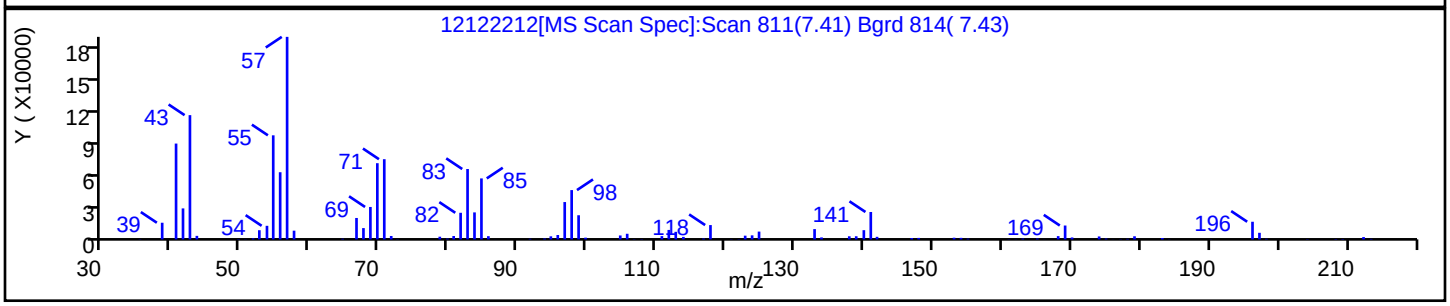
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.409

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





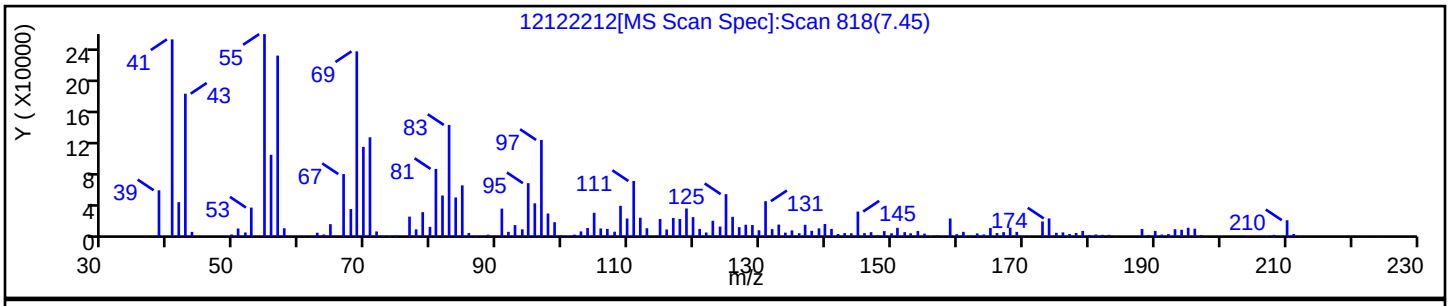
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

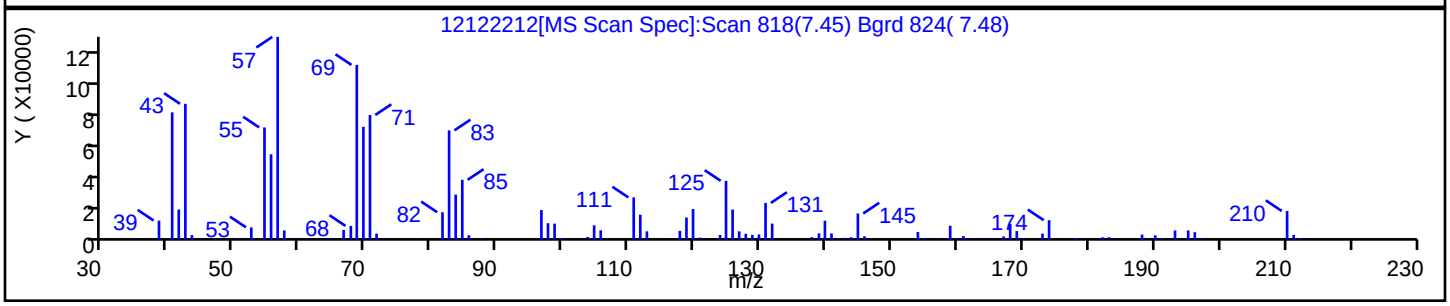
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.446

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





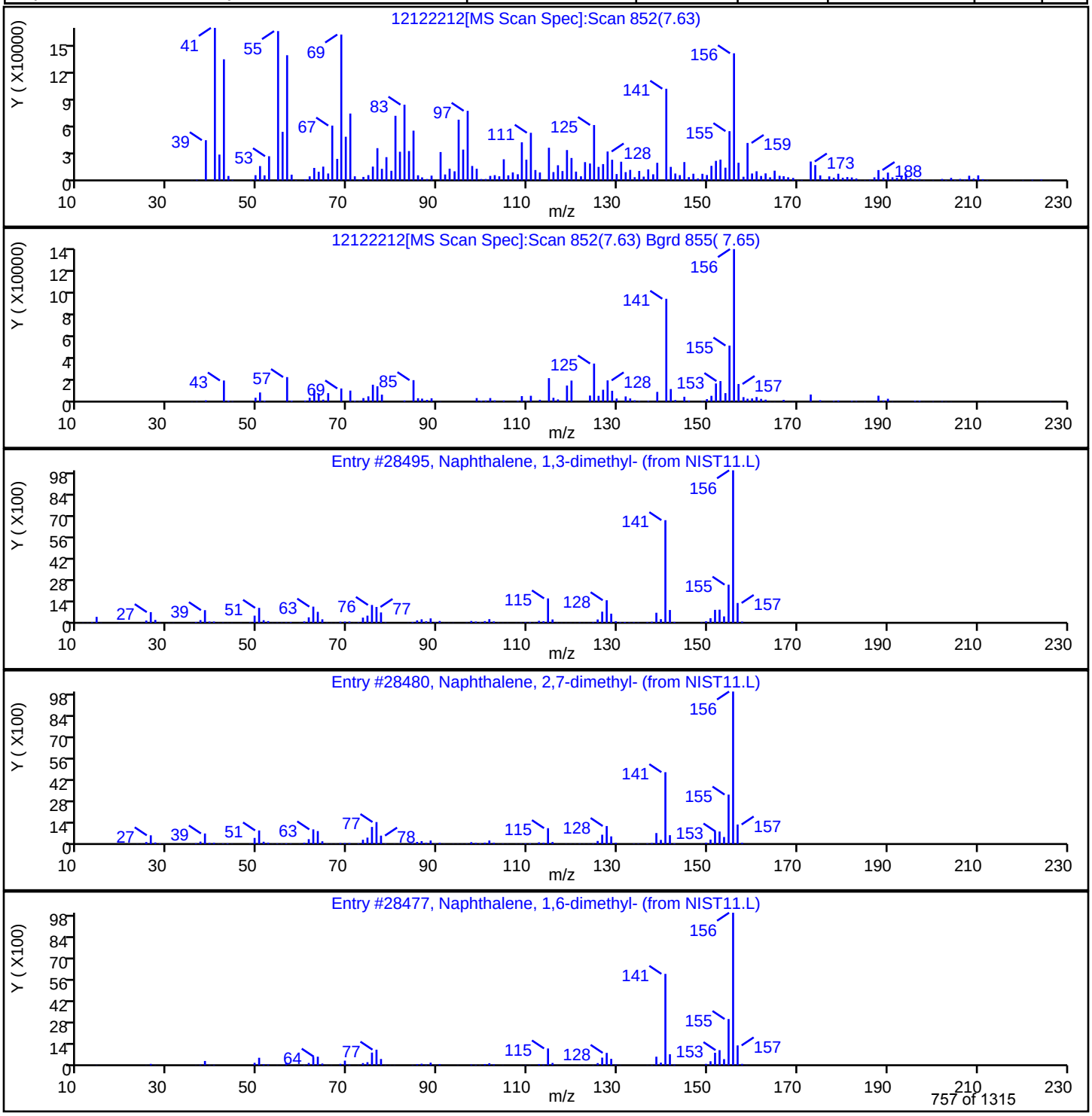
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.628

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,3-dimethyl-	575-41-7	NIST11	28495	C12H12	156	96
Naphthalene, 2,7-dimethyl-	582-16-1	NIST11	28480	C12H12	156	96
Naphthalene, 1,6-dimethyl-	575-43-9	NIST11	28477	C12H12	156	95



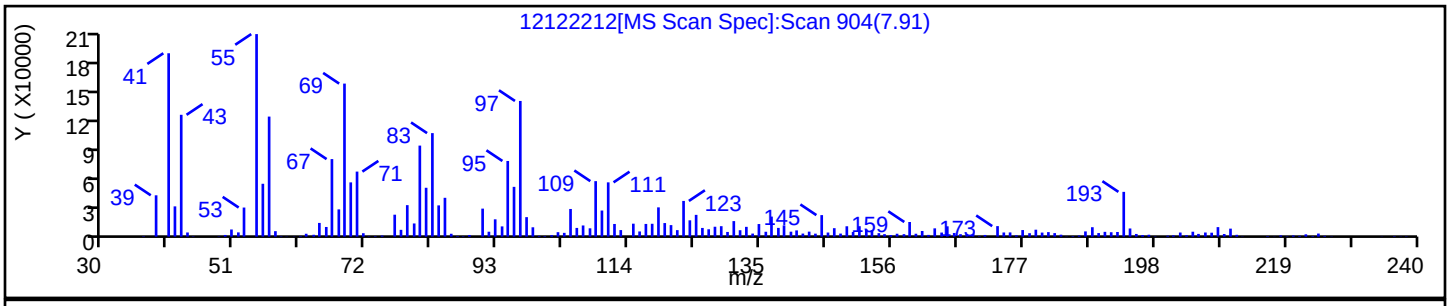
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

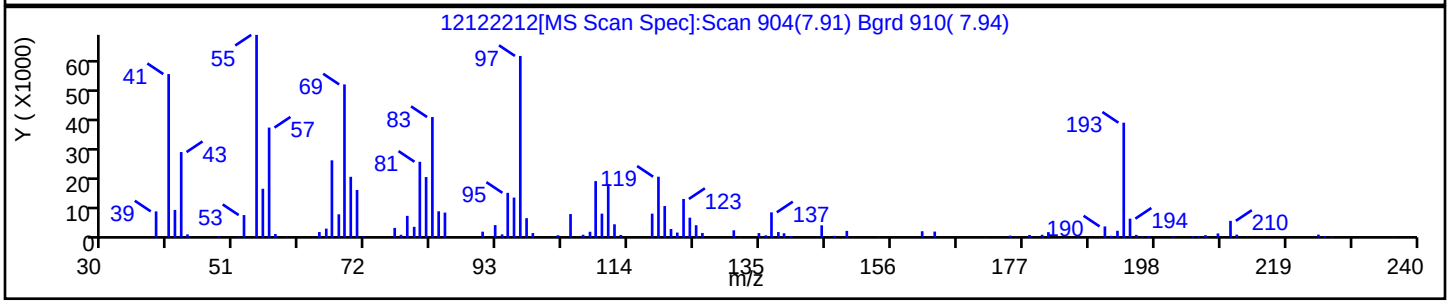
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.906

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





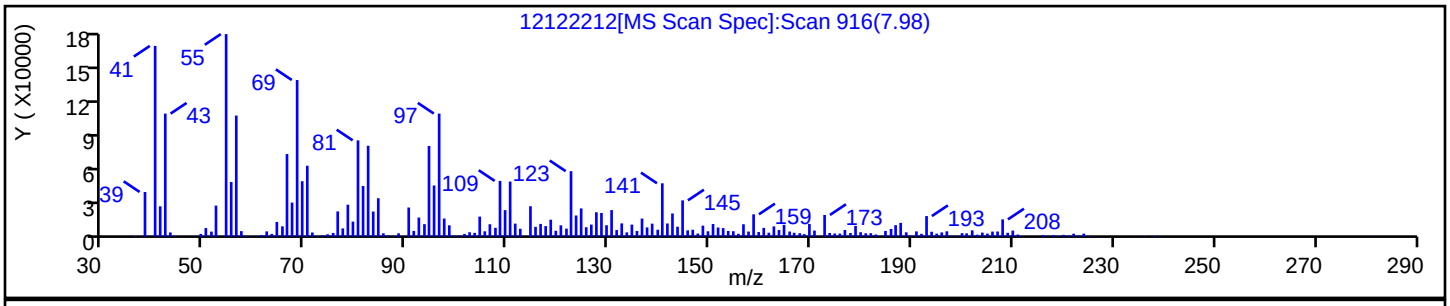
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

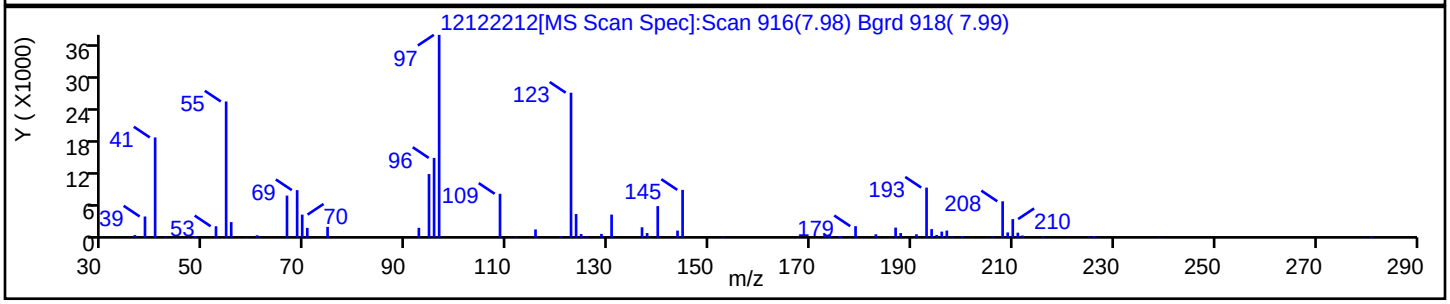
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.970

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.066

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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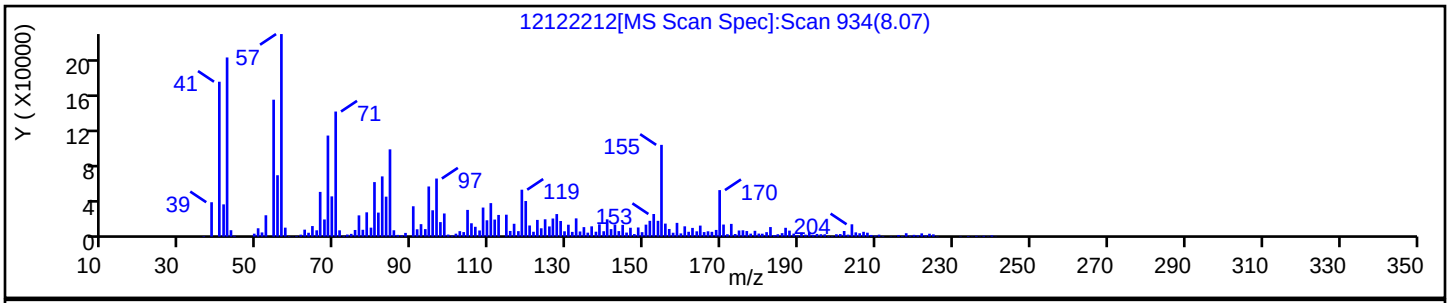
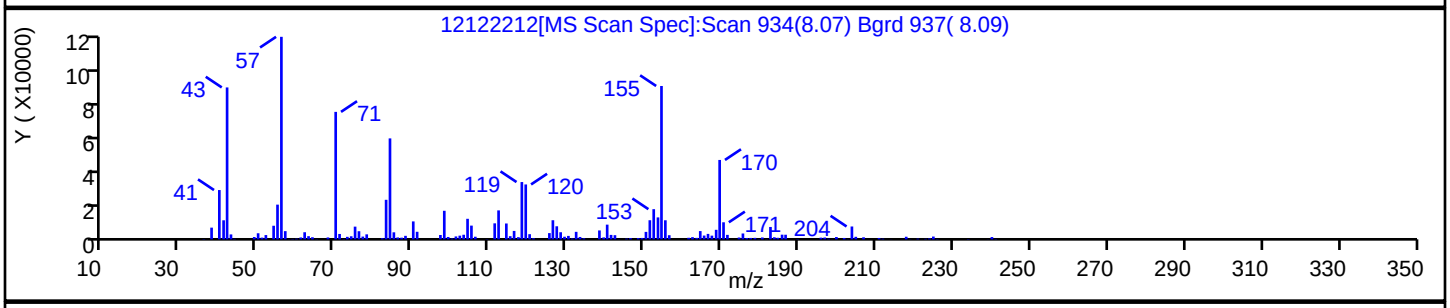
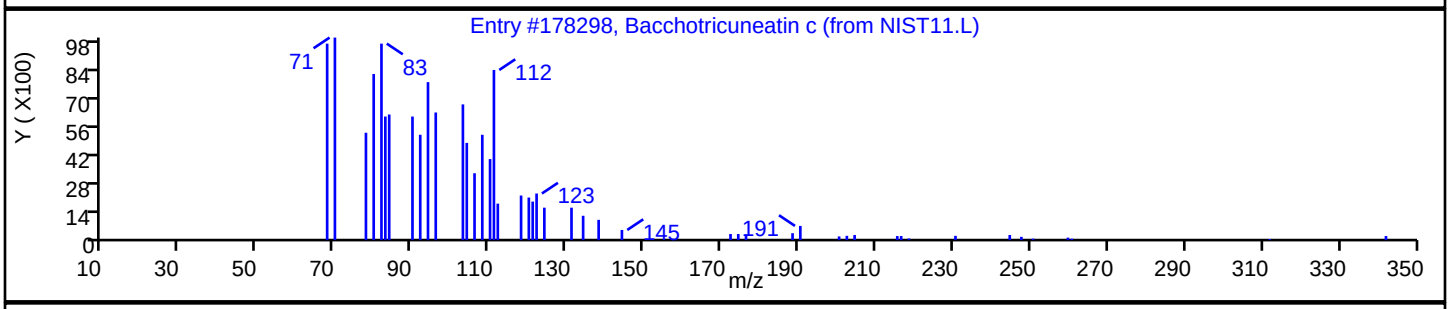
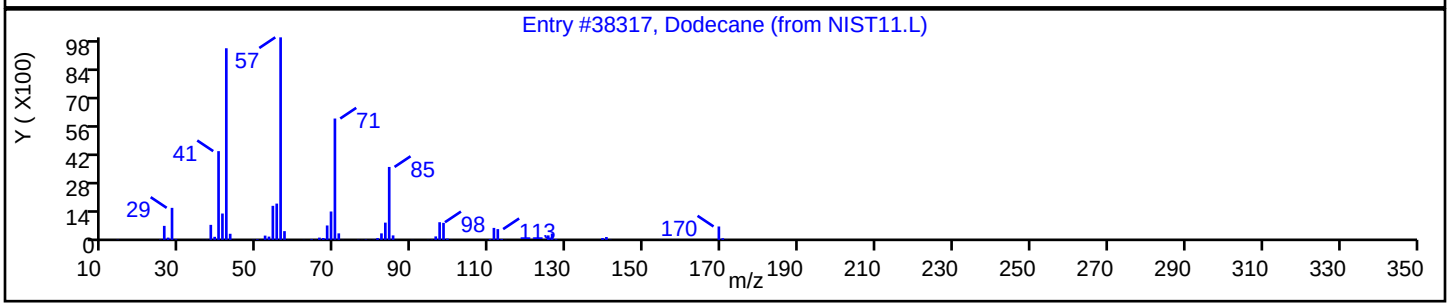
Dodecane	112-40-3	NIST11	38317	C12H26	170	89









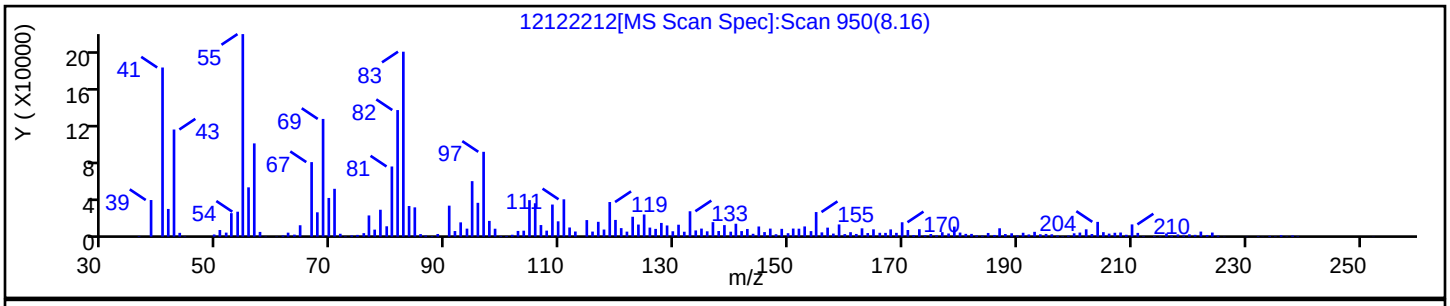
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

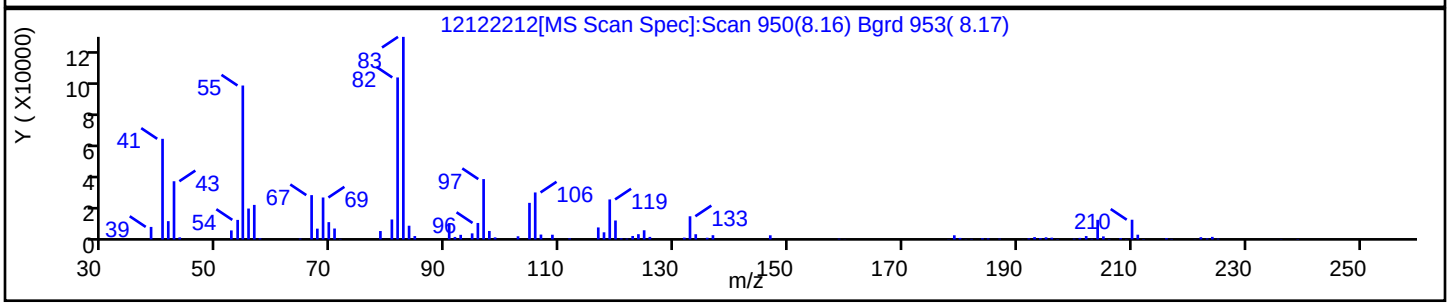
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.152

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





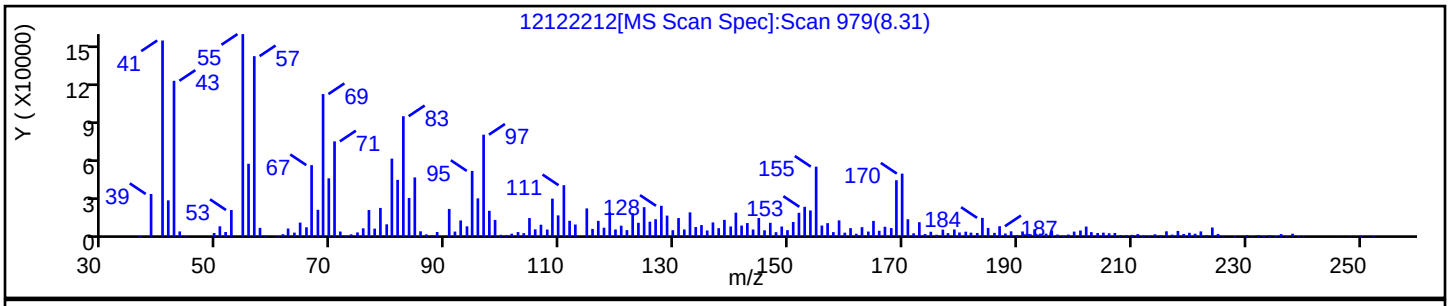
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

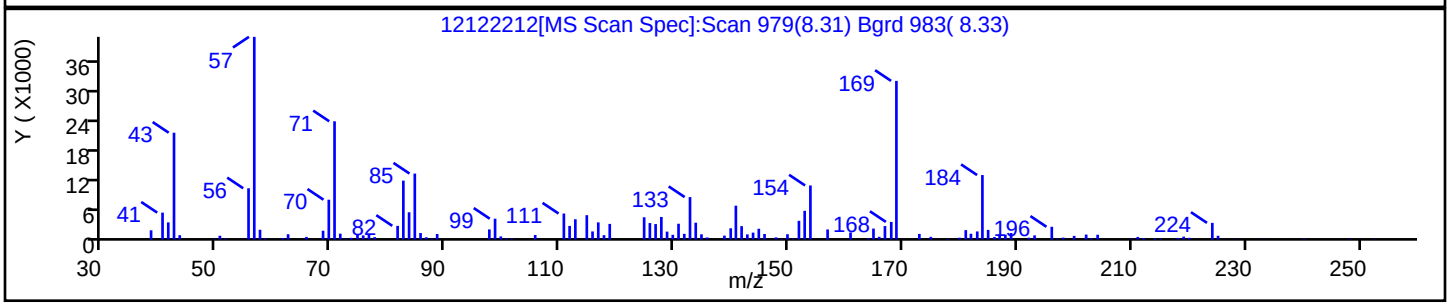
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.306

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





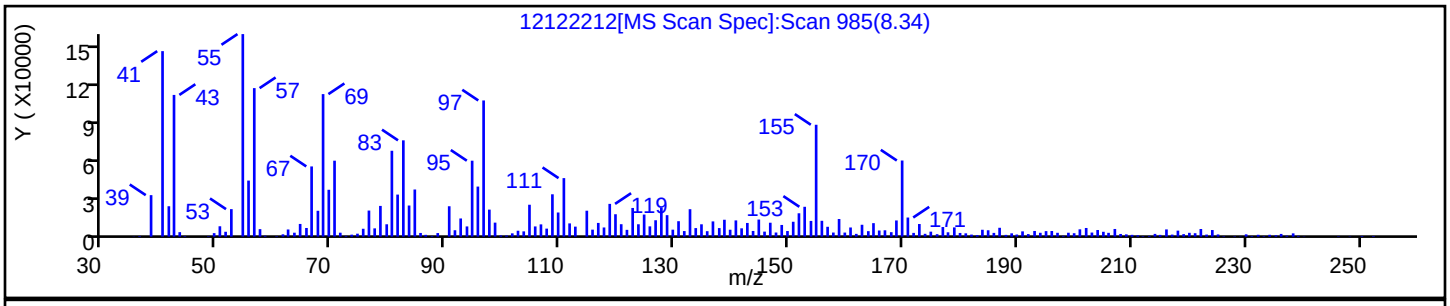
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

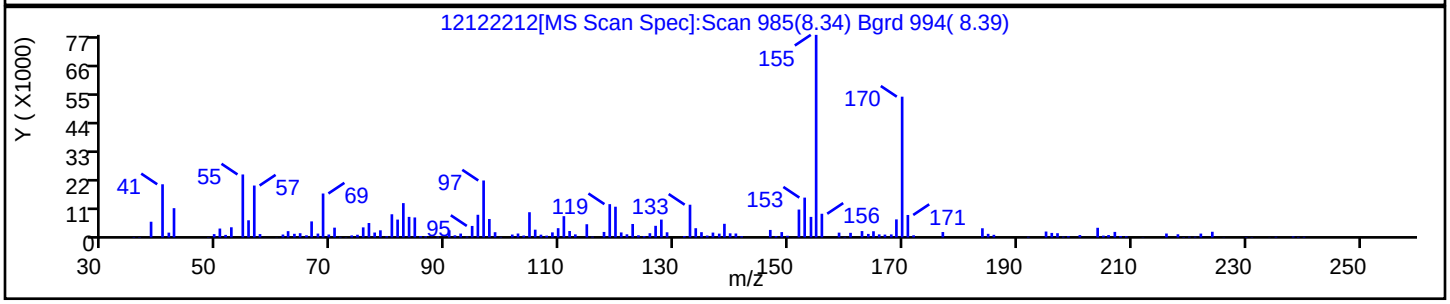
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.338

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





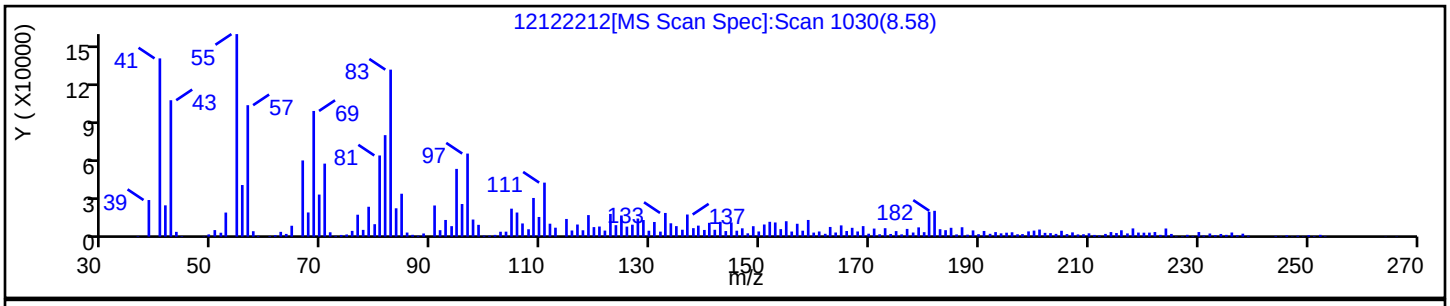
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

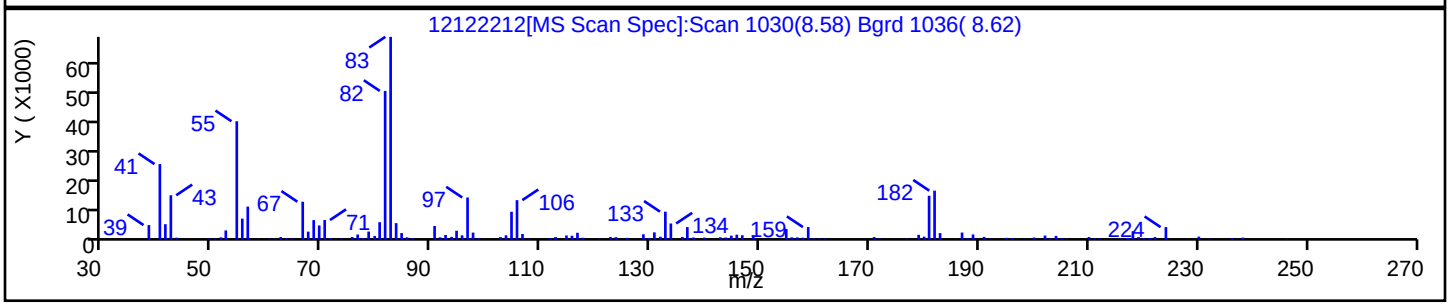
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.579

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





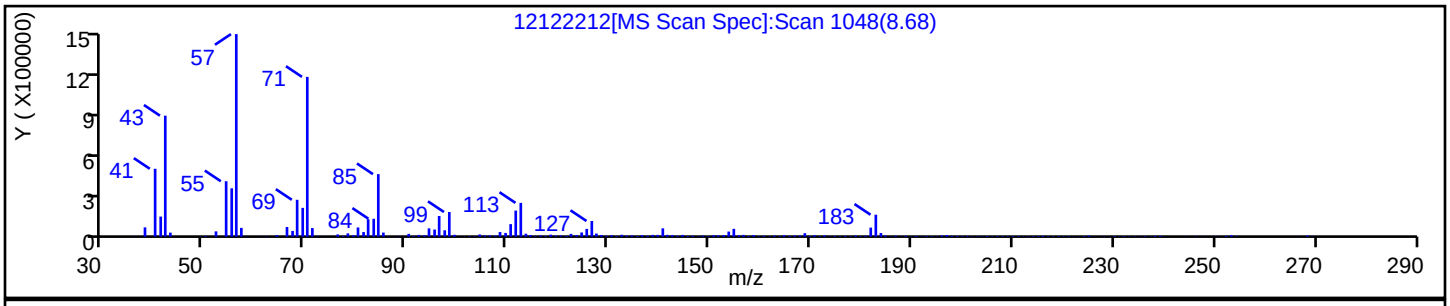
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

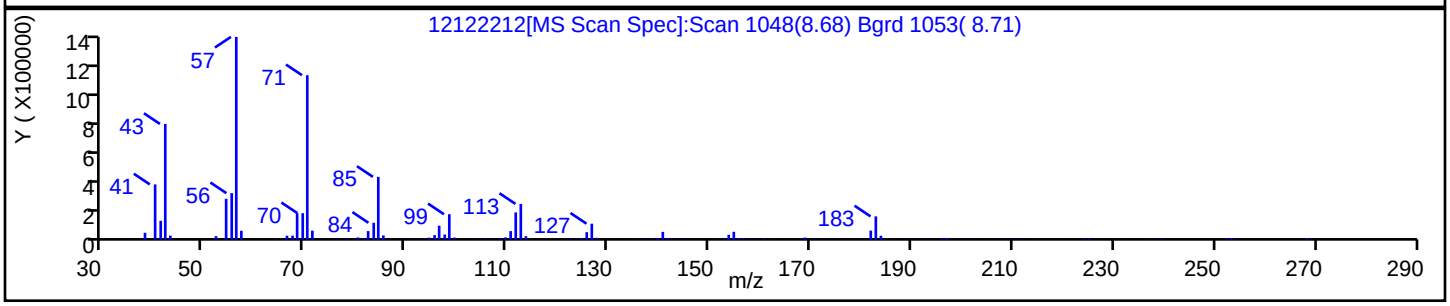
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.675

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





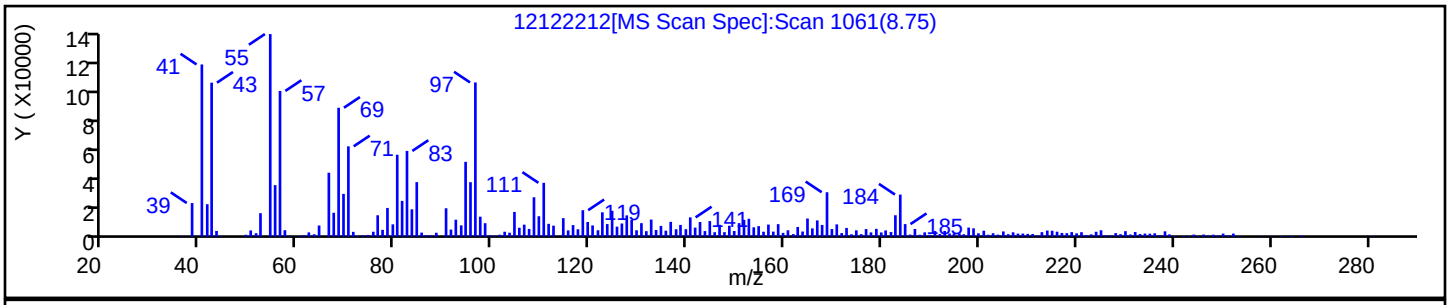
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

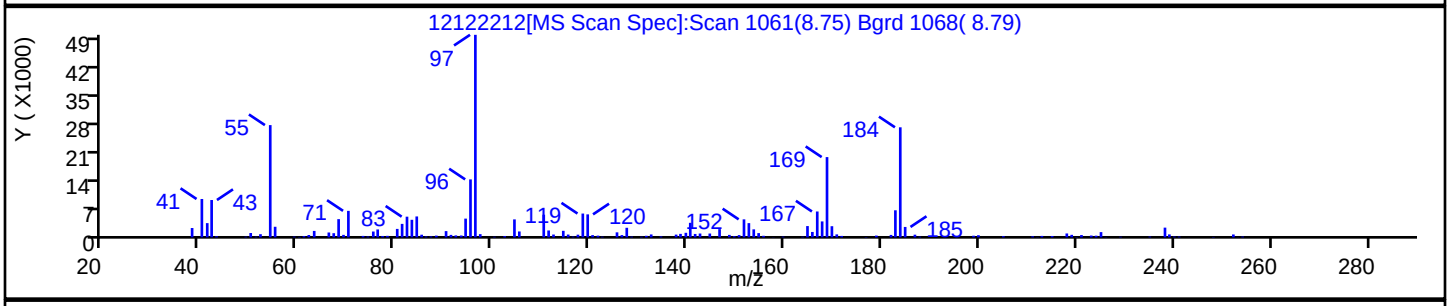
Shealy Environmental Services

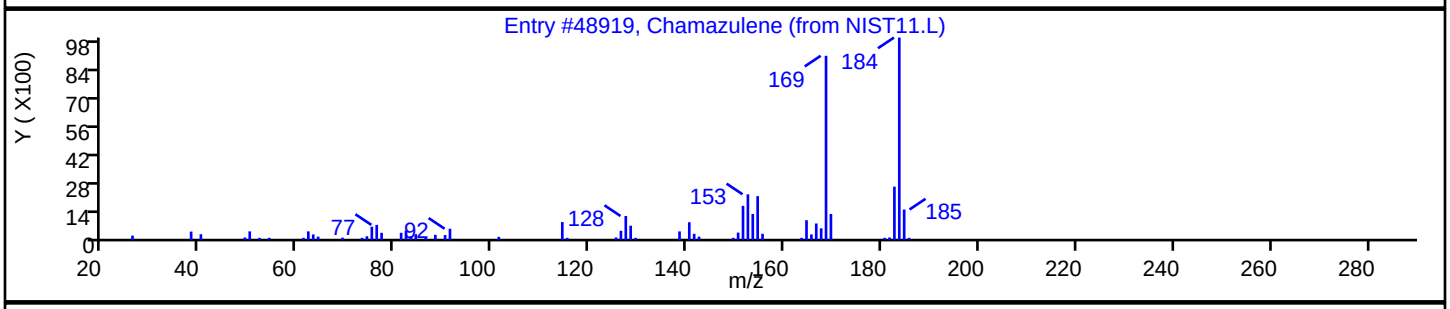
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

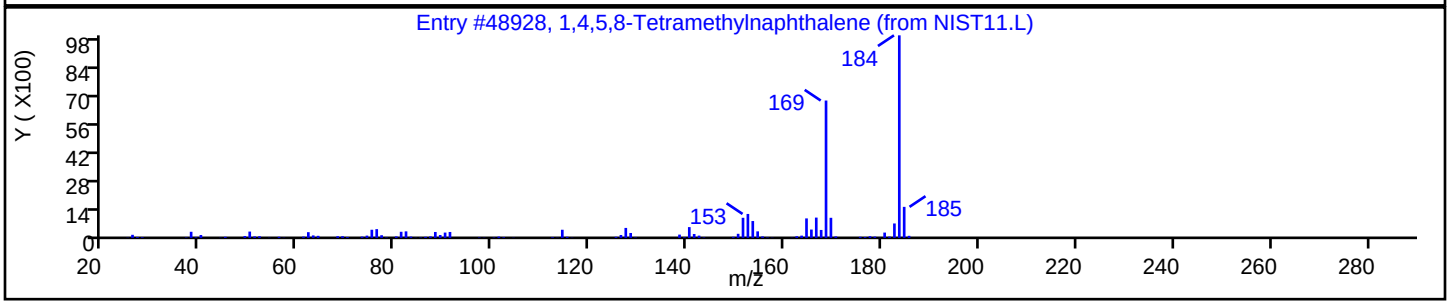
TIC @ 8.744

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Chamazulene	529-05-5	NIST11	48919	C14H16	184	92
1,4,5,8-Tetramethylnaphthalene	2717-39-7	NIST11	48928	C14H16	184	91









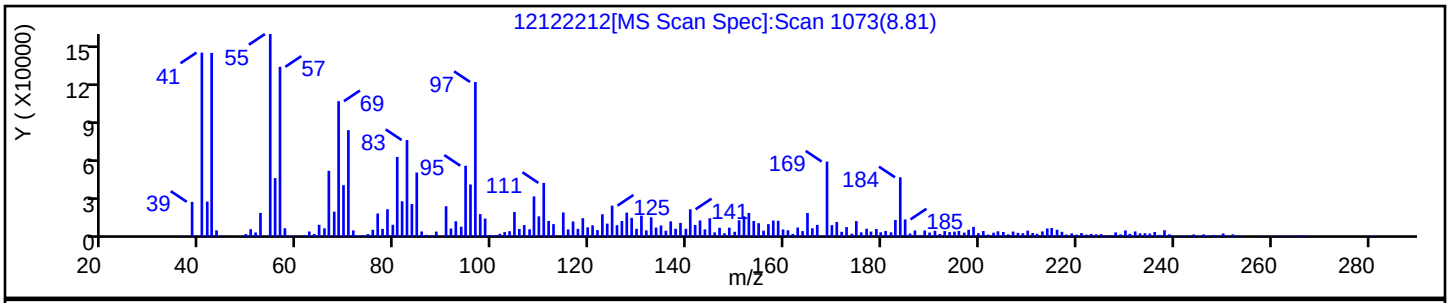
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

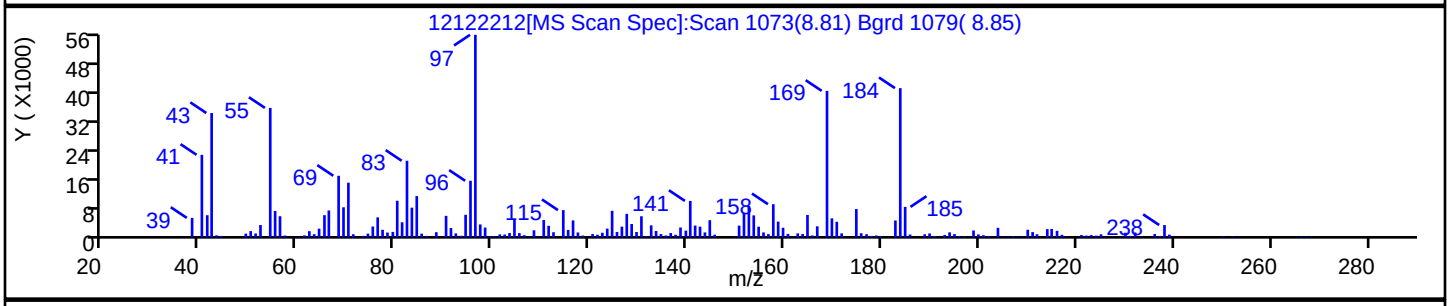
Shealy Environmental Services

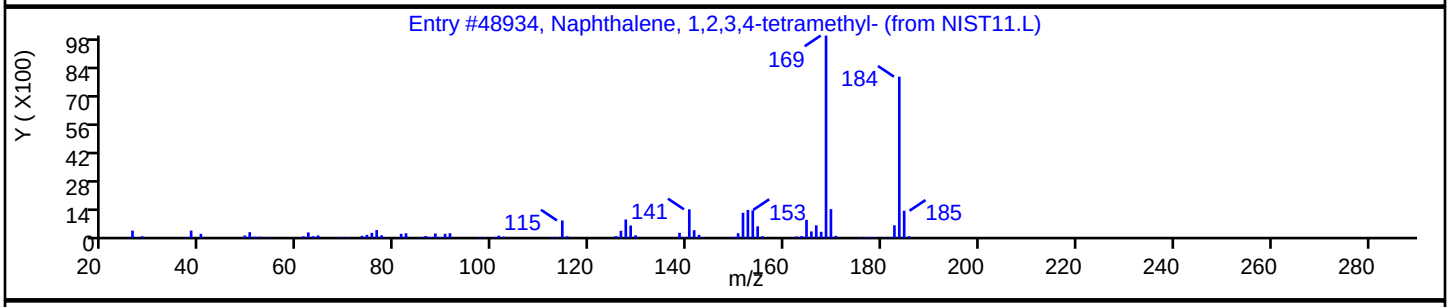
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

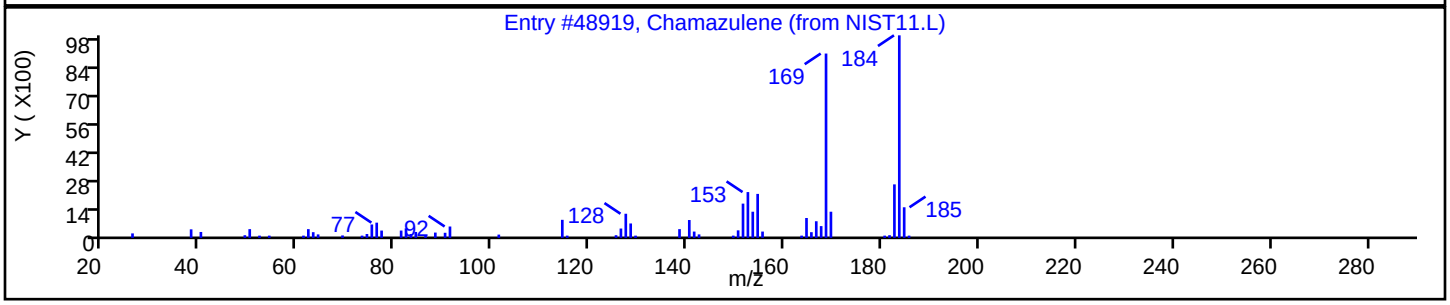
TIC @ 8.809

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2,3,4-tetramethyl-	3031-15-0	NIST11	48934	C14H16	184	90
Chamazulene	529-05-5	NIST11	48919	C14H16	184	87









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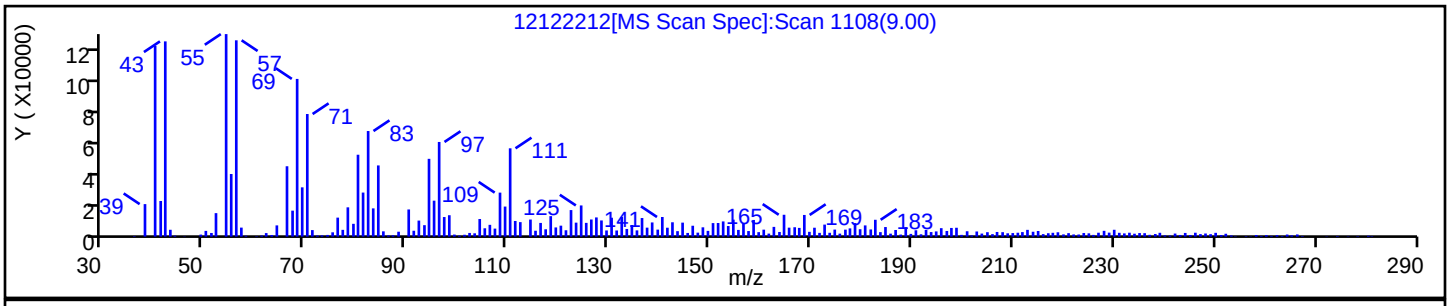
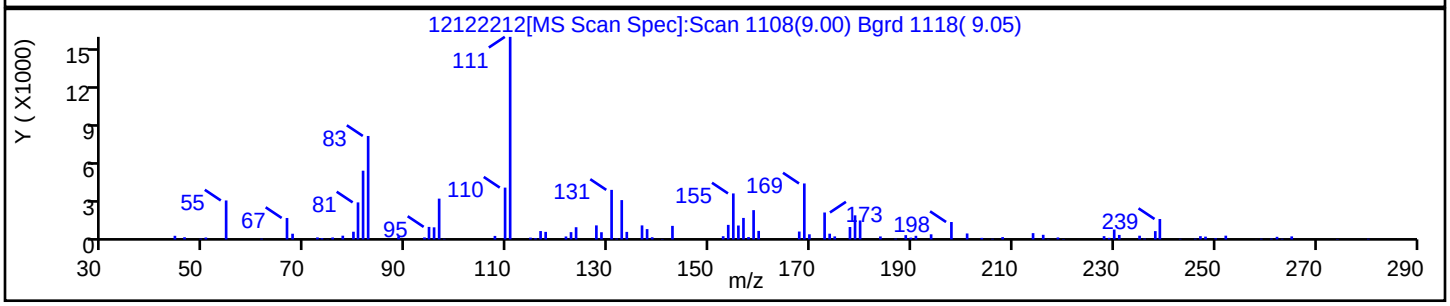
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.996

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





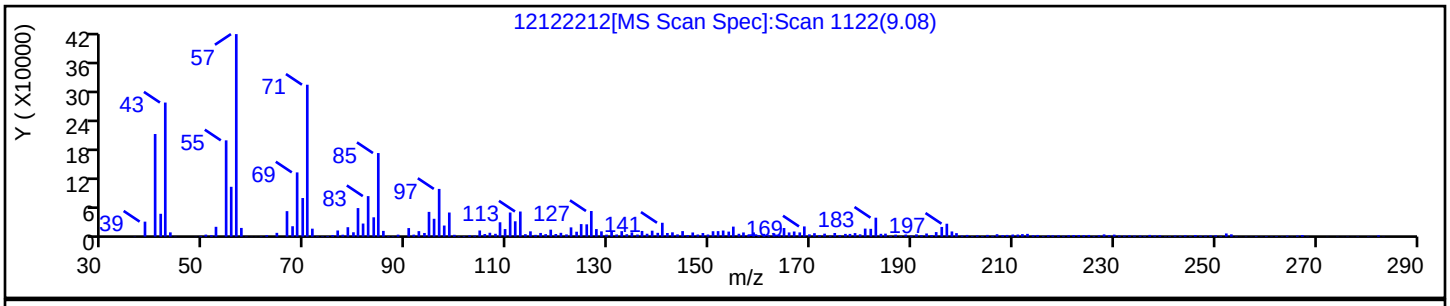
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

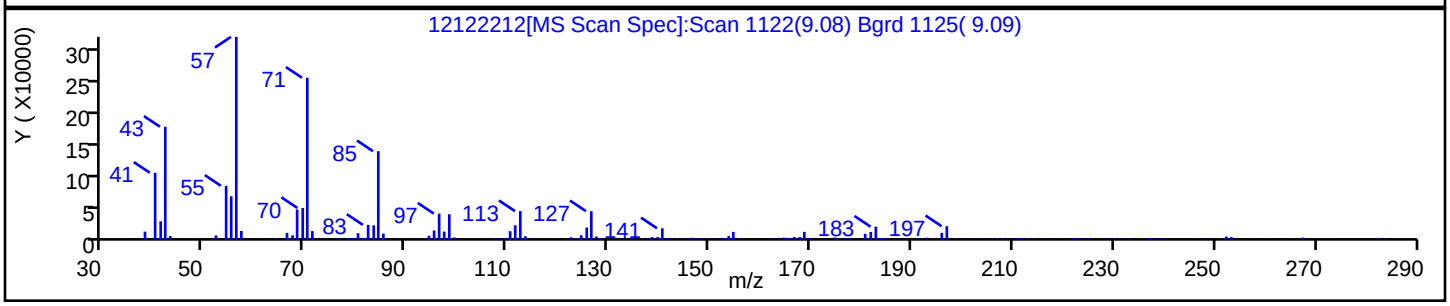
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.070

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





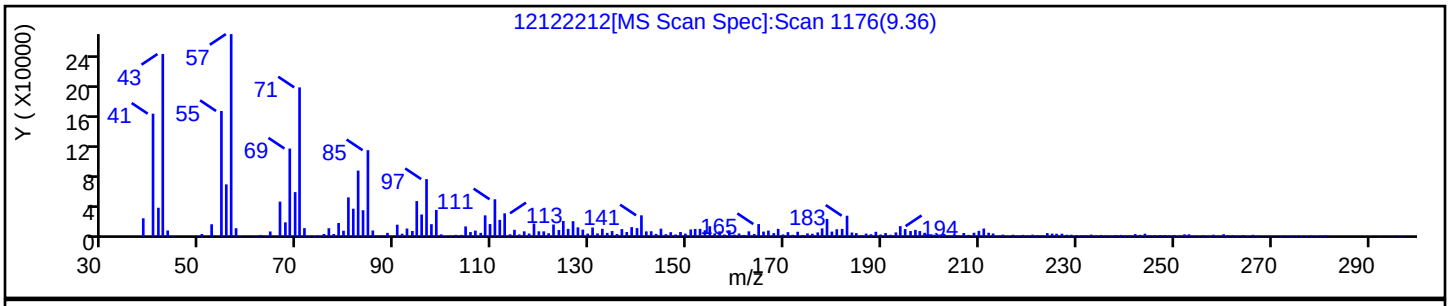
Report Date: 23-Dec-2015 09:58:02 AIM Revision: 1.0 26-May-2015 13:41:26

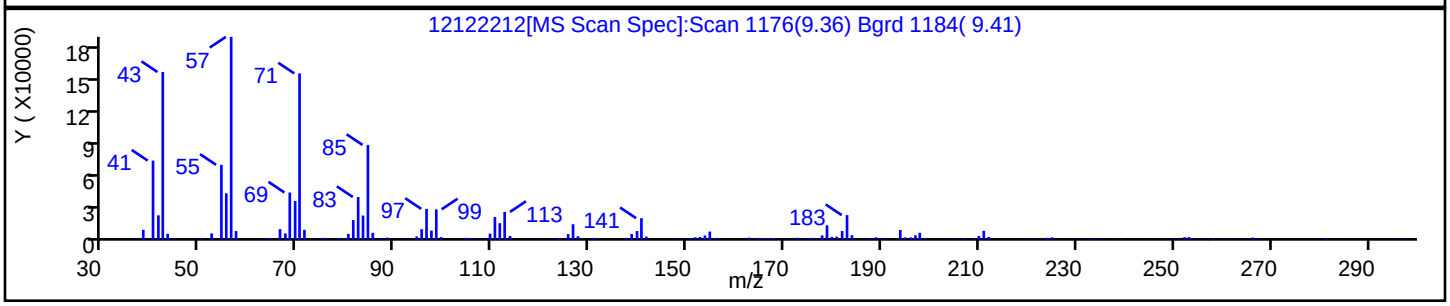
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122212.D		
Injection Date:	22-Dec-2015 14:34:30	Inst. ID:	msd12.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	12122215.b, QL12004-007		
Injection Vol.	1.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.359

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R27

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-008
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 12122311
% Solids: 85.6
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 5.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	410	U
100-52-7	Benzaldehyde	1900	U
108-95-2	Phenol	1900	U
111-44-4	Bis(2-Chloroethyl) ether	1900	U
95-57-8	2-Chlorophenol	990	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1900	U
98-86-2	Acetophenone	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-di-n propylamine	990	U
67-72-1	Hexachloroethane	990	U
98-95-3	Nitrobenzene	990	U
78-59-1	Isophorone	990	U
88-75-5	2-Nitrophenol	990	U
105-67-9	2,4-Dimethylphenol	990	U
111-91-1	Bis(2-chloroethoxy)methane	990	U
120-83-2	2,4-Dichlorophenol	990	U
91-20-3	Naphthalene	990	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	990	U
105-60-2	Caprolactam	1900	U
59-50-7	4-Chloro-3-methylphenol	990	U
91-57-6	2-Methylnaphthalene	990	U
77-47-4	Hexachlorocyclo-pentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	990	U
95-95-4	2,4,5-Trichlorophenol	990	U
92-52-4	1,1'-Biphenyl	990	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R27

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-008
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 12122311
% Solids: 85.6
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 5.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	990	U
88-74-4	2-Nitroaniline	990	U
131-11-3	Dimethylphthalate	990	U
606-20-2	2,6-Dinitrotoluene	990	U
208-96-8	Acenaphthylene	990	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	990	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	990	U
121-14-2	2,4-Dinitrotoluene	990	U
84-66-2	Diethylphthalate	990	U
95-94-3	1,2,4,5-Tetrachlorobenzene	990	U
7005-72-3	4-Chlorophenyl-phenyl ether	990	U
86-73-7	Fluorene	990	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
101-55-3	4-Bromophenyl-phenylether	990	U
86-30-6	N-Nitrosodiphenylamine	990	U
118-74-1	Hexachlorobenzene	990	U
1912-24-9	Atrazine	1900	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	990	U
120-12-7	Anthracene	990	U
86-74-8	Carbazole	1900	U
84-74-2	Di-n-butylphthalate	990	U
206-44-0	Fluoranthene	1900	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R27

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-008
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 12122311
% Solids: 85.6
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 5.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	990	U
85-68-7	Butylbenzylphthalate	990	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	990	U
218-01-9	Chrysene	990	U
117-81-7	Bis(2-ethylhexyl)phthalate	990	U
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo(b)fluoranthene	990	U
207-08-9	Benzo(k)fluoranthene	990	U
50-32-8	Benzo(a)pyrene	990	U
193-39-5	Indeno(1,2,3-cd)pyrene	990	U
53-70-3	Dibenzo(a,h)anthracene	990	U
191-24-2	Benzo(g,h,i)perylene	990	U
58-90-2	2,3,4,6-Tetrachlorophenol	990	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R27

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-008
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 12122311
% Solids: 85.6
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Y
Date Analyzed: 12/23/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 500 (uL)
Heated Purge: (Y/N)
Extraction Type: SONC
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types: GPC
pH: Dilution Factor: 5.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	54676-39-0	Cyclohexane, 2-butyl-1,1,3-	6.72	1600	NJ
02		Unknown-01	6.85	1900	J
03		Unknown-02	6.93	3200	J
04		Unknown-03	6.99	1400	J
05		Unknown-04	7.02	1600	J
06		Unknown-05	7.10	1900	J
07		Unknown-06	7.13	2700	J
08		Unknown-07	7.19	1400	J
09		Unknown-08	7.23	2300	J
10		Unknown-09	7.30	1500	J
11		Unknown-10	7.34	1700	J
12		Unknown-11	7.39	1500	J
13		Unknown-12	7.43	960	J
14		Unknown-13	7.45	1200	J
15		Unknown-14	7.48	1600	J
16		Unknown-15	7.52	930	J
17		Unknown-16	7.59	2400	J
18		Unknown-17	7.74	1900	J
19	107997-59-1	1-(3-Methylbutyl)-2,3,4-	7.77	1100	NJ
20	41446-68-8	3-Tetradecene, (E)-	7.84	1300	NJ
21		Unknown-18	7.91	1600	J
22		Unknown-19	8.15	1300	J
23		Unknown-20	8.24	1800	J
24		Unknown-21	8.37	980	J
25		Unknown-22	8.56	1300	J
26		Unknown-23	8.65	1700	J
27		Unknown-24	8.67	1300	J
28		Unknown-25	8.81	1500	J
29		Unknown-26	8.88	1600	J
30		Unknown-27	9.02	1200	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Lab Sample ID:	QL12004-008	Client Sample ID:	F6R27
Injection Date:	23-Dec-2015 13:10:30	Dil. Factor:	5.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL12004-008		
Misc. Info:	92512 5X		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	13
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.0000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.200	Weight of sample extracted (g)
M	14.400	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 15:23:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 3 Phenol-d5	99.0	5.118	5.123	-0.005	142291	3.9592	765.77	e
108 1,4-Dioxane	88.0		3.333		ND			
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	2956	0.22487	43.493	eR
4 Phenol	94.0		5.133		ND			
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	90713	3.7422	723.80	Qe
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.294	5.299	-0.005	99794	4.1970	811.75	e
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	392364	20.000	3868.29	
10 2-Methylphenol	108.0		5.614		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.700	5.710	-0.010	109701	4.2022	812.77	e
14 4-Methylphenol	108.0		5.737		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.913	-0.005	54201	3.7702	729.21	e
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.170		ND			
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	56210	3.4143	660.38	Qe
19 2-Nitrophenol	139.0		6.186		ND			

Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122311.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.357	6.367	-0.010	91148	3.7715	729.46	e
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.512	6.517	-0.005	1662890	20.000	3868.29	Q
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.533	6.544	-0.011	115909	3.1815	615.35	Qe
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.687	-0.011	277918	4.6961	908.29	e
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.874	-0.011	368399	4.7047	909.96	e
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	906042	20.000	3868.29	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0	8.024	8.039	-0.015	104542	7.2253	1397.47	Qe
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0	8.430	8.435	-0.005	246797	4.4447	859.68	e
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.456	8.472	-0.016	51910	3.4484	666.97	Qe
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.274	-0.006	1653910	20.000	3868.29	
59 Phenanthrene	178.0		9.295		ND			
$ 103 Anthracene-d10	188.0	9.311	9.322	-0.011	452003	5.3606	1036.82	
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			

Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122311.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 104 Pyrene-d10	212.0	10.631	10.641	-0.010	452709	5.9310	1147.15	
64 Pyrene	202.0		10.663		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1749334	20.000	3868.29	
70 Chrysene	228.0		12.222		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.814		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.301	14.322	-0.021	380732	4.5722	884.34	e
75 Benzo(a)pyrene	252.0		14.375		ND			
* 76 Perylene-d12	264.0	14.450	14.466	-0.016	1717755	20.000	3868.29	
77 Indeno(1,2,3-cd)pyrene	276.0		16.630		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Lab Sample ID:	QL12004-008	Client Sample ID:	F6R27
Injection Date:	23-Dec-2015 13:10:30	Dil. Factor:	5.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL12004-008		
Misc. Info:	92512 5X		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	13
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.0000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.200	Weight of sample extracted (g)
M	14.400	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 15:23:30

Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
54676-39-0 Cyclohexane, 2-butyl-1,1,3-trimethyl-								
6.715	2105537	8.3948	1623.67	23	87	47298	C13H26	182
Unknown								
6.848	2441888	9.7358	1883.05	23				
Unknown								
6.929	4182708	16.676	3225.47	23				
Unknown								
6.993	1825150	7.2769	1407.46	23				
Unknown								
7.019	2073612	8.2675	1599.05	23				
Unknown								
7.099	2500355	9.9689	1928.14	23				
Unknown								
7.126	3541381	14.119	2730.92	23				
Unknown								
7.185	1767613	7.0475	1363.09	23				
Unknown								
7.228	3020580	12.043	2329.30	23				
Unknown								
7.302	2526449	7.9053	1529.01	41				
Unknown								
7.335	2766530	8.6566	1674.31	41				

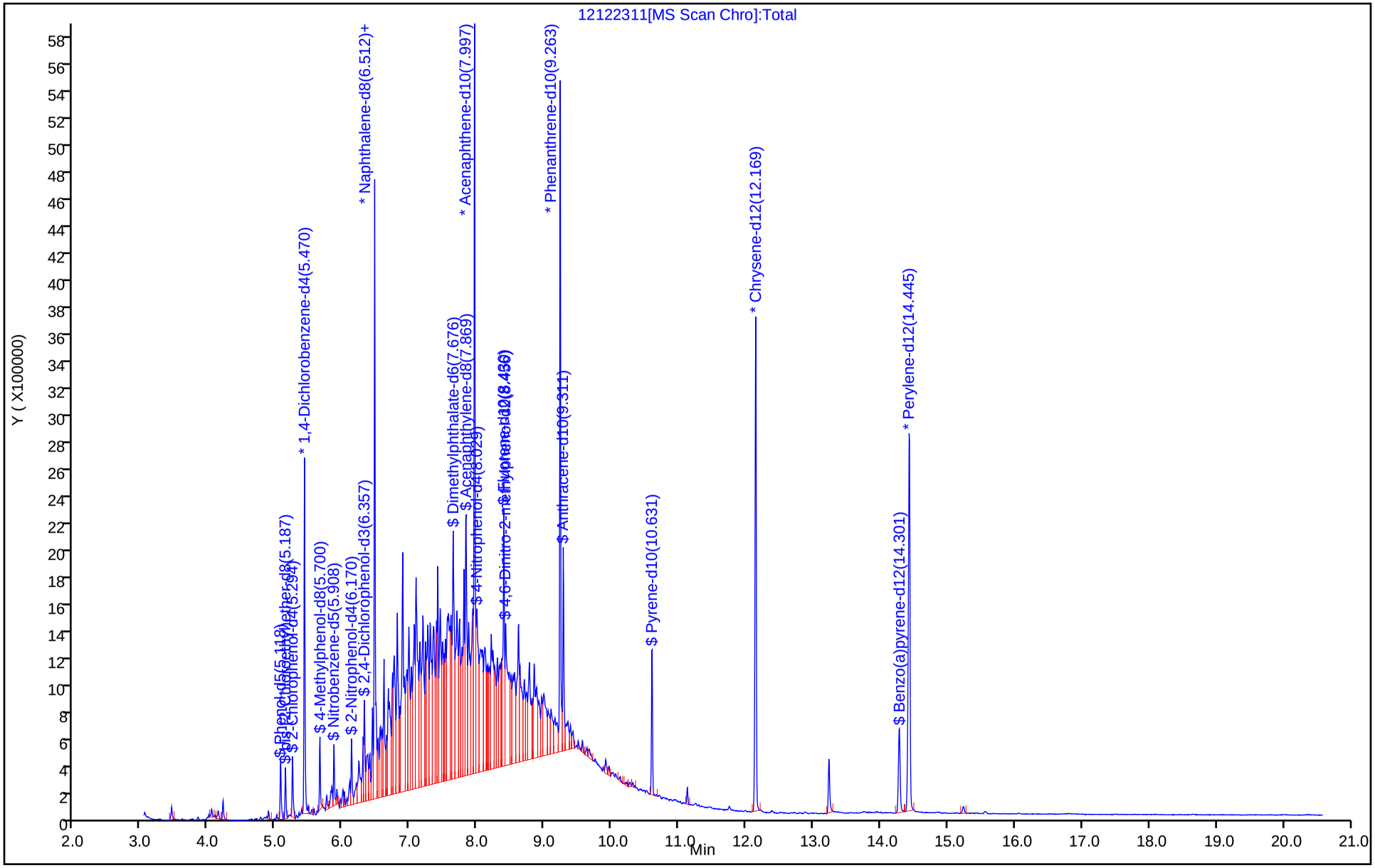
RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
7.388	2531266	7.9204	1531.92	41				
	Unknown							
7.431	1590695	4.9773	962.69	41				
	Unknown							
7.447	1941779	6.0759	1175.17	41				
	Unknown							
7.484	2628550	8.2248	1590.80	41				
	Unknown							
7.522	1532560	4.7954	927.51	41				
	Unknown							
7.591	3943824	12.340	2386.80	41				
	Unknown							
7.735	3212517	10.052	1944.22	41				
107997-59-1	1-(3-Methylbutyl)-2,3,4-trimethylbenzene							
7.773	1894779	5.9288	1146.72	41	87	53177	C14H22	190
41446-68-8	3-Tetradecene, (E)-							
7.837	2221714	6.9518	1344.58	41	91	58295	C14H28	196
	Unknown							
7.906	2642603	8.2688	1599.31	41				
	Unknown							
8.147	2131495	6.6695	1289.98	41				
	Unknown							
8.243	2900333	9.0752	1755.28	41				
	Unknown							
8.366	1621364	5.0733	981.25	41				
	Unknown							
8.563	2142199	6.7030	1296.46	41				
	Unknown							
8.649	2256427	8.6886	1680.51	58				
	Unknown							
8.670	1812489	6.9792	1349.88	58				
	Unknown							
8.809	1962058	7.5551	1461.27	58				
	Unknown							
8.878	2112003	8.1325	1572.95	58				
	Unknown							
9.023	1547495	5.9588	1152.52	58				

Quant. Compounds	RT	Response	Amount ng/ul
* 23 Naphthalene-d8	6.512	5016299	20.000
* 41 Acenaphthene-d10	7.997	6391753	20.000
* 58 Phenanthrene-d10	9.268	5193974	20.000

Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D				
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R27	Lab ID:	QL12004-008		
Sample Info:	12122315.b, QL12004-008				
Injection Vol.	1.00 uL	Dil. Factor:	5.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



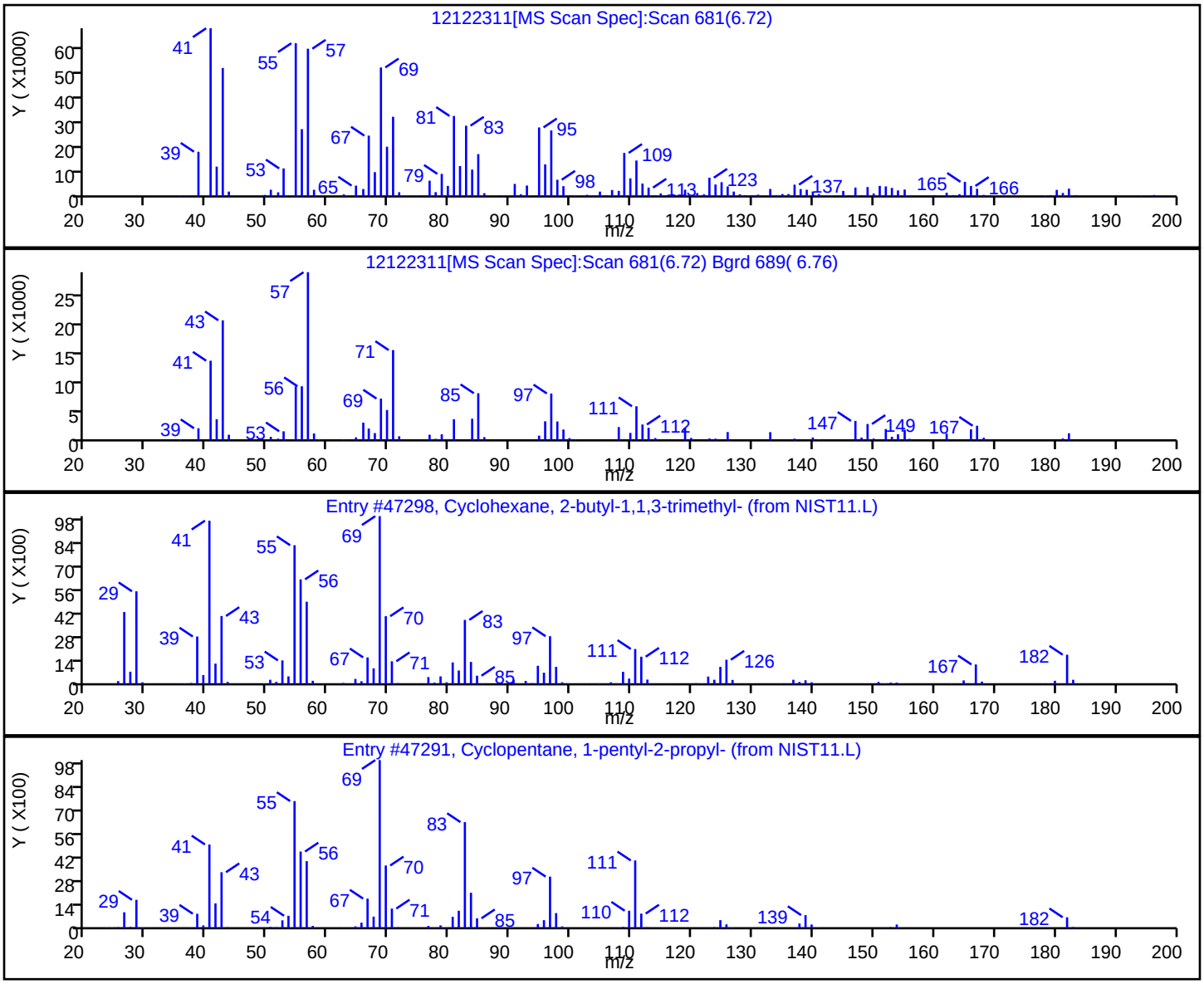
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.715

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Cyclohexane, 2-butyl-1,1,3-trimethyl-	54676-39-0	NIST11	47298	C13H26	182	87
Cyclopentane, 1-pentyl-2-propyl-	62199-51-3	NIST11	47291	C13H26	182	86



Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.848

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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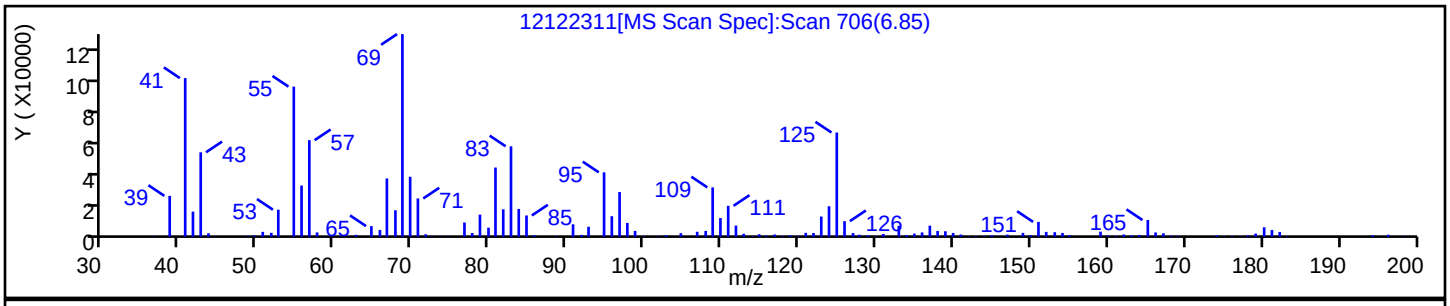
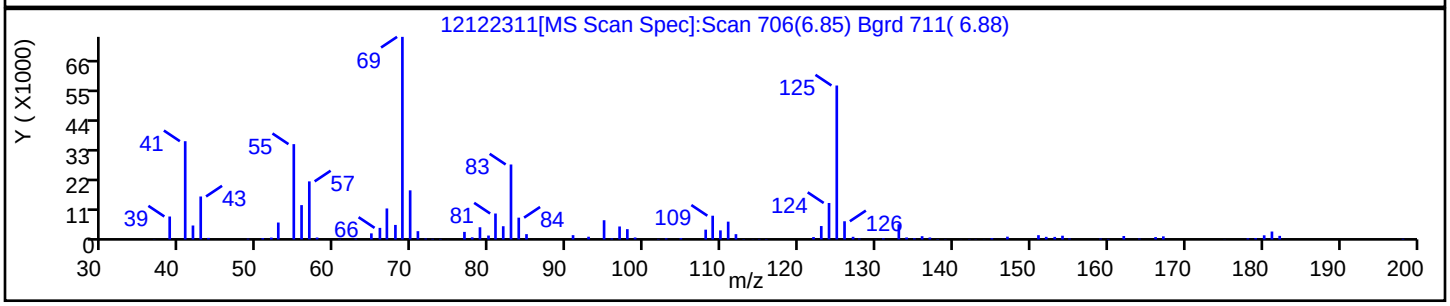




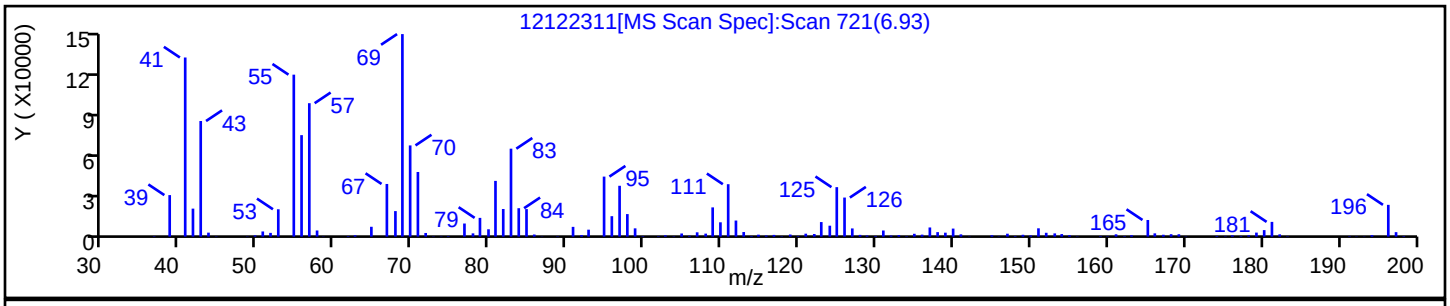
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

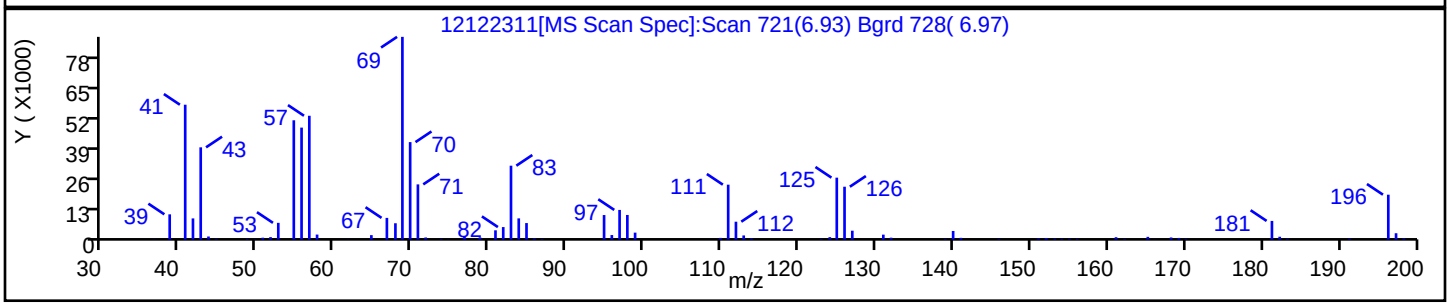
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.929

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





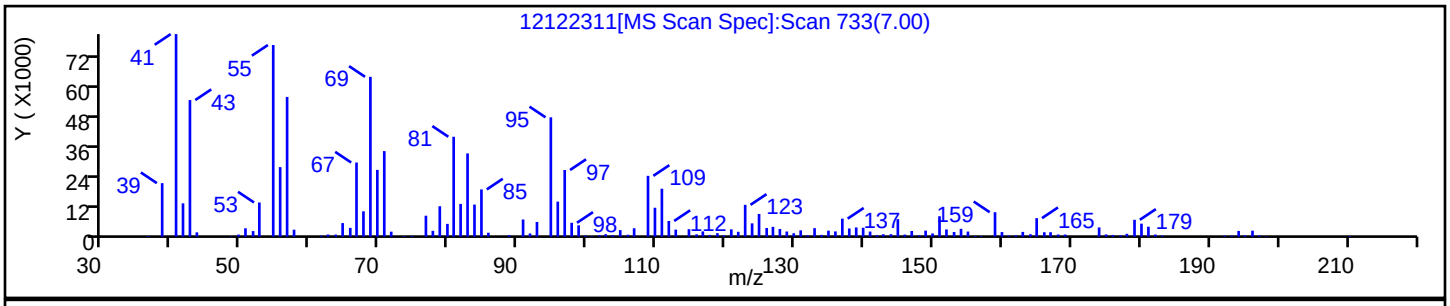
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

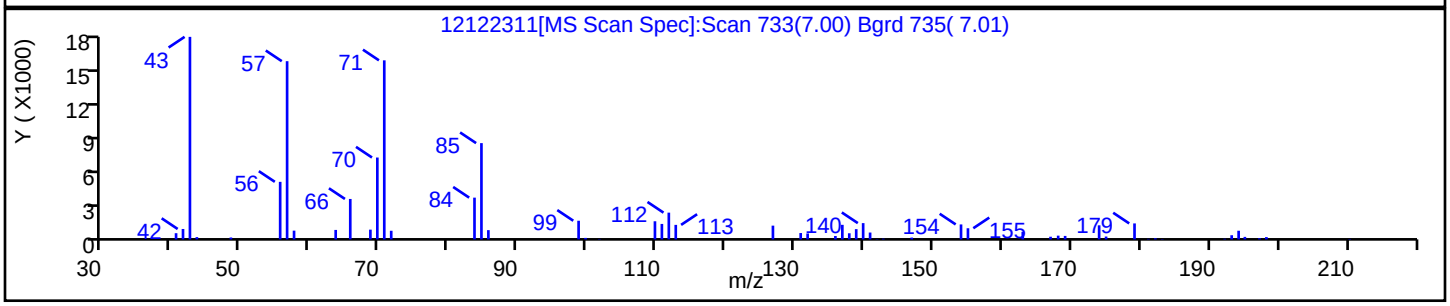
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.993

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.019

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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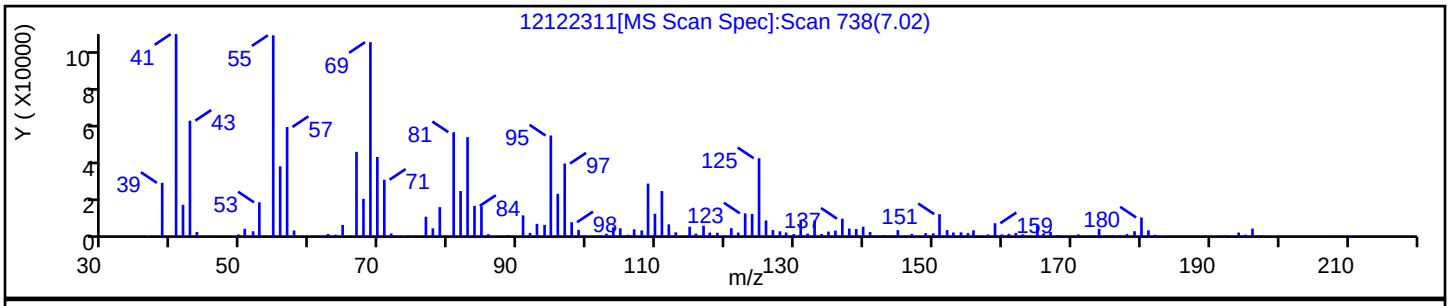
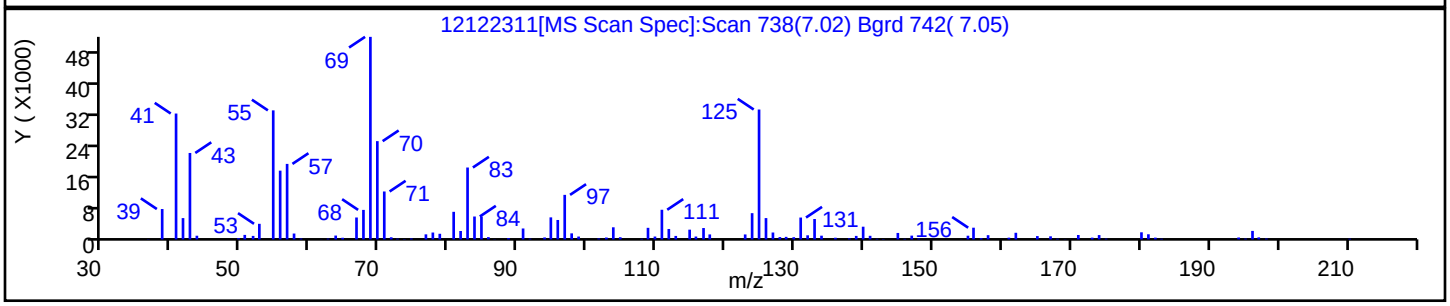




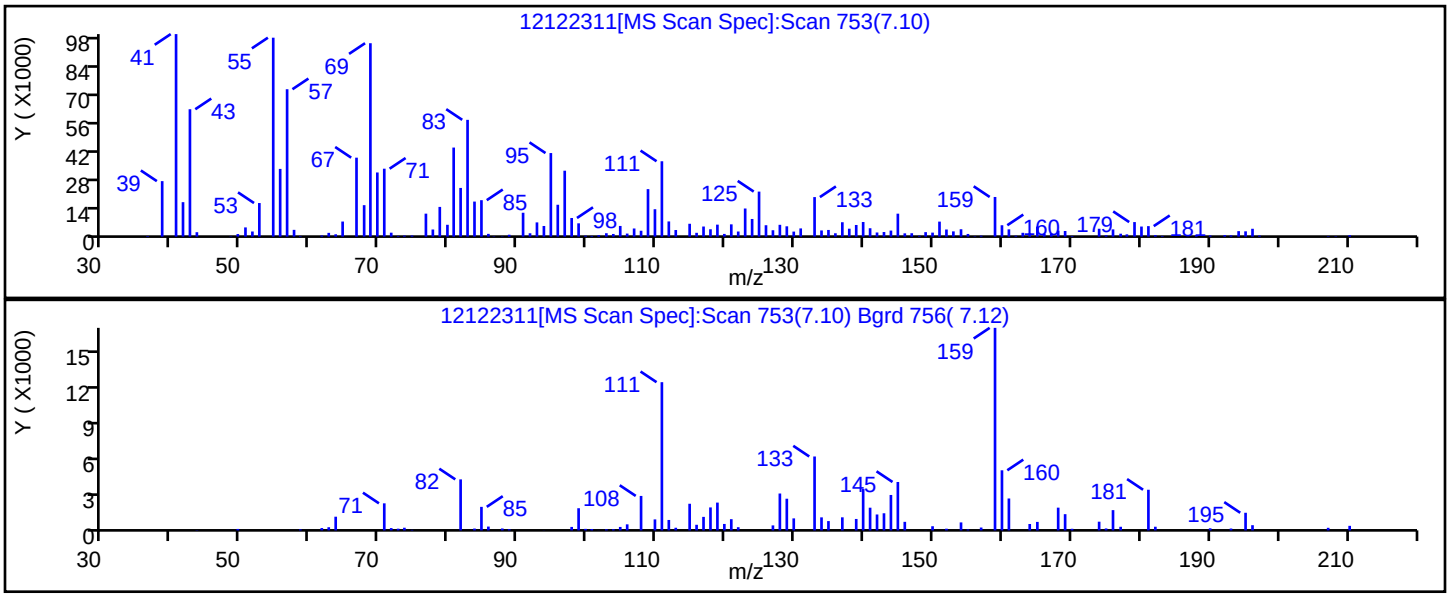
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.099

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



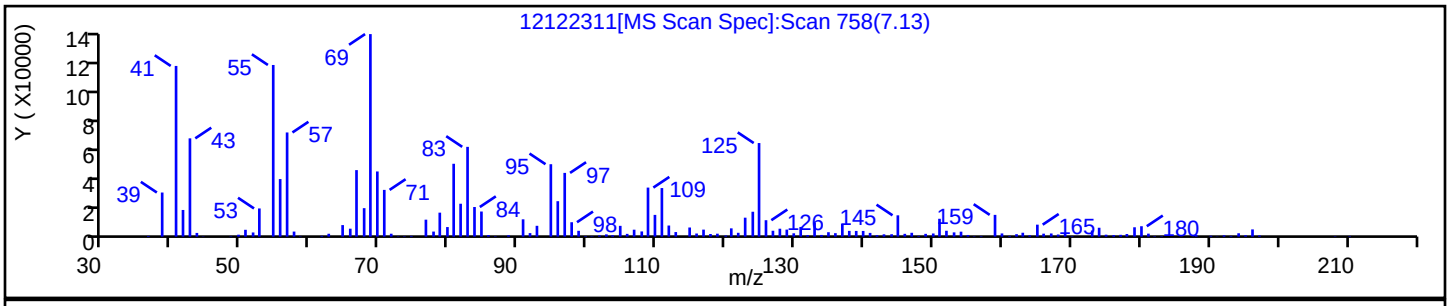
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

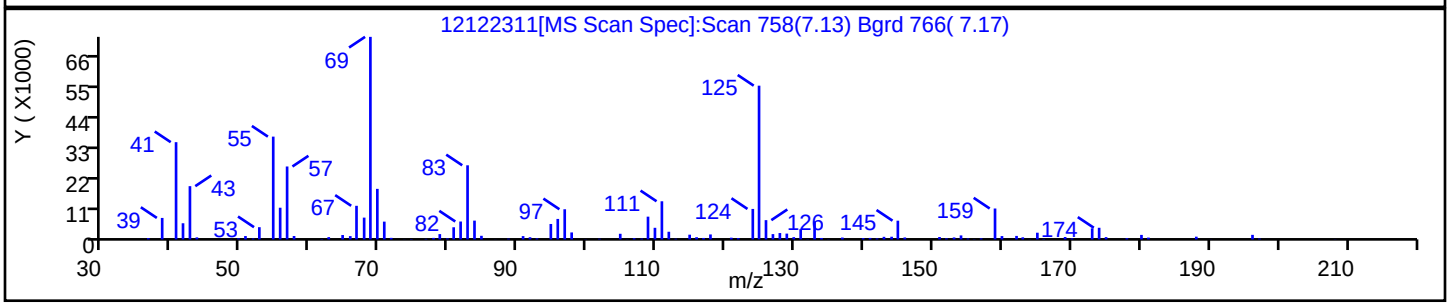
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.126

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





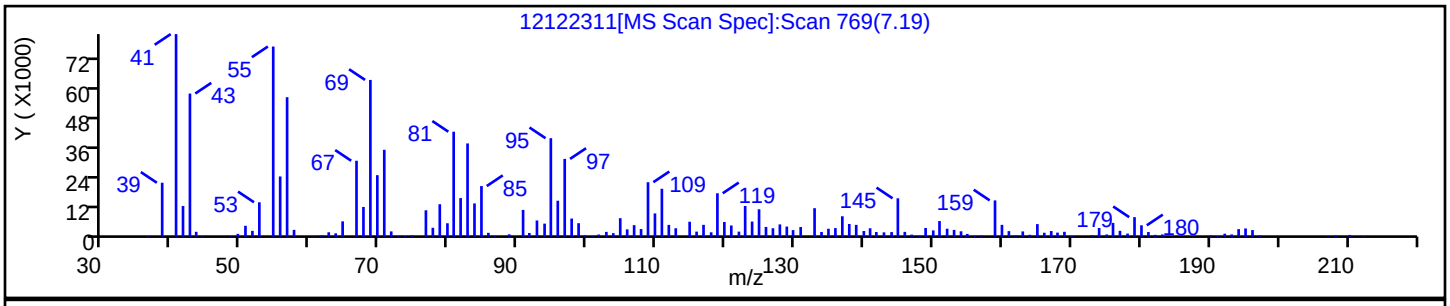
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

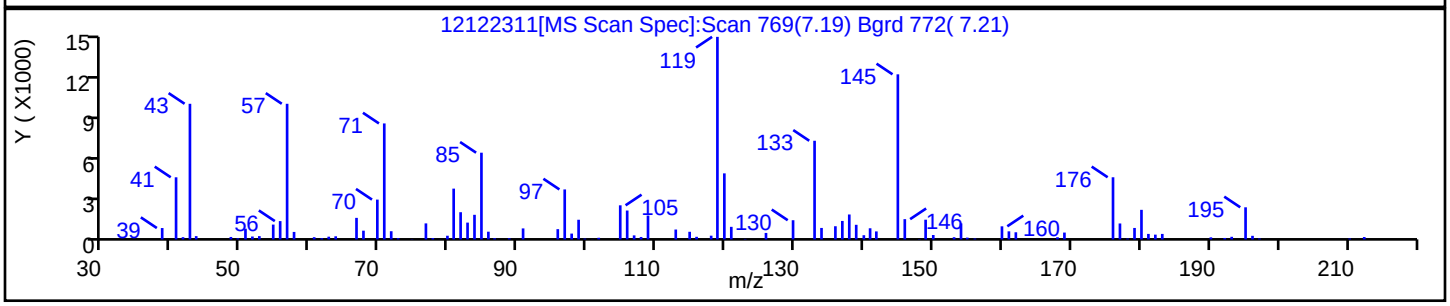
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.185

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





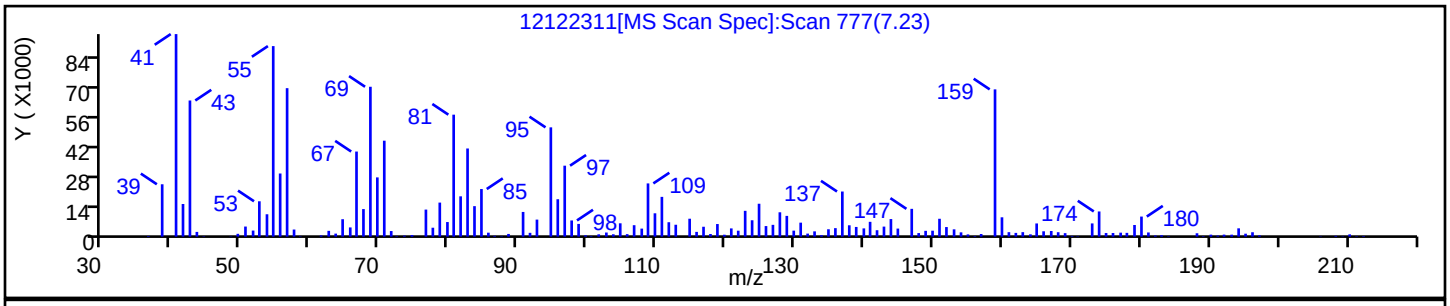
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

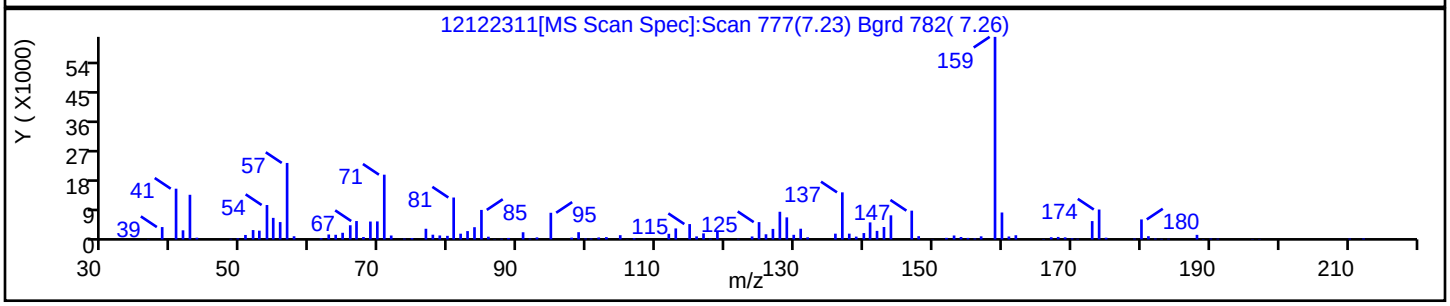
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.228

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





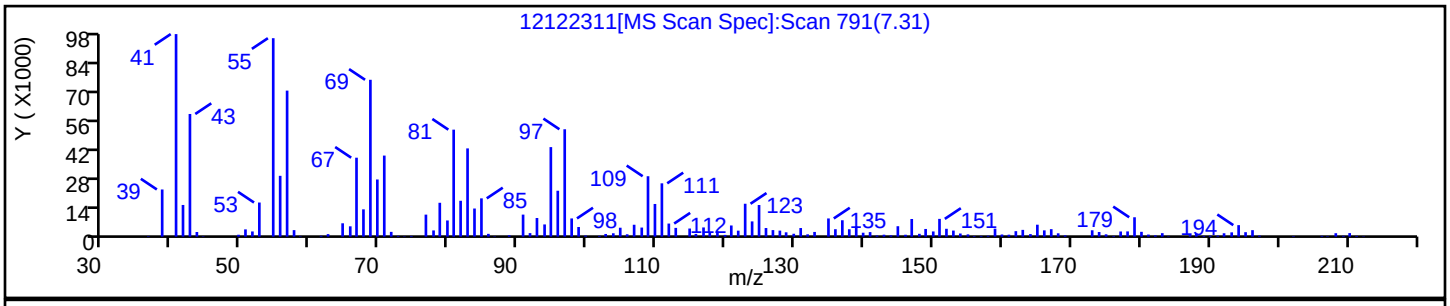
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

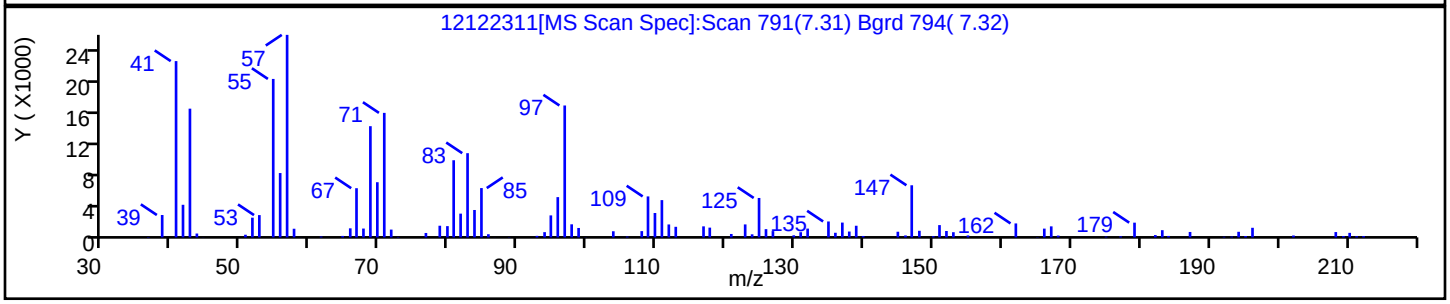
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.302

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.335

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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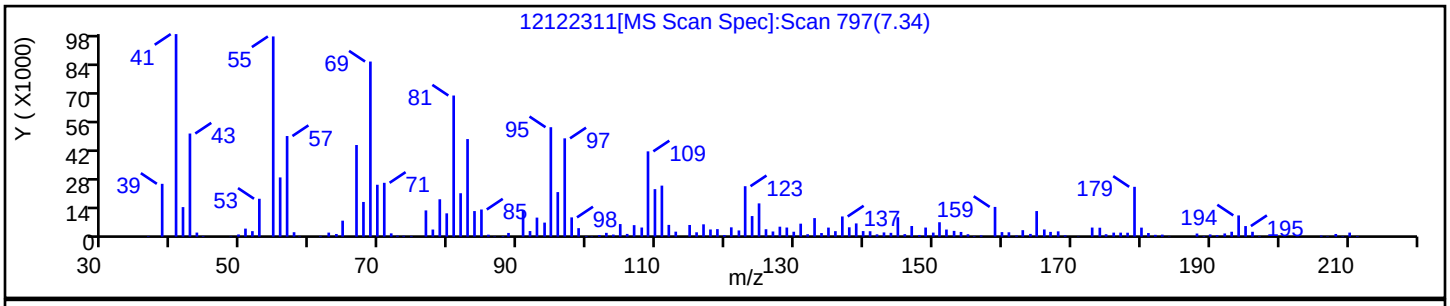

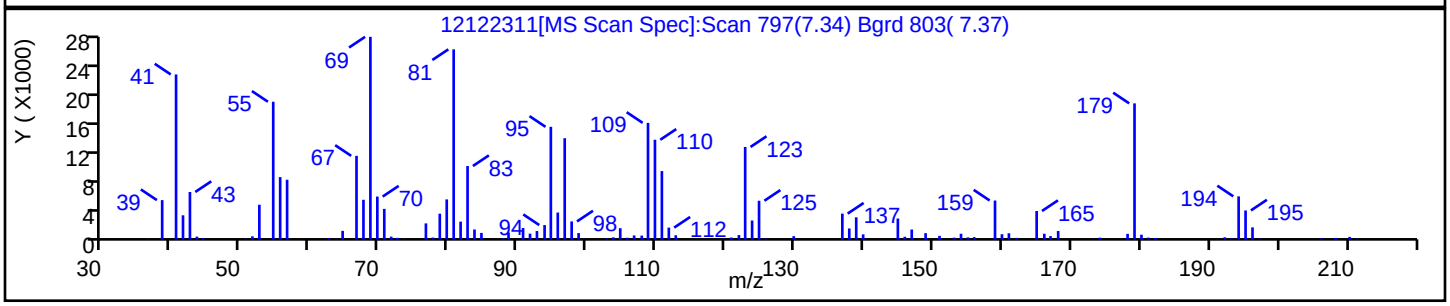

Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.388

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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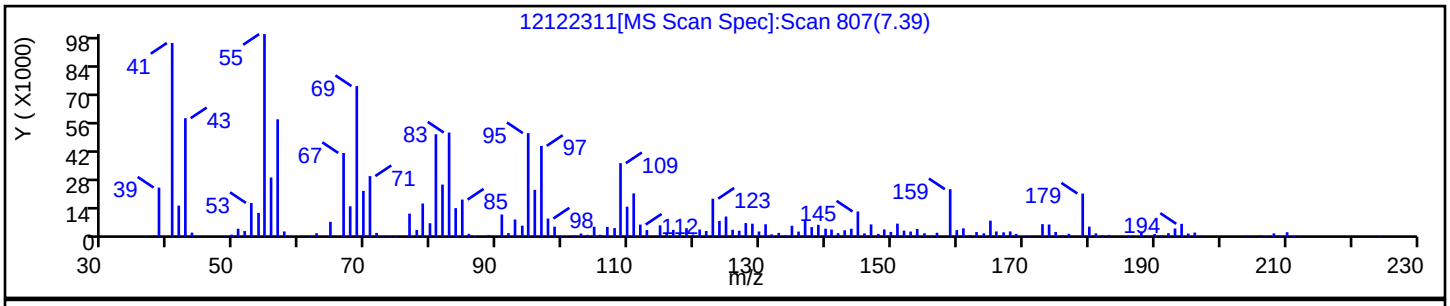

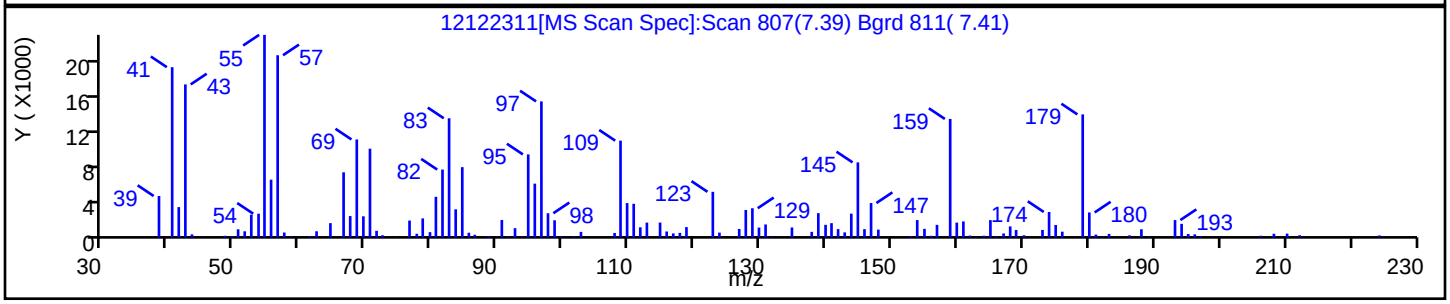

Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.431

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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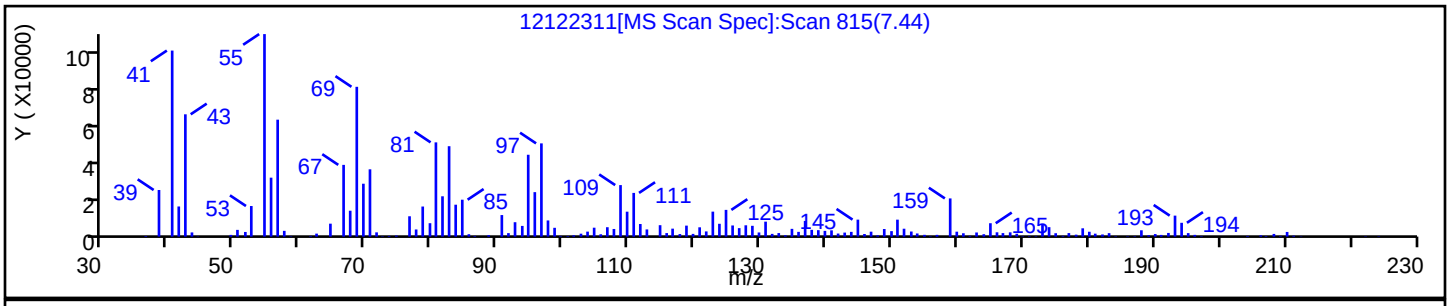

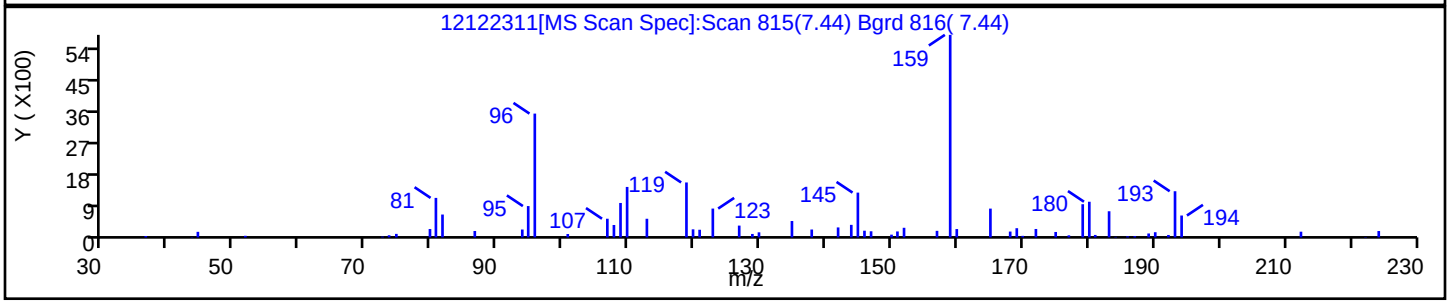

Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.447

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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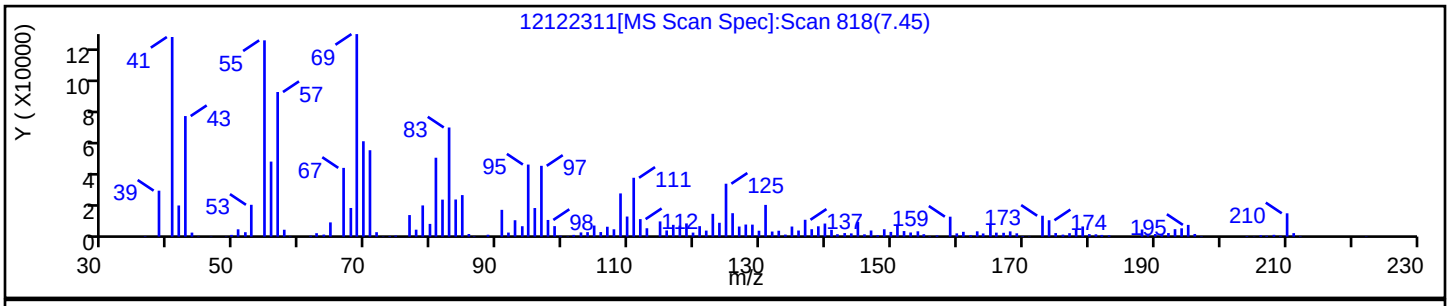

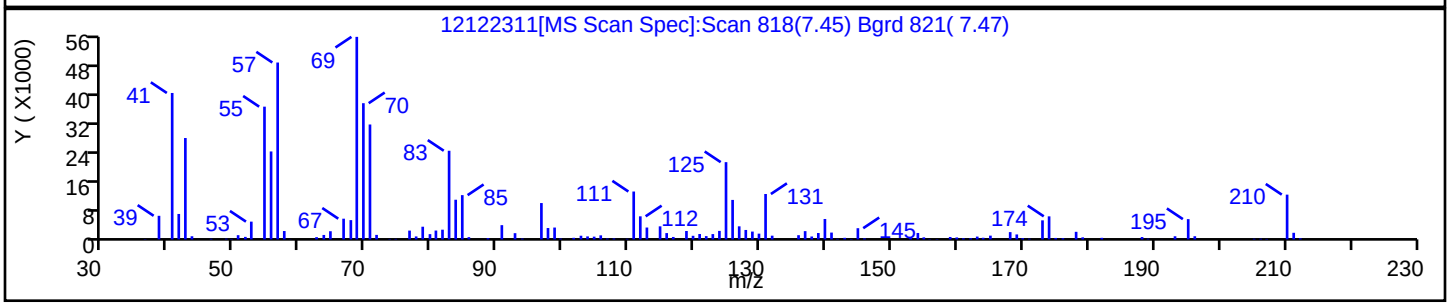

Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.484

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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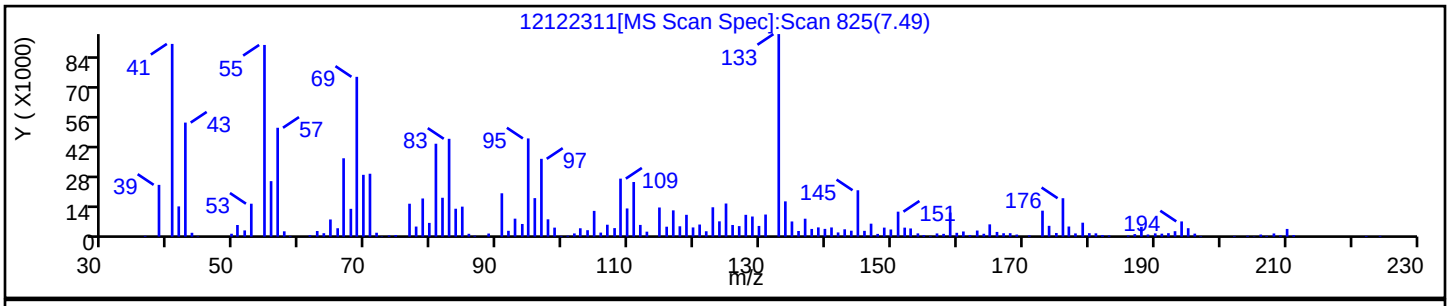
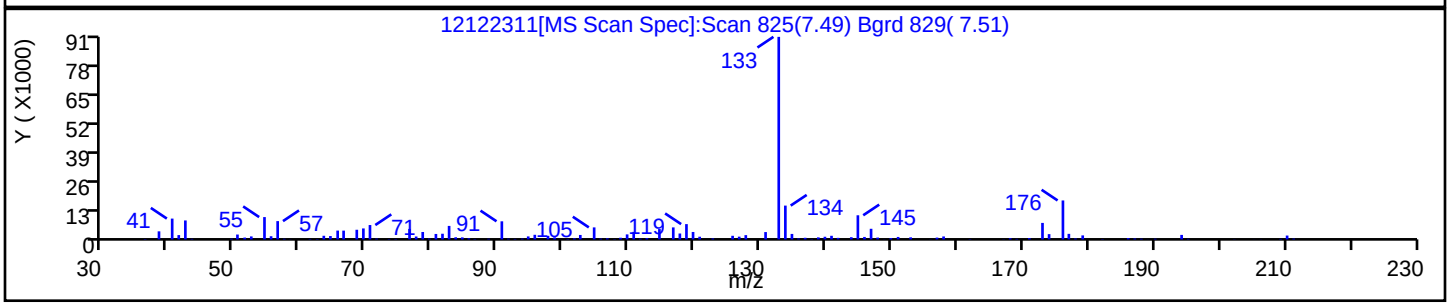




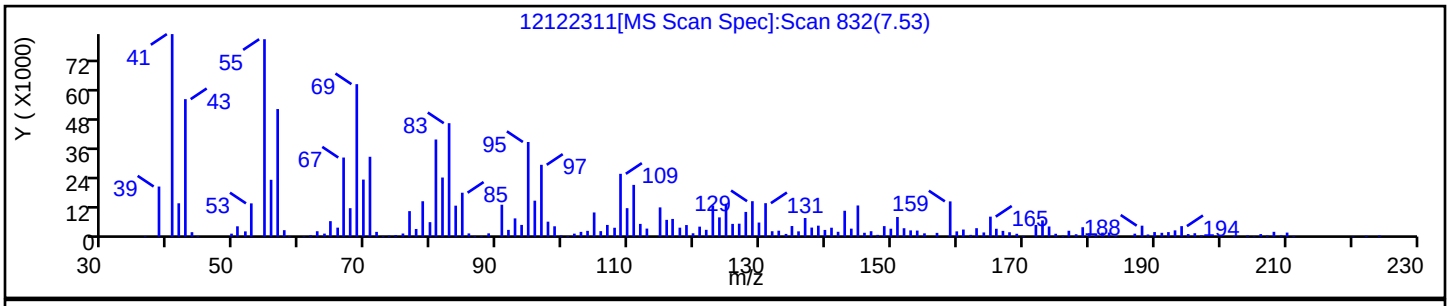
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

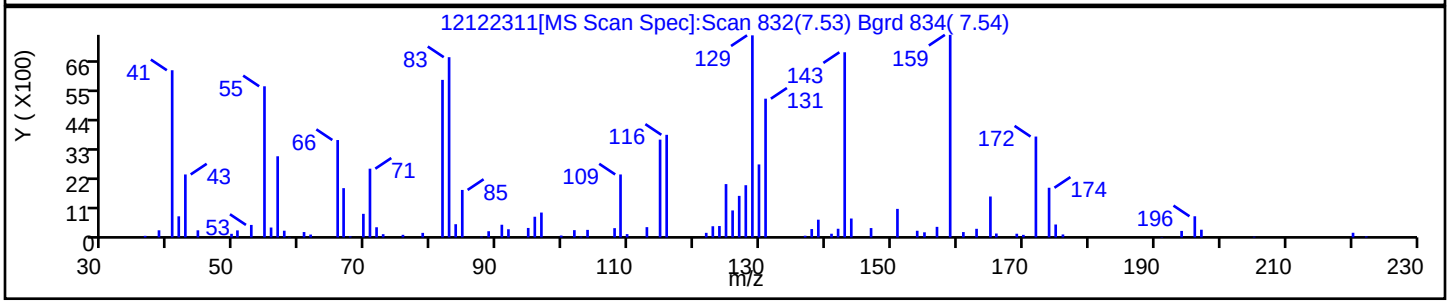
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.522

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





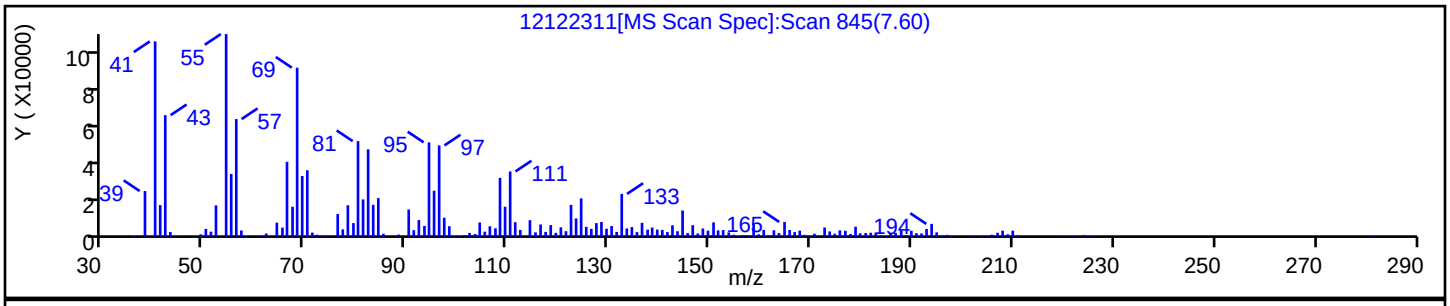
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

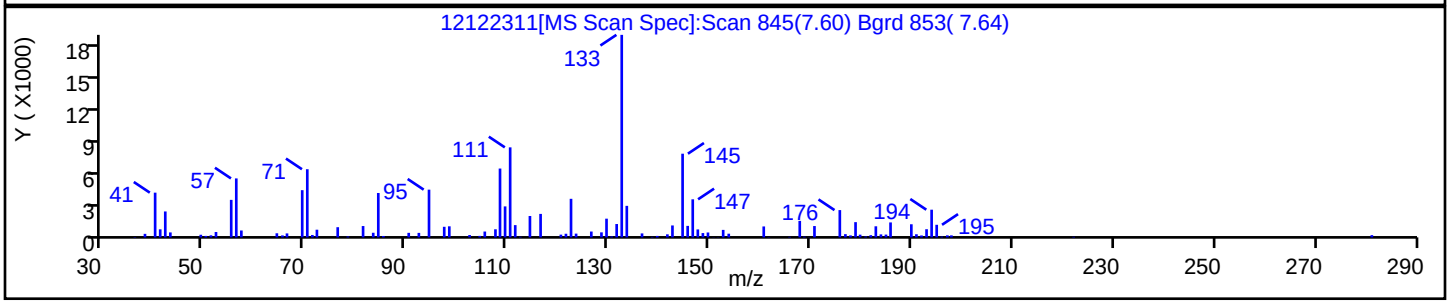
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.591

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





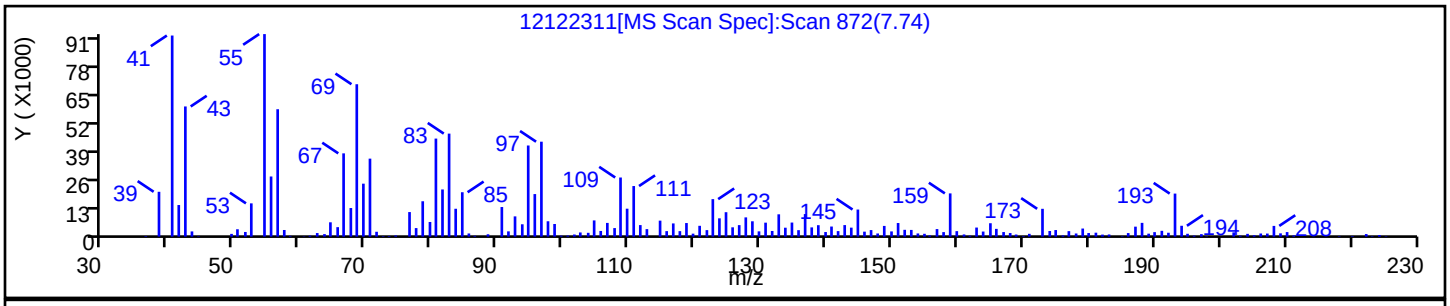
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

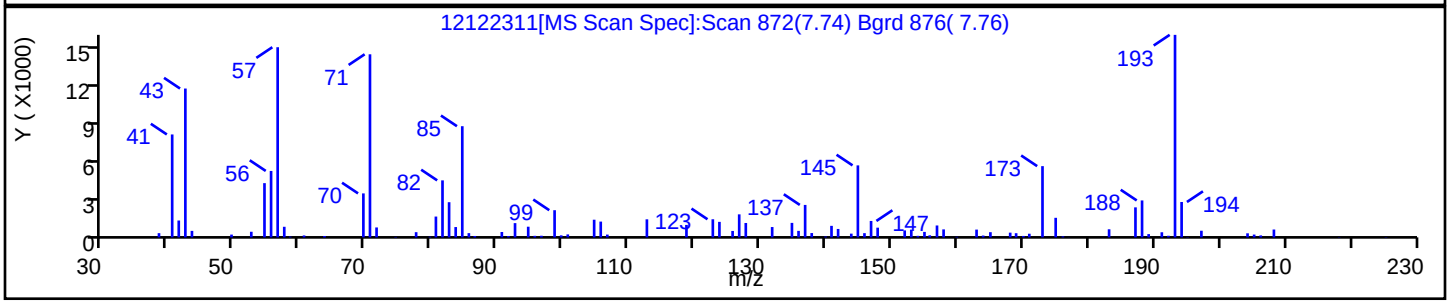
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.735

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





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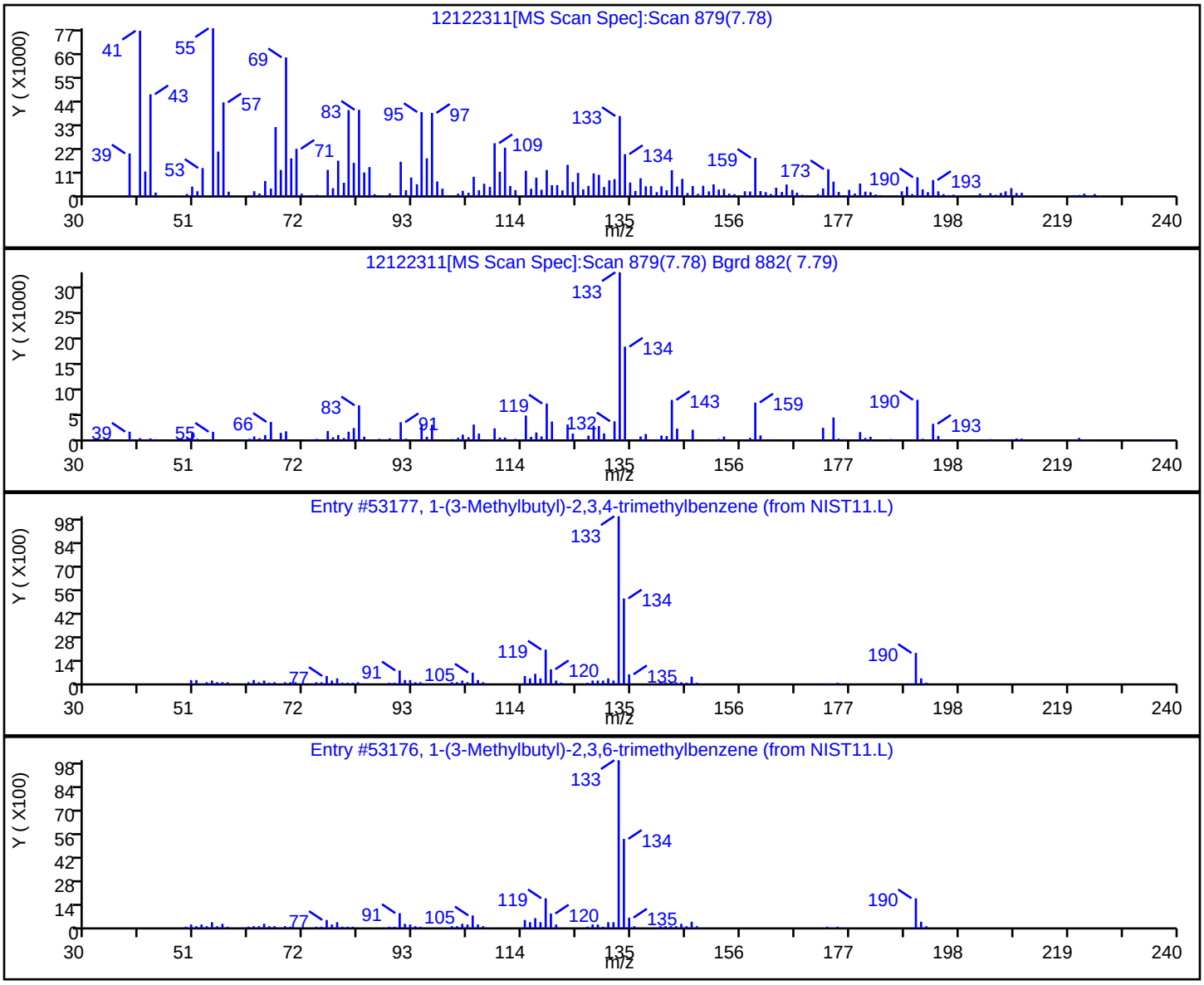
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.773

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1-(3-Methylbutyl)-2,3,4-trimethylbenzene	107997-59-1	NIST11	53177	C14H22	190	87
1-(3-Methylbutyl)-2,3,6-trimethylbenzene	84651-14-9	NIST11	53176	C14H22	190	87



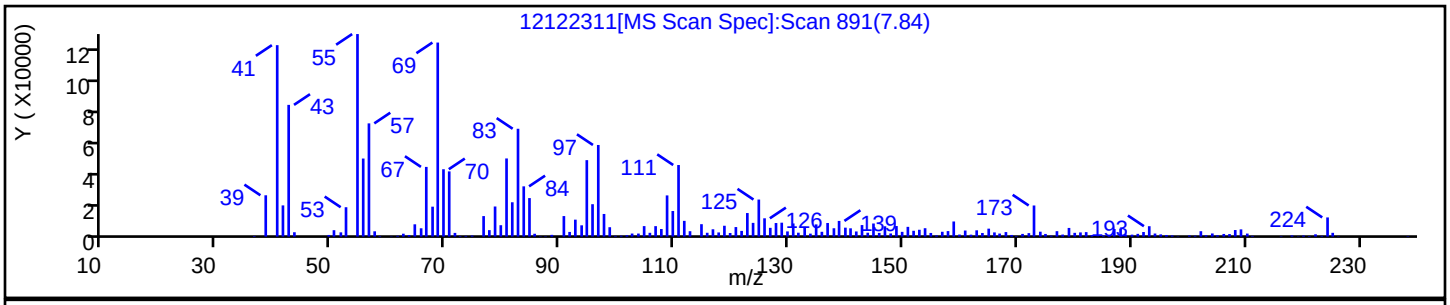
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

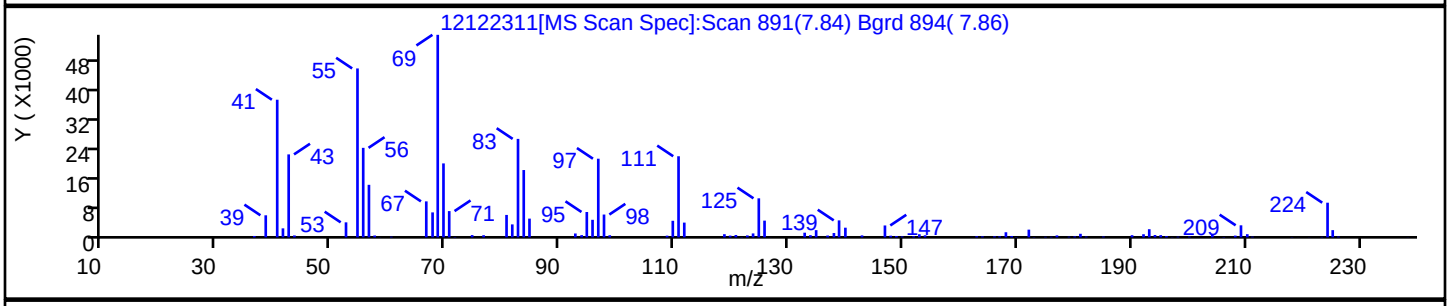
Shealy Environmental Services

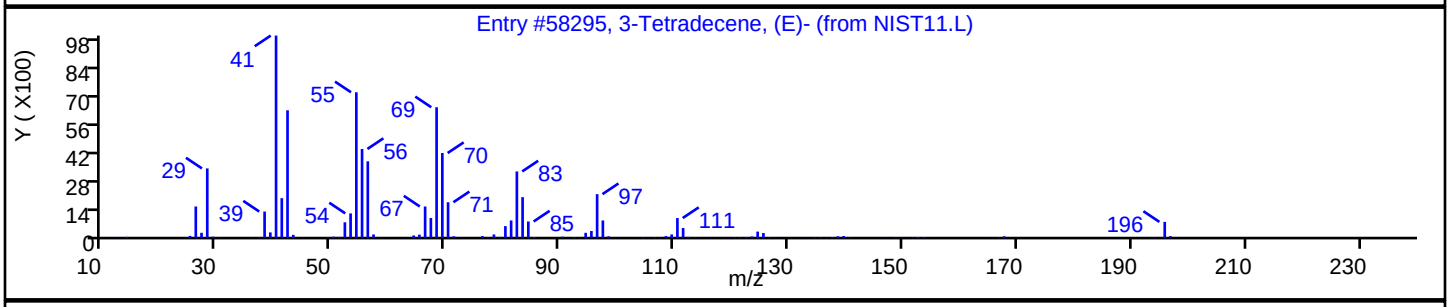
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

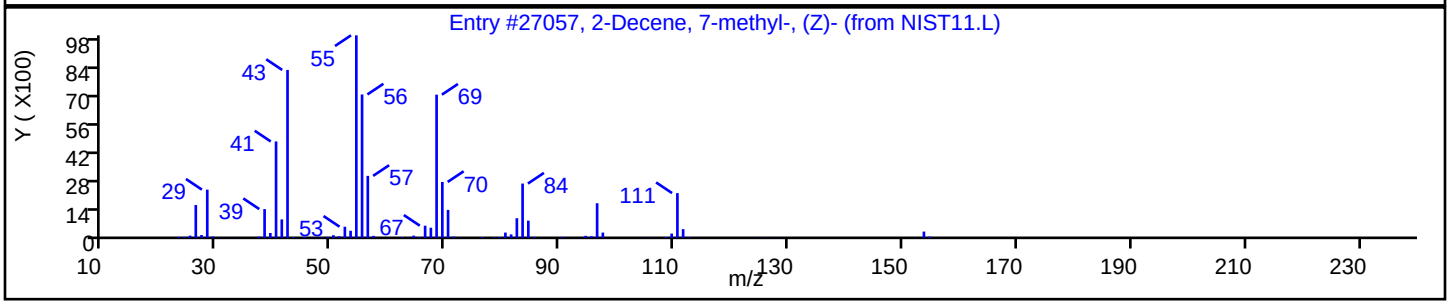
TIC @ 7.837

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
3-Tetradecene, (E)-	41446-68-8	NIST11	58295	C14H28	196	91
2-Decene, 7-methyl-, (Z)-	74630-23-2	NIST11	27057	C11H22	154	86









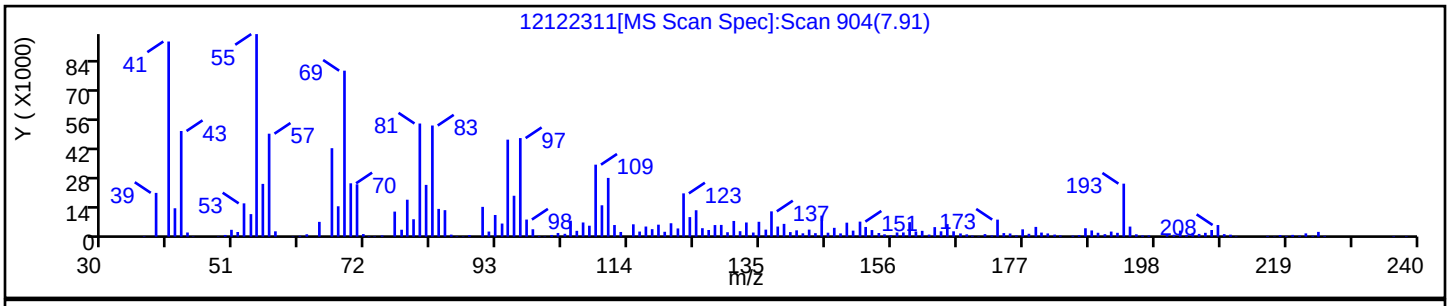
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

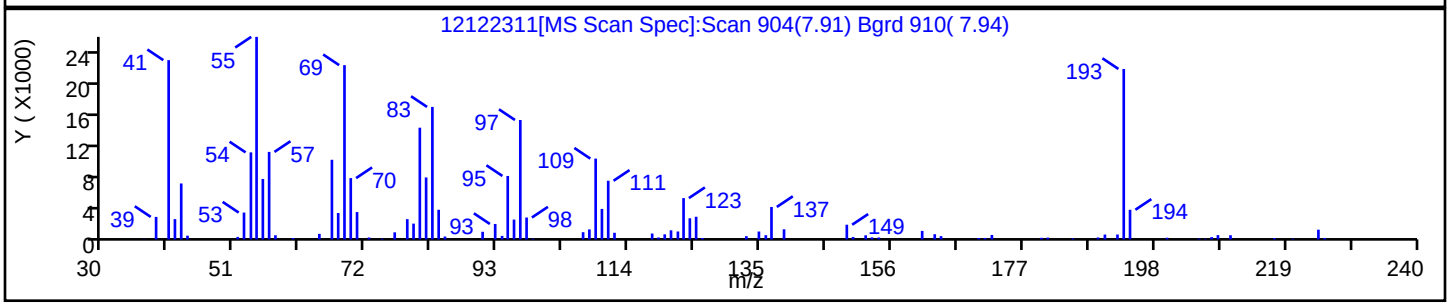
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.906

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





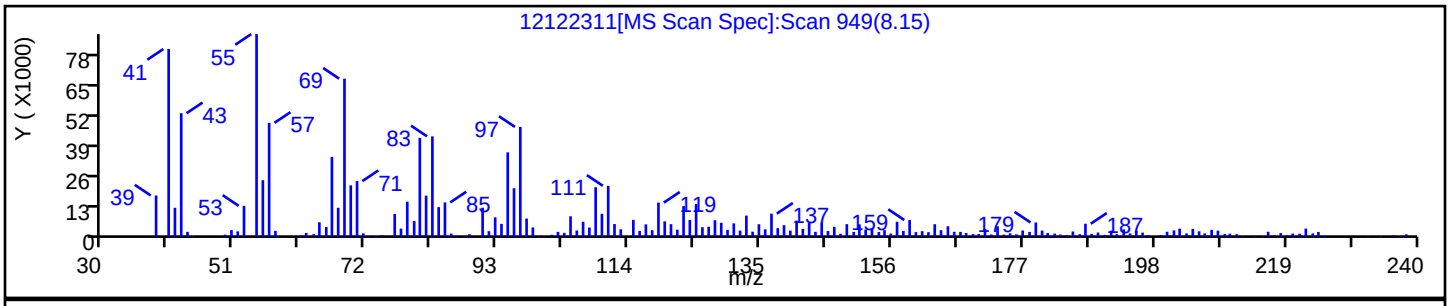
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

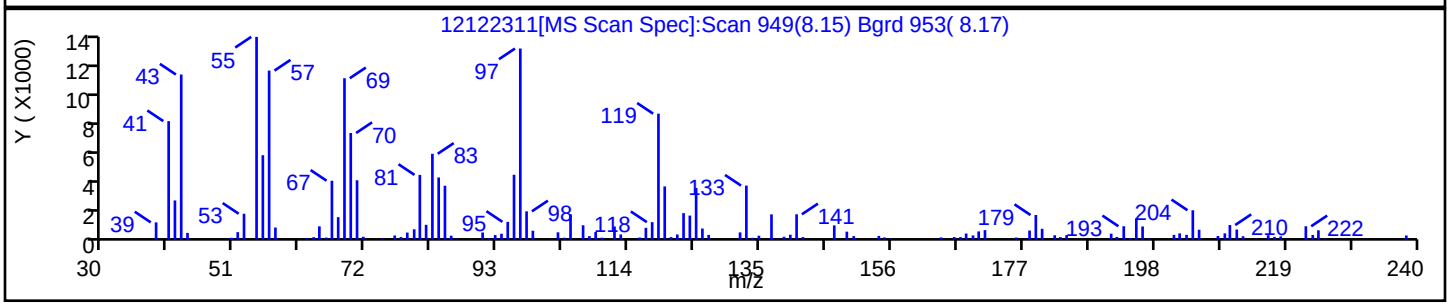
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.147

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





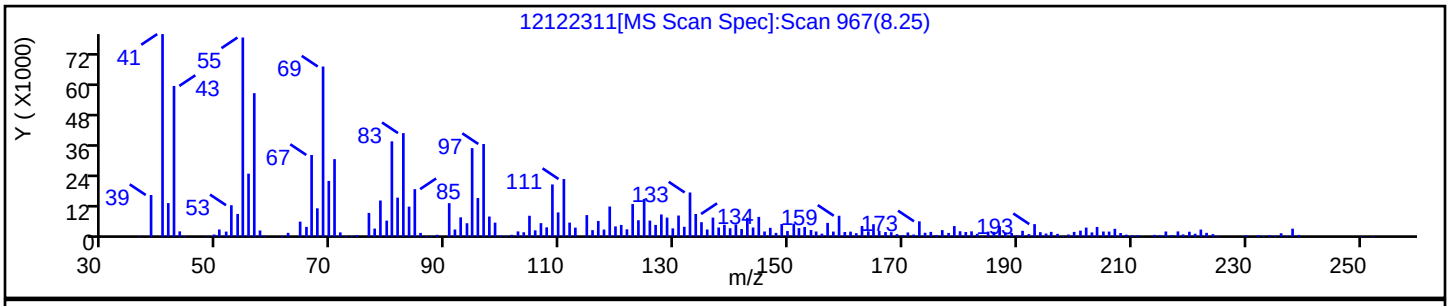
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

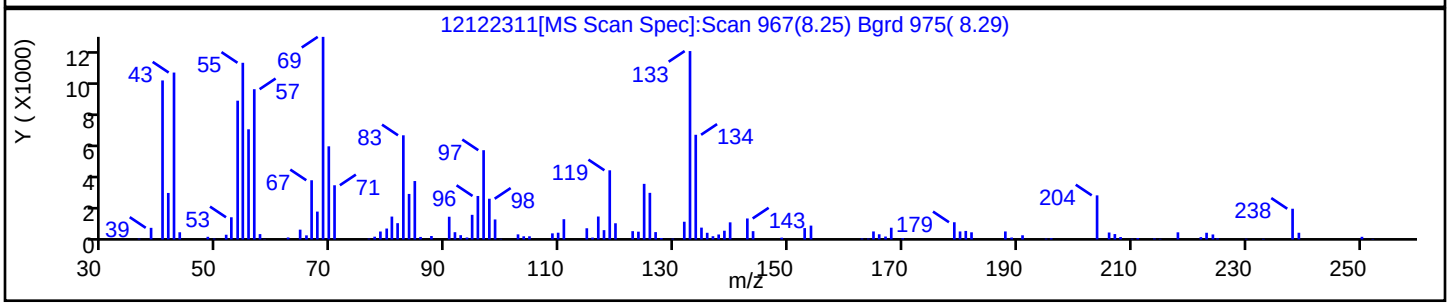
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.243

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





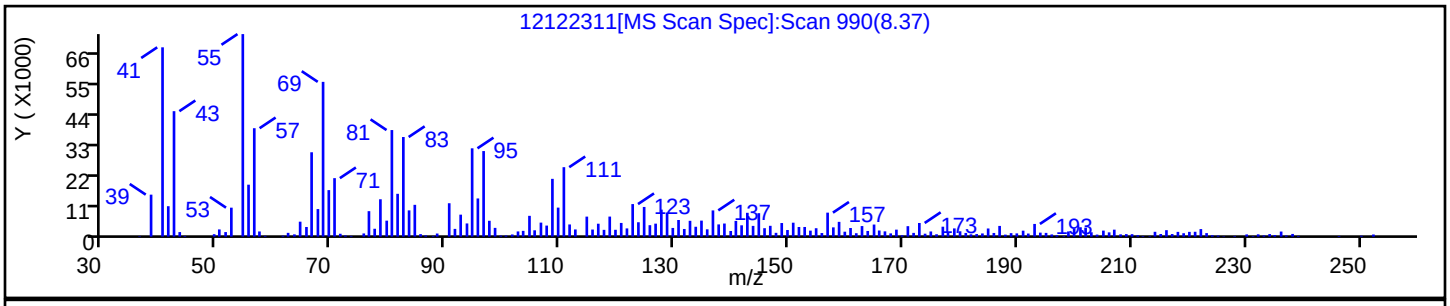
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

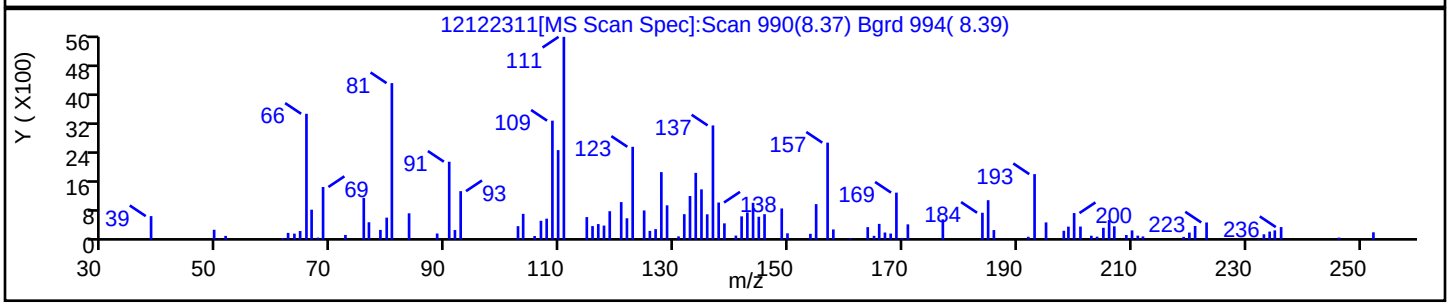
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.366

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





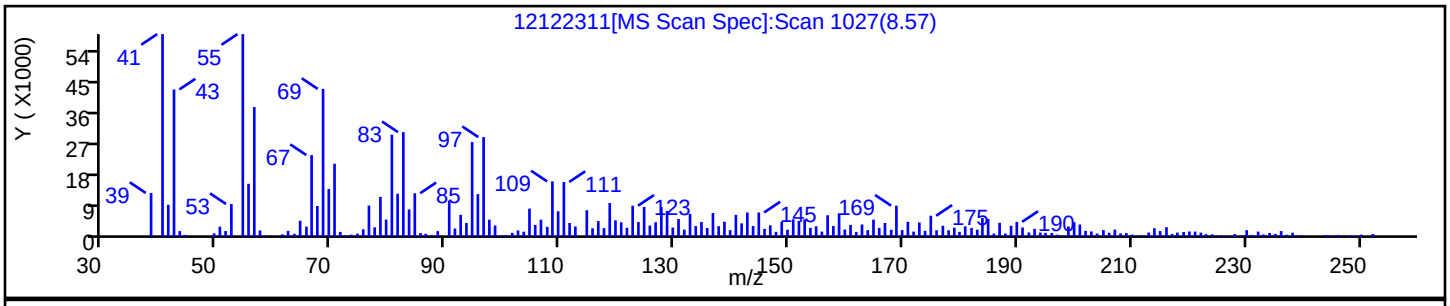
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

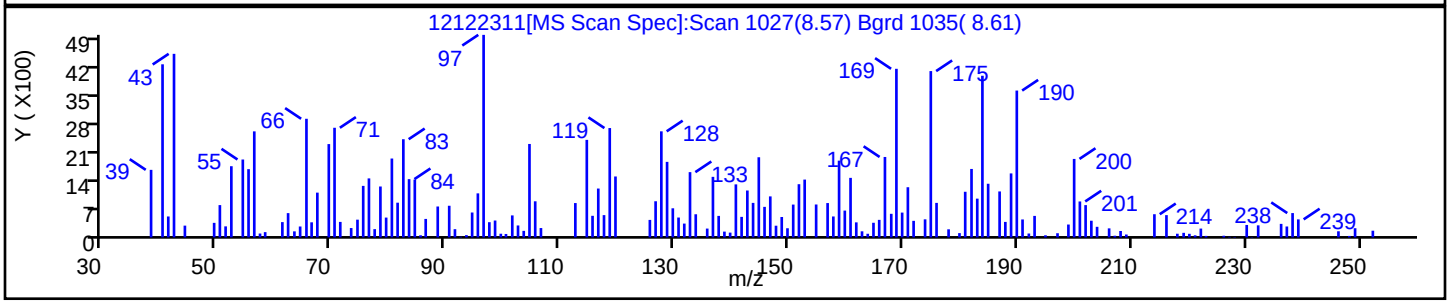
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.563

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





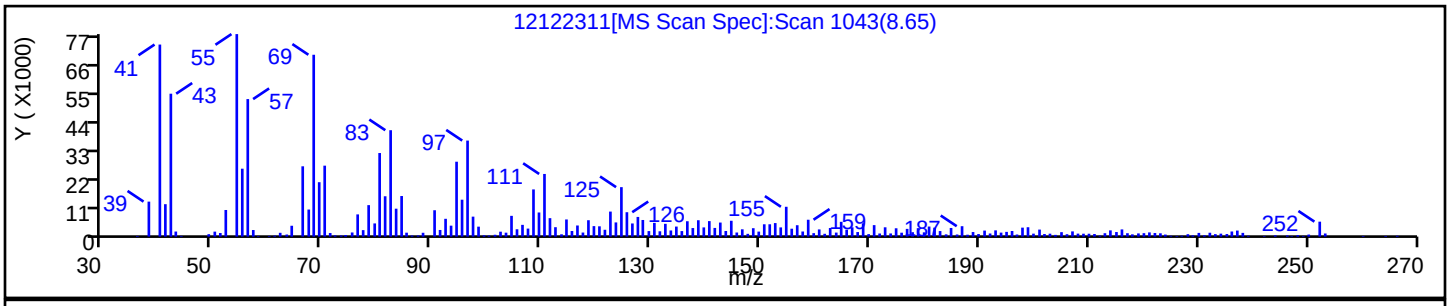
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

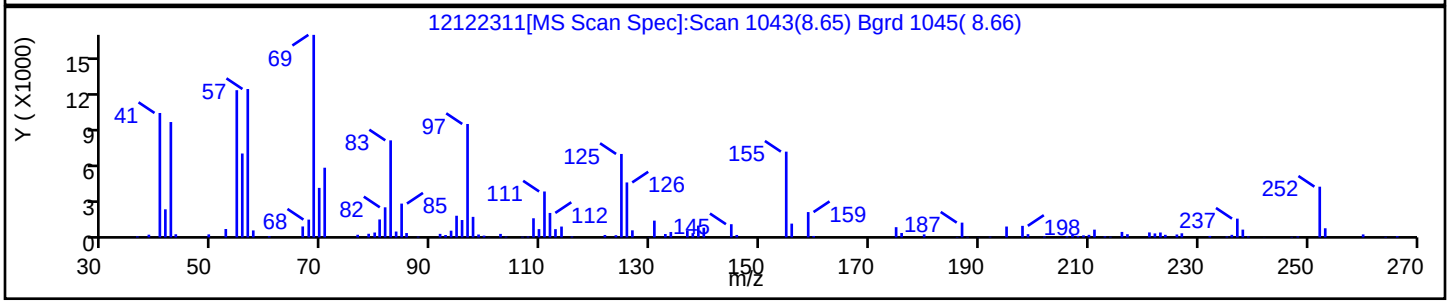
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.649

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





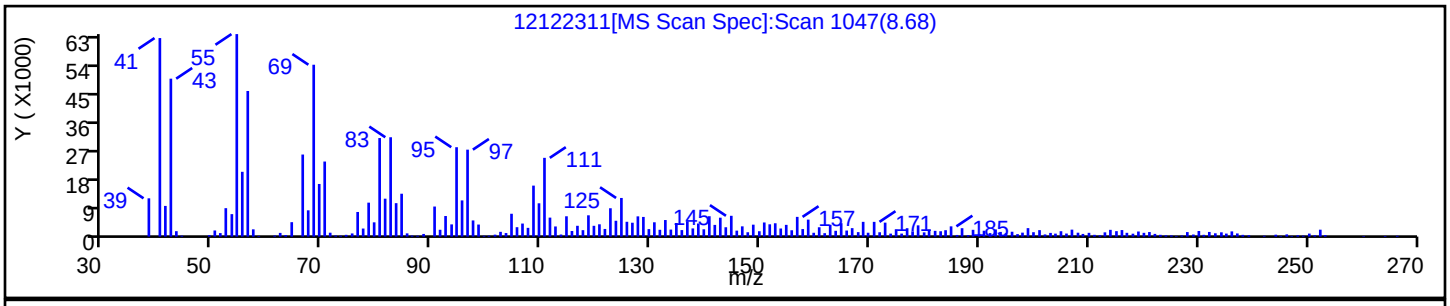
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

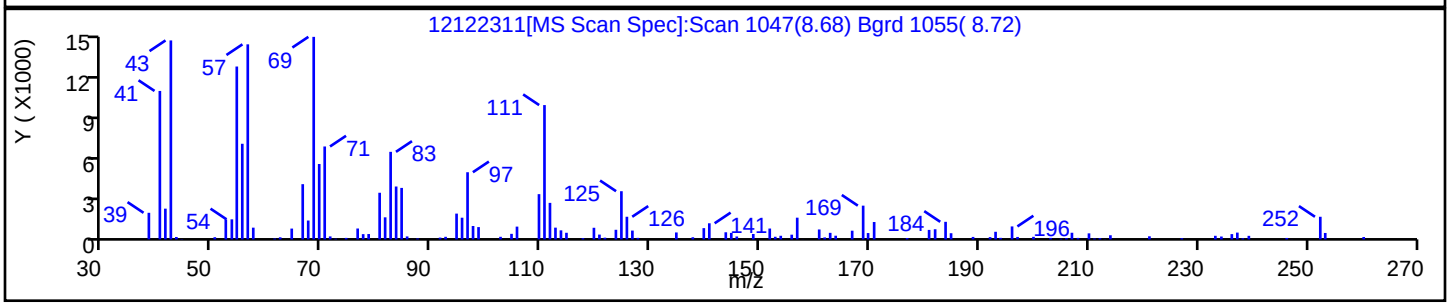
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.670

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





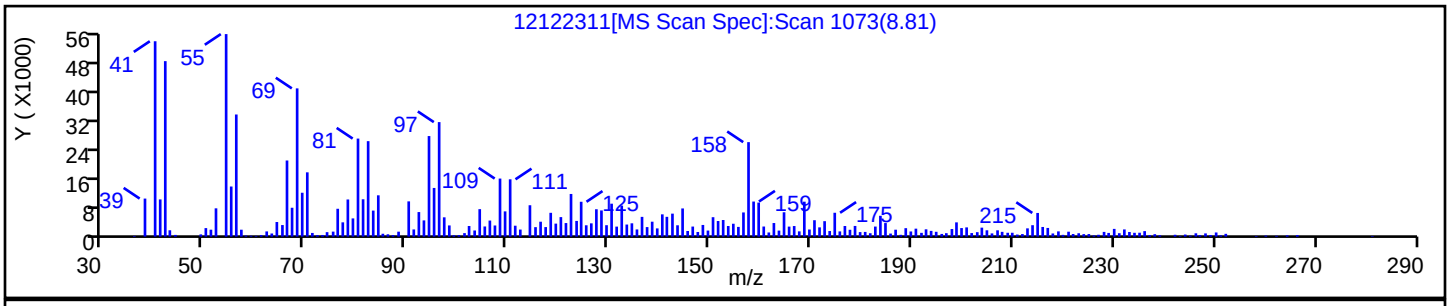
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

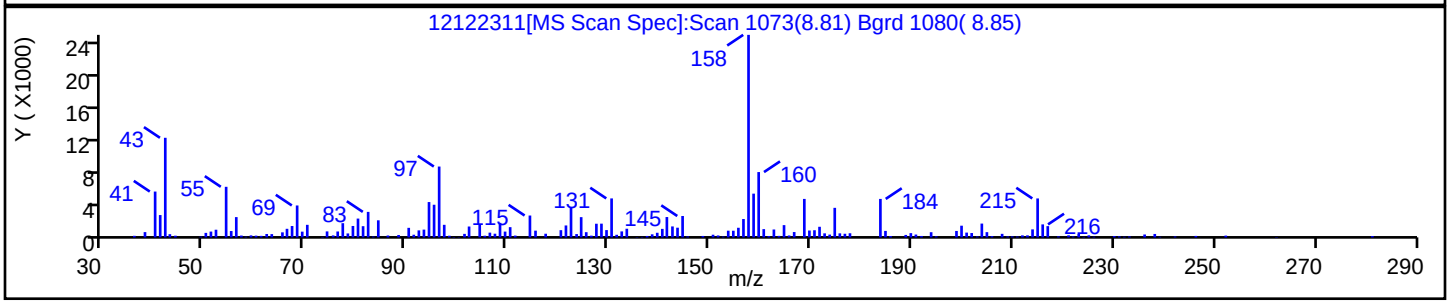
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.809

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





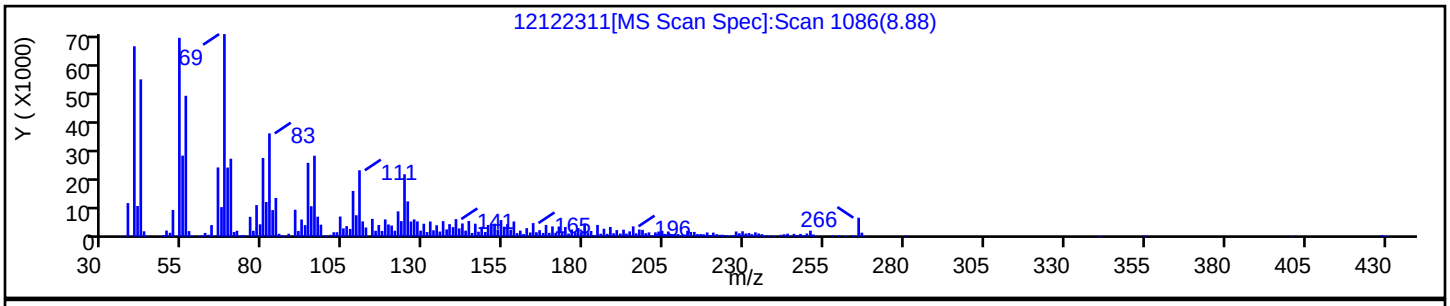
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

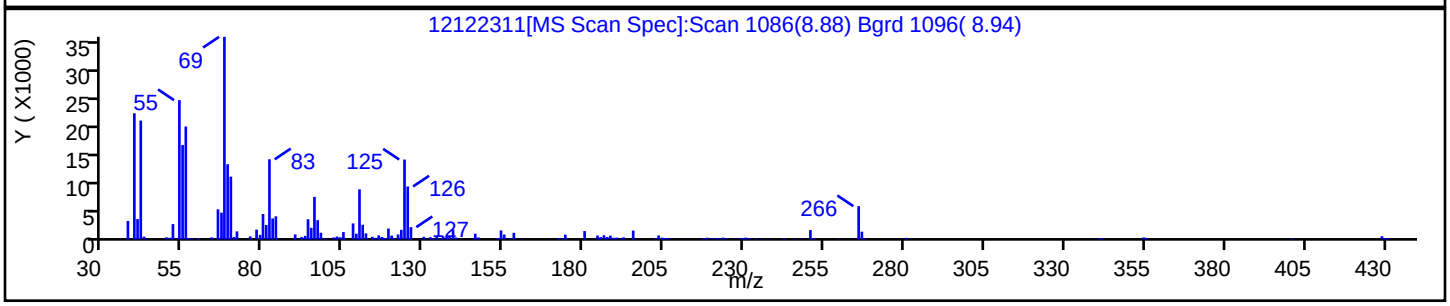
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.878

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





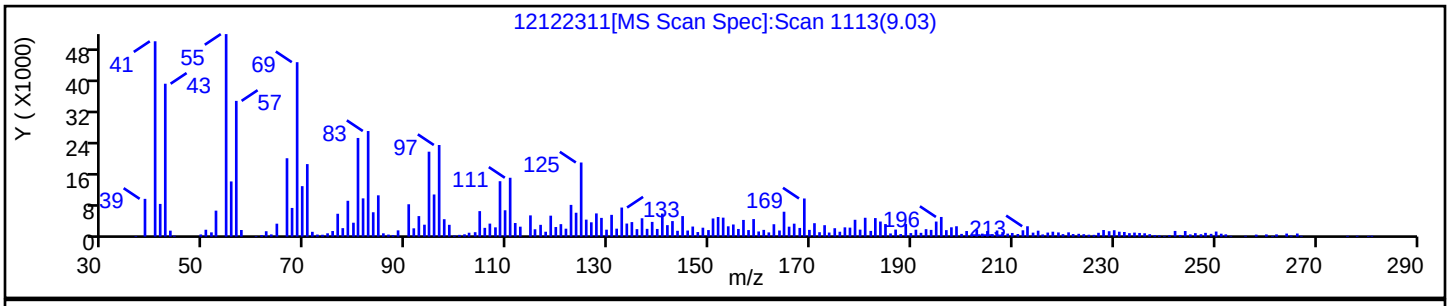
Report Date: 23-Dec-2015 16:08:35 AIM Revision: 1.0 26-May-2015 13:41:26

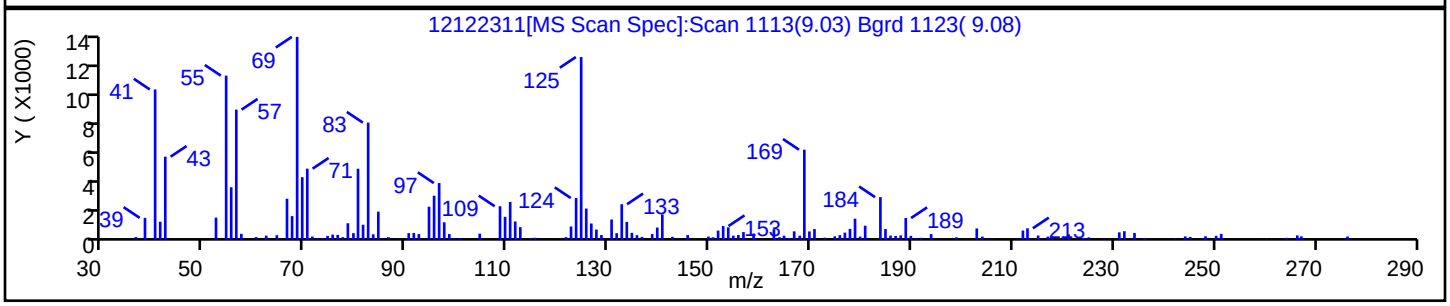
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122311.D		
Injection Date:	23-Dec-2015 13:10:30	Inst. ID:	msd12.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	12122315.b, QL12004-008		
Injection Vol.	1.00 uL	Dil. Factor:	5.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.023

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R28

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-009
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122312
% Solids: 84.5
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	83	U
100-52-7	Benzaldehyde	390	U
108-95-2	Phenol	390	U
111-44-4	Bis(2-Chloroethyl) ether	390	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-Oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
106-44-5	4-Methylphenol	390	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	390	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclo-pentadiene	390	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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R28

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-009
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122312
% Solids: 84.5
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	200	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
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
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
7005-72-3	4-Chlorophenyl-phenyl ether	200	U
86-73-7	Fluorene	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
101-55-3	4-Bromophenyl-phenylether	200	U
86-30-6	N-Nitrosodiphenylamine	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	390	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R28

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-009
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122312
% Solids: 84.5
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	390	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

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R28

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-009
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122312
% Solids: 84.5
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Y
Date Analyzed: 12/23/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 500 (uL)
Heated Purge: (Y/N)
Extraction Type: SONC
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types: GPC
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.52	210	J
02		Unknown-02	4.10	220	J
03					
04		Unknown-03	4.26	270	J
05		Unknown-04	4.94	95	J
06	541-02-6	Cyclopentasiloxane,	5.95	88	NJ
07		Unknown-05	6.93	89	J
08		Unknown-06	7.01	100	J
09					
10		Unknown-07	8.81	130	J
11		Unknown-08	8.88	79	J
12					
13	57-10-3	n-Hexadecanoic acid	9.60	90	NJ
14	112-84-5	13-Docosenamide, (Z)-	13.27	880	NJ
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	338	J

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Lab Sample ID:	QL12004-009	Client Sample ID:	F6R28
Injection Date:	23-Dec-2015 13:38:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL12004-009		
Misc. Info:	92512		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	14
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.000	Weight of sample extracted (g)
M	15.500	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 15:23:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 3 Phenol-d5	99.0	5.128	5.123	0.005	878005	24.871	981.11	
108 1,4-Dioxane	88.0		3.333		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.312	0.005	18030	1.3963	55.082	eR
4 Phenol	94.0		5.133		ND			
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	510392	21.435	845.57	
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	616363	26.390	1041.01	
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	385410	20.000	788.95	
10 2-Methylphenol	108.0		5.614		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.705	5.710	-0.005	680911	26.554	1047.48	
14 4-Methylphenol	108.0		5.737		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	323810	23.528	928.11	
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.170		ND			
$ 95 2-Nitrophenol-d4	143.0	6.169	6.175	-0.006	358404	22.740	897.04	
19 2-Nitrophenol	139.0		6.186		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.367	-0.005	584200	25.250	996.04	
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.511	6.517	-0.006	1591973	20.000	788.95	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.538	6.544	-0.006	561507	16.099	635.07	
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.681	7.687	-0.006	1652218	29.760	1173.97	
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.868	7.874	-0.006	2036842	27.728	1093.80	
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.996	7.997	-0.001	849968	20.000	788.95	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0	8.023	8.039	-0.016	345623	25.463	1004.46	Q
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1394083	26.763	1055.75	
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.461	8.472	-0.011	290635	20.470	807.50	Q
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.274	-0.006	1559947	20.000	788.95	
59 Phenanthrene	178.0		9.295		ND			
$ 103 Anthracene-d10	188.0	9.316	9.322	-0.006	2355944	29.624	1168.59	
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			

Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122312.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 104 Pyrene-d10	212.0	10.636	10.641	-0.005	2701318	35.963	1418.67	
64 Pyrene	202.0		10.663		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1721474	20.000	788.95	
70 Chrysene	228.0		12.222		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.814		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.322	14.322	0.000	2384999	28.803	1136.22	
75 Benzo(a)pyrene	252.0		14.375		ND			
* 76 Perylene-d12	264.0	14.455	14.466	-0.011	1708118	20.000	788.95	
77 Indeno(1,2,3-cd)pyrene	276.0		16.630		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Lab Sample ID:	QL12004-009	Client Sample ID:	F6R28
Injection Date:	23-Dec-2015 13:38:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL12004-009		
Misc. Info:	92512		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	14
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.000	Weight of sample extracted (g)
M	15.500	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 15:23:30

Tentative Identified Compound Results

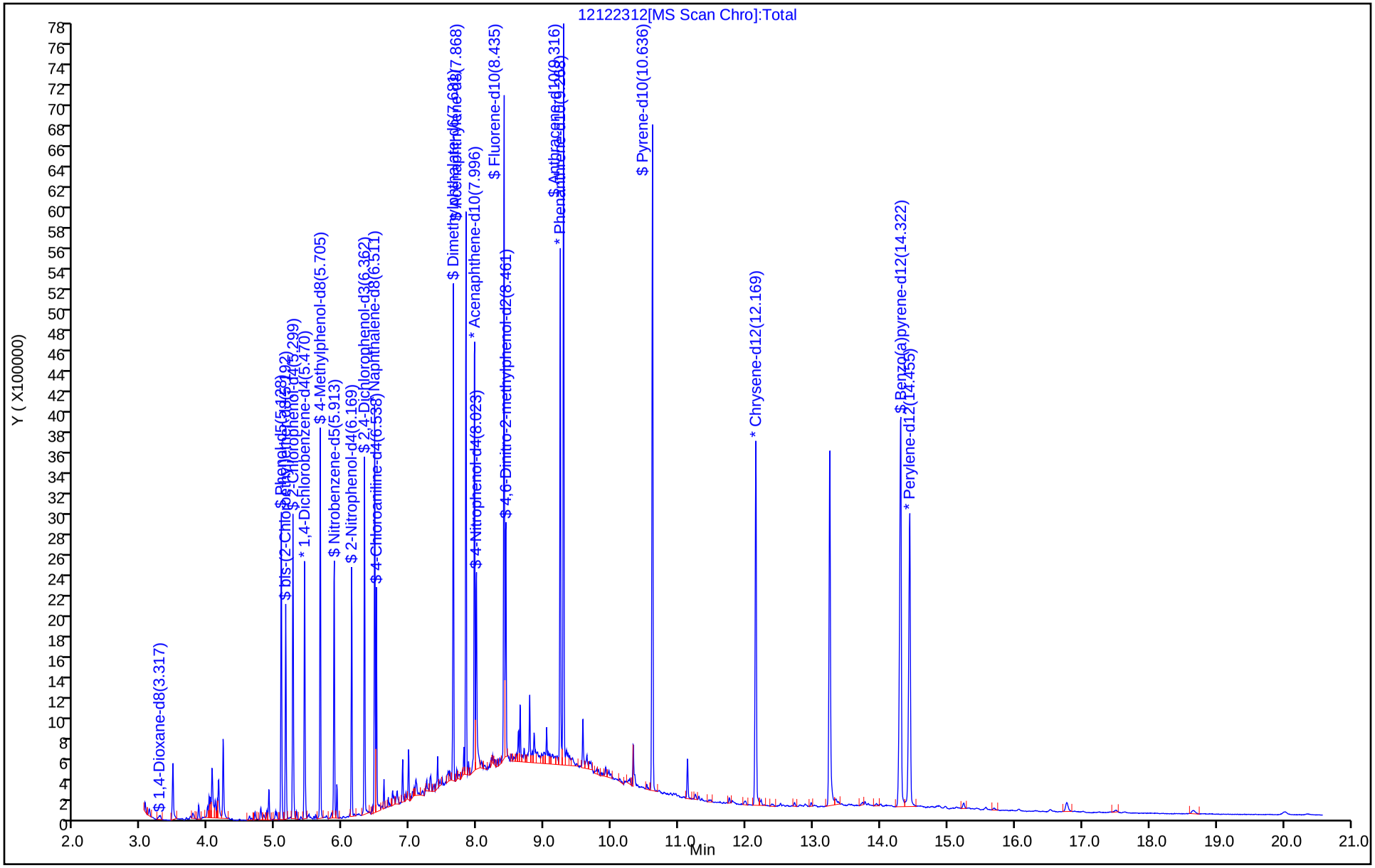
RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
3.520	670864	5.3083	209.40	8				
	Unknown							
4.097	709931	5.6174	221.59	8				
2216-30-0	Heptane, 2,5-dimethyl-							
4.198	506219	4.0055	158.01	8	94	12686	C9H20	128
	Unknown							
4.262	874538	6.9199	272.97	8				
	Unknown							
4.941	305478	2.4171	95.350	8				
541-02-6	Cyclopentasiloxane, decamethyl-							
5.950	283121	2.2402	88.372	8	87	196317	C10H30O5Si5	370
	Unknown							
6.928	392234	2.2614	89.206	23				
	Unknown							
7.013	455686	2.6272	103.64	23				
1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-							
8.670	515631	2.2879	90.254	58	98	117659	C19H40	268
	Unknown							
8.814	749784	3.3269	131.24	58				
	Unknown							
8.878	452462	2.0077	79.197	58				

RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
638-36-8 Hexadecane, 2,6,10,14-tetramethyl-								
9.065	505347	2.2423	88.454	58	94	129513	C20H42	282
57-10-3 n-Hexadecanoic acid								
9.604	513595	2.2789	89.898	58	98	107549	C16H32O2	256
112-84-5 13-Docosenamide, (Z)-								
13.269	5280297	22.187	875.23	69	95	174696	C22H43NO	337

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.470	2527608	20.000
* 23 Naphthalene-d8	6.511	3469004	20.000
* 58 Phenanthrene-d10	9.268	4507371	20.000
* 69 Chrysene-d12	12.169	4759806	20.000

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D				
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R28	Lab ID:	QL12004-009		
Sample Info:	12122315.b, QL12004-009				
Injection Vol.	1.00 uL	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



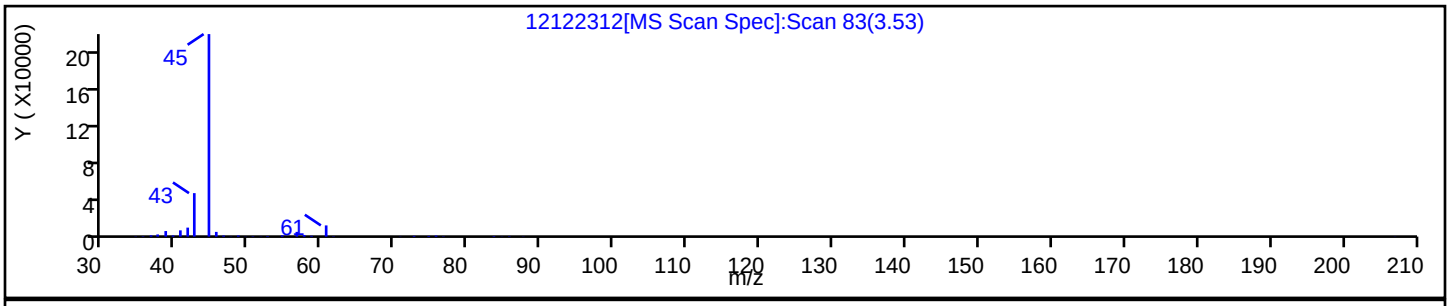
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

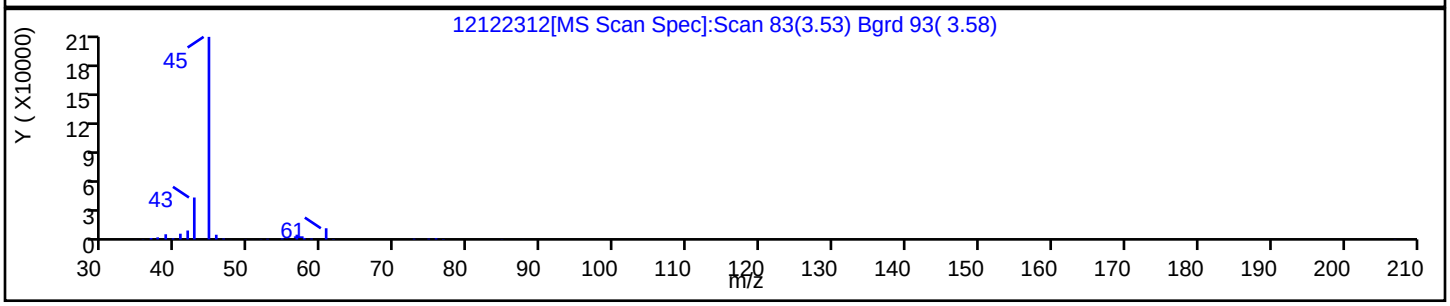
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 3.520

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





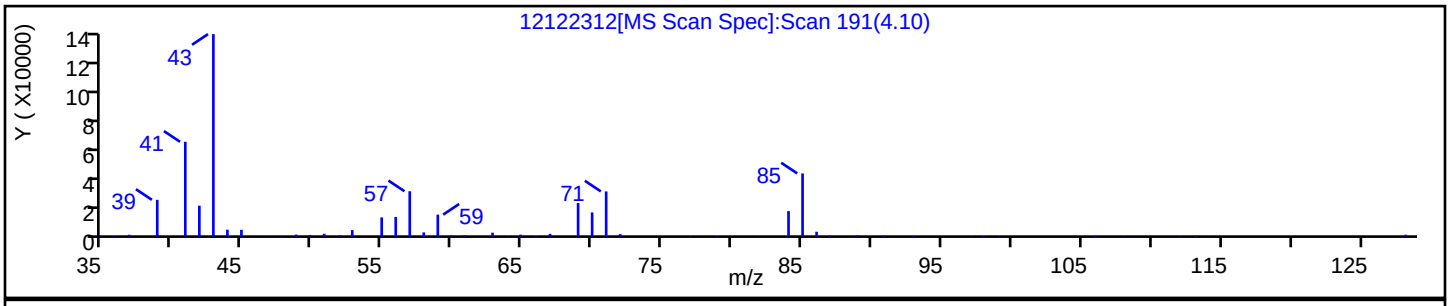
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

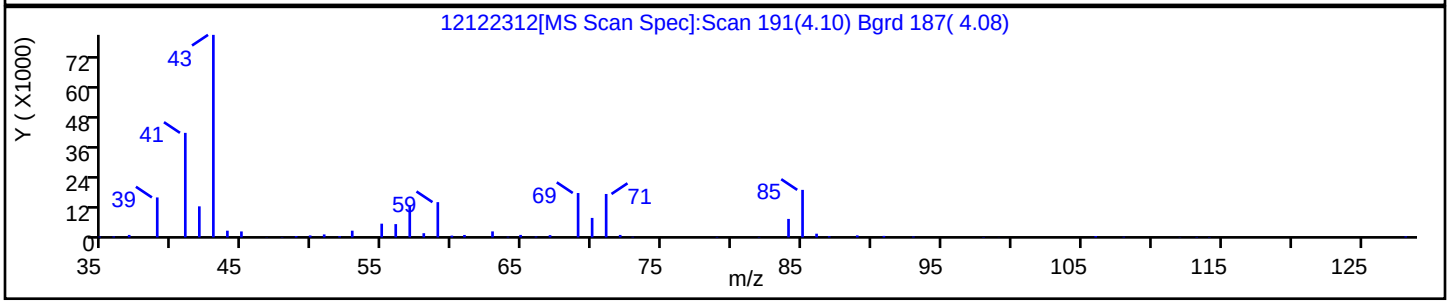
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.097

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





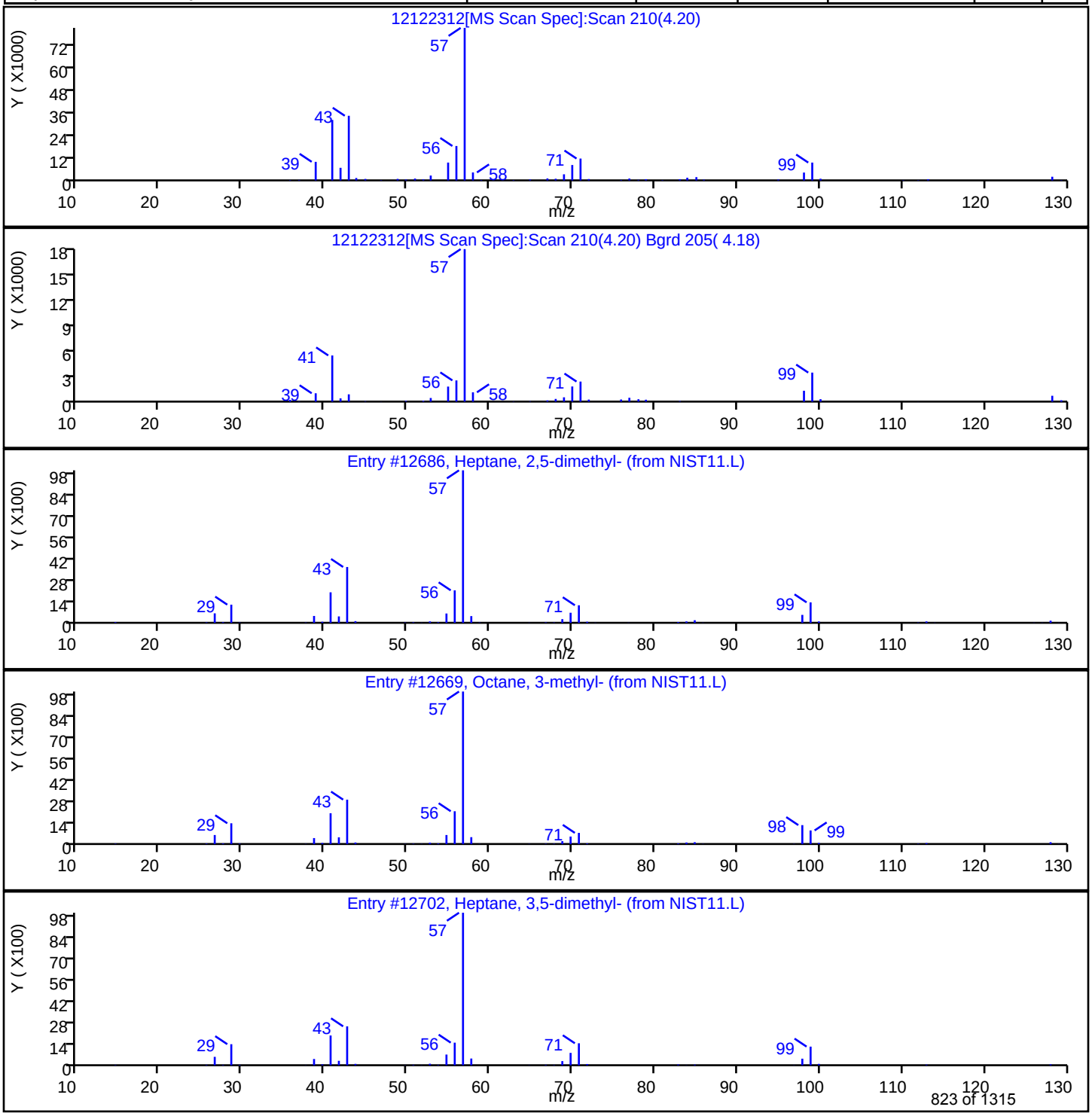
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.198

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Heptane, 2,5-dimethyl-	2216-30-0	NIST11	12686	C9H20	128	94
Octane, 3-methyl-	2216-33-3	NIST11	12669	C9H20	128	91
Heptane, 3,5-dimethyl-	926-82-9	NIST11	12702	C9H20	128	87



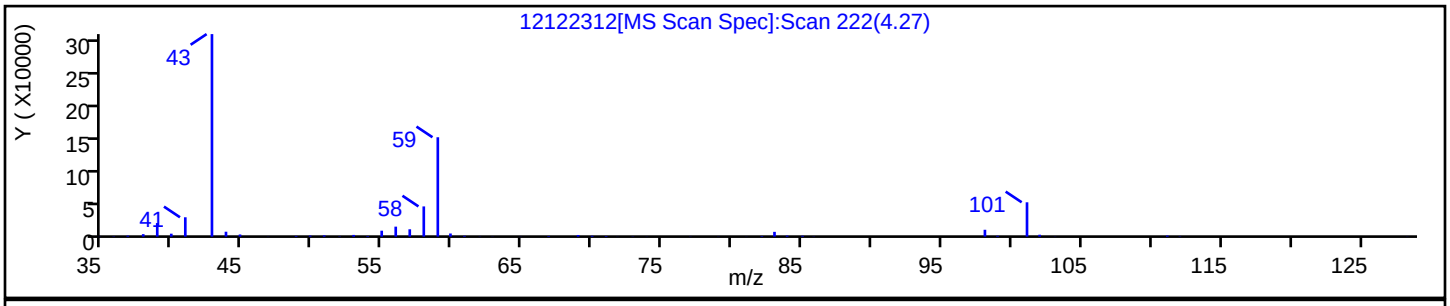
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

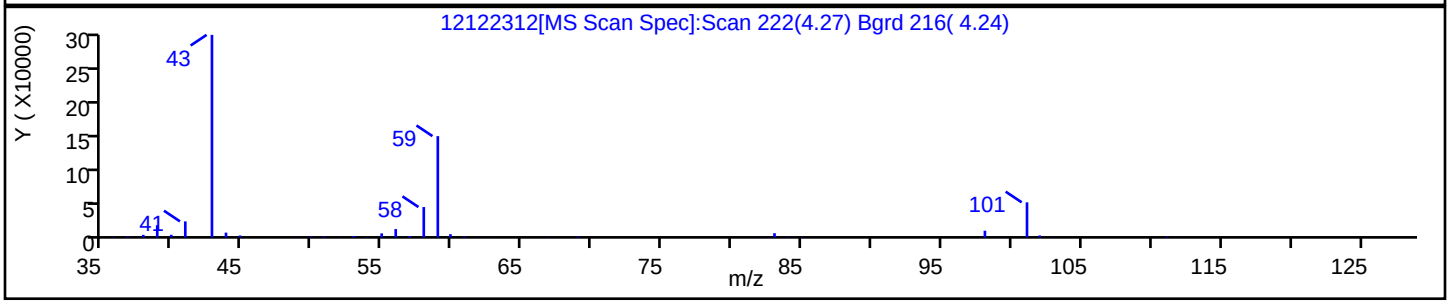
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.262

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





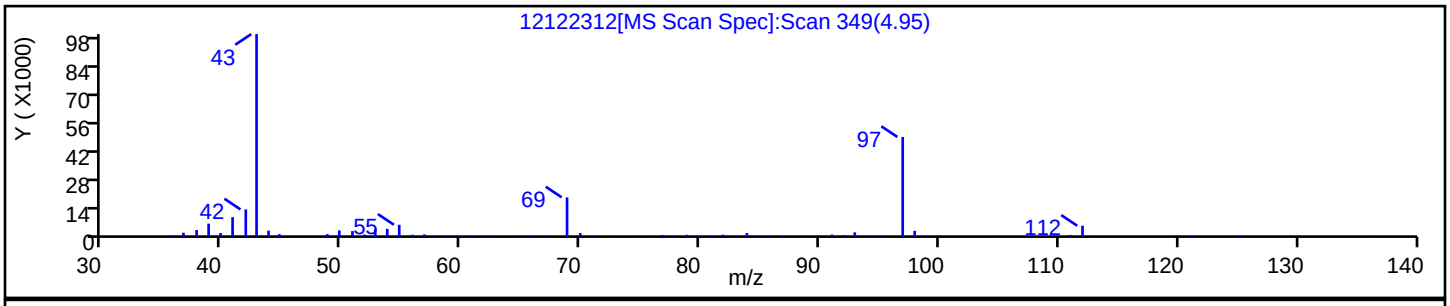
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

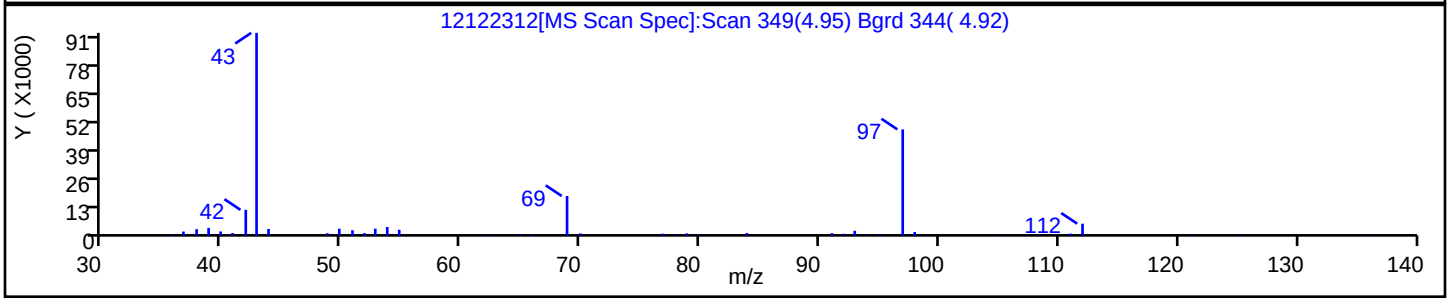
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.941

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





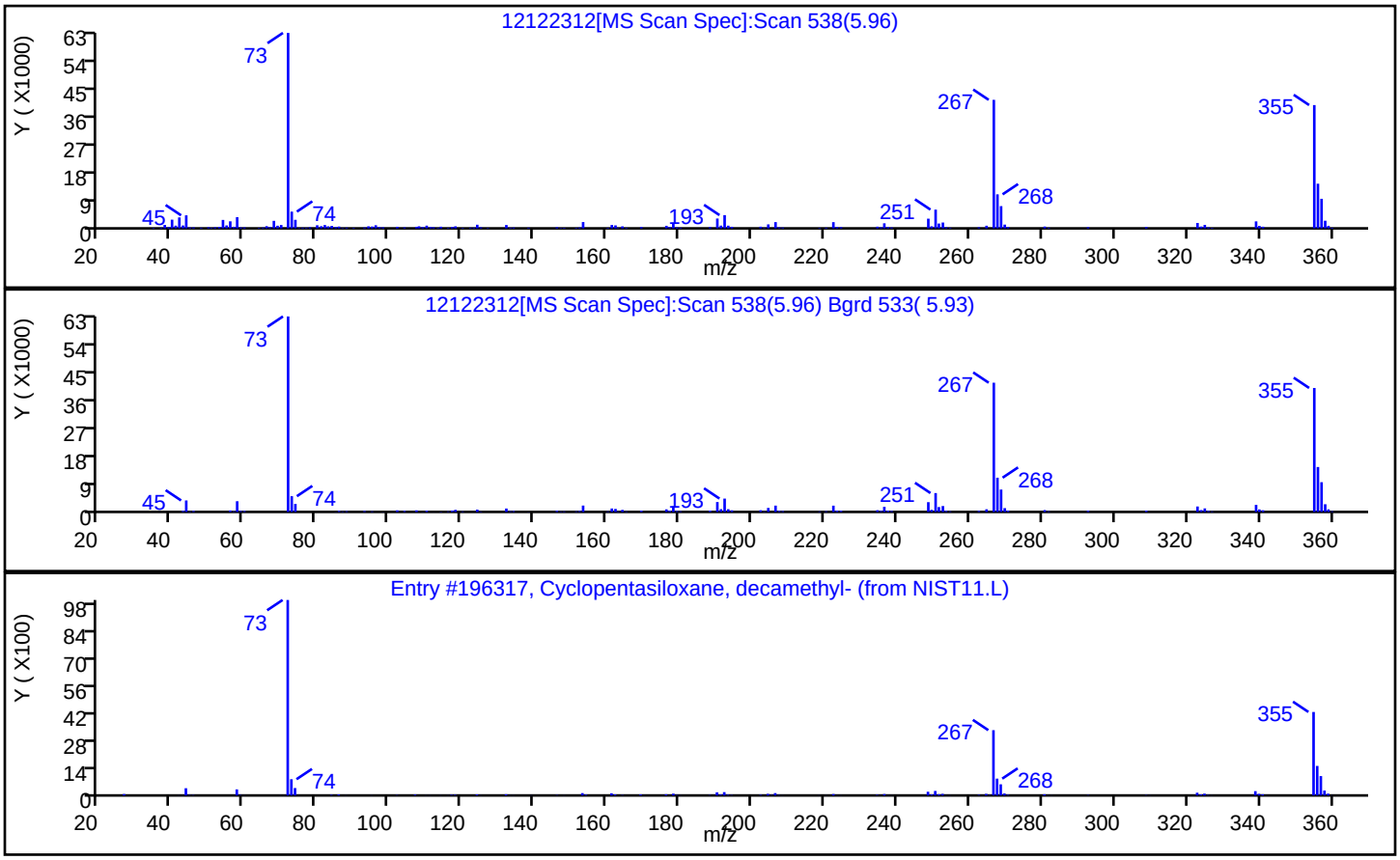
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.950

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Cyclopentasiloxane, decamethyl-	541-02-6	NIST11	196317	C10H30O5Si5	370	87



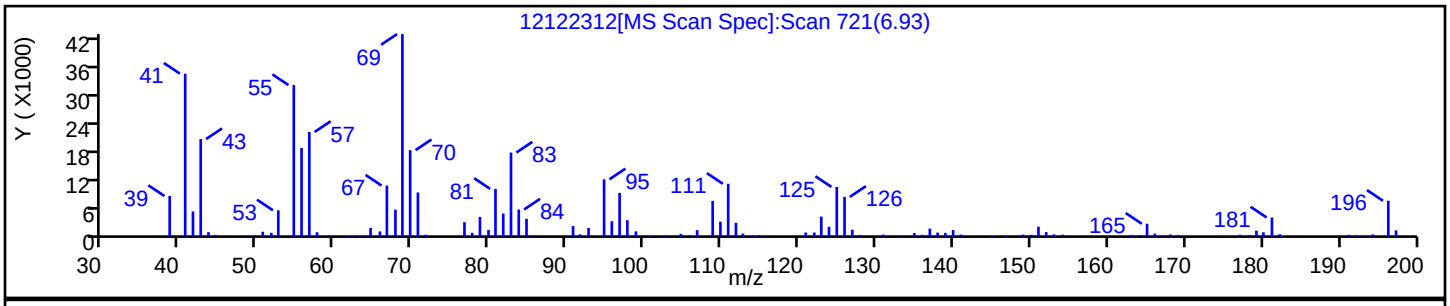
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

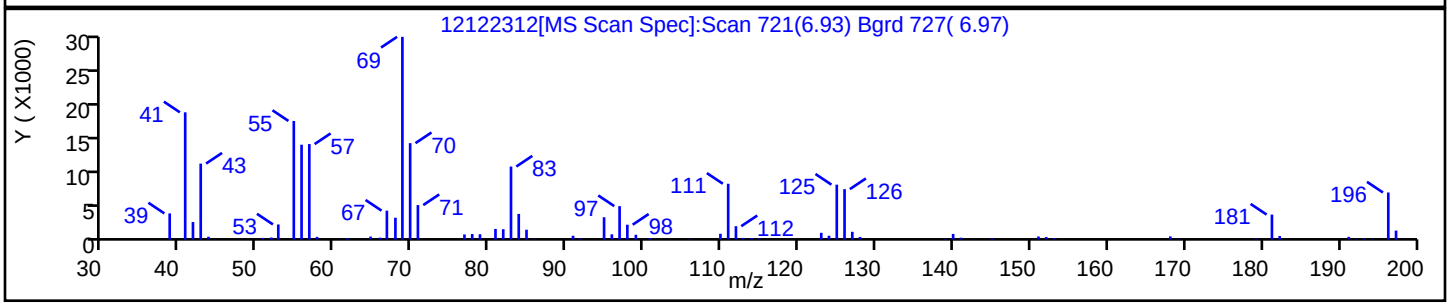
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.928

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





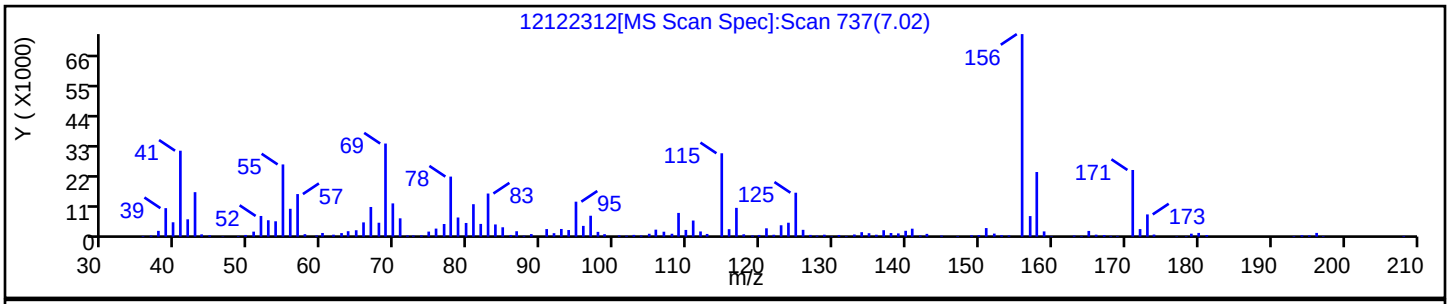
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

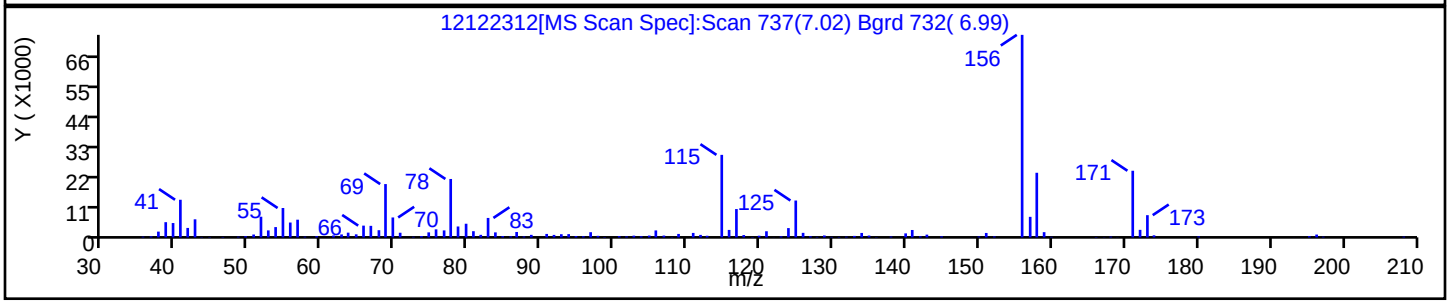
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.013

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





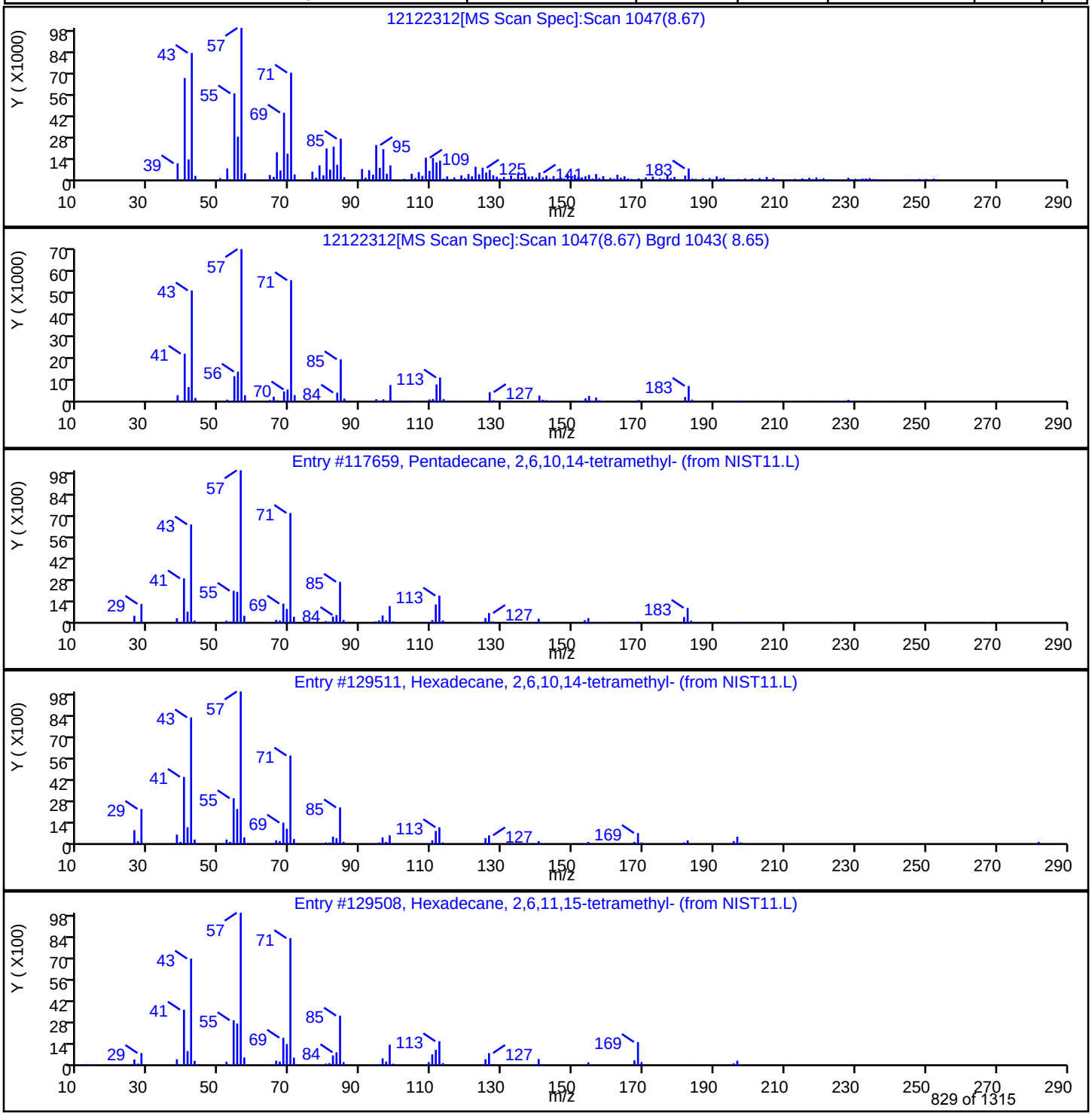
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.670

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	NIST11	117659	C19H40	268	98
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	NIST11	129511	C20H42	282	91
Hexadecane, 2,6,11,15-tetramethyl-	504-44-9	NIST11	129508	C20H42	282	91



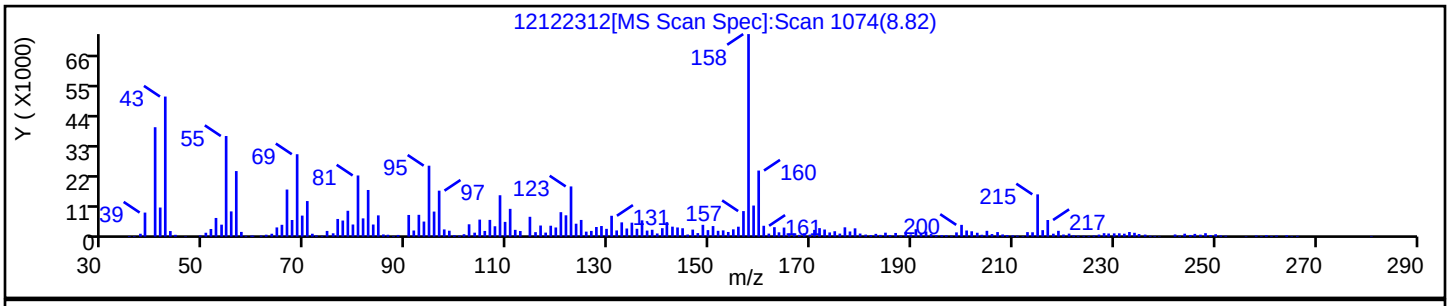
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

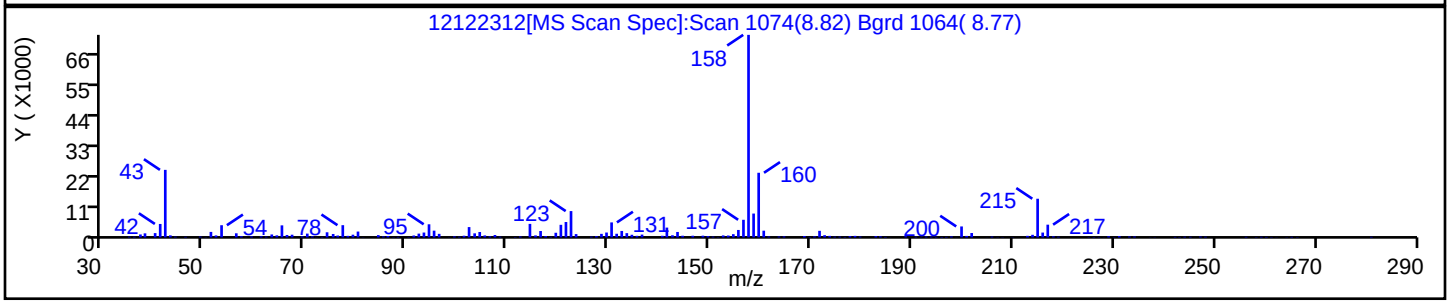
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.814

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





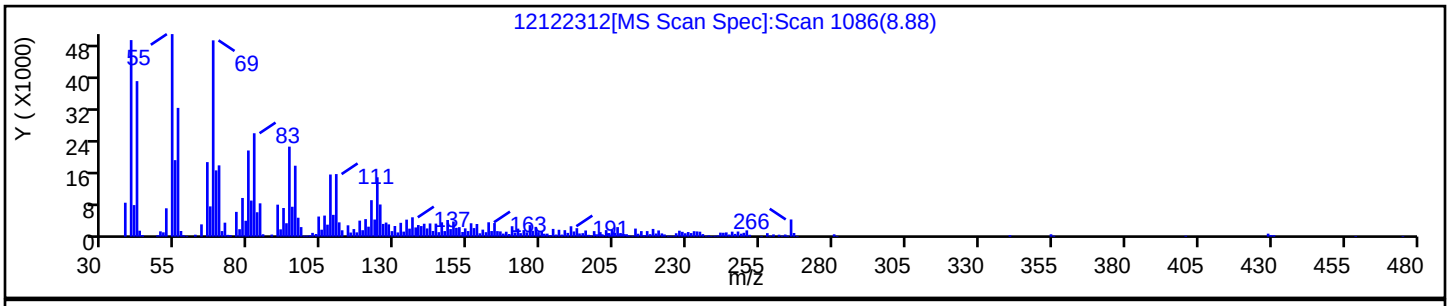
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

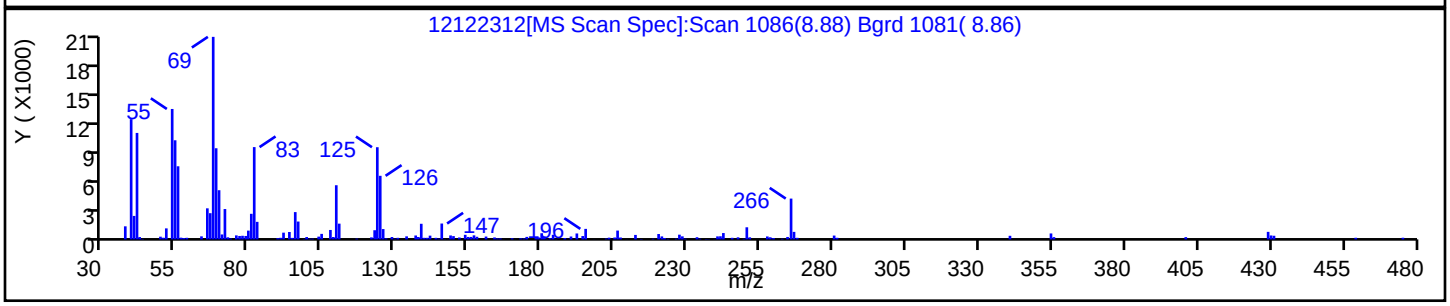
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.878

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





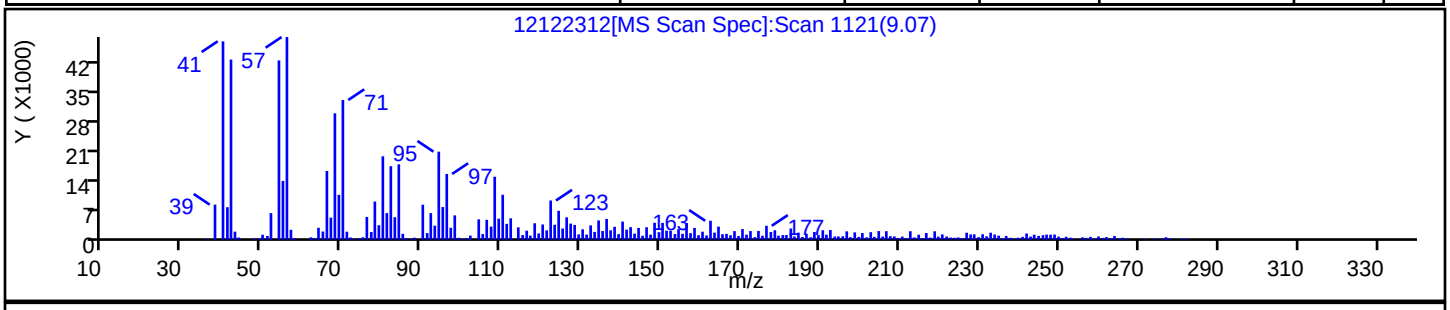
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

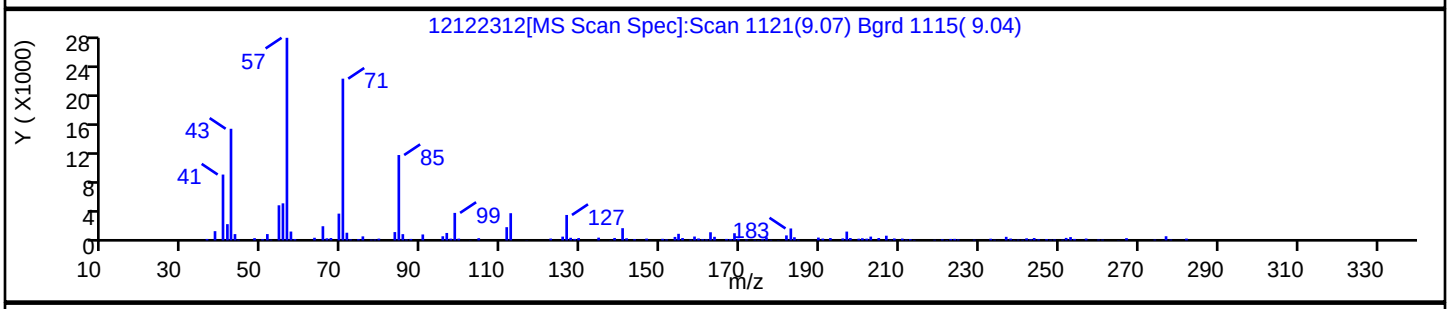
Shealy Environmental Services

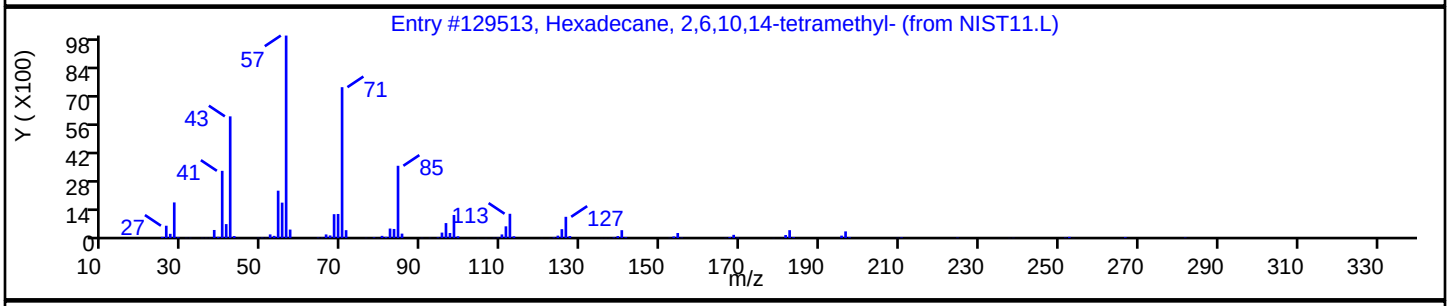
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

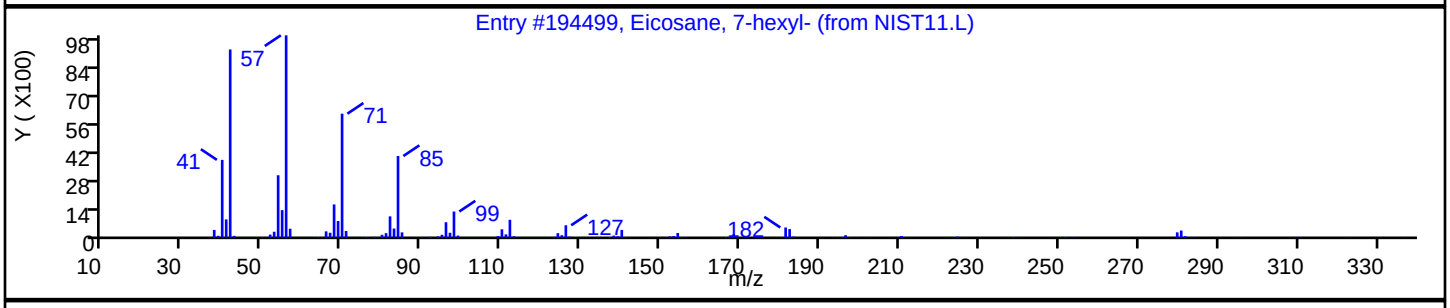
TIC @ 9.065

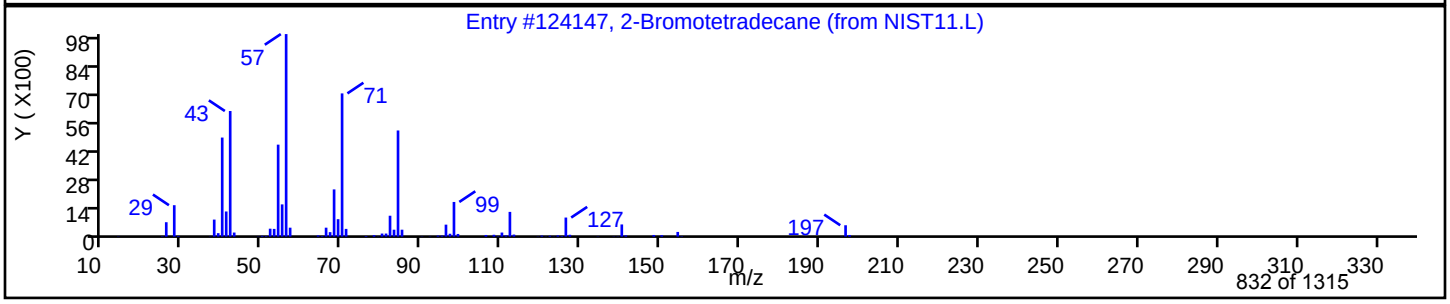
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	NIST11	129513	C20H42	282	94
Eicosane, 7-hexyl-	55333-99-8	NIST11	194499	C26H54	366	90
2-Bromotetradecane	74036-95-6	NIST11	124147	C14H29Br	276	87











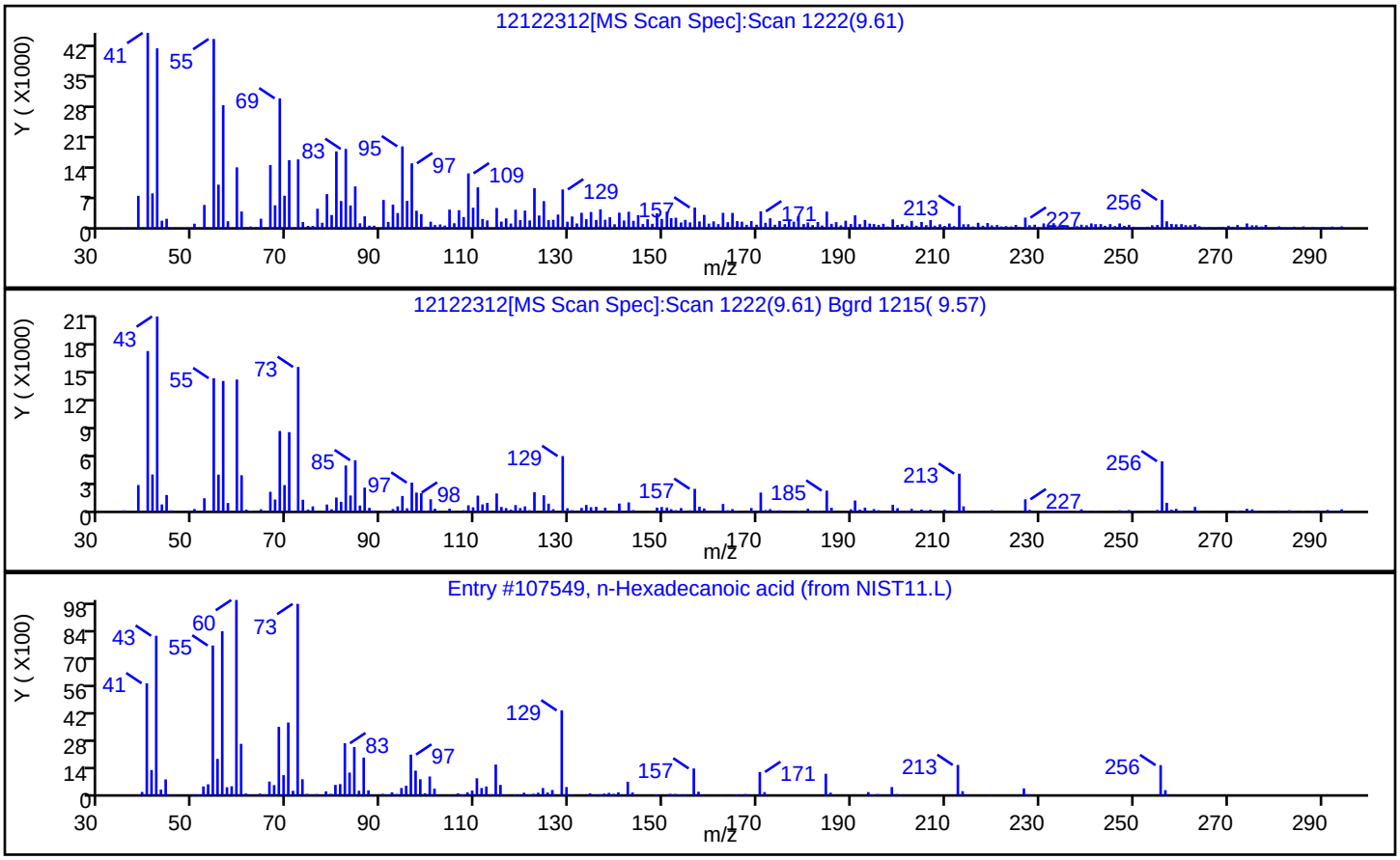
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.604

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
n-Hexadecanoic acid	57-10-3	NIST11	107549	C16H32O2	256	98



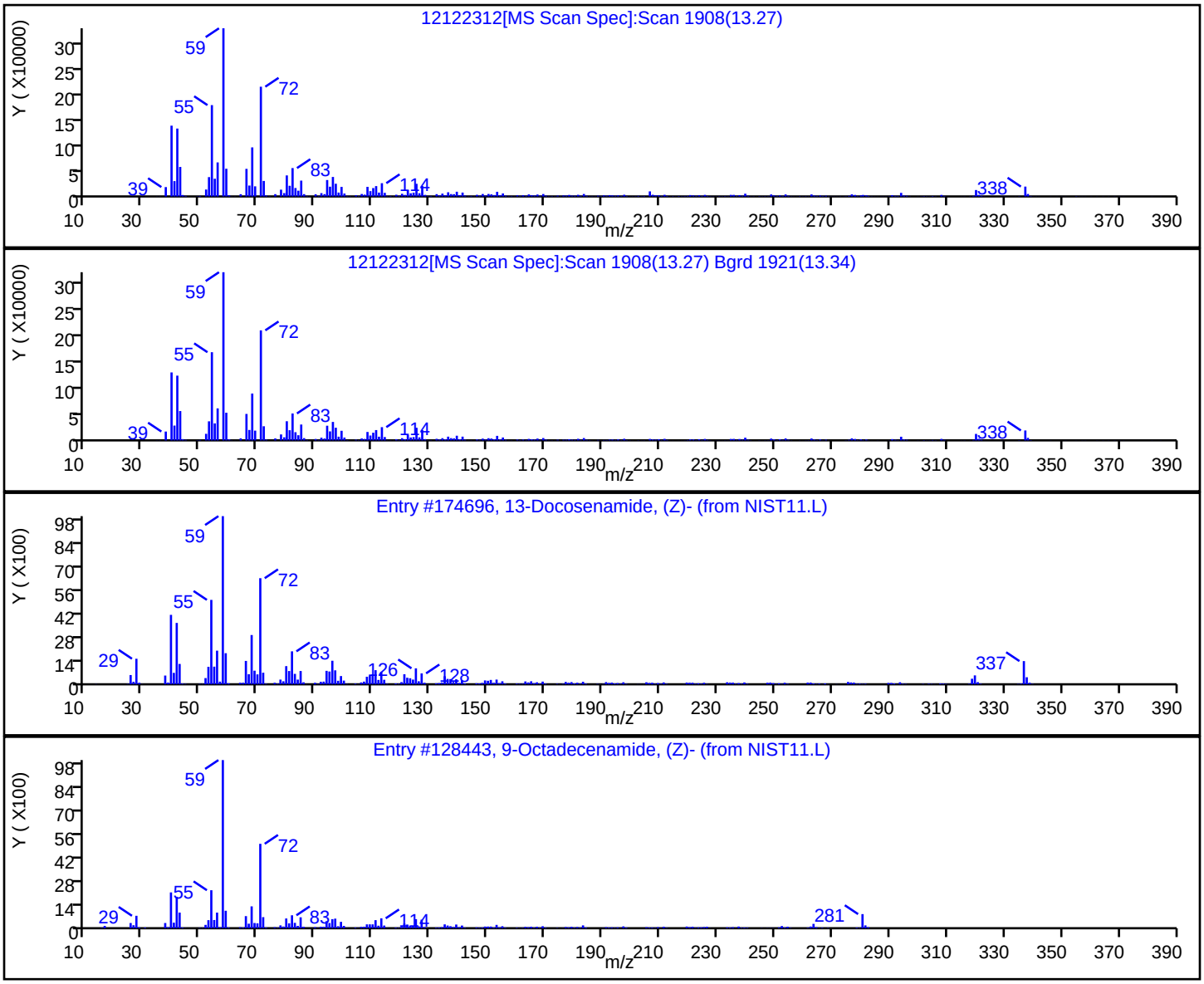
Report Date: 23-Dec-2015 16:08:36 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122312.D		
Injection Date:	23-Dec-2015 13:38:30	Inst. ID:	msd12.i
Client ID:	F6R28	Lab ID:	QL12004-009
Sample Info:	12122315.b, QL12004-009		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 13.269

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
13-Docosenamide, (Z)-	112-84-5	NIST11	174696	C22H43NO	337	95
9-Octadecenamide, (Z)-	301-02-0	NIST11	128443	C18H35NO	281	86



SEMIVOLATILE STANDARDS DATA

-Initial Calibration Data Form 6A-OR

-Continuing Calibration Verification Data Form 7A-OR

Initial Calibration

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Calibration Time(s): 0848 1042

Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

LAB FILE ID: 12121102 RRF 5.0 = 12121102 RRF 10 = 12121103
RRF 20 = 12121104 RRF 40 = 12121105 RRF 80 = 12121106

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
1,4-Dioxane	0.829	0.776	0.755	0.810	0.855	0.805	5.0
Benzaldehyde	1.346	1.428	1.402	1.370	0.914	1.292	16.5
Phenol	1.659	1.834	2.009	2.218	2.231	1.990	12.4
Bis(2-Chloroethyl) ether	1.298	1.400	1.500	1.605	1.684	1.497	10.3
2-Chlorophenol	1.258	1.386	1.528	1.707	1.784	1.533	14.2
2-Methylphenol	1.127	1.226	1.351	1.441	1.589	1.347	13.4
2,2'-Oxybis(1-chloropropane)	2.579	2.756	2.897	2.940	2.734	2.781	5.2
Acetophenone	1.716	1.881	2.047	2.213	2.337	2.039	12.2
4-Methylphenol	1.224	1.338	1.456	1.551	1.736	1.461	13.5
N-Nitroso-di-n propylamine	1.126	1.240	1.345	1.427	1.255	1.279	8.9
Hexachloroethane	0.522	0.582	0.639	0.688	0.719	0.630	12.6
Nitrobenzene	0.387	0.417	0.444	0.464	0.463	0.435	7.5
Isophorone	0.647	0.713	0.764	0.783	0.792	0.740	8.2
2-Nitrophenol	0.155	0.179	0.202	0.230	0.232	0.200	16.7
2,4-Dimethylphenol	0.322	0.359	0.405	0.434	0.365	0.377	11.5
Bis(2-chloroethoxy)methane	0.354	0.389	0.421	0.455	0.447	0.413	10.2
2,4-Dichlorophenol	0.227	0.259	0.296	0.336	0.326	0.289	15.9
Naphthalene	0.932	1.082	1.224	1.216	0.936	1.078	13.3
4-Chloroaniline	0.485	0.560	0.647	0.690	0.605	0.597	13.3
Hexachlorobutadiene	0.148	0.164	0.182	0.199	0.200	0.179	12.7
Caprolactam	0.085	0.095	0.073	0.066	0.087	0.081	14.1
4-Chloro-3-methylphenol	0.251	0.281	0.309	0.340	0.367	0.310	14.8
2-Methylnaphthalene	0.578	0.662	0.751	0.800	0.687	0.696	12.2
Hexachlorocyclo-pentadiene	0.291	0.340	0.405	0.438	0.451	0.385	17.6
2,4,6-Trichlorophenol	0.282	0.318	0.370	0.404	0.446	0.364	18.1
2,4,5-Trichlorophenol	0.294	0.337	0.386	0.426	0.470	0.383	18.3
1,1'-Biphenyl	1.226	1.410	1.627	1.669	1.435	1.473	12.2
2-Chloronaphthalene	0.918	1.050	1.210	1.264	1.220	1.132	12.8
2-Nitroaniline	0.354	0.394	0.450	0.475	0.496	0.434	13.6
Dimethylphthalate	1.035	1.166	1.371	1.505	1.517	1.319	16.1
2,6-Dinitrotoluene	0.214	0.254	0.301	0.340	0.390	0.300	23.1
Acenaphthylene	1.482	1.720	1.988	2.134	1.696	1.804	14.3
3-Nitroaniline	0.237	0.285	0.327	0.347	0.374	0.314	17.2
Acenaphthene	1.020	1.223	1.460	1.458	1.093	1.251	16.3
2,4-Dinitrophenol	0.126	0.169	0.224	0.273	0.251	0.209	29.0

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Calibration Time(s): 0848 1042

Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

LAB FILE ID: 12121102 RRF 5.0 = 12121102 RRF 10 = 12121103
RRF 20 = 12121104 RRF 40 = 12121105 RRF 80 = 12121106

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
4-Nitrophenol	0.195	0.215	0.230	0.235	0.228	0.221	7.4
Dibenzofuran	1.327	1.452	1.671	1.851	1.685	1.597	13.0
2,4-Dinitrotoluene	0.286	0.357	0.418	0.463	0.525	0.410	22.6
Diethylphthalate	1.015	1.199	1.421	1.535	1.438	1.321	16.0
1,2,4,5-Tetrachlorobenzene	0.451	0.510	0.593	0.642	0.621	0.563	14.3
4-Chlorophenyl-phenyl ether	0.536	0.612	0.753	0.810	0.577	0.658	18.0
Fluorene	1.133	1.349	1.703	1.699	1.354	1.448	17.1
4-Nitroaniline	0.271	0.330	0.408	0.429	0.291	0.346	20.2
4,6-Dinitro-2-methylphenol	0.118	0.148	0.182	0.210	0.219	0.175	24.3
4-Bromophenyl-phenylether	0.182	0.200	0.228	0.260	0.275	0.229	17.2
N-Nitrosodiphenylamine	0.552	0.616	0.709	0.787	0.712	0.675	13.6
Hexachlorobenzene	0.219	0.247	0.281	0.315	0.308	0.274	14.9
Atrazine	0.202	0.235	0.267	0.283	0.237	0.245	12.8
Pentachlorophenol	0.126	0.146	0.167	0.191	0.219	0.170	21.6
Phenanthrene	0.942	1.051	1.180	1.251	1.144	1.114	10.8
Anthracene	0.948	1.075	1.255	1.324	1.026	1.126	14.1
Carbazole	0.860	0.952	1.055	1.085	0.965	0.983	9.1
Di-n-butylphthalate	1.085	1.225	1.362	1.346	1.081	1.220	11.1
Fluoranthene	1.023	1.147	1.278	1.308	1.170	1.185	9.6
Pyrene	0.931	1.049	1.155	1.168	0.972	1.055	10.1
Butylbenzylphthalate	0.389	0.433	0.479	0.510	0.508	0.464	11.3
3,3'-Dichlorobenzidine	0.343	0.378	0.389	0.365	0.352	0.365	5.2
Benzo(a)anthracene	0.962	1.035	1.092	1.102	1.066	1.051	5.4
Chrysene	0.896	0.973	1.040	1.067	0.991	0.993	6.7
Bis(2-ethylhexyl)phthalate	0.543	0.619	0.696	0.734	0.668	0.652	11.3
Di-n-octylphthalate	0.910	1.085	1.277	1.436	1.319	1.205	17.3
Benzo(b)fluoranthene	0.939	1.033	1.141	1.210	1.451	1.155	16.9
Benzo(k)fluoranthene	0.975	1.087	1.174	1.290	1.206	1.146	10.5
Benzo(a)pyrene	0.948	1.048	1.151	1.264	1.400	1.162	15.3
Indeno(1,2,3-cd)pyrene	1.189	1.279	1.268	1.264	1.328	1.266	3.9
Dibenzo(a,h)anthracene	1.034	1.127	1.144	1.180	1.244	1.146	6.7
Benzo(g,h,i)perylene	0.986	1.045	0.972	0.883	0.824	0.942	9.3
2,3,4,6-Tetrachlorophenol	0.233	0.278	0.335	0.390	0.426	0.332	23.7
1,4-Dioxane-d8	0.596	0.602	0.662	0.739	0.752	0.670	10.9
Phenol-d5	1.521	1.691	1.844	2.017	2.087	1.832	12.7

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Calibration Time(s): 0848 1042

Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

LAB FILE ID: 12121102 RRF 5.0 = 12121102 RRF 10 = 12121103
RRF 20 = 12121104 RRF 40 = 12121105 RRF 80 = 12121106

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Bis-(2-chloroethyl)ether-d8	1.126	1.186	1.238	1.292	1.335	1.236	6.7
2-Chlorophenol-d4	1.010	1.108	1.211	1.326	1.405	1.212	13.2
4-Methylphenol-d8	1.116	1.235	1.335	1.417	1.550	1.331	12.5
4-Chloroaniline-d4	0.363	0.426	0.487	0.507	0.408	0.438	13.4
Nitrobenzene-d5	0.138	0.154	0.172	0.189	0.211	0.173	16.7
2-Nitrophenol-d4	0.150	0.177	0.210	0.239	0.214	0.198	17.6
2,4-Dichlorophenol-d3	0.231	0.262	0.300	0.334	0.326	0.291	14.9
Dimethylphthalate-d6	1.029	1.142	1.335	1.472	1.554	1.306	16.8
Acenaphthylene-d8	1.419	1.635	1.867	1.982	1.740	1.728	12.5
4-Nitrophenol-d4	0.218	0.275	0.355	0.380	0.369	0.319	21.9
Fluorene-d10	0.997	1.133	1.389	1.477	1.132	1.226	16.3
4,6-Dinitro-2-methylphenol-d2	0.118	0.155	0.197	0.219	0.221	0.182	24.5
Anthracene-d10	0.844	0.945	1.084	1.169	1.057	1.020	12.4
Pyrene-d10	0.765	0.861	0.929	0.923	0.885	0.873	7.6
Benzo(a)pyrene-d12	0.805	0.886	0.964	1.021	1.172	0.970	14.4

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121102.D		
Lab Sample ID:	SSTD005NG	Client Sample ID:	SSTD005NG
Injection Date:	11-Dec-2015 08:48:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12121115.b, SVMS 1680		
Misc. Info:	L1		
Method:	\\Organics\HH\chem\msd12.i\12121115.b\SOMBNA.m		
Method Date:	11-Dec-2015 15:58:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Ical, Level: 1	ALS Bottle:	1
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	11-Dec-2015 15:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.117	5.117	0.000	118823	5.0000	4.1521	
108 1,4-Dioxane	88.0	3.338	3.338	0.000	25896	2.0000	2.0594	
$ 109 1,4-Dioxane-d8	96.0	3.311	3.311	0.000	18625	2.0000	1.7793	
4 Phenol	94.0	5.128	5.128	0.000	129576	5.0000	4.1674	
2 Benzaldehyde	77.0	5.144	5.144	0.000	105150	5.0000	5.2088	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	87927	5.0000	4.5553	
5 bis(2-Chloroethyl)Ether	93.0	5.229	5.229	0.000	101396	5.0000	4.3350	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	78896	5.0000	4.1670	
7 2-Chlorophenol	128.0	5.309	5.309	0.000	98267	5.0000	4.1038	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	312431	20.000	20.000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	88041	5.0000	4.1850	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.651	5.651	0.000	201402	5.0000	4.6360	
$ 94 4-Methylphenol-d8	113.0	5.705	5.705	0.000	87174	5.0000	4.1936	
14 4-Methylphenol	108.0	5.726	5.726	0.000	95606	5.0000	4.1889	
13 N-Nitroso-di-n-propylamine	70.0	5.758	5.758	0.000	87948	5.0000	4.4024	
12 Acetophenone	105.0	5.780	5.780	0.000	134026	5.0000	4.2081	
15 Hexachloroethane	117.0	5.897	5.897	0.000	40740	5.0000	4.1401	
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	43979	5.0000	3.9873	
17 Nitrobenzene	77.0	5.929	5.929	0.000	123557	5.0000	4.4508	
18 Isophorone	82.0	6.111	6.111	0.000	206304	5.0000	4.3714	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	102849	5.0000	4.2738	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	47870	5.0000	3.7899	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	49369	5.0000	3.8761	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	112930	5.0000	4.2837	

Report Date: 11-Dec-2015 16:07:58 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121102.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.367	0.000	73738	5.0000	3.9767	
22 2,4-Dichlorophenol	162.0	6.373	6.373	0.000	72385	5.0000	3.9296	
* 23 Naphthalene-d8	136.0	6.522	6.522	0.000	1275829	20.000	20.000	
24 Naphthalene	128.0	6.538	6.538	0.000	297370	5.0000	4.3242	
$ 97 4-Chloroaniline-d4	131.0	6.543	6.543	0.000	115831	5.0000	4.1439	
25 4-Chloroaniline	127.0	6.549	6.549	0.000	154700	5.0000	4.0588	
26 Hexachlorobutadiene	225.0	6.613	6.613	0.000	47131	5.0000	4.1354	
27 Caprolactam	113.0	6.837	6.837	0.000	27213	5.0000	5.2458	
28 4-Chloro-3-methylphenol	107.0	6.917	6.917	0.000	80051	5.0000	4.0531	
29 2-Methylnaphthalene	142.0	7.110	7.110	0.000	184376	5.0000	4.1549	
30 Hexachlorocyclopentadiene	237.0	7.233	7.233	0.000	50081	5.0000	3.7771	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.243	7.243	0.000	77643	5.0000	4.0033	
31 2,4,6-Trichlorophenol	196.0	7.329	7.329	0.000	48469	5.0000	3.8669	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	50543	5.0000	3.8368	
34 1,1'-Biphenyl	154.0	7.489	7.489	0.000	210996	5.0000	4.1602	
35 2-Chloronaphthalene	162.0	7.526	7.526	0.000	158036	5.0000	4.0533	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	60926	5.0000	4.0792	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	177156	5.0000	3.9387	
37 Dimethylphthalate	163.0	7.708	7.708	0.000	178185	5.0000	3.9243	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	36848	5.0000	3.5699	
$ 99 Acenaphthylene-d8	160.0	7.874	7.874	0.000	244364	5.0000	4.1061	
38 Acenaphthylene	152.0	7.884	7.884	0.000	255118	5.0000	4.1081	
40 3-Nitroaniline	138.0	7.932	7.932	0.000	40784	5.0000	3.7718	
* 41 Acenaphthene-d10	164.0	8.002	8.002	0.000	688610	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.018	8.018	0.000	21640	5.0000	3.0131	
42 Acenaphthene	153.0	8.029	8.029	0.000	175674	5.0000	4.0790	
$ 100 4-Nitrophenol-d4	143.0	8.018	8.018	0.000	37526	5.0000	3.4125	
44 4-Nitrophenol	109.0	8.029	8.029	0.000	33530	5.0000	4.4109	
46 2,4-Dinitrotoluene	165.0	8.119	8.119	0.000	49208	5.0000	3.4881	
45 Dibenzofuran	168.0	8.173	8.173	0.000	228470	5.0000	4.1544	
107 2,3,4,6-Tetrachlorophenol	232.0	8.258	8.258	0.000	40046	5.0000	3.4998	
47 Diethylphthalate	149.0	8.290	8.290	0.000	174660	5.0000	3.8391	
49 4-Chlorophenyl-phenylether	204.0	8.429	8.429	0.000	92255	5.0000	4.0734	
$ 101 Fluorene-d10	176.0	8.440	8.440	0.000	171652	5.0000	4.0675	
50 4-Nitroaniline	138.0	8.451	8.451	0.000	46690	5.0000	3.9187	
48 Fluorene	166.0	8.467	8.467	0.000	194987	5.0000	3.9121	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.467	8.467	0.000	32904	5.0000	3.2419	
51 4,6-Dinitro-2-methylphenol	198.0	8.472	8.472	0.000	32797	5.0000	3.3557	
52 N-Nitrosodiphenylamine	169.0	8.525	8.525	0.000	153749	5.0000	4.0862	
54 4-Bromophenyl-phenylether	248.0	8.851	8.851	0.000	50682	5.0000	3.9709	
55 Hexachlorobenzene	284.0	8.937	8.937	0.000	60972	5.0000	3.9912	
56 Atrazine	200.0	8.942	8.942	0.000	56327	5.0000	4.1258	
57 Pentachlorophenol	266.0	9.092	9.092	0.000	35034	5.0000	3.7028	
* 58 Phenanthrene-d10	188.0	9.273	9.273	0.000	1115129	20.000	20.000	
59 Phenanthrene	178.0	9.295	9.295	0.000	262549	5.0000	4.2283	
$ 103 Anthracene-d10	188.0	9.321	9.321	0.000	235239	5.0000	4.1378	
60 Anthracene	178.0	9.337	9.337	0.000	264271	5.0000	4.2109	
106 Carbazole	167.0	9.455	9.455	0.000	239773	5.0000	4.3727	
62 Di-n-butylphthalate	149.0	9.674	9.674	0.000	302546	5.0000	4.4488	
63 Fluoranthene	202.0	10.406	10.406	0.000	285077	5.0000	4.3143	
$ 104 Pyrene-d10	212.0	10.641	10.641	0.000	253259	5.0000	4.3845	

Report Date: 11-Dec-2015 16:07:58 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121102.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
64 Pyrene	202.0	10.662	10.662	0.000	308231	5.0000	4.4129	
66 Butylbenzylphthalate	149.0	11.287	11.287	0.000	128653	5.0000	4.1916	
71 bis(2-Ethylhexyl)phthalate	149.0	12.019	12.019	0.000	179829	5.0000	4.1665	
68 3,3'-Dichlorobenzidine	252.0	12.073	12.073	0.000	113392	5.0000	4.6880	
67 Benzo(a)anthracene	228.0	12.164	12.164	0.000	318288	5.0000	4.5743	
* 69 Chrysene-d12	240.0	12.185	12.185	0.000	1323828	20.000	20.000	
70 Chrysene	228.0	12.222	12.222	0.000	296518	5.0000	4.5098	
72 Di-n-octylphthalate	149.0	13.008	13.008	0.000	298043	5.0000	3.7752	
73 Benzo(b)fluoranthene	252.0	13.809	13.809	0.000	307685	5.0000	4.0679	
74 Benzo(k)fluoranthene	252.0	13.852	13.852	0.000	319344	5.0000	4.2525	
$ 105 Benzo(a)pyrene-d12	264.0	14.316	14.316	0.000	263610	5.0000	4.1509	
75 Benzo(a)pyrene	252.0	14.359	14.359	0.000	310342	5.0000	4.0763	
* 76 Perylene-d12	264.0	14.466	14.466	0.000	1310041	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.608	16.608	0.000	389445	5.0000	4.6974	
78 Dibenzo(a,h)anthracene	278.0	16.619	16.619	0.000	338619	5.0000	4.5119	
79 Benzo(g,h,i)perylene	276.0	17.255	17.255	0.000	322885	5.0000	5.2327	

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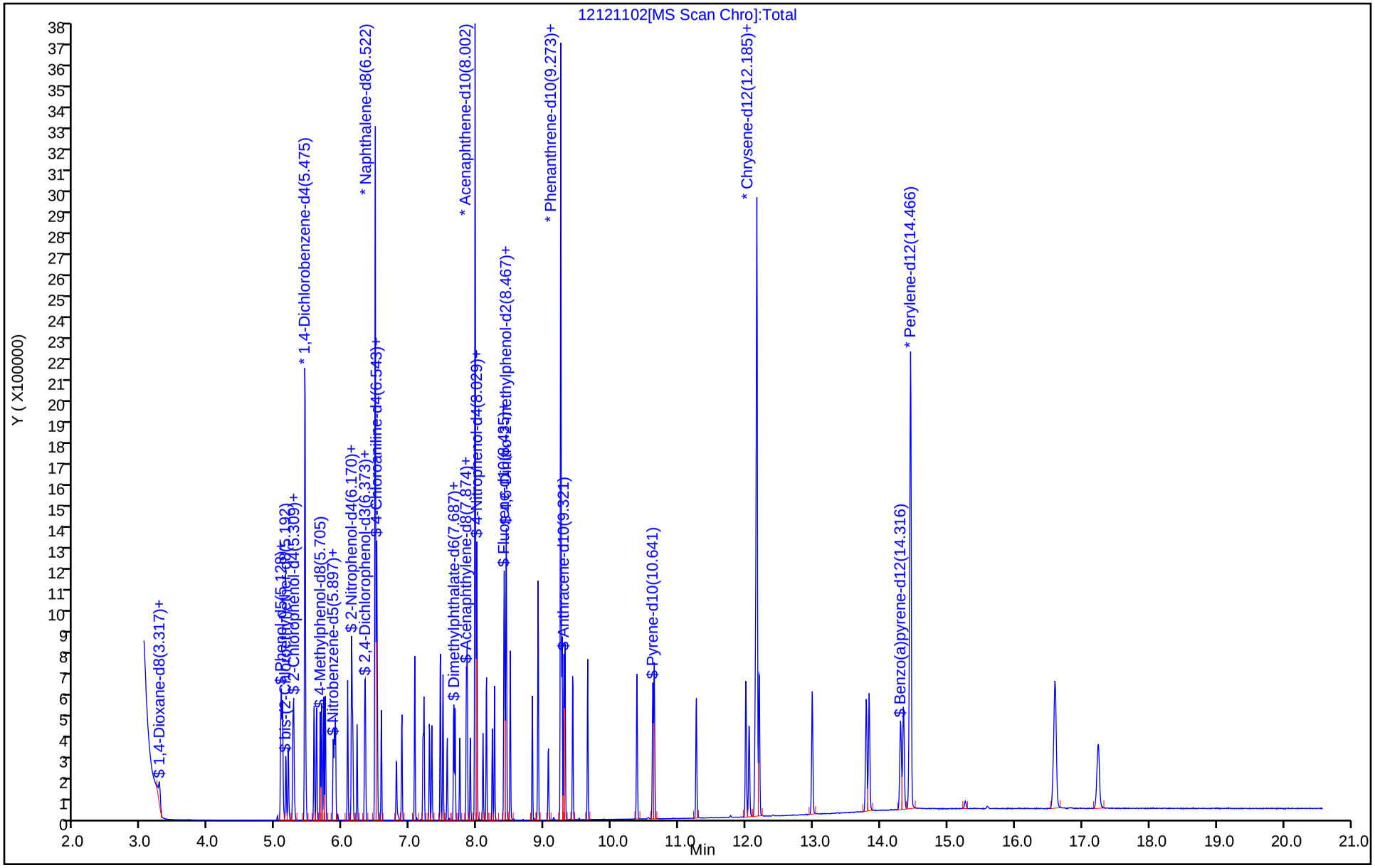
Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121102.D				
Injection Date:	11-Dec-2015 08:48:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD005NG	Lab ID:	SSTD005NG		
Sample Info:	12121115.b, SVMS 1680				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121103.D		
Lab Sample ID:	SSTD010NG	Client Sample ID:	SSTD010NG
Injection Date:	11-Dec-2015 09:16:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12121115.b, SVMS 1681		
Misc. Info:	L2		
Method:	\\Organics\HH\chem\msd12.i\12121115.b\SOMBNA.m		
Method Date:	11-Dec-2015 15:58:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Ical, Level: 2	ALS Bottle:	2
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	11-Dec-2015 15:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.117	5.117	0.000	251660	10.000	9.2310	
108 1,4-Dioxane	88.0	3.338	3.338	0.000	46186	4.0000	3.8555	
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	35842	4.0000	3.5944	
4 Phenol	94.0	5.128	5.128	0.000	272992	10.000	9.2163	
2 Benzaldehyde	77.0	5.144	5.144	0.000	212568	10.000	11.053	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	176568	10.000	9.6023	
5 bis(2-Chloroethyl)Ether	93.0	5.230	5.230	0.000	208342	10.000	9.3500	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	164917	10.000	9.1432	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	206289	10.000	9.0433	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	297636	20.000	20.000	
10 2-Methylphenol	108.0	5.609	5.609	0.000	182429	10.000	9.1027	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.646	5.646	0.000	410157	10.000	9.9105	
$ 94 4-Methylphenol-d8	113.0	5.705	5.705	0.000	183771	10.000	9.2800	
14 4-Methylphenol	108.0	5.726	5.726	0.000	199191	10.000	9.1613	
13 N-Nitroso-di-n-propylamine	70.0	5.758	5.758	0.000	184572	10.000	9.6984	
12 Acetophenone	105.0	5.780	5.780	0.000	279927	10.000	9.2259	
15 Hexachloroethane	117.0	5.897	5.897	0.000	86644	10.000	9.2426	
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	94821	10.000	8.9142	
17 Nitrobenzene	77.0	5.929	5.929	0.000	256714	10.000	9.5890	
18 Isophorone	82.0	6.111	6.111	0.000	438552	10.000	9.6356	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	221060	10.000	9.5252	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	108813	10.000	8.9328	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	110201	10.000	8.9718	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	239395	10.000	9.4162	

Report Date: 11-Dec-2015 16:07:58 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121103.D

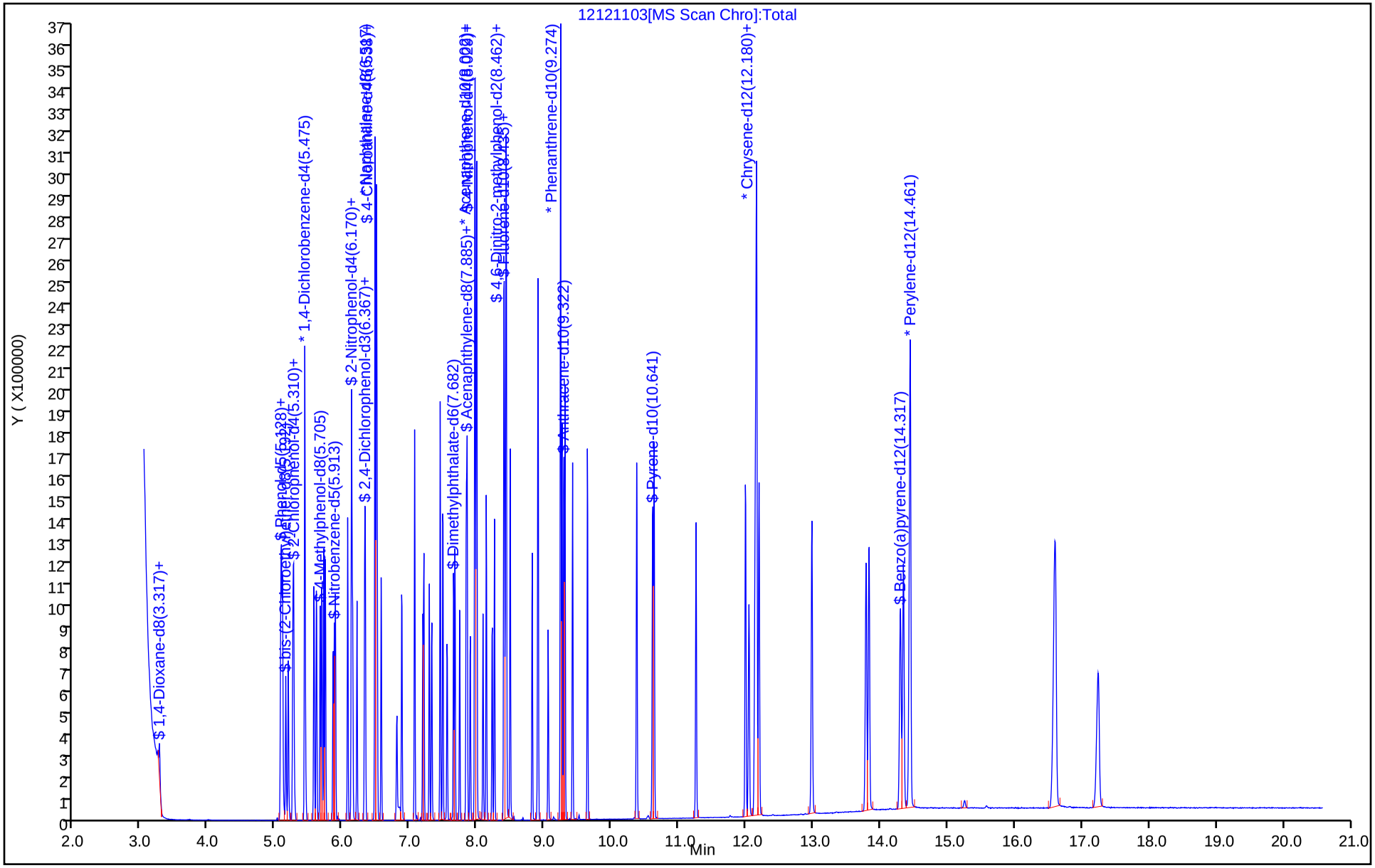
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.362	0.000	161427	10.000	9.0273	
22 2,4-Dichlorophenol	162.0	6.373	6.373	0.000	159114	10.000	8.9569	
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1230399	20.000	20.000	
24 Naphthalene	128.0	6.538	6.538	0.000	665857	10.000	10.040	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	261968	10.000	9.7181	
25 4-Chloroaniline	127.0	6.549	6.549	0.000	344274	10.000	9.3662	
26 Hexachlorobutadiene	225.0	6.608	6.608	0.000	101058	10.000	9.1944	
27 Caprolactam	113.0	6.843	6.843	0.000	58452	10.000	11.684	
28 4-Chloro-3-methylphenol	107.0	6.912	6.912	0.000	173115	10.000	9.0887	
29 2-Methylnaphthalene	142.0	7.105	7.105	0.000	407383	10.000	9.5194	
30 Hexachlorocyclopentadiene	237.0	7.228	7.228	0.000	113051	10.000	8.8402	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.244	7.244	0.000	169276	10.000	9.0494	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	105688	10.000	8.7423	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	111966	10.000	8.8125	
34 1,1'-Biphenyl	154.0	7.484	7.484	0.000	468087	10.000	9.5691	
35 2-Chloronaphthalene	162.0	7.527	7.527	0.000	348766	10.000	9.2746	
36 2-Nitroaniline	65.0	7.585	7.585	0.000	130721	10.000	9.0745	
$ 98 Dimethylphthalate-d6	166.0	7.682	7.682	0.000	379154	10.000	8.7400	
37 Dimethylphthalate	163.0	7.703	7.703	0.000	387209	10.000	8.8417	
39 2,6-Dinitrotoluene	165.0	7.772	7.772	0.000	84308	10.000	8.4686	
$ 99 Acenaphthylene-d8	160.0	7.874	7.874	0.000	542956	10.000	9.4592	
38 Acenaphthylene	152.0	7.885	7.885	0.000	571033	10.000	9.5338	
40 3-Nitroaniline	138.0	7.933	7.933	0.000	94766	10.000	9.0869	
* 41 Acenaphthene-d10	164.0	8.002	8.002	0.000	664158	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.013	8.013	0.000	56226	10.000	8.1171	
42 Acenaphthene	153.0	8.029	8.029	0.000	406026	10.000	9.7747	
$ 100 4-Nitrophenol-d4	143.0	8.024	8.024	0.000	91331	10.000	8.6111	
44 4-Nitrophenol	109.0	8.029	8.029	0.000	71505	10.000	9.7530	
46 2,4-Dinitrotoluene	165.0	8.120	8.120	0.000	118595	10.000	8.7160	
45 Dibenzofuran	168.0	8.168	8.168	0.000	482251	10.000	9.0920	
107 2,3,4,6-Tetrachlorophenol	232.0	8.259	8.259	0.000	92466	10.000	8.3786	
47 Diethylphthalate	149.0	8.291	8.291	0.000	398083	10.000	9.0722	
49 4-Chlorophenyl-phenylether	204.0	8.430	8.430	0.000	203315	10.000	9.3076	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	376409	10.000	9.2479	
50 4-Nitroaniline	138.0	8.456	8.456	0.000	109690	10.000	9.5453	
48 Fluorene	166.0	8.462	8.462	0.000	448038	10.000	9.3202	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.467	8.467	0.000	88004	10.000	8.4884	
51 4,6-Dinitro-2-methylphenol	198.0	8.472	8.472	0.000	84275	10.000	8.4416	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	350664	10.000	9.1236	
54 4-Bromophenyl-phenylether	248.0	8.852	8.852	0.000	113655	10.000	8.7175	
55 Hexachlorobenzene	284.0	8.937	8.937	0.000	140871	10.000	9.0275	
56 Atrazine	200.0	8.942	8.942	0.000	133786	10.000	9.5933	
57 Pentachlorophenol	266.0	9.087	9.087	0.000	83344	10.000	8.6235	
* 58 Phenanthrene-d10	188.0	9.274	9.274	0.000	1139084	20.000	20.000	
59 Phenanthrene	178.0	9.295	9.295	0.000	598866	10.000	9.4418	
$ 103 Anthracene-d10	188.0	9.322	9.322	0.000	538410	10.000	9.2713	
60 Anthracene	178.0	9.338	9.338	0.000	612390	10.000	9.5527	
106 Carbazole	167.0	9.450	9.450	0.000	542302	10.000	9.6818	
62 Di-n-butylphthalate	149.0	9.669	9.669	0.000	697507	10.000	10.041	
63 Fluoranthene	202.0	10.401	10.401	0.000	653516	10.000	9.6822	
$ 104 Pyrene-d10	212.0	10.641	10.641	0.000	578763	10.000	9.8665	

Report Date: 11-Dec-2015 16:07:58 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121103.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
64 Pyrene	202.0	10.657	10.657	0.000	705243	10.000	9.9426	
66 Butylbenzylphthalate	149.0	11.282	11.282	0.000	291127	10.000	9.3401	
71 bis(2-Ethylhexyl)phthalate	149.0	12.014	12.014	0.000	415998	10.000	9.4910	
68 3,3'-Dichlorobenzidine	252.0	12.068	12.068	0.000	254081	10.000	10.344	
67 Benzo(a)anthracene	228.0	12.158	12.158	0.000	695679	10.000	9.8451	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	1344375	20.000	20.000	
70 Chrysene	228.0	12.217	12.217	0.000	653925	10.000	9.7936	
72 Di-n-octylphthalate	149.0	13.003	13.003	0.000	708728	10.000	9.0008	
73 Benzo(b)fluoranthene	252.0	13.804	13.804	0.000	674856	10.000	8.9459	
74 Benzo(k)fluoranthene	252.0	13.852	13.852	0.000	709945	10.000	9.4788	
$ 105 Benzo(a)pyrene-d12	264.0	14.317	14.317	0.000	578975	10.000	9.1409	
75 Benzo(a)pyrene	252.0	14.359	14.359	0.000	684908	10.000	9.0200	
* 76 Perylene-d12	264.0	14.461	14.461	0.000	1306591	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.598	16.598	0.000	835419	10.000	10.103	
78 Dibenzo(a,h)anthracene	278.0	16.619	16.619	0.000	735938	10.000	9.8319	
79 Benzo(g,h,i)perylene	276.0	17.255	17.255	0.000	682684	10.000	11.093	

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121103.D				
Injection Date:	11-Dec-2015 09:16:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD010NG	Lab ID:	SSTD010NG		
Sample Info:	12121115.b, SVMS 1681				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121104.D		
Lab Sample ID:	SSTD020NG	Client Sample ID:	SSTD020NG
Injection Date:	11-Dec-2015 09:44:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12121115.b, SVMS 1673		
Misc. Info:	L3		
Method:	\\Organics\HH\chem\msd12.i\12121115.b\SOMBNA.m		
Method Date:	11-Dec-2015 15:58:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Ical, Level: 3	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	11-Dec-2015 15:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	586872	20.000	20.128	
108 1,4-Dioxane	88.0	3.338	3.338	0.000	96081	8.0000	7.4995	
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	84254	8.0000	7.9005	
4 Phenol	94.0	5.133	5.133	0.000	639572	20.000	20.189	
2 Benzaldehyde	77.0	5.144	5.144	0.000	446393	20.000	21.704	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.197	5.197	0.000	394225	20.000	20.046	
5 bis(2-Chloroethyl)Ether	93.0	5.229	5.229	0.000	477459	20.000	20.035	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	385488	20.000	19.984	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	486489	20.000	19.941	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	318315	20.000	20.000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	429946	20.000	20.059	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.651	5.651	0.000	922131	20.000	20.834	
$ 94 4-Methylphenol-d8	113.0	5.710	5.710	0.000	424903	20.000	20.063	
14 4-Methylphenol	108.0	5.732	5.732	0.000	463561	20.000	19.935	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	428263	20.000	21.041	
12 Acetophenone	105.0	5.785	5.785	0.000	651610	20.000	20.081	
15 Hexachloroethane	117.0	5.897	5.897	0.000	203362	20.000	20.284	
$ 16 Nitrobenzene-d5	128.0	5.919	5.919	0.000	227034	20.000	19.877	
17 Nitrobenzene	77.0	5.935	5.935	0.000	586656	20.000	20.408	
18 Isophorone	82.0	6.116	6.116	0.000	1009608	20.000	20.658	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	534973	20.000	21.468	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	277346	20.000	21.204	
19 2-Nitrophenol	139.0	6.191	6.191	0.000	266771	20.000	20.226	
21 bis(2-Chloroethoxy)methane	93.0	6.255	6.255	0.000	555777	20.000	20.358	

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Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.367	0.000	396857	20.000	20.668	
22 2,4-Dichlorophenol	162.0	6.378	6.378	0.000	391031	20.000	20.500	
* 23 Naphthalene-d8	136.0	6.522	6.522	0.000	1321174	20.000	20.000	
24 Naphthalene	128.0	6.538	6.538	0.000	1616895	20.000	22.705	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	644071	20.000	22.251	
25 4-Chloroaniline	127.0	6.554	6.554	0.000	854886	20.000	21.660	
26 Hexachlorobutadiene	225.0	6.613	6.613	0.000	240683	20.000	20.393	
27 Caprolactam	113.0	6.859	6.859	0.000	96445	20.000	17.953	
28 4-Chloro-3-methylphenol	107.0	6.918	6.918	0.000	408273	20.000	19.962	
29 2-Methylnaphthalene	142.0	7.110	7.110	0.000	991875	20.000	21.585	
30 Hexachlorocyclopentadiene	237.0	7.227	7.227	0.000	282813	20.000	21.021	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.243	7.243	0.000	414031	20.000	21.038	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	258719	20.000	20.342	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	269856	20.000	20.188	
34 1,1'-Biphenyl	154.0	7.489	7.489	0.000	1136564	20.000	22.085	
35 2-Chloronaphthalene	162.0	7.527	7.527	0.000	845255	20.000	21.365	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	314113	20.000	20.726	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	932556	20.000	20.433	
37 Dimethylphthalate	163.0	7.708	7.708	0.000	958037	20.000	20.794	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	210279	20.000	20.077	
$ 99 Acenaphthylene-d8	160.0	7.874	7.874	0.000	1304418	20.000	21.601	
38 Acenaphthylene	152.0	7.890	7.890	0.000	1388770	20.000	22.039	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	228302	20.000	20.808	
* 41 Acenaphthene-d10	164.0	8.002	8.002	0.000	698737	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.018	8.018	0.000	156441	20.000	21.467	
42 Acenaphthene	153.0	8.029	8.029	0.000	1020182	20.000	23.345	
$ 100 4-Nitrophenol-d4	143.0	8.029	8.029	0.000	248299	20.000	22.252	
44 4-Nitrophenol	109.0	8.034	8.034	0.000	160872	20.000	20.856	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	292016	20.000	20.399	
45 Dibenzofuran	168.0	8.173	8.173	0.000	1167297	20.000	20.918	
107 2,3,4,6-Tetrachlorophenol	232.0	8.258	8.258	0.000	234241	20.000	20.175	
47 Diethylphthalate	149.0	8.296	8.296	0.000	992601	20.000	21.502	
49 4-Chlorophenyl-phenylether	204.0	8.429	8.429	0.000	526494	20.000	22.910	
$ 101 Fluorene-d10	176.0	8.440	8.440	0.000	970402	20.000	22.662	
50 4-Nitroaniline	138.0	8.467	8.467	0.000	285401	20.000	23.607	
48 Fluorene	166.0	8.467	8.467	0.000	1189979	20.000	23.529	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	251377	20.000	21.698	
51 4,6-Dinitro-2-methylphenol	198.0	8.477	8.477	0.000	231182	20.000	20.723	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	902402	20.000	21.011	
54 4-Bromophenyl-phenylether	248.0	8.851	8.851	0.000	290065	20.000	19.910	
55 Hexachlorobenzene	284.0	8.937	8.937	0.000	357278	20.000	20.489	
56 Atrazine	200.0	8.948	8.948	0.000	340159	20.000	21.828	
57 Pentachlorophenol	266.0	9.092	9.092	0.000	211954	20.000	19.626	
* 58 Phenanthrene-d10	188.0	9.273	9.273	0.000	1272869	20.000	20.000	
59 Phenanthrene	178.0	9.295	9.295	0.000	1501901	20.000	21.190	
$ 103 Anthracene-d10	188.0	9.322	9.322	0.000	1379244	20.000	21.254	
60 Anthracene	178.0	9.338	9.338	0.000	1597285	20.000	22.297	
106 Carbazole	167.0	9.455	9.455	0.000	1343300	20.000	21.462	
62 Di-n-butylphthalate	149.0	9.674	9.674	0.000	1733214	20.000	22.328	
63 Fluoranthene	202.0	10.406	10.406	0.000	1626505	20.000	21.565	
$ 104 Pyrene-d10	212.0	10.641	10.641	0.000	1400259	20.000	21.299	

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Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
64 Pyrene	202.0	10.662	10.662	0.000	1740483	20.000	21.894	
66 Butylbenzylphthalate	149.0	11.282	11.282	0.000	721343	20.000	20.649	
71 bis(2-Ethylhexyl)phthalate	149.0	12.019	12.019	0.000	1048336	20.000	21.341	
68 3,3'-Dichlorobenzidine	252.0	12.073	12.073	0.000	586810	20.000	21.316	
67 Benzo(a)anthracene	228.0	12.164	12.164	0.000	1644569	20.000	20.766	
* 69 Chrysene-d12	240.0	12.185	12.185	0.000	1506698	20.000	20.000	
70 Chrysene	228.0	12.222	12.222	0.000	1567004	20.000	20.940	
72 Di-n-octylphthalate	149.0	13.002	13.002	0.000	1791592	20.000	21.187	
73 Benzo(b)fluoranthene	252.0	13.814	13.814	0.000	1600501	20.000	19.756	
74 Benzo(k)fluoranthene	252.0	13.857	13.857	0.000	1647851	20.000	20.487	
$ 105 Benzo(a)pyrene-d12	264.0	14.327	14.327	0.000	1352254	20.000	19.880	
75 Benzo(a)pyrene	252.0	14.370	14.370	0.000	1614946	20.000	19.804	
* 76 Perylene-d12	264.0	14.466	14.466	0.000	1403182	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.624	16.624	0.000	1779547	20.000	20.040	
78 Dibenzo(a,h)anthracene	278.0	16.635	16.635	0.000	1605714	20.000	19.975	
79 Benzo(g,h,i)perylene	276.0	17.271	17.271	0.000	1363877	20.000	20.636	

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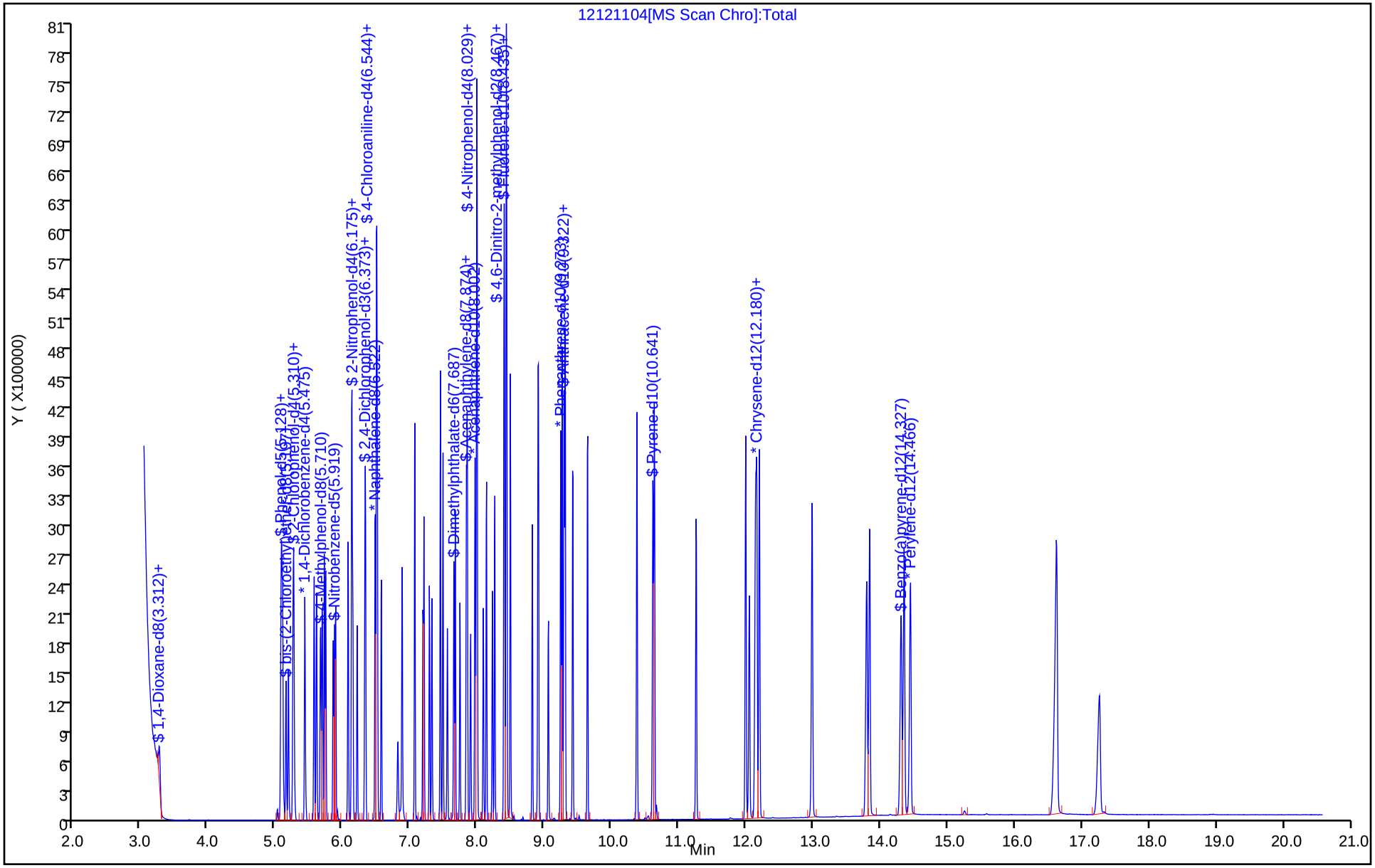
Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121104.D				
Injection Date:	11-Dec-2015 09:44:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020NG	Lab ID:	SSTD020NG		
Sample Info:	12121115.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121105.D		
Lab Sample ID:	SSTD040NG	Client Sample ID:	SSTD040NG
Injection Date:	11-Dec-2015 10:13:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12121115.b, SVMS 1682		
Misc. Info:	L4		
Method:	\\Organics\HH\chem\msd12.i\12121115.b\SOMBNA.m		
Method Date:	11-Dec-2015 15:58:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Ical, Level: 4	ALS Bottle:	4
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	11-Dec-2015 15:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.128	5.128	0.000	1306229	40.000	44.035	
108 1,4-Dioxane	88.0	3.338	3.338	0.000	209951	16.000	16.108	
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	191344	16.000	17.636	
4 Phenol	94.0	5.139	5.139	0.000	1436823	40.000	44.581	
2 Benzaldehyde	77.0	5.149	5.149	0.000	887381	40.000	42.408	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.197	5.197	0.000	837122	40.000	41.840	
5 bis(2-Chloroethyl)Ether	93.0	5.235	5.235	0.000	1039403	40.000	42.871	
$ 6 2-Chlorophenol-d4	132.0	5.304	5.304	0.000	858989	40.000	43.769	
7 2-Chlorophenol	128.0	5.315	5.315	0.000	1105814	40.000	44.553	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	323849	20.000	20.000	
10 2-Methylphenol	108.0	5.619	5.619	0.000	933373	40.000	42.803	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.651	5.651	0.000	1904050	40.000	42.283	
$ 94 4-Methylphenol-d8	113.0	5.716	5.716	0.000	917917	40.000	42.601	
14 4-Methylphenol	108.0	5.742	5.742	0.000	1004455	40.000	42.458	
13 N-Nitroso-di-n-propylamine	70.0	5.774	5.774	0.000	924282	40.000	44.636	
12 Acetophenone	105.0	5.790	5.790	0.000	1433188	40.000	43.412	
15 Hexachloroethane	117.0	5.897	5.897	0.000	445718	40.000	43.698	
$ 16 Nitrobenzene-d5	128.0	5.924	5.924	0.000	513826	40.000	43.781	
17 Nitrobenzene	77.0	5.940	5.940	0.000	1259595	40.000	42.642	
18 Isophorone	82.0	6.127	6.127	0.000	2126651	40.000	42.349	
20 2,4-Dimethylphenol	107.0	6.175	6.175	0.000	1178922	40.000	46.040	
$ 95 2-Nitrophenol-d4	143.0	6.180	6.180	0.000	650245	40.000	48.381	
19 2-Nitrophenol	139.0	6.191	6.191	0.000	625083	40.000	46.123	
21 bis(2-Chloroethoxy)methane	93.0	6.255	6.255	0.000	1235641	40.000	44.049	

Report Date: 11-Dec-2015 16:07:59 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121105.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.373	6.373	0.000	906034	40.000	45.921	
22 2,4-Dichlorophenol	162.0	6.383	6.383	0.000	913042	40.000	46.583	
* 23 Naphthalene-d8	136.0	6.522	6.522	0.000	1357554	20.000	20.000	
24 Naphthalene	128.0	6.544	6.544	0.000	3300610	40.000	45.106	
$ 97 4-Chloroaniline-d4	131.0	6.549	6.549	0.000	1375650	40.000	46.252	
25 4-Chloroaniline	127.0	6.560	6.560	0.000	1874508	40.000	46.221	
26 Hexachlorobutadiene	225.0	6.613	6.613	0.000	541144	40.000	44.623	
27 Caprolactam	113.0	6.875	6.875	0.000	180412	40.000	32.684	
28 4-Chloro-3-methylphenol	107.0	6.928	6.928	0.000	923041	40.000	43.922	
29 2-Methylnaphthalene	142.0	7.110	7.110	0.000	2172763	40.000	46.016	
30 Hexachlorocyclopentadiene	237.0	7.233	7.233	0.000	644027	40.000	45.533	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.249	7.249	0.000	943586	40.000	45.608	
31 2,4,6-Trichlorophenol	196.0	7.329	7.329	0.000	593447	40.000	44.383	
32 2,4,5-Trichlorophenol	196.0	7.366	7.366	0.000	625571	40.000	44.517	
34 1,1'-Biphenyl	154.0	7.489	7.489	0.000	2451757	40.000	45.316	
35 2-Chloronaphthalene	162.0	7.532	7.532	0.000	1857187	40.000	44.653	
36 2-Nitroaniline	65.0	7.596	7.596	0.000	698564	40.000	43.844	
$ 98 Dimethylphthalate-d6	166.0	7.692	7.692	0.000	2162711	40.000	45.074	
37 Dimethylphthalate	163.0	7.714	7.714	0.000	2210900	40.000	45.645	
39 2,6-Dinitrotoluene	165.0	7.788	7.788	0.000	499385	40.000	45.354	
$ 99 Acenaphthylene-d8	160.0	7.879	7.879	0.000	2911233	40.000	45.856	
38 Acenaphthylene	152.0	7.895	7.895	0.000	3134745	40.000	47.319	
40 3-Nitroaniline	138.0	7.943	7.943	0.000	510149	40.000	44.228	
* 41 Acenaphthene-d10	164.0	8.002	8.002	0.000	734579	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.029	8.029	0.000	401616	40.000	52.421	
42 Acenaphthene	153.0	8.034	8.034	0.000	2142228	40.000	46.628	
$ 100 4-Nitrophenol-d4	143.0	8.045	8.045	0.000	557884	40.000	47.557	
44 4-Nitrophenol	109.0	8.050	8.050	0.000	345919	40.000	42.659	
46 2,4-Dinitrotoluene	165.0	8.136	8.136	0.000	679769	40.000	45.170	
45 Dibenzofuran	168.0	8.178	8.178	0.000	2719361	40.000	46.354	
107 2,3,4,6-Tetrachlorophenol	232.0	8.264	8.264	0.000	572596	40.000	46.911	
47 Diethylphthalate	149.0	8.301	8.301	0.000	2255215	40.000	46.469	
49 4-Chlorophenyl-phenylether	204.0	8.435	8.435	0.000	1190385	40.000	49.270	
$ 101 Fluorene-d10	176.0	8.445	8.445	0.000	2170323	40.000	48.210	
50 4-Nitroaniline	138.0	8.483	8.483	0.000	629985	40.000	49.566	
48 Fluorene	166.0	8.472	8.472	0.000	2495812	40.000	46.941	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.483	8.483	0.000	591530	40.000	48.206	
51 4,6-Dinitro-2-methylphenol	198.0	8.488	8.488	0.000	566092	40.000	47.909	
52 N-Nitrosodiphenylamine	169.0	8.531	8.531	0.000	2120727	40.000	46.619	
54 4-Bromophenyl-phenylether	248.0	8.857	8.857	0.000	701895	40.000	45.486	
55 Hexachlorobenzene	284.0	8.942	8.942	0.000	850261	40.000	46.036	
56 Atrazine	200.0	8.953	8.953	0.000	763410	40.000	46.251	
57 Pentachlorophenol	266.0	9.097	9.097	0.000	514964	40.000	45.018	
* 58 Phenanthrene-d10	188.0	9.279	9.279	0.000	1348200	20.000	20.000	
59 Phenanthrene	178.0	9.300	9.300	0.000	3372251	40.000	44.921	
$ 103 Anthracene-d10	188.0	9.327	9.327	0.000	3151950	40.000	45.857	
60 Anthracene	178.0	9.348	9.348	0.000	3569813	40.000	47.049	
106 Carbazole	167.0	9.455	9.455	0.000	2924538	40.000	44.114	
62 Di-n-butylphthalate	149.0	9.674	9.674	0.000	3629939	40.000	44.149	
63 Fluoranthene	202.0	10.411	10.411	0.000	3526035	40.000	44.137	
$ 104 Pyrene-d10	212.0	10.646	10.646	0.000	3063146	40.000	42.301	

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Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121105.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
64 Pyrene	202.0	10.673	10.673	0.000	3877855	40.000	44.286	
66 Butylbenzylphthalate	149.0	11.287	11.287	0.000	1694065	40.000	44.027	
71 bis(2-Ethylhexyl)phthalate	149.0	12.025	12.025	0.000	2437346	40.000	45.046	
68 3,3'-Dichlorobenzidine	252.0	12.083	12.083	0.000	1210283	40.000	39.913	
67 Benzo(a)anthracene	228.0	12.174	12.174	0.000	3657403	40.000	41.928	
* 69 Chrysene-d12	240.0	12.190	12.190	0.000	1659590	20.000	20.000	
70 Chrysene	228.0	12.233	12.233	0.000	3541586	40.000	42.967	
72 Di-n-octylphthalate	149.0	13.008	13.008	0.000	4086467	40.000	47.659	
73 Benzo(b)fluoranthene	252.0	13.825	13.825	0.000	3441926	40.000	41.900	
74 Benzo(k)fluoranthene	252.0	13.873	13.873	0.000	3671586	40.000	45.017	
$ 105 Benzo(a)pyrene-d12	264.0	14.338	14.338	0.000	2904263	40.000	42.108	
75 Benzo(a)pyrene	252.0	14.391	14.391	0.000	3597919	40.000	43.513	
* 76 Perylene-d12	264.0	14.471	14.471	0.000	1422795	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.662	16.662	0.000	3597795	40.000	39.957	
78 Dibenzo(a,h)anthracene	278.0	16.662	16.662	0.000	3359193	40.000	41.213	
79 Benzo(g,h,i)perylene	276.0	17.292	17.292	0.000	2512567	40.000	37.492	

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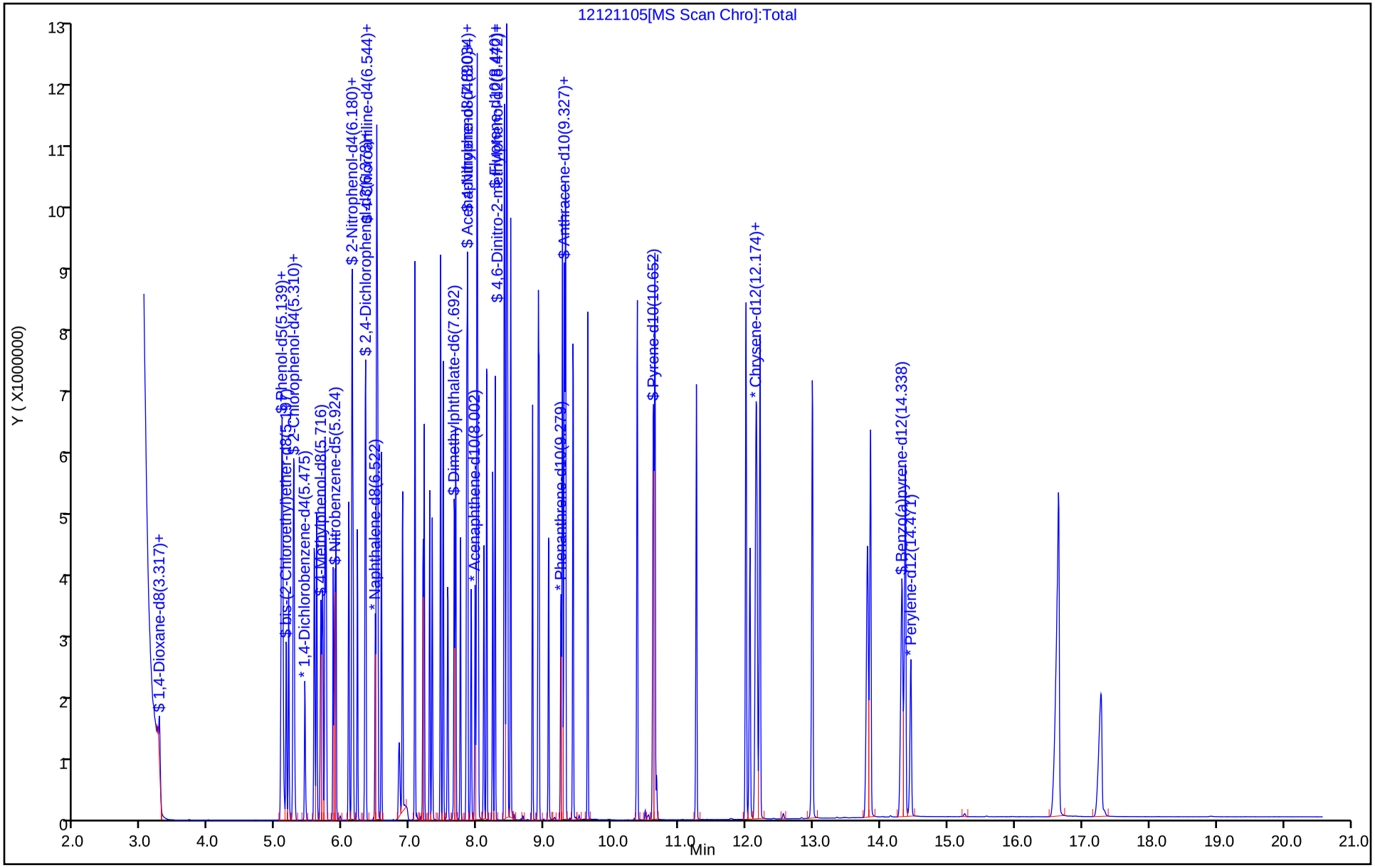
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121105.D				
Injection Date:	11-Dec-2015 10:13:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD040NG	Lab ID:	SSTD040NG		
Sample Info:	12121115.b, SVMS 1682				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121106.D		
Lab Sample ID:	SSTD080NG	Client Sample ID:	SSTD080NG
Injection Date:	11-Dec-2015 10:42:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12121115.b, SVMS 1683		
Misc. Info:	L5		
Method:	\\Organics\HH\chem\msd12.i\12121115.b\SOMBNA.m		
Method Date:	11-Dec-2015 15:58:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Ical, Level: 5	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	11-Dec-2015 15:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.139	5.139	0.000	3056263	80.000	91.135	
108 1,4-Dioxane	88.0	3.333	3.333	0.000	500919	32.000	33.993	
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	440384	32.000	35.902	
4 Phenol	94.0	5.150	5.150	0.000	3267339	80.000	89.672	
2 Benzaldehyde	77.0	5.155	5.155	0.000	1338894	80.000	56.598	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.208	5.208	0.000	1954999	80.000	86.431	
5 bis(2-Chloroethyl)Ether	93.0	5.246	5.246	0.000	2465759	80.000	89.958	
$ 6 2-Chlorophenol-d4	132.0	5.310	5.310	0.000	2057014	80.000	92.711	
7 2-Chlorophenol	128.0	5.320	5.320	0.000	2613073	80.000	93.123	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	366124	20.000	20.000	
10 2-Methylphenol	108.0	5.625	5.625	0.000	2326650	80.000	94.376	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.657	5.657	0.000	4003550	80.000	78.641	
$ 94 4-Methylphenol-d8	113.0	5.732	5.732	0.000	2270518	80.000	93.208	
14 4-Methylphenol	108.0	5.753	5.753	0.000	2541669	80.000	95.030	
13 N-Nitroso-di-n-propylamine	70.0	5.791	5.791	0.000	1838563	80.000	78.536	
12 Acetophenone	105.0	5.807	5.807	0.000	3423208	80.000	91.718	
15 Hexachloroethane	117.0	5.897	5.897	0.000	1052680	80.000	91.287	
$ 16 Nitrobenzene-d5	128.0	5.930	5.930	0.000	1345520	80.000	97.821	
17 Nitrobenzene	77.0	5.951	5.951	0.000	2948123	80.000	85.160	
18 Isophorone	82.0	6.149	6.149	0.000	5040370	80.000	85.642	
20 2,4-Dimethylphenol	107.0	6.186	6.186	0.000	2324786	80.000	77.466	
$ 95 2-Nitrophenol-d4	143.0	6.186	6.186	0.000	1359753	80.000	86.324	
19 2-Nitrophenol	139.0	6.202	6.202	0.000	1478048	80.000	93.056	
21 bis(2-Chloroethoxy)methane	93.0	6.266	6.266	0.000	2846995	80.000	86.599	

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Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.384	6.384	0.000	2072748	80.000	89.638	
22 2,4-Dichlorophenol	162.0	6.394	6.394	0.000	2074420	80.000	90.305	
* 23 Naphthalene-d8	136.0	6.528	6.528	0.000	1591037	20.000	20.000	
24 Naphthalene	128.0	6.544	6.544	0.000	5956751	80.000	69.459	
$ 97 4-Chloroaniline-d4	131.0	6.560	6.560	0.000	2594907	80.000	74.443	
25 4-Chloroaniline	127.0	6.571	6.571	0.000	3852328	80.000	81.049	
26 Hexachlorobutadiene	225.0	6.619	6.619	0.000	1271478	80.000	89.460	
27 Caprolactam	113.0	6.907	6.907	0.000	552568	80.000	85.415	
28 4-Chloro-3-methylphenol	107.0	6.939	6.939	0.000	2333697	80.000	94.750	
29 2-Methylnaphthalene	142.0	7.115	7.115	0.000	4371477	80.000	78.995	
30 Hexachlorocyclopentadiene	237.0	7.233	7.233	0.000	1573329	80.000	93.698	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.254	7.254	0.000	2165893	80.000	88.182	
31 2,4,6-Trichlorophenol	196.0	7.335	7.335	0.000	1556530	80.000	98.058	
32 2,4,5-Trichlorophenol	196.0	7.377	7.377	0.000	1640310	80.000	98.324	
34 1,1'-Biphenyl	154.0	7.500	7.500	0.000	5004195	80.000	77.911	
35 2-Chloronaphthalene	162.0	7.538	7.538	0.000	4255470	80.000	86.184	
36 2-Nitroaniline	65.0	7.612	7.612	0.000	1731519	80.000	91.543	
$ 98 Dimethylphthalate-d6	166.0	7.708	7.708	0.000	5421612	80.000	95.181	
37 Dimethylphthalate	163.0	7.730	7.730	0.000	5290982	80.000	92.013	
39 2,6-Dinitrotoluene	165.0	7.799	7.799	0.000	1361000	80.000	104.12	
$ 99 Acenaphthylene-d8	160.0	7.885	7.885	0.000	6068201	80.000	80.514	
38 Acenaphthylene	152.0	7.901	7.901	0.000	5914539	80.000	75.205	
40 3-Nitroaniline	138.0	7.960	7.960	0.000	1304565	80.000	95.269	
* 41 Acenaphthene-d10	164.0	8.008	8.008	0.000	872066	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.045	8.045	0.000	874459	80.000	96.144	
42 Acenaphthene	153.0	8.040	8.040	0.000	3812620	80.000	69.903	
$ 100 4-Nitrophenol-d4	143.0	8.072	8.072	0.000	1286643	80.000	92.389	
44 4-Nitrophenol	109.0	8.077	8.077	0.000	795727	80.000	82.658	
46 2,4-Dinitrotoluene	165.0	8.152	8.152	0.000	1831706	80.000	102.53	
45 Dibenzofuran	168.0	8.184	8.184	0.000	5879009	80.000	84.413	
107 2,3,4,6-Tetrachlorophenol	232.0	8.275	8.275	0.000	1484586	80.000	102.45	
47 Diethylphthalate	149.0	8.312	8.312	0.000	5015630	80.000	87.053	
49 4-Chlorophenyl-phenylether	204.0	8.440	8.440	0.000	2013091	80.000	70.186	
$ 101 Fluorene-d10	176.0	8.456	8.456	0.000	3947807	80.000	73.869	
50 4-Nitroaniline	138.0	8.504	8.504	0.000	1016662	80.000	67.379	
48 Fluorene	166.0	8.478	8.478	0.000	4724252	80.000	74.845	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.499	8.499	0.000	1391750	80.000	97.017	
51 4,6-Dinitro-2-methylphenol	198.0	8.510	8.510	0.000	1382305	80.000	100.07	
52 N-Nitrosodiphenylamine	169.0	8.542	8.542	0.000	4485968	80.000	84.351	
54 4-Bromophenyl-phenylether	248.0	8.862	8.862	0.000	1733897	80.000	96.114	
55 Hexachlorobenzene	284.0	8.948	8.948	0.000	1940931	80.000	89.891	
56 Atrazine	200.0	8.964	8.964	0.000	1494101	80.000	77.428	
57 Pentachlorophenol	266.0	9.103	9.103	0.000	1380450	80.000	103.23	
* 58 Phenanthrene-d10	188.0	9.284	9.284	0.000	1576135	20.000	20.000	
59 Phenanthrene	178.0	9.311	9.311	0.000	7215133	80.000	82.211	
$ 103 Anthracene-d10	188.0	9.338	9.338	0.000	6660887	80.000	82.894	
60 Anthracene	178.0	9.359	9.359	0.000	6467925	80.000	72.917	
106 Carbazole	167.0	9.466	9.466	0.000	6084677	80.000	78.508	
62 Di-n-butylphthalate	149.0	9.680	9.680	0.000	6813630	80.000	70.886	
63 Fluoranthene	202.0	10.422	10.422	0.000	7376153	80.000	78.979	
$ 104 Pyrene-d10	212.0	10.657	10.657	0.000	7090282	80.000	81.117	

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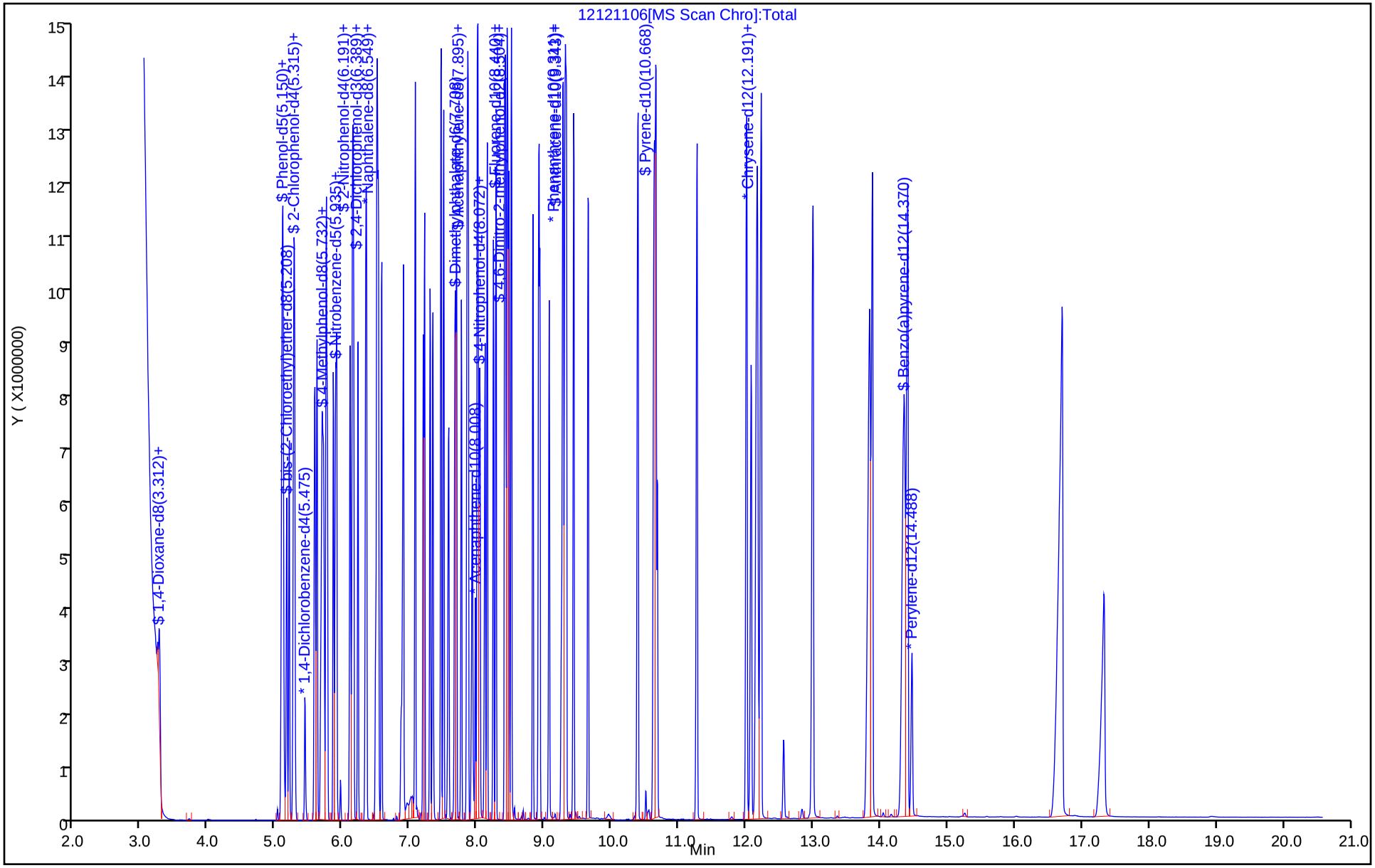
Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121106.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
64 Pyrene	202.0	10.684	10.684	0.000	7790276	80.000	73.705	
66 Butylbenzylphthalate	149.0	11.298	11.298	0.000	4067018	80.000	87.564	
71 bis(2-Ethylhexyl)phthalate	149.0	12.036	12.036	0.000	5352613	80.000	81.954	
68 3,3'-Dichlorobenzidine	252.0	12.100	12.100	0.000	2823869	80.000	77.151	
67 Benzo(a)anthracene	228.0	12.191	12.191	0.000	8542491	80.000	81.130	
* 69 Chrysene-d12	240.0	12.201	12.201	0.000	2003259	20.000	20.000	
70 Chrysene	228.0	12.249	12.249	0.000	7939914	80.000	79.802	
72 Di-n-octylphthalate	149.0	13.019	13.019	0.000	8888386	80.000	87.526	
73 Benzo(b)fluoranthene	252.0	13.857	13.857	0.000	9780169	80.000	100.52	
74 Benzo(k)fluoranthene	252.0	13.900	13.900	0.000	8128253	80.000	84.147	
$ 105 Benzo(a)pyrene-d12	264.0	14.370	14.370	0.000	7900964	80.000	96.722	
75 Benzo(a)pyrene	252.0	14.424	14.424	0.000	9437913	80.000	96.375	
* 76 Perylene-d12	264.0	14.488	14.488	0.000	1685103	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.721	16.721	0.000	8951615	80.000	83.941	
78 Dibenzo(a,h)anthracene	278.0	16.715	16.715	0.000	8381926	80.000	86.827	
79 Benzo(g,h,i)perylene	276.0	17.335	17.335	0.000	5556329	80.000	70.005	

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121106.D				
Injection Date:	11-Dec-2015 10:42:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD080NG	Lab ID:	SSTD080NG		
Sample Info:	12121115.b, SVMS 1683				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Continuing Calibration Data

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 0847

Lab File ID: 12122202 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OV Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
1,4-Dioxane	0.805	0.721	0.010	-10.4	40.0
Benzaldehyde	1.292	1.407	0.100	8.9	40.0
Phenol	1.990	2.022	0.080	1.6	20.0
Bis(2-Chloroethyl) ether	1.497	1.488	0.100	-0.6	20.0
2-Chlorophenol	1.533	1.542	0.200	0.6	20.0
2-Methylphenol	1.347	1.329	0.010	-1.3	20.0
2,2'-Oxybis(1-chloropropane)	2.781	2.661	0.010	-4.3	25.0
Acetophenone	2.039	2.023	0.060	-0.8	20.0
4-Methylphenol	1.461	1.418	0.010	-2.9	20.0
N-Nitroso-di-n propylamine	1.279	1.295	0.080	1.3	25.0
Hexachloroethane	0.630	0.620	0.100	-1.6	20.0
Nitrobenzene	0.435	0.420	0.090	-3.4	20.0
Isophorone	0.740	0.734	0.100	-0.8	20.0
2-Nitrophenol	0.200	0.203	0.060	1.6	20.0
2,4-Dimethylphenol	0.377	0.388	0.050	2.8	25.0
Bis(2-chloroethoxy)methane	0.413	0.414	0.080	0.2	20.0
2,4-Dichlorophenol	0.289	0.291	0.060	0.6	20.0
Naphthalene	1.078	1.201	0.200	11.4	20.0
4-Chloroaniline	0.597	0.640	0.010	7.1	40.0
Hexachlorobutadiene	0.179	0.168	0.040	-6.0	20.0
Caprolactam	0.081	0.072	0.010	-11.5	30.0
4-Chloro-3-methylphenol	0.310	0.305	0.040	-1.5	20.0
2-Methylnaphthalene	0.696	0.748	0.100	7.5	20.0
Hexachlorocyclo-pentadiene	0.385	0.325	0.010	-15.5	40.0
2,4,6-Trichlorophenol	0.364	0.351	0.090	-3.7	20.0
2,4,5-Trichlorophenol	0.383	0.371	0.100	-3.1	20.0
1,1'-Biphenyl	1.473	1.642	0.200	11.5	20.0
2-Chloronaphthalene	1.132	1.199	0.300	5.8	20.0
2-Nitroaniline	0.434	0.446	0.060	2.9	25.0
Dimethylphthalate	1.319	1.389	0.300	5.3	20.0
2,6-Dinitrotoluene	0.300	0.312	0.080	4.1	20.0
Acenaphthylene	1.804	2.029	0.400	12.5	20.0
3-Nitroaniline	0.314	0.331	0.010	5.3	25.0
Acenaphthene	1.251	1.430	0.200	14.3	20.0
2,4-Dinitrophenol	0.209	0.206	0.010	-1.1	50.0
4-Nitrophenol	0.221	0.215	0.010	-2.7	40.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 0847

Lab File ID: 12122202 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OV Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Dibenzofuran	1.597	1.706	0.300	6.8	20.0
2,4-Dinitrotoluene	0.410	0.430	0.070	5.0	20.0
Diethylphthalate	1.321	1.438	0.300	8.8	20.0
1,2,4,5-Tetrachlorobenzene	0.563	0.575	0.100	2.0	20.0
4-Chlorophenyl-phenyl ether	0.658	0.738	0.100	12.3	20.0
Fluorene	1.448	1.659	0.200	14.6	20.0
4-Nitroaniline	0.346	0.431	0.010	24.7	40.0
4,6-Dinitro-2-methylphenol	0.175	0.169	0.010	-3.5	30.0
4-Bromophenyl-phenylether	0.229	0.226	0.070	-1.4	20.0
N-Nitrosodiphenylamine	0.675	0.713	0.100	5.7	20.0
Hexachlorobenzene	0.274	0.271	0.050	-1.1	20.0
Atrazine	0.245	0.259	0.010	5.9	25.0
Pentachlorophenol	0.170	0.149	0.010	-12.1	40.0
Phenanthrene	1.114	1.204	0.200	8.2	20.0
Anthracene	1.126	1.265	0.200	12.4	20.0
Carbazole	0.983	1.019	0.050	3.6	20.0
Di-n-butylphthalate	1.220	1.372	0.500	12.5	20.0
Fluoranthene	1.185	1.286	0.100	8.5	20.0
Pyrene	1.055	1.178	0.400	11.6	25.0
Butylbenzylphthalate	0.464	0.499	0.100	7.6	25.0
3,3'-Dichlorobenzidine	0.365	0.364	0.010	-0.4	40.0
Benzo(a)anthracene	1.051	1.076	0.300	2.3	20.0
Chrysene	0.993	1.039	0.200	4.5	20.0
Bis(2-ethylhexyl)phthalate	0.652	0.715	0.200	9.7	25.0
Di-n-octylphthalate	1.205	1.332	0.010	10.5	40.0
Benzo(b)fluoranthene	1.155	1.119	0.010	-3.1	25.0
Benzo(k)fluoranthene	1.146	1.199	0.010	4.5	25.0
Benzo(a)pyrene	1.162	1.161	0.010	-0.1	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.210	0.010	-4.4	25.0
Dibenzo(a,h)anthracene	1.146	1.093	0.010	-4.6	25.0
Benzo(g,h,i)perylene	0.942	0.892	0.010	-5.3	30.0
2,3,4,6-Tetrachlorophenol	0.332	0.325	0.040	-2.1	20.0
1,4-Dioxane-d8	0.670	0.632	0.010	-5.7	25.0
Phenol-d5	1.832	1.823	0.010	-0.5	25.0
Bis-(2-chloroethyl)ether-d8	1.236	1.196	0.100	-3.2	20.0
2-Chlorophenol-d4	1.212	1.215	0.200	0.2	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 0847

Lab File ID: 12122202 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OV Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
4-Methylphenol-d8	1.331	1.314	0.010	-1.2	20.0
4-Chloroaniline-d4	0.438	0.477	0.010	8.9	40.0
Nitrobenzene-d5	0.173	0.170	0.050	-1.7	20.0
2-Nitrophenol-d4	0.198	0.211	0.050	6.8	20.0
2,4-Dichlorophenol-d3	0.291	0.295	0.060	1.4	20.0
Dimethylphthalate-d6	1.306	1.381	0.300	5.7	20.0
Acenaphthylene-d8	1.728	1.883	0.400	8.9	20.0
4-Nitrophenol-d4	0.319	0.326	0.010	2.2	40.0
Fluorene-d10	1.226	1.406	0.100	14.7	20.0
4,6-Dinitro-2-methylphenol-d2	0.182	0.183	0.010	0.4	30.0
Anthracene-d10	1.020	1.072	0.300	5.1	20.0
Pyrene-d10	0.873	0.920	0.300	5.5	25.0
Benzo(a)pyrene-d12	0.970	0.946	0.010	-2.4	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122202.D
Lab Sample ID: SSTD020OV Client Sample ID: SSTD020OV
Injection Date: 22-Dec-2015 08:47:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12122215.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m
Method Date: 22-Dec-2015 16:23:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
2 Benzaldehyde	1.292249	1.407318	0.1	8.9	40	109
$ 3 Phenol-d5	1.831928	1.822755	0.01	-0.5	25	99
4 Phenol	1.990394	2.022441	0.08	1.6	20	102
5 bis(2-Chloroethyl)Ether	1.49731	1.487728	0.1	-0.6	20	99
$ 6 2-Chlorophenol-d4	1.212021	1.214892	0.2	0.2	20	100
7 2-Chlorophenol	1.532837	1.541961	0.2	0.6	20	101
10 2-Methylphenol	1.346697	1.328583	0.01	-1.3	20	99
11 2,2'-oxybis(1-Chloroprop	2.780997	2.660582	0.01	-4.3	25	96
12 Acetophenone	2.038836	2.023076	0.06	-0.8	20	99
13 N-Nitroso-di-n-propylami	1.278818	1.295373	0.08	1.3	25	101
14 4-Methylphenol	1.461029	1.417948	0.01	-2.9	20	97
15 Hexachloroethane	0.629926	0.62011	0.1	-1.6	20	98
$ 16 Nitrobenzene-d5	0.172905	0.170032	0.05	-1.7	20	98
17 Nitrobenzene	0.435173	0.420212	0.09	-3.4	20	97
18 Isophorone	0.739821	0.734227	0.1	-0.8	20	99
19 2-Nitrophenol	0.199661	0.202795	0.06	1.6	20	102
20 2,4-Dimethylphenol	0.377242	0.387761	0.05	2.8	25	103
21 bis(2-Chloroethoxy)metha	0.413262	0.414106	0.08	0.2	20	100
22 2,4-Dichlorophenol	0.288758	0.290579	0.06	0.6	20	101
24 Naphthalene	1.078025	1.201361	0.2	11.4	20	111
25 4-Chloroaniline	0.597483	0.639884	0.01	7.1	40	107
26 Hexachlorobutadiene	0.178661	0.167887	0.04	-6	20	94
27 Caprolactam	0.081321	0.071938	0.01	-11.5	30	88
28 4-Chloro-3-methylphenol	0.309611	0.304993	0.04	-1.5	20	99
29 2-Methylnaphthalene	0.69563	0.747975	0.1	7.5	20	108
30 Hexachlorocyclopentadien	0.385099	0.32536	0.01	-15.5	40	84
31 2,4,6-Trichlorophenol	0.364046	0.35065	0.09	-3.7	20	96
32 2,4,5-Trichlorophenol	0.382601	0.3706	0.1	-3.1	20	97
34 1,1'-Biphenyl	1.473039	1.642313	0.2	11.5	20	111
35 2-Chloronaphthalene	1.132399	1.198637	0.3	5.8	20	106
36 2-Nitroaniline	0.433793	0.446429	0.06	2.9	25	103
37 Dimethylphthalate	1.318765	1.388652	0.3	5.3	20	105
38 Acenaphthylene	1.80366	2.028691	0.4	12.5	20	112
39 2,6-Dinitrotoluene	0.299788	0.311965	0.08	4.1	20	104
40 3-Nitroaniline	0.314048	0.330555	0.01	5.3	25	105

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Acenaphthene	1.250858	1.430321	0.2	14.3	20	114
43 2,4-Dinitrophenol	0.208592	0.206272	0.01	-1.1	50	99
44 4-Nitrophenol	0.220779	0.214888	0.01	-2.7	40	97
45 Dibenzofuran	1.597254	1.706203	0.3	6.8	20	107
46 2,4-Dinitrotoluene	0.409737	0.43034	0.07	5	20	105
47 Diethylphthalate	1.321358	1.437632	0.3	8.8	20	109
92 1,2,4,5-Tetrachlorobenze	0.563295	0.574803	0.1	2	20	102
48 Fluorene	1.447601	1.659489	0.2	14.6	20	115
49 4-Chlorophenyl-phenyleth	0.657798	0.738474	0.1	12.3	20	112
50 4-Nitroaniline	0.346048	0.431424	0.01	24.7	40	125
51 4,6-Dinitro-2-methylphen	0.175287	0.169183	0.01	-3.5	30	97
52 N-Nitrosodiphenylamine	0.674839	0.713338	0.1	5.7	20	106
54 4-Bromophenyl-phenylethe	0.228913	0.225602	0.07	-1.4	20	99
55 Hexachlorobenzene	0.273986	0.271106	0.05	-1.1	20	99
56 Atrazine	0.244859	0.259184	0.01	5.9	25	106
57 Pentachlorophenol	0.169693	0.14924	0.01	-12.1	40	88
59 Phenanthrene	1.113655	1.204489	0.2	8.2	20	108
60 Anthracene	1.125577	1.265405	0.2	12.4	20	112
62 Di-n-butylphthalate	1.21971	1.371853	0.5	12.5	20	112
63 Fluoranthene	1.185101	1.28573	0.1	8.5	20	108
64 Pyrene	1.055238	1.177557	0.4	11.6	25	112
66 Butylbenzylphthalate	0.463706	0.498944	0.1	7.6	25	108
67 Benzo(a)anthracene	1.051229	1.075915	0.3	2.3	20	102
68 3,3'-Dichlorobenzidine	0.365424	0.363834	0.01	-0.4	40	100
70 Chrysene	0.993336	1.038514	0.2	4.5	20	105
71 bis(2-Ethylhexyl)phthala	0.652065	0.715249	0.2	9.7	25	110
72 Di-n-octylphthalate	1.205285	1.332291	0.01	10.5	40	111
73 Benzo(b)fluoranthene	1.154726	1.119142	0.01	-3.1	25	97
74 Benzo(k)fluoranthene	1.146463	1.198578	0.01	4.5	25	105
75 Benzo(a)pyrene	1.162294	1.160703	0.01	-0.1	20	100
77 Indeno(1,2,3-cd)pyrene	1.2657	1.21043	0.01	-4.4	25	96
78 Dibenzo(a,h)anthracene	1.145756	1.093416	0.01	-4.6	25	95
79 Benzo(g,h,i)perylene	0.94203	0.891968	0.01	-5.3	30	95
$ 93 bis-(2-Chloroethyl)ether	1.235609	1.196057	0.1	-3.2	20	97
$ 94 4-Methylphenol-d8	1.330674	1.314137	0.01	-1.2	20	99
$ 95 2-Nitrophenol-d4	0.198006	0.211378	0.05	6.8	20	107
$ 96 2,4-Dichlorophenol-d3	0.290671	0.294756	0.06	1.4	20	101
$ 97 4-Chloroaniline-d4	0.438177	0.477337	0.01	8.9	40	109
$ 98 Dimethylphthalate-d6	1.306354	1.380585	0.3	5.7	20	106
$ 99 Acenaphthylene-d8	1.728495	1.882688	0.4	8.9	20	109
$ 100 4-Nitrophenol-d4	0.319389	0.326316	0.01	2.2	40	102
$ 101 Fluorene-d10	1.225675	1.4063	0.1	14.7	20	115
$ 102 4,6-Dinitro-2-methylphen	0.182033	0.182681	0.01	0.4	30	100
$ 103 Anthracene-d10	1.019638	1.071557	0.3	5.1	20	105
$ 104 Pyrene-d10	0.872662	0.920295	0.3	5.5	25	105
$ 105 Benzo(a)pyrene-d12	0.969526	0.946421	0.01	-2.4	20	98
106 Carbazole	0.983462	1.018597	0.05	3.6	20	104

Report Date: 23-Dec-2015 09:57:54 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122202.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
107 2,3,4,6-Tetrachloropheno	0.332328	0.325296	0.04	-2.1	20	98
108 1,4-Dioxane	0.804964	0.720966	0.01	-10.4	40	90
$ 109 1,4-Dioxane-d8	0.670057	0.631555	0.01	-5.7	25	94

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122202.D		
Lab Sample ID:	SSTD020OV	Client Sample ID:	SSTD020OV
Injection Date:	22-Dec-2015 08:47:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, SVMS 1673		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 13:49:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.122	5.122	0.000	746442	20.000	19.900	
108 1,4-Dioxane	88.0	3.344	3.344	0.000	118098	8.0000	7.1652	
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	103452	8.0000	7.5403	
4 Phenol	94.0	5.133	5.133	0.000	828216	20.000	20.322	
2 Benzaldehyde	77.0	5.144	5.144	0.000	576315	20.000	21.781	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	489801	20.000	19.360	
5 bis(2-Chloroethyl)Ether	93.0	5.229	5.229	0.000	609244	20.000	19.872	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	497514	20.000	20.047	
7 2-Chlorophenol	128.0	5.309	5.309	0.000	631453	20.000	20.119	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	409513	20.000	20.000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	544072	20.000	19.731	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.646	5.646	0.000	1089543	20.000	19.134	
$ 94 4-Methylphenol-d8	113.0	5.710	5.710	0.000	538156	20.000	19.751	
14 4-Methylphenol	108.0	5.737	5.737	0.000	580668	20.000	19.410	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	530472	20.000	20.259	
12 Acetophenone	105.0	5.785	5.785	0.000	828476	20.000	19.845	
15 Hexachloroethane	117.0	5.892	5.892	0.000	253943	20.000	19.688	
$ 16 Nitrobenzene-d5	128.0	5.918	5.918	0.000	293163	20.000	19.668	
17 Nitrobenzene	77.0	5.935	5.935	0.000	724512	20.000	19.312	
18 Isophorone	82.0	6.116	6.116	0.000	1265924	20.000	19.849	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	668562	20.000	20.558	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	364450	20.000	21.351	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	349650	20.000	20.314	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	713985	20.000	20.041	
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.367	0.000	508206	20.000	20.281	

Report Date: 23-Dec-2015 09:57:54 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122202.D

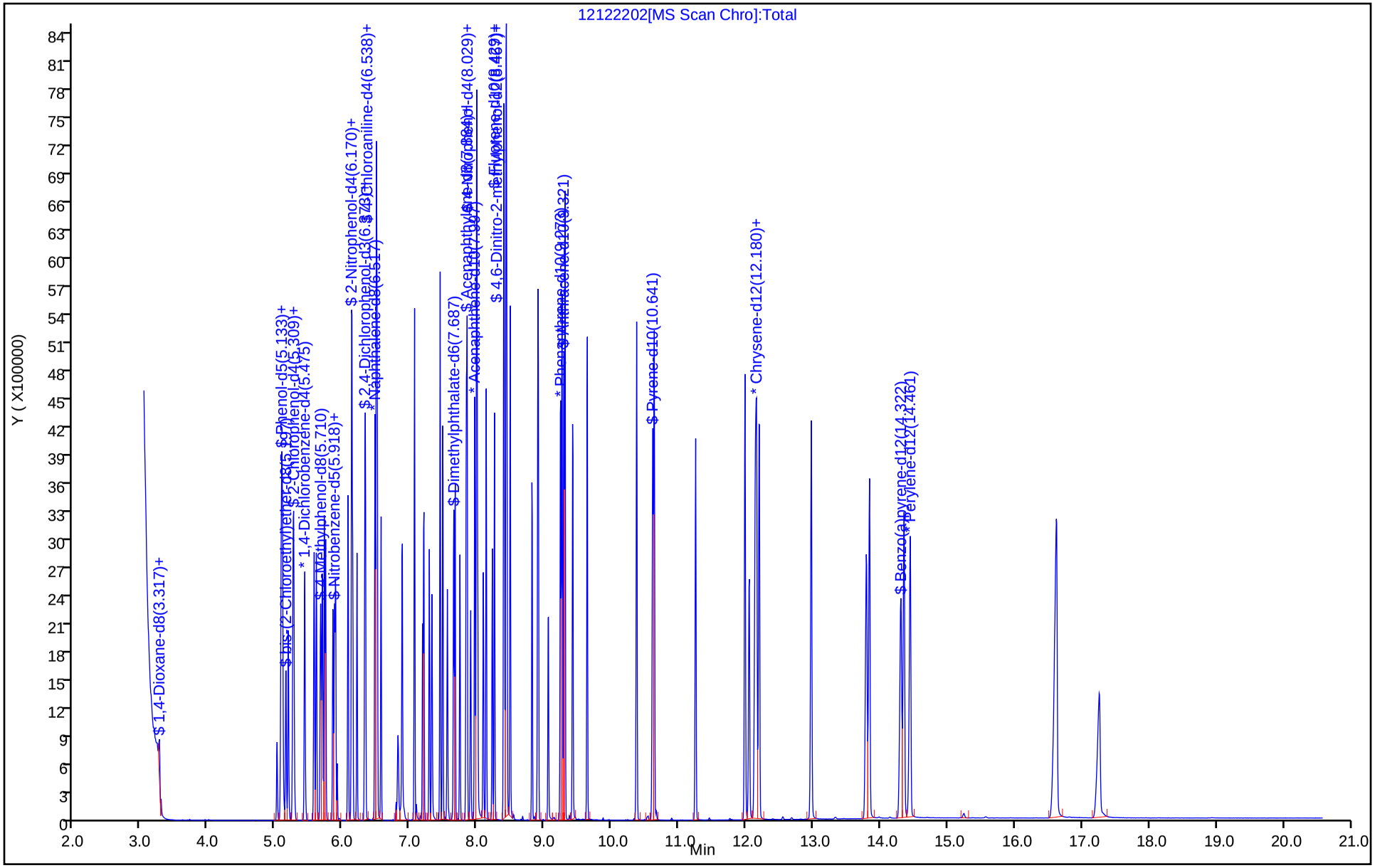
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 2,4-Dichlorophenol	162.0	6.378	6.378	0.000	501004	20.000	20.126	
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1724159	20.000	20.000	
24 Naphthalene	128.0	6.538	6.538	0.000	2071337	20.000	22.288	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	823005	20.000	21.787	
25 4-Chloroaniline	127.0	6.554	6.554	0.000	1103261	20.000	21.419	
26 Hexachlorobutadiene	225.0	6.608	6.608	0.000	289464	20.000	18.794	
27 Caprolactam	113.0	6.859	6.859	0.000	124032	20.000	17.692	
28 4-Chloro-3-methylphenol	107.0	6.923	6.923	0.000	525856	20.000	19.702	
29 2-Methylnaphthalene	142.0	7.104	7.104	0.000	1289627	20.000	21.505	
30 Hexachlorocyclopentadiene	237.0	7.227	7.227	0.000	288928	20.000	16.897	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.243	7.243	0.000	510440	20.000	20.409	
31 2,4,6-Trichlorophenol	196.0	7.323	7.323	0.000	311386	20.000	19.264	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	329102	20.000	19.373	
34 1,1'-Biphenyl	154.0	7.484	7.484	0.000	1458417	20.000	22.298	
35 2-Chloronaphthalene	162.0	7.521	7.521	0.000	1064421	20.000	21.170	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	396441	20.000	20.583	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	1225995	20.000	21.136	
37 Dimethylphthalate	163.0	7.708	7.708	0.000	1233159	20.000	21.060	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	277033	20.000	20.812	
$ 99 Acenaphthylene-d8	160.0	7.874	7.874	0.000	1671876	20.000	21.784	
38 Acenaphthylene	152.0	7.884	7.884	0.000	1801530	20.000	22.495	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	293541	20.000	21.051	
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	888026	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.023	8.023	0.000	183175	20.000	19.778	
42 Acenaphthene	153.0	8.029	8.029	0.000	1270162	20.000	22.869	
$ 100 4-Nitrophenol-d4	143.0	8.034	8.034	0.000	289777	20.000	20.434	
44 4-Nitrophenol	109.0	8.045	8.045	0.000	190826	20.000	19.466	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	382153	20.000	21.006	
45 Dibenzofuran	168.0	8.168	8.168	0.000	1515153	20.000	21.364	
107 2,3,4,6-Tetrachlorophenol	232.0	8.258	8.258	0.000	288871	20.000	19.577	
47 Diethylphthalate	149.0	8.290	8.290	0.000	1276655	20.000	21.760	
49 4-Chlorophenyl-phenylether	204.0	8.429	8.429	0.000	655784	20.000	22.453	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1248831	20.000	22.947	
50 4-Nitroaniline	138.0	8.467	8.467	0.000	383116	20.000	24.934	
48 Fluorene	166.0	8.461	8.461	0.000	1473669	20.000	22.927	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	293124	20.000	20.071	
51 4,6-Dinitro-2-methylphenol	198.0	8.477	8.477	0.000	271465	20.000	19.303	
52 N-Nitrosodiphenylamine	169.0	8.525	8.525	0.000	1144599	20.000	21.141	
54 4-Bromophenyl-phenylether	248.0	8.851	8.851	0.000	361994	20.000	19.711	
55 Hexachlorobenzene	284.0	8.931	8.931	0.000	435008	20.000	19.790	
56 Atrazine	200.0	8.942	8.942	0.000	415879	20.000	21.170	
57 Pentachlorophenol	266.0	9.092	9.092	0.000	239466	20.000	17.589	
* 58 Phenanthrene-d10	188.0	9.273	9.273	0.000	1604568	20.000	20.000	
59 Phenanthrene	178.0	9.295	9.295	0.000	1932685	20.000	21.631	
$ 103 Anthracene-d10	188.0	9.321	9.321	0.000	1719386	20.000	21.018	
60 Anthracene	178.0	9.338	9.338	0.000	2030428	20.000	22.485	
106 Carbazole	167.0	9.450	9.450	0.000	1634408	20.000	20.715	
62 Di-n-butylphthalate	149.0	9.669	9.669	0.000	2201231	20.000	22.495	
63 Fluoranthene	202.0	10.401	10.401	0.000	2063041	20.000	21.698	
$ 104 Pyrene-d10	212.0	10.641	10.641	0.000	1731416	20.000	21.092	
64 Pyrene	202.0	10.662	10.662	0.000	2215420	20.000	22.318	

Report Date: 23-Dec-2015 09:57:54 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122202.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
66 Butylbenzylphthalate	149.0	11.277	11.277	0.000	938699	20.000	21.520	
71 bis(2-Ethylhexyl)phthalate	149.0	12.009	12.009	0.000	1345648	20.000	21.938	
68 3,3'-Dichlorobenzidine	252.0	12.073	12.073	0.000	684506	20.000	19.913	
67 Benzo(a)anthracene	228.0	12.164	12.164	0.000	2024195	20.000	20.470	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	1881370	20.000	20.000	
70 Chrysene	228.0	12.222	12.222	0.000	1953830	20.000	20.910	
72 Di-n-octylphthalate	149.0	12.992	12.992	0.000	2318904	20.000	22.107	
73 Benzo(b)fluoranthene	252.0	13.809	13.809	0.000	1947910	20.000	19.384	
74 Benzo(k)fluoranthene	252.0	13.857	13.857	0.000	2086171	20.000	20.909	
$ 105 Benzo(a)pyrene-d12	264.0	14.322	14.322	0.000	1647283	20.000	19.523	
75 Benzo(a)pyrene	252.0	14.370	14.370	0.000	2020249	20.000	19.973	
* 76 Perylene-d12	264.0	14.461	14.461	0.000	1740539	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.619	16.619	0.000	2106801	20.000	19.127	
78 Dibenzo(a,h)anthracene	278.0	16.635	16.635	0.000	1903133	20.000	19.086	
79 Benzo(g,h,i)perylene	276.0	17.271	17.271	0.000	1552505	20.000	18.937	

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122202.D				
Injection Date:	22-Dec-2015 08:47:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020OV	Lab ID:	SSTD020OV		
Sample Info:	12122215.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 1600

Lab File ID: 12122215 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OW Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
1,4-Dioxane	0.805	0.680	0.010	-15.5	40.0
Benzaldehyde	1.292	1.367	0.100	5.8	40.0
Phenol	1.990	1.997	0.080	0.3	20.0
Bis(2-Chloroethyl) ether	1.497	1.479	0.100	-1.2	20.0
2-Chlorophenol	1.533	1.532	0.200	0.0	20.0
2-Methylphenol	1.347	1.329	0.010	-1.3	20.0
2,2'-Oxybis(1-chloropropane)	2.781	2.606	0.010	-6.3	25.0
Acetophenone	2.039	2.002	0.060	-1.8	20.0
4-Methylphenol	1.461	1.431	0.010	-2.0	20.0
N-Nitroso-di-n propylamine	1.279	1.256	0.080	-1.8	25.0
Hexachloroethane	0.630	0.608	0.100	-3.4	20.0
Nitrobenzene	0.435	0.415	0.090	-4.7	20.0
Isophorone	0.740	0.723	0.100	-2.2	20.0
2-Nitrophenol	0.200	0.202	0.060	1.2	20.0
2,4-Dimethylphenol	0.377	0.384	0.050	1.7	25.0
Bis(2-chloroethoxy)methane	0.413	0.414	0.080	0.1	20.0
2,4-Dichlorophenol	0.289	0.296	0.060	2.5	20.0
Naphthalene	1.078	1.186	0.200	10.0	20.0
4-Chloroaniline	0.597	0.635	0.010	6.3	40.0
Hexachlorobutadiene	0.179	0.172	0.040	-3.9	20.0
Caprolactam	0.081	0.075	0.010	-8.2	30.0
4-Chloro-3-methylphenol	0.310	0.306	0.040	-1.0	20.0
2-Methylnaphthalene	0.696	0.749	0.100	7.7	20.0
Hexachlorocyclo-pentadiene	0.385	0.308	0.010	-20.1	40.0
2,4,6-Trichlorophenol	0.364	0.358	0.090	-1.6	20.0
2,4,5-Trichlorophenol	0.383	0.385	0.100	0.6	20.0
1,1'-Biphenyl	1.473	1.622	0.200	10.1	20.0
2-Chloronaphthalene	1.132	1.206	0.300	6.5	20.0
2-Nitroaniline	0.434	0.438	0.060	0.9	25.0
Dimethylphthalate	1.319	1.417	0.300	7.4	20.0
2,6-Dinitrotoluene	0.300	0.317	0.080	5.9	20.0
Acenaphthylene	1.804	2.026	0.400	12.3	20.0
3-Nitroaniline	0.314	0.334	0.010	6.3	25.0
Acenaphthene	1.251	1.409	0.200	12.7	20.0
2,4-Dinitrophenol	0.209	0.199	0.010	-4.5	50.0
4-Nitrophenol	0.221	0.207	0.010	-6.3	40.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 1600

Lab File ID: 12122215 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OW Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
Dibenzofuran	1.597	1.708	0.300	6.9	20.0
2,4-Dinitrotoluene	0.410	0.430	0.070	4.8	20.0
Diethylphthalate	1.321	1.434	0.300	8.6	20.0
1,2,4,5-Tetrachlorobenzene	0.563	0.580	0.100	2.9	20.0
4-Chlorophenyl-phenyl ether	0.658	0.732	0.100	11.3	20.0
Fluorene	1.448	1.643	0.200	13.5	20.0
4-Nitroaniline	0.346	0.426	0.010	23.1	40.0
4,6-Dinitro-2-methylphenol	0.175	0.165	0.010	-5.9	30.0
4-Bromophenyl-phenylether	0.229	0.227	0.070	-0.7	20.0
N-Nitrosodiphenylamine	0.675	0.715	0.100	6.0	20.0
Hexachlorobenzene	0.274	0.273	0.050	-0.3	20.0
Atrazine	0.245	0.258	0.010	5.3	25.0
Pentachlorophenol	0.170	0.154	0.010	-9.3	40.0
Phenanthrene	1.114	1.201	0.200	7.8	20.0
Anthracene	1.126	1.263	0.200	12.2	20.0
Carbazole	0.983	1.017	0.050	3.4	20.0
Di-n-butylphthalate	1.220	1.356	0.500	11.2	20.0
Fluoranthene	1.185	1.264	0.100	6.7	20.0
Pyrene	1.055	1.172	0.400	11.1	25.0
Butylbenzylphthalate	0.464	0.497	0.100	7.1	25.0
3,3'-Dichlorobenzidine	0.365	0.353	0.010	-3.4	40.0
Benzo(a)anthracene	1.051	1.088	0.300	3.5	20.0
Chrysene	0.993	1.040	0.200	4.7	20.0
Bis(2-ethylhexyl)phthalate	0.652	0.723	0.200	10.9	25.0
Di-n-octylphthalate	1.205	1.316	0.010	9.2	40.0
Benzo(b)fluoranthene	1.155	1.132	0.010	-2.0	25.0
Benzo(k)fluoranthene	1.146	1.156	0.010	0.8	25.0
Benzo(a)pyrene	1.162	1.153	0.010	-0.8	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.184	0.010	-6.5	25.0
Dibenzo(a,h)anthracene	1.146	1.080	0.010	-5.7	25.0
Benzo(g,h,i)perylene	0.942	0.860	0.010	-8.7	30.0
2,3,4,6-Tetrachlorophenol	0.332	0.333	0.040	0.1	20.0
1,4-Dioxane-d8	0.670	0.612	0.010	-8.7	25.0
Phenol-d5	1.832	1.819	0.010	-0.7	25.0
Bis-(2-chloroethyl)ether-d8	1.236	1.162	0.100	-6.0	20.0
2-Chlorophenol-d4	1.212	1.199	0.200	-1.0	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 1600

Lab File ID: 12122215 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OW Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
4-Methylphenol-d8	1.331	1.312	0.010	-1.4	20.0
4-Chloroaniline-d4	0.438	0.471	0.010	7.4	40.0
Nitrobenzene-d5	0.173	0.174	0.050	0.5	20.0
2-Nitrophenol-d4	0.198	0.211	0.050	6.6	20.0
2,4-Dichlorophenol-d3	0.291	0.300	0.060	3.1	20.0
Dimethylphthalate-d6	1.306	1.388	0.300	6.2	20.0
Acenaphthylene-d8	1.728	1.878	0.400	8.7	20.0
4-Nitrophenol-d4	0.319	0.333	0.010	4.2	40.0
Fluorene-d10	1.226	1.394	0.100	13.8	20.0
4,6-Dinitro-2-methylphenol-d2	0.182	0.177	0.010	-3.0	30.0
Anthracene-d10	1.020	1.079	0.300	5.8	20.0
Pyrene-d10	0.873	0.917	0.300	5.1	25.0
Benzo(a)pyrene-d12	0.970	0.941	0.010	-2.9	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122215.D
Lab Sample ID: SSTD020OW Client Sample ID: SSTD020OW
Injection Date: 22-Dec-2015 16:00:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12122215.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m
Method Date: 22-Dec-2015 16:23:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
2 Benzaldehyde	1.292249	1.367116	0.1	5.8	40	106
$ 3 Phenol-d5	1.831928	1.819456	0.01	-0.7	25	99
4 Phenol	1.990394	1.9972	0.08	0.3	20	100
5 bis(2-Chloroethyl)Ether	1.49731	1.478627	0.1	-1.2	20	99
$ 6 2-Chlorophenol-d4	1.212021	1.19934	0.2	-1	20	99
7 2-Chlorophenol	1.532837	1.532144	0.2	0	20	100
10 2-Methylphenol	1.346697	1.328679	0.01	-1.3	20	99
11 2,2'-oxybis(1-Chloroprop	2.780997	2.605652	0.01	-6.3	25	94
12 Acetophenone	2.038836	2.001669	0.06	-1.8	20	98
13 N-Nitroso-di-n-propylami	1.278818	1.256402	0.08	-1.8	25	98
14 4-Methylphenol	1.461029	1.431438	0.01	-2	20	98
15 Hexachloroethane	0.629926	0.608417	0.1	-3.4	20	97
$ 16 Nitrobenzene-d5	0.172905	0.173826	0.05	0.5	20	101
17 Nitrobenzene	0.435173	0.414512	0.09	-4.7	20	95
18 Isophorone	0.739821	0.723462	0.1	-2.2	20	98
19 2-Nitrophenol	0.199661	0.202016	0.06	1.2	20	101
20 2,4-Dimethylphenol	0.377242	0.383672	0.05	1.7	25	102
21 bis(2-Chloroethoxy)metha	0.413262	0.413546	0.08	0.1	20	100
22 2,4-Dichlorophenol	0.288758	0.295971	0.06	2.5	20	102
24 Naphthalene	1.078025	1.186302	0.2	10	20	110
25 4-Chloroaniline	0.597483	0.635264	0.01	6.3	40	106
26 Hexachlorobutadiene	0.178661	0.171767	0.04	-3.9	20	96
27 Caprolactam	0.081321	0.074622	0.01	-8.2	30	92
28 4-Chloro-3-methylphenol	0.309611	0.306428	0.04	-1	20	99
29 2-Methylnaphthalene	0.69563	0.749356	0.1	7.7	20	108
30 Hexachlorocyclopentadien	0.385099	0.307729	0.01	-20.1	40	80
31 2,4,6-Trichlorophenol	0.364046	0.358382	0.09	-1.6	20	98
32 2,4,5-Trichlorophenol	0.382601	0.385035	0.1	0.6	20	101
34 1,1'-Biphenyl	1.473039	1.622249	0.2	10.1	20	110
35 2-Chloronaphthalene	1.132399	1.205791	0.3	6.5	20	106
36 2-Nitroaniline	0.433793	0.437829	0.06	0.9	25	101
37 Dimethylphthalate	1.318765	1.416792	0.3	7.4	20	107
38 Acenaphthylene	1.80366	2.025979	0.4	12.3	20	112
39 2,6-Dinitrotoluene	0.299788	0.317339	0.08	5.9	20	106
40 3-Nitroaniline	0.314048	0.333943	0.01	6.3	25	106

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Acenaphthene	1.250858	1.409181	0.2	12.7	20	113
43 2,4-Dinitrophenol	0.208592	0.199298	0.01	-4.5	50	96
44 4-Nitrophenol	0.220779	0.206833	0.01	-6.3	40	94
45 Dibenzofuran	1.597254	1.707828	0.3	6.9	20	107
46 2,4-Dinitrotoluene	0.409737	0.429577	0.07	4.8	20	105
47 Diethylphthalate	1.321358	1.434499	0.3	8.6	20	109
92 1,2,4,5-Tetrachlorobenze	0.563295	0.57965	0.1	2.9	20	103
48 Fluorene	1.447601	1.643224	0.2	13.5	20	114
49 4-Chlorophenyl-phenyleth	0.657798	0.731964	0.1	11.3	20	111
50 4-Nitroaniline	0.346048	0.426157	0.01	23.1	40	123
51 4,6-Dinitro-2-methylphen	0.175287	0.164906	0.01	-5.9	30	94
52 N-Nitrosodiphenylamine	0.674839	0.715003	0.1	6	20	106
54 4-Bromophenyl-phenylethe	0.228913	0.227228	0.07	-0.7	20	99
55 Hexachlorobenzene	0.273986	0.273042	0.05	-0.3	20	100
56 Atrazine	0.244859	0.25773	0.01	5.3	25	105
57 Pentachlorophenol	0.169693	0.153948	0.01	-9.3	40	91
59 Phenanthrene	1.113655	1.200644	0.2	7.8	20	108
60 Anthracene	1.125577	1.263387	0.2	12.2	20	112
62 Di-n-butylphthalate	1.21971	1.356216	0.5	11.2	20	111
63 Fluoranthene	1.185101	1.264422	0.1	6.7	20	107
64 Pyrene	1.055238	1.172151	0.4	11.1	25	111
66 Butylbenzylphthalate	0.463706	0.496605	0.1	7.1	25	107
67 Benzo(a)anthracene	1.051229	1.088079	0.3	3.5	20	104
68 3,3'-Dichlorobenzidine	0.365424	0.352901	0.01	-3.4	40	97
70 Chrysene	0.993336	1.040206	0.2	4.7	20	105
71 bis(2-Ethylhexyl)phthala	0.652065	0.723359	0.2	10.9	25	111
72 Di-n-octylphthalate	1.205285	1.316487	0.01	9.2	40	109
73 Benzo(b)fluoranthene	1.154726	1.132001	0.01	-2	25	98
74 Benzo(k)fluoranthene	1.146463	1.155802	0.01	0.8	25	101
75 Benzo(a)pyrene	1.162294	1.152711	0.01	-0.8	20	99
77 Indeno(1,2,3-cd)pyrene	1.2657	1.183845	0.01	-6.5	25	94
78 Dibenzo(a,h)anthracene	1.145756	1.080458	0.01	-5.7	25	94
79 Benzo(g,h,i)perylene	0.94203	0.859969	0.01	-8.7	30	91
$ 93 bis-(2-Chloroethyl)ether	1.235609	1.161812	0.1	-6	20	94
$ 94 4-Methylphenol-d8	1.330674	1.311624	0.01	-1.4	20	99
$ 95 2-Nitrophenol-d4	0.198006	0.210981	0.05	6.6	20	107
$ 96 2,4-Dichlorophenol-d3	0.290671	0.299729	0.06	3.1	20	103
$ 97 4-Chloroaniline-d4	0.438177	0.470786	0.01	7.4	40	107
$ 98 Dimethylphthalate-d6	1.306354	1.387932	0.3	6.2	20	106
$ 99 Acenaphthylene-d8	1.728495	1.878205	0.4	8.7	20	109
$ 100 4-Nitrophenol-d4	0.319389	0.332865	0.01	4.2	40	104
$ 101 Fluorene-d10	1.225675	1.394457	0.1	13.8	20	114
$ 102 4,6-Dinitro-2-methylphen	0.182033	0.176573	0.01	-3	30	97
$ 103 Anthracene-d10	1.019638	1.078503	0.3	5.8	20	106
$ 104 Pyrene-d10	0.872662	0.916789	0.3	5.1	25	105
$ 105 Benzo(a)pyrene-d12	0.969526	0.941447	0.01	-2.9	20	97
106 Carbazole	0.983462	1.017091	0.05	3.4	20	103

Report Date: 23-Dec-2015 09:58:04 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122215.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
107 2,3,4,6-Tetrachloropheno	0.332328	0.332522	0.04	0.1	20	100
108 1,4-Dioxane	0.804964	0.680301	0.01	-15.5	40	85
$ 109 1,4-Dioxane-d8	0.670057	0.611689	0.01	-8.7	25	91

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122215.D		
Lab Sample ID:	SSTD020OW	Client Sample ID:	SSTD020OW
Injection Date:	22-Dec-2015 16:00:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, SVMS 1673		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 16:23:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	870124	20.000	19.864	
108 1,4-Dioxane	88.0	3.344	3.344	0.000	130137	8.0000	6.7611	
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	117012	8.0000	7.3031	
4 Phenol	94.0	5.134	5.134	0.000	955127	20.000	20.068	
2 Benzaldehyde	77.0	5.144	5.144	0.000	653800	20.000	21.159	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	555617	20.000	18.806	
5 bis(2-Chloroethyl)Ether	93.0	5.230	5.230	0.000	707128	20.000	19.750	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	573564	20.000	19.791	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	732722	20.000	19.991	
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	478233	20.000	20.000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	635418	20.000	19.732	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.646	5.646	0.000	1246109	20.000	18.739	
$ 94 4-Methylphenol-d8	113.0	5.710	5.710	0.000	627262	20.000	19.714	
14 4-Methylphenol	108.0	5.732	5.732	0.000	684561	20.000	19.595	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	600853	20.000	19.649	
12 Acetophenone	105.0	5.785	5.785	0.000	957264	20.000	19.635	
15 Hexachloroethane	117.0	5.892	5.892	0.000	290965	20.000	19.317	
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	346150	20.000	20.106	
17 Nitrobenzene	77.0	5.930	5.930	0.000	825443	20.000	19.050	
18 Isophorone	82.0	6.116	6.116	0.000	1440675	20.000	19.558	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	764031	20.000	20.341	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	420139	20.000	21.311	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	402287	20.000	20.236	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	823520	20.000	20.014	
$ 96 2,4-Dichlorophenol-d3	165.0	6.368	6.368	0.000	596870	20.000	20.623	

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Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122215.D

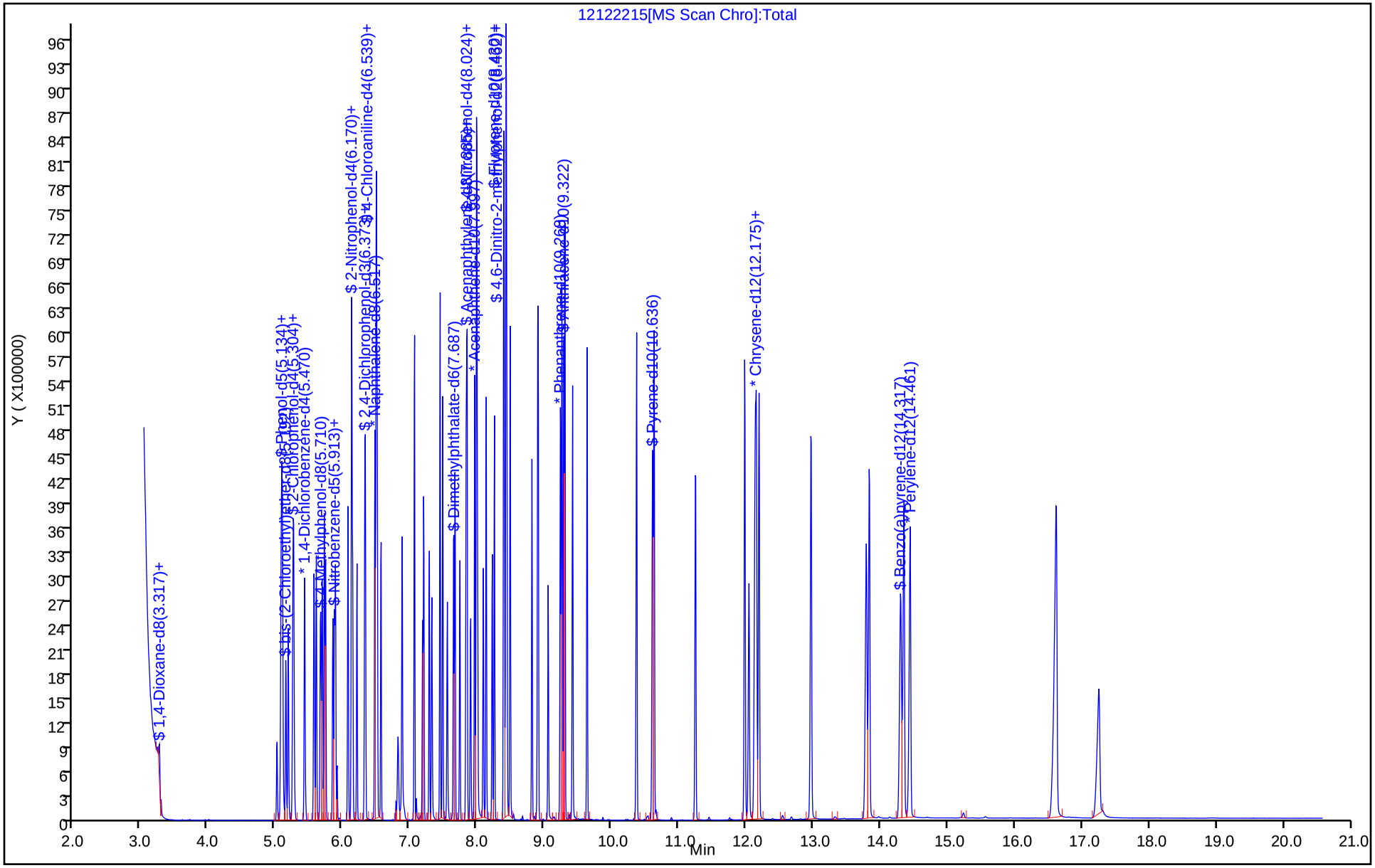
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 2,4-Dichlorophenol	162.0	6.373	6.373	0.000	589385	20.000	20.500	
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1991363	20.000	20.000	
24 Naphthalene	128.0	6.533	6.533	0.000	2362358	20.000	22.009	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	937506	20.000	21.488	
25 4-Chloroaniline	127.0	6.549	6.549	0.000	1265042	20.000	21.265	
26 Hexachlorobutadiene	225.0	6.608	6.608	0.000	342050	20.000	19.228	
27 Caprolactam	113.0	6.859	6.859	0.000	148600	20.000	18.353	
28 4-Chloro-3-methylphenol	107.0	6.918	6.918	0.000	610209	20.000	19.794	
29 2-Methylnaphthalene	142.0	7.105	7.105	0.000	1492239	20.000	21.545	
30 Hexachlorocyclopentadiene	237.0	7.222	7.222	0.000	320867	20.000	15.982	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.238	7.238	0.000	604398	20.000	20.581	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	373683	20.000	19.689	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	401474	20.000	20.127	
34 1,1'-Biphenyl	154.0	7.484	7.484	0.000	1691511	20.000	22.026	
35 2-Chloronaphthalene	162.0	7.522	7.522	0.000	1257272	20.000	21.296	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	456522	20.000	20.186	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	1447190	20.000	21.249	
37 Dimethylphthalate	163.0	7.703	7.703	0.000	1477282	20.000	21.487	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	330888	20.000	21.171	
$ 99 Acenaphthylene-d8	160.0	7.869	7.869	0.000	1958395	20.000	21.732	
38 Acenaphthylene	152.0	7.885	7.885	0.000	2112478	20.000	22.465	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	348201	20.000	21.267	
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	1042695	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.018	8.018	0.000	207807	20.000	19.109	
42 Acenaphthene	153.0	8.024	8.024	0.000	1469346	20.000	22.531	
$ 100 4-Nitrophenol-d4	143.0	8.034	8.034	0.000	347077	20.000	20.844	
44 4-Nitrophenol	109.0	8.040	8.040	0.000	215664	20.000	18.737	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	447918	20.000	20.968	
45 Dibenzofuran	168.0	8.168	8.168	0.000	1780744	20.000	21.385	
107 2,3,4,6-Tetrachlorophenol	232.0	8.259	8.259	0.000	346719	20.000	20.012	
47 Diethylphthalate	149.0	8.291	8.291	0.000	1495745	20.000	21.713	
49 4-Chlorophenyl-phenylether	204.0	8.424	8.424	0.000	763215	20.000	22.255	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1453993	20.000	22.754	
50 4-Nitroaniline	138.0	8.467	8.467	0.000	444352	20.000	24.630	
48 Fluorene	166.0	8.462	8.462	0.000	1713381	20.000	22.703	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	335724	20.000	19.400	
51 4,6-Dinitro-2-methylphenol	198.0	8.478	8.478	0.000	313542	20.000	18.816	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	1359462	20.000	21.190	
54 4-Bromophenyl-phenylether	248.0	8.846	8.846	0.000	432037	20.000	19.853	
55 Hexachlorobenzene	284.0	8.932	8.932	0.000	519144	20.000	19.931	
56 Atrazine	200.0	8.943	8.943	0.000	490032	20.000	21.051	
57 Pentachlorophenol	266.0	9.087	9.087	0.000	292707	20.000	18.144	
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	1901337	20.000	20.000	
59 Phenanthrene	178.0	9.290	9.290	0.000	2282828	20.000	21.562	
$ 103 Anthracene-d10	188.0	9.316	9.316	0.000	2050598	20.000	21.155	
60 Anthracene	178.0	9.338	9.338	0.000	2402125	20.000	22.449	
106 Carbazole	167.0	9.450	9.450	0.000	1933833	20.000	20.684	
62 Di-n-butylphthalate	149.0	9.664	9.664	0.000	2578623	20.000	22.238	
63 Fluoranthene	202.0	10.401	10.401	0.000	2404092	20.000	21.339	
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2036087	20.000	21.011	
64 Pyrene	202.0	10.663	10.663	0.000	2603217	20.000	22.216	

Report Date: 23-Dec-2015 09:58:04 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122215.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
66 Butylbenzylphthalate	149.0	11.277	11.277	0.000	1102905	20.000	21.419	
71 bis(2-Ethylhexyl)phthalate	149.0	12.004	12.004	0.000	1606500	20.000	22.187	
68 3,3'-Dichlorobenzidine	252.0	12.068	12.068	0.000	783755	20.000	19.315	
67 Benzo(a)anthracene	228.0	12.159	12.159	0.000	2416503	20.000	20.701	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	2220889	20.000	20.000	
70 Chrysene	228.0	12.217	12.217	0.000	2310182	20.000	20.944	
72 Di-n-octylphthalate	149.0	12.992	12.992	0.000	2759831	20.000	21.845	
73 Benzo(b)fluoranthene	252.0	13.809	13.809	0.000	2373082	20.000	19.606	
74 Benzo(k)fluoranthene	252.0	13.852	13.852	0.000	2422979	20.000	20.163	
$ 105 Benzo(a)pyrene-d12	264.0	14.317	14.317	0.000	1973613	20.000	19.421	
75 Benzo(a)pyrene	252.0	14.370	14.370	0.000	2416498	20.000	19.835	
* 76 Perylene-d12	264.0	14.461	14.461	0.000	2096361	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.619	16.619	0.000	2481767	20.000	18.707	
78 Dibenzo(a,h)anthracene	278.0	16.630	16.630	0.000	2265031	20.000	18.860	
79 Benzo(g,h,i)perylene	276.0	17.260	17.260	0.000	1802805	20.000	18.258	

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122215.D				
Injection Date:	22-Dec-2015 16:00:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020OW	Lab ID:	SSTD020OW		
Sample Info:	12122215.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 0851

Lab File ID: 12122302 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OZ Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
1,4-Dioxane	0.805	0.699	0.010	-13.2	40.0
Benzaldehyde	1.292	1.389	0.100	7.5	40.0
Phenol	1.990	2.019	0.080	1.5	20.0
Bis(2-Chloroethyl) ether	1.497	1.478	0.100	-1.3	20.0
2-Chlorophenol	1.533	1.543	0.200	0.7	20.0
2-Methylphenol	1.347	1.322	0.010	-1.9	20.0
2,2'-Oxybis(1-chloropropane)	2.781	2.532	0.010	-8.9	25.0
Acetophenone	2.039	1.992	0.060	-2.3	20.0
4-Methylphenol	1.461	1.407	0.010	-3.7	20.0
N-Nitroso-di-n propylamine	1.279	1.254	0.080	-1.9	25.0
Hexachloroethane	0.630	0.617	0.100	-2.1	20.0
Nitrobenzene	0.435	0.410	0.090	-5.8	20.0
Isophorone	0.740	0.721	0.100	-2.5	20.0
2-Nitrophenol	0.200	0.202	0.060	1.0	20.0
2,4-Dimethylphenol	0.377	0.377	0.050	0.1	25.0
Bis(2-chloroethoxy)methane	0.413	0.408	0.080	-1.2	20.0
2,4-Dichlorophenol	0.289	0.290	0.060	0.4	20.0
Naphthalene	1.078	1.164	0.200	7.9	20.0
4-Chloroaniline	0.597	0.623	0.010	4.3	40.0
Hexachlorobutadiene	0.179	0.167	0.040	-6.4	20.0
Caprolactam	0.081	0.072	0.010	-11.4	30.0
4-Chloro-3-methylphenol	0.310	0.305	0.040	-1.5	20.0
2-Methylnaphthalene	0.696	0.735	0.100	5.7	20.0
Hexachlorocyclo-pentadiene	0.385	0.365	0.010	-5.1	40.0
2,4,6-Trichlorophenol	0.364	0.361	0.090	-0.7	20.0
2,4,5-Trichlorophenol	0.383	0.379	0.100	-0.9	20.0
1,1'-Biphenyl	1.473	1.638	0.200	11.2	20.0
2-Chloronaphthalene	1.132	1.211	0.300	6.9	20.0
2-Nitroaniline	0.434	0.433	0.060	-0.3	25.0
Dimethylphthalate	1.319	1.404	0.300	6.5	20.0
2,6-Dinitrotoluene	0.300	0.315	0.080	5.2	20.0
Acenaphthylene	1.804	2.029	0.400	12.5	20.0
3-Nitroaniline	0.314	0.335	0.010	6.6	25.0
Acenaphthene	1.251	1.393	0.200	11.3	20.0
2,4-Dinitrophenol	0.209	0.241	0.010	15.3	50.0
4-Nitrophenol	0.221	0.203	0.010	-8.0	40.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 0851

Lab File ID: 12122302 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OZ Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Dibenzofuran	1.597	1.704	0.300	6.7	20.0
2,4-Dinitrotoluene	0.410	0.426	0.070	3.9	20.0
Diethylphthalate	1.321	1.437	0.300	8.8	20.0
1,2,4,5-Tetrachlorobenzene	0.563	0.578	0.100	2.6	20.0
4-Chlorophenyl-phenyl ether	0.658	0.722	0.100	9.8	20.0
Fluorene	1.448	1.599	0.200	10.5	20.0
4-Nitroaniline	0.346	0.423	0.010	22.2	40.0
4,6-Dinitro-2-methylphenol	0.175	0.182	0.010	4.1	30.0
4-Bromophenyl-phenylether	0.229	0.227	0.070	-0.7	20.0
N-Nitrosodiphenylamine	0.675	0.721	0.100	6.8	20.0
Hexachlorobenzene	0.274	0.270	0.050	-1.4	20.0
Atrazine	0.245	0.257	0.010	5.1	25.0
Pentachlorophenol	0.170	0.157	0.010	-7.5	40.0
Phenanthrene	1.114	1.196	0.200	7.4	20.0
Anthracene	1.126	1.261	0.200	12.1	20.0
Carbazole	0.983	1.024	0.050	4.2	20.0
Di-n-butylphthalate	1.220	1.368	0.500	12.2	20.0
Fluoranthene	1.185	1.257	0.100	6.0	20.0
Pyrene	1.055	1.152	0.400	9.2	25.0
Butylbenzylphthalate	0.464	0.510	0.100	10.0	25.0
3,3'-Dichlorobenzidine	0.365	0.373	0.010	2.2	40.0
Benzo(a)anthracene	1.051	1.083	0.300	3.0	20.0
Chrysene	0.993	1.037	0.200	4.4	20.0
Bis(2-ethylhexyl)phthalate	0.652	0.743	0.200	14.0	25.0
Di-n-octylphthalate	1.205	1.393	0.010	15.6	40.0
Benzo(b)fluoranthene	1.155	1.157	0.010	0.2	25.0
Benzo(k)fluoranthene	1.146	1.151	0.010	0.4	25.0
Benzo(a)pyrene	1.162	1.153	0.010	-0.8	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.238	0.010	-2.2	25.0
Dibenzo(a,h)anthracene	1.146	1.128	0.010	-1.5	25.0
Benzo(g,h,i)perylene	0.942	0.894	0.010	-5.1	30.0
2,3,4,6-Tetrachlorophenol	0.332	0.327	0.040	-1.5	20.0
1,4-Dioxane-d8	0.670	0.620	0.010	-7.5	25.0
Phenol-d5	1.832	1.840	0.010	0.4	25.0
Bis-(2-chloroethyl)ether-d8	1.236	1.161	0.100	-6.1	20.0
2-Chlorophenol-d4	1.212	1.215	0.200	0.2	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 0851

Lab File ID: 12122302 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OZ Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
4-Methylphenol-d8	1.331	1.307	0.010	-1.8	20.0
4-Chloroaniline-d4	0.438	0.456	0.010	4.1	40.0
Nitrobenzene-d5	0.173	0.172	0.050	-0.8	20.0
2-Nitrophenol-d4	0.198	0.210	0.050	6.0	20.0
2,4-Dichlorophenol-d3	0.291	0.295	0.060	1.4	20.0
Dimethylphthalate-d6	1.306	1.370	0.300	4.8	20.0
Acenaphthylene-d8	1.728	1.887	0.400	9.2	20.0
4-Nitrophenol-d4	0.319	0.329	0.010	3.1	40.0
Fluorene-d10	1.226	1.361	0.100	11.0	20.0
4,6-Dinitro-2-methylphenol-d2	0.182	0.191	0.010	5.1	30.0
Anthracene-d10	1.020	1.087	0.300	6.6	20.0
Pyrene-d10	0.873	0.912	0.300	4.5	25.0
Benzo(a)pyrene-d12	0.970	0.945	0.010	-2.5	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122302.D
Lab Sample ID: SSTD020OZ Client Sample ID: SSTD020OZ
Injection Date: 23-Dec-2015 08:51:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12122315.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m
Method Date: 23-Dec-2015 10:01:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
2 Benzaldehyde	1.292249	1.388613	0.1	7.5	40	107
$ 3 Phenol-d5	1.831928	1.839593	0.01	0.4	25	100
4 Phenol	1.990394	2.019276	0.08	1.5	20	101
5 bis(2-Chloroethyl)Ether	1.49731	1.47806	0.1	-1.3	20	99
$ 6 2-Chlorophenol-d4	1.212021	1.214942	0.2	0.2	20	100
7 2-Chlorophenol	1.532837	1.543062	0.2	0.7	20	101
10 2-Methylphenol	1.346697	1.321617	0.01	-1.9	20	98
11 2,2'-oxybis(1-Chloroprop	2.780997	2.532327	0.01	-8.9	25	91
12 Acetophenone	2.038836	1.99151	0.06	-2.3	20	98
13 N-Nitroso-di-n-propylami	1.278818	1.254054	0.08	-1.9	25	98
14 4-Methylphenol	1.461029	1.407327	0.01	-3.7	20	96
15 Hexachloroethane	0.629926	0.616975	0.1	-2.1	20	98
$ 16 Nitrobenzene-d5	0.172905	0.171601	0.05	-0.8	20	99
17 Nitrobenzene	0.435173	0.41003	0.09	-5.8	20	94
18 Isophorone	0.739821	0.72103	0.1	-2.5	20	97
19 2-Nitrophenol	0.199661	0.201616	0.06	1	20	101
20 2,4-Dimethylphenol	0.377242	0.377477	0.05	0.1	25	100
21 bis(2-Chloroethoxy)metha	0.413262	0.408401	0.08	-1.2	20	99
22 2,4-Dichlorophenol	0.288758	0.289792	0.06	0.4	20	100
24 Naphthalene	1.078025	1.163676	0.2	7.9	20	108
25 4-Chloroaniline	0.597483	0.622908	0.01	4.3	40	104
26 Hexachlorobutadiene	0.178661	0.167315	0.04	-6.4	20	94
27 Caprolactam	0.081321	0.072019	0.01	-11.4	30	89
28 4-Chloro-3-methylphenol	0.309611	0.304977	0.04	-1.5	20	99
29 2-Methylnaphthalene	0.69563	0.735121	0.1	5.7	20	106
30 Hexachlorocyclopentadien	0.385099	0.365323	0.01	-5.1	40	95
31 2,4,6-Trichlorophenol	0.364046	0.361404	0.09	-0.7	20	99
32 2,4,5-Trichlorophenol	0.382601	0.379268	0.1	-0.9	20	99
34 1,1'-Biphenyl	1.473039	1.637765	0.2	11.2	20	111
35 2-Chloronaphthalene	1.132399	1.210705	0.3	6.9	20	107
36 2-Nitroaniline	0.433793	0.432528	0.06	-0.3	25	100
37 Dimethylphthalate	1.318765	1.404478	0.3	6.5	20	106
38 Acenaphthylene	1.80366	2.029334	0.4	12.5	20	113
39 2,6-Dinitrotoluene	0.299788	0.315456	0.08	5.2	20	105
40 3-Nitroaniline	0.314048	0.334886	0.01	6.6	25	107

Report Date: 23-Dec-2015 16:08:25 AIM Revision: 1.0 26-May-2015 13:41:26
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Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Acenaphthene	1.250858	1.392515	0.2	11.3	20	111
43 2,4-Dinitrophenol	0.208592	0.240536	0.01	15.3	50	115
44 4-Nitrophenol	0.220779	0.203197	0.01	-8	40	92
45 Dibenzofuran	1.597254	1.704373	0.3	6.7	20	107
46 2,4-Dinitrotoluene	0.409737	0.425739	0.07	3.9	20	104
47 Diethylphthalate	1.321358	1.437192	0.3	8.8	20	109
92 1,2,4,5-Tetrachlorobenze	0.563295	0.577905	0.1	2.6	20	103
48 Fluorene	1.447601	1.598879	0.2	10.5	20	110
49 4-Chlorophenyl-phenyleth	0.657798	0.721952	0.1	9.8	20	110
50 4-Nitroaniline	0.346048	0.422865	0.01	22.2	40	122
51 4,6-Dinitro-2-methylphen	0.175287	0.182471	0.01	4.1	30	104
52 N-Nitrosodiphenylamine	0.674839	0.7209	0.1	6.8	20	107
54 4-Bromophenyl-phenylethe	0.228913	0.227249	0.07	-0.7	20	99
55 Hexachlorobenzene	0.273986	0.270224	0.05	-1.4	20	99
56 Atrazine	0.244859	0.257318	0.01	5.1	25	105
57 Pentachlorophenol	0.169693	0.157045	0.01	-7.5	40	93
59 Phenanthrene	1.113655	1.195803	0.2	7.4	20	107
60 Anthracene	1.125577	1.261433	0.2	12.1	20	112
62 Di-n-butylphthalate	1.21971	1.368218	0.5	12.2	20	112
63 Fluoranthene	1.185101	1.256564	0.1	6	20	106
64 Pyrene	1.055238	1.15241	0.4	9.2	25	109
66 Butylbenzylphthalate	0.463706	0.510246	0.1	10	25	110
67 Benzo(a)anthracene	1.051229	1.082863	0.3	3	20	103
68 3,3'-Dichlorobenzidine	0.365424	0.373432	0.01	2.2	40	102
70 Chrysene	0.993336	1.036997	0.2	4.4	20	104
71 bis(2-Ethylhexyl)phthala	0.652065	0.743385	0.2	14	25	114
72 Di-n-octylphthalate	1.205285	1.392861	0.01	15.6	40	116
73 Benzo(b)fluoranthene	1.154726	1.156988	0.01	0.2	25	100
74 Benzo(k)fluoranthene	1.146463	1.150786	0.01	0.4	25	100
75 Benzo(a)pyrene	1.162294	1.153275	0.01	-0.8	20	99
77 Indeno(1,2,3-cd)pyrene	1.2657	1.237867	0.01	-2.2	25	98
78 Dibenzo(a,h)anthracene	1.145756	1.128136	0.01	-1.5	25	98
79 Benzo(g,h,i)perylene	0.94203	0.893764	0.01	-5.1	30	95
$ 93 bis-(2-Chloroethyl)ether	1.235609	1.160543	0.1	-6.1	20	94
$ 94 4-Methylphenol-d8	1.330674	1.306663	0.01	-1.8	20	98
$ 95 2-Nitrophenol-d4	0.198006	0.209954	0.05	6	20	106
$ 96 2,4-Dichlorophenol-d3	0.290671	0.294839	0.06	1.4	20	101
$ 97 4-Chloroaniline-d4	0.438177	0.456284	0.01	4.1	40	104
$ 98 Dimethylphthalate-d6	1.306354	1.369541	0.3	4.8	20	105
$ 99 Acenaphthylene-d8	1.728495	1.887063	0.4	9.2	20	109
$ 100 4-Nitrophenol-d4	0.319389	0.329286	0.01	3.1	40	103
$ 101 Fluorene-d10	1.225675	1.360852	0.1	11	20	111
$ 102 4,6-Dinitro-2-methylphen	0.182033	0.191359	0.01	5.1	30	105
$ 103 Anthracene-d10	1.019638	1.087221	0.3	6.6	20	107
$ 104 Pyrene-d10	0.872662	0.912029	0.3	4.5	25	105
$ 105 Benzo(a)pyrene-d12	0.969526	0.945232	0.01	-2.5	20	97
106 Carbazole	0.983462	1.024354	0.05	4.2	20	104

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Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
107 2,3,4,6-Tetrachloropheno	0.332328	0.327181	0.04	-1.5	20	98
108 1,4-Dioxane	0.804964	0.698836	0.01	-13.2	40	87
$ 109 1,4-Dioxane-d8	0.670057	0.620049	0.01	-7.5	25	93

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122302.D		
Lab Sample ID:	SSTD020OZ	Client Sample ID:	SSTD020OZ
Injection Date:	23-Dec-2015 08:51:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, SVMS 1673		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 10:01:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	984335	20.000	20.084	
108 1,4-Dioxane	88.0	3.333	3.333	0.000	149574	8.0000	6.9453	
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	132711	8.0000	7.4029	
4 Phenol	94.0	5.133	5.133	0.000	1080480	20.000	20.290	
2 Benzaldehyde	77.0	5.144	5.144	0.000	743023	20.000	21.491	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	620987	20.000	18.785	
5 bis(2-Chloroethyl)Ether	93.0	5.229	5.229	0.000	790885	20.000	19.743	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	650095	20.000	20.048	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	825666	20.000	20.133	
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	535083	20.000	20.000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	707175	20.000	19.628	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.646	5.646	0.000	1355005	20.000	18.212	
$ 94 4-Methylphenol-d8	113.0	5.710	5.710	0.000	699173	20.000	19.639	
14 4-Methylphenol	108.0	5.737	5.737	0.000	753037	20.000	19.265	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	671023	20.000	19.613	
12 Acetophenone	105.0	5.785	5.785	0.000	1065623	20.000	19.536	
15 Hexachloroethane	117.0	5.892	5.892	0.000	330133	20.000	19.589	
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	382216	20.000	19.849	
17 Nitrobenzene	77.0	5.929	5.929	0.000	913283	20.000	18.844	
18 Isophorone	82.0	6.116	6.116	0.000	1605991	20.000	19.492	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	840777	20.000	20.012	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	467642	20.000	21.207	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	449070	20.000	20.196	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	909655	20.000	19.765	
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.367	0.000	656711	20.000	20.287	

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Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 2,4-Dichlorophenol	162.0	6.378	6.378	0.000	645471	20.000	20.072	
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	2227358	20.000	20.000	
24 Naphthalene	128.0	6.533	6.533	0.000	2591922	20.000	21.589	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	1016308	20.000	20.826	
25 4-Chloroaniline	127.0	6.554	6.554	0.000	1387439	20.000	20.851	
26 Hexachlorobutadiene	225.0	6.608	6.608	0.000	372671	20.000	18.730	
27 Caprolactam	113.0	6.864	6.864	0.000	160413	20.000	17.712	
28 4-Chloro-3-methylphenol	107.0	6.923	6.923	0.000	679294	20.000	19.701	
29 2-Methylnaphthalene	142.0	7.105	7.105	0.000	1637378	20.000	21.135	
30 Hexachlorocyclopentadiene	237.0	7.222	7.222	0.000	418886	20.000	18.973	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.243	7.243	0.000	662636	20.000	20.519	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	414392	20.000	19.855	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	434875	20.000	19.826	
34 1,1'-Biphenyl	154.0	7.484	7.484	0.000	1877891	20.000	22.237	
35 2-Chloronaphthalene	162.0	7.521	7.521	0.000	1388216	20.000	21.383	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	495944	20.000	19.942	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	1570340	20.000	20.967	
37 Dimethylphthalate	163.0	7.708	7.708	0.000	1610400	20.000	21.300	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	361708	20.000	21.045	
$ 99 Acenaphthylene-d8	160.0	7.874	7.874	0.000	2163740	20.000	21.835	
38 Acenaphthylene	152.0	7.885	7.885	0.000	2326871	20.000	22.502	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	383986	20.000	21.327	
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	1146618	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.023	8.023	0.000	275803	20.000	23.063	
42 Acenaphthene	153.0	8.029	8.029	0.000	1596683	20.000	22.265	
$ 100 4-Nitrophenol-d4	143.0	8.039	8.039	0.000	377565	20.000	20.620	
44 4-Nitrophenol	109.0	8.045	8.045	0.000	232989	20.000	18.407	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	488160	20.000	20.781	
45 Dibenzofuran	168.0	8.168	8.168	0.000	1954265	20.000	21.341	
107 2,3,4,6-Tetrachlorophenol	232.0	8.259	8.259	0.000	375152	20.000	19.690	
47 Diethylphthalate	149.0	8.291	8.291	0.000	1647910	20.000	21.753	
49 4-Chlorophenyl-phenylether	204.0	8.429	8.429	0.000	827803	20.000	21.951	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1560377	20.000	22.206	
50 4-Nitroaniline	138.0	8.472	8.472	0.000	484865	20.000	24.440	
48 Fluorene	166.0	8.462	8.462	0.000	1833303	20.000	22.090	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	392469	20.000	21.025	
51 4,6-Dinitro-2-methylphenol	198.0	8.478	8.478	0.000	374240	20.000	20.820	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	1478535	20.000	21.365	
54 4-Bromophenyl-phenylether	248.0	8.851	8.851	0.000	466077	20.000	19.855	
55 Hexachlorobenzene	284.0	8.932	8.932	0.000	554217	20.000	19.725	
56 Atrazine	200.0	8.942	8.942	0.000	527748	20.000	21.018	
57 Pentachlorophenol	266.0	9.092	9.092	0.000	322093	20.000	18.509	
* 58 Phenanthrene-d10	188.0	9.274	9.274	0.000	2050956	20.000	20.000	
59 Phenanthrene	178.0	9.295	9.295	0.000	2452539	20.000	21.475	
$ 103 Anthracene-d10	188.0	9.322	9.322	0.000	2229842	20.000	21.326	
60 Anthracene	178.0	9.338	9.338	0.000	2587144	20.000	22.414	
106 Carbazole	167.0	9.450	9.450	0.000	2100904	20.000	20.832	
62 Di-n-butylphthalate	149.0	9.669	9.669	0.000	2806154	20.000	22.435	
63 Fluoranthene	202.0	10.401	10.401	0.000	2577157	20.000	21.206	
$ 104 Pyrene-d10	212.0	10.641	10.641	0.000	2175890	20.000	20.902	
64 Pyrene	202.0	10.663	10.663	0.000	2749382	20.000	21.842	

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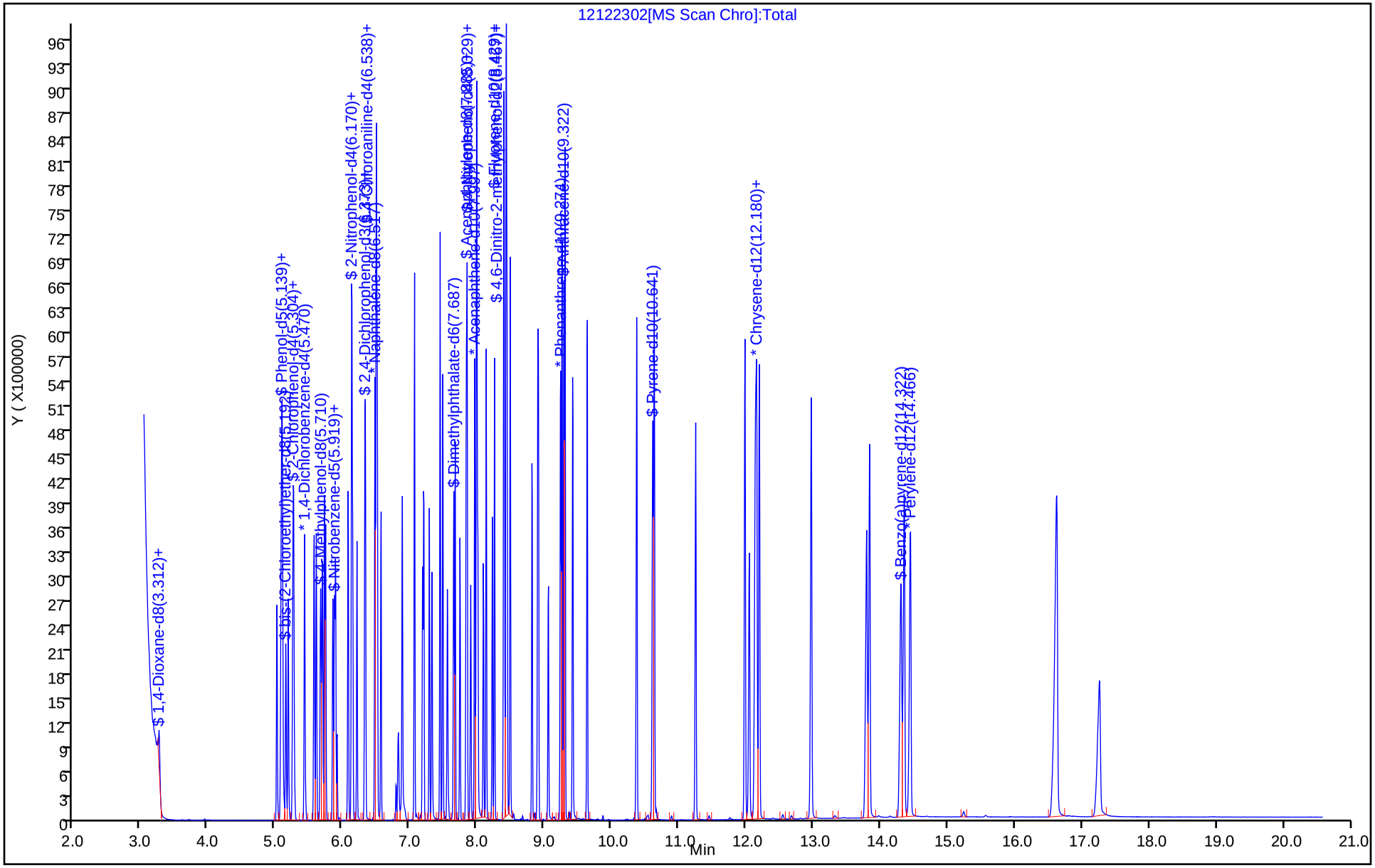
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122302.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
66 Butylbenzylphthalate	149.0	11.277	11.277	0.000	1217328	20.000	22.007	
71 bis(2-Ethylhexyl)phthalate	149.0	12.009	12.009	0.000	1773543	20.000	22.801	
68 3,3'-Dichlorobenzidine	252.0	12.073	12.073	0.000	890921	20.000	20.438	
67 Benzo(a)anthracene	228.0	12.164	12.164	0.000	2583460	20.000	20.602	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	2385768	20.000	20.000	
70 Chrysene	228.0	12.222	12.222	0.000	2474035	20.000	20.879	
72 Di-n-octylphthalate	149.0	12.992	12.992	0.000	3030221	20.000	23.113	
73 Benzo(b)fluoranthene	252.0	13.814	13.814	0.000	2517070	20.000	20.039	
74 Benzo(k)fluoranthene	252.0	13.857	13.857	0.000	2503578	20.000	20.075	
$ 105 Benzo(a)pyrene-d12	264.0	14.322	14.322	0.000	2056387	20.000	19.499	
75 Benzo(a)pyrene	252.0	14.375	14.375	0.000	2508992	20.000	19.845	
* 76 Perylene-d12	264.0	14.466	14.466	0.000	2175537	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.630	16.630	0.000	2693026	20.000	19.560	
78 Dibenzo(a,h)anthracene	278.0	16.635	16.635	0.000	2454302	20.000	19.692	
79 Benzo(g,h,i)perylene	276.0	17.271	17.271	0.000	1944417	20.000	18.975	

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122302.D				
Injection Date:	23-Dec-2015 08:51:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020OZ	Lab ID:	SSTD020OZ		
Sample Info:	12122315.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 1759

Lab File ID: 12122321 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PA Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
1,4-Dioxane	0.805	0.712	0.010	-11.5	40.0
Benzaldehyde	1.292	1.254	0.100	-3.0	40.0
Phenol	1.990	2.008	0.080	0.9	20.0
Bis(2-Chloroethyl) ether	1.497	1.466	0.100	-2.1	20.0
2-Chlorophenol	1.533	1.546	0.200	0.8	20.0
2-Methylphenol	1.347	1.314	0.010	-2.5	20.0
2,2'-Oxybis(1-chloropropane)	2.781	2.475	0.010	-11.0	25.0
Acetophenone	2.039	1.968	0.060	-3.5	20.0
4-Methylphenol	1.461	1.393	0.010	-4.6	20.0
N-Nitroso-di-n propylamine	1.279	1.220	0.080	-4.6	25.0
Hexachloroethane	0.630	0.606	0.100	-3.7	20.0
Nitrobenzene	0.435	0.411	0.090	-5.6	20.0
Isophorone	0.740	0.719	0.100	-2.9	20.0
2-Nitrophenol	0.200	0.206	0.060	3.3	20.0
2,4-Dimethylphenol	0.377	0.374	0.050	-0.8	25.0
Bis(2-chloroethoxy)methane	0.413	0.411	0.080	-0.5	20.0
2,4-Dichlorophenol	0.289	0.294	0.060	1.8	20.0
Naphthalene	1.078	1.167	0.200	8.3	20.0
4-Chloroaniline	0.597	0.618	0.010	3.4	40.0
Hexachlorobutadiene	0.179	0.171	0.040	-4.0	20.0
Caprolactam	0.081	0.078	0.010	-3.9	30.0
4-Chloro-3-methylphenol	0.310	0.299	0.040	-3.3	20.0
2-Methylnaphthalene	0.696	0.734	0.100	5.5	20.0
Hexachlorocyclo-pentadiene	0.385	0.265	0.010	-31.3	40.0
2,4,6-Trichlorophenol	0.364	0.359	0.090	-1.4	20.0
2,4,5-Trichlorophenol	0.383	0.383	0.100	0.2	20.0
1,1'-Biphenyl	1.473	1.612	0.200	9.5	20.0
2-Chloronaphthalene	1.132	1.195	0.300	5.5	20.0
2-Nitroaniline	0.434	0.427	0.060	-1.5	25.0
Dimethylphthalate	1.319	1.409	0.300	6.8	20.0
2,6-Dinitrotoluene	0.300	0.318	0.080	6.0	20.0
Acenaphthylene	1.804	1.996	0.400	10.6	20.0
3-Nitroaniline	0.314	0.329	0.010	4.8	25.0
Acenaphthene	1.251	1.370	0.200	9.5	20.0
2,4-Dinitrophenol	0.209	0.211	0.010	1.3	50.0
4-Nitrophenol	0.221	0.195	0.010	-11.8	40.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 1759

Lab File ID: 12122321 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PA Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Dibenzofuran	1.597	1.691	0.300	5.9	20.0
2,4-Dinitrotoluene	0.410	0.436	0.070	6.4	20.0
Diethylphthalate	1.321	1.437	0.300	8.8	20.0
1,2,4,5-Tetrachlorobenzene	0.563	0.578	0.100	2.6	20.0
4-Chlorophenyl-phenyl ether	0.658	0.728	0.100	10.7	20.0
Fluorene	1.448	1.598	0.200	10.4	20.0
4-Nitroaniline	0.346	0.373	0.010	7.7	40.0
4,6-Dinitro-2-methylphenol	0.175	0.163	0.010	-6.9	30.0
4-Bromophenyl-phenylether	0.229	0.226	0.070	-1.1	20.0
N-Nitrosodiphenylamine	0.675	0.700	0.100	3.7	20.0
Hexachlorobenzene	0.274	0.272	0.050	-0.7	20.0
Atrazine	0.245	0.252	0.010	2.8	25.0
Pentachlorophenol	0.170	0.152	0.010	-10.4	40.0
Phenanthrene	1.114	1.177	0.200	5.6	20.0
Anthracene	1.126	1.238	0.200	10.0	20.0
Carbazole	0.983	0.987	0.050	0.3	20.0
Di-n-butylphthalate	1.220	1.353	0.500	10.9	20.0
Fluoranthene	1.185	1.258	0.100	6.2	20.0
Pyrene	1.055	1.170	0.400	10.9	25.0
Butylbenzylphthalate	0.464	0.513	0.100	10.6	25.0
3,3'-Dichlorobenzidine	0.365	0.360	0.010	-1.6	40.0
Benzo(a)anthracene	1.051	1.085	0.300	3.2	20.0
Chrysene	0.993	1.052	0.200	5.9	20.0
Bis(2-ethylhexyl)phthalate	0.652	0.744	0.200	14.1	25.0
Di-n-octylphthalate	1.205	1.330	0.010	10.4	40.0
Benzo(b)fluoranthene	1.155	1.111	0.010	-3.8	25.0
Benzo(k)fluoranthene	1.146	1.195	0.010	4.3	25.0
Benzo(a)pyrene	1.162	1.156	0.010	-0.5	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.146	0.010	-9.5	25.0
Dibenzo(a,h)anthracene	1.146	1.048	0.010	-8.6	25.0
Benzo(g,h,i)perylene	0.942	0.808	0.010	-14.3	30.0
2,3,4,6-Tetrachlorophenol	0.332	0.334	0.040	0.4	20.0
1,4-Dioxane-d8	0.670	0.640	0.010	-4.5	25.0
Phenol-d5	1.832	1.844	0.010	0.7	25.0
Bis-(2-chloroethyl)ether-d8	1.236	1.145	0.100	-7.3	20.0
2-Chlorophenol-d4	1.212	1.208	0.200	-0.3	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R18

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 1759

Lab File ID: 12122321 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PA Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
4-Methylphenol-d8	1.331	1.295	0.010	-2.6	20.0
4-Chloroaniline-d4	0.438	0.454	0.010	3.6	40.0
Nitrobenzene-d5	0.173	0.173	0.050	0.0	20.0
2-Nitrophenol-d4	0.198	0.211	0.050	6.4	20.0
2,4-Dichlorophenol-d3	0.291	0.298	0.060	2.5	20.0
Dimethylphthalate-d6	1.306	1.390	0.300	6.4	20.0
Acenaphthylene-d8	1.728	1.872	0.400	8.3	20.0
4-Nitrophenol-d4	0.319	0.315	0.010	-1.4	40.0
Fluorene-d10	1.226	1.367	0.100	11.5	20.0
4,6-Dinitro-2-methylphenol-d2	0.182	0.174	0.010	-4.7	30.0
Anthracene-d10	1.020	1.061	0.300	4.1	20.0
Pyrene-d10	0.873	0.921	0.300	5.6	25.0
Benzo(a)pyrene-d12	0.970	0.949	0.010	-2.1	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122321.D
Lab Sample ID: SSTD020PA Client Sample ID: SSTD020PA
Injection Date: 23-Dec-2015 17:59:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12122315.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12122315.b\SOMBNA-end.m
Method Date: 23-Dec-2015 18:27:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
2 Benzaldehyde	1.292249	1.253742	0.1	-3	40	97
$ 3 Phenol-d5	1.831928	1.844305	0.01	0.7	25	101
4 Phenol	1.990394	2.0076	0.08	0.9	20	101
5 bis(2-Chloroethyl)Ether	1.49731	1.466158	0.1	-2.1	20	98
$ 6 2-Chlorophenol-d4	1.212021	1.207983	0.2	-0.3	20	100
7 2-Chlorophenol	1.532837	1.545505	0.2	0.8	20	101
10 2-Methylphenol	1.346697	1.313654	0.01	-2.5	20	98
11 2,2'-oxybis(1-Chloroprop	2.780997	2.47462	0.01	-11	25	89
12 Acetophenone	2.038836	1.96835	0.06	-3.5	20	97
13 N-Nitroso-di-n-propylami	1.278818	1.219665	0.08	-4.6	25	95
14 4-Methylphenol	1.461029	1.393352	0.01	-4.6	20	95
15 Hexachloroethane	0.629926	0.606454	0.1	-3.7	20	96
$ 16 Nitrobenzene-d5	0.172905	0.172894	0.05	0	20	100
17 Nitrobenzene	0.435173	0.410957	0.09	-5.6	20	94
18 Isophorone	0.739821	0.718727	0.1	-2.9	20	97
19 2-Nitrophenol	0.199661	0.206294	0.06	3.3	20	103
20 2,4-Dimethylphenol	0.377242	0.374109	0.05	-0.8	25	99
21 bis(2-Chloroethoxy)metha	0.413262	0.411028	0.08	-0.5	20	99
22 2,4-Dichlorophenol	0.288758	0.293908	0.06	1.8	20	102
24 Naphthalene	1.078025	1.167285	0.2	8.3	20	108
25 4-Chloroaniline	0.597483	0.617636	0.01	3.4	40	103
26 Hexachlorobutadiene	0.178661	0.171492	0.04	-4	20	96
27 Caprolactam	0.081321	0.078117	0.01	-3.9	30	96
28 4-Chloro-3-methylphenol	0.309611	0.299312	0.04	-3.3	20	97
29 2-Methylnaphthalene	0.69563	0.734134	0.1	5.5	20	106
30 Hexachlorocyclopentadien	0.385099	0.264538	0.01	-31.3	40	69
31 2,4,6-Trichlorophenol	0.364046	0.358826	0.09	-1.4	20	99
32 2,4,5-Trichlorophenol	0.382601	0.383348	0.1	0.2	20	100
34 1,1'-Biphenyl	1.473039	1.612334	0.2	9.5	20	109
35 2-Chloronaphthalene	1.132399	1.195132	0.3	5.5	20	106
36 2-Nitroaniline	0.433793	0.427389	0.06	-1.5	25	99
37 Dimethylphthalate	1.318765	1.408798	0.3	6.8	20	107
38 Acenaphthylene	1.80366	1.995541	0.4	10.6	20	111
39 2,6-Dinitrotoluene	0.299788	0.317701	0.08	6	20	106
40 3-Nitroaniline	0.314048	0.329223	0.01	4.8	25	105

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Acenaphthene	1.250858	1.370063	0.2	9.5	20	110
43 2,4-Dinitrophenol	0.208592	0.211263	0.01	1.3	50	101
44 4-Nitrophenol	0.220779	0.194623	0.01	-11.8	40	88
45 Dibenzofuran	1.597254	1.690774	0.3	5.9	20	106
46 2,4-Dinitrotoluene	0.409737	0.43578	0.07	6.4	20	106
47 Diethylphthalate	1.321358	1.437229	0.3	8.8	20	109
92 1,2,4,5-Tetrachlorobenze	0.563295	0.577782	0.1	2.6	20	103
48 Fluorene	1.447601	1.597692	0.2	10.4	20	110
49 4-Chlorophenyl-phenyleth	0.657798	0.727987	0.1	10.7	20	111
50 4-Nitroaniline	0.346048	0.37285	0.01	7.7	40	108
51 4,6-Dinitro-2-methylphen	0.175287	0.163259	0.01	-6.9	30	93
52 N-Nitrosodiphenylamine	0.674839	0.699781	0.1	3.7	20	104
54 4-Bromophenyl-phenylethe	0.228913	0.226484	0.07	-1.1	20	99
55 Hexachlorobenzene	0.273986	0.272133	0.05	-0.7	20	99
56 Atrazine	0.244859	0.251616	0.01	2.8	25	103
57 Pentachlorophenol	0.169693	0.152026	0.01	-10.4	40	90
59 Phenanthrene	1.113655	1.176515	0.2	5.6	20	106
60 Anthracene	1.125577	1.237668	0.2	10	20	110
62 Di-n-butylphthalate	1.21971	1.352649	0.5	10.9	20	111
63 Fluoranthene	1.185101	1.25835	0.1	6.2	20	106
64 Pyrene	1.055238	1.170087	0.4	10.9	25	111
66 Butylbenzylphthalate	0.463706	0.513011	0.1	10.6	25	111
67 Benzo(a)anthracene	1.051229	1.085098	0.3	3.2	20	103
68 3,3'-Dichlorobenzidine	0.365424	0.359599	0.01	-1.6	40	98
70 Chrysene	0.993336	1.051621	0.2	5.9	20	106
71 bis(2-Ethylhexyl)phthala	0.652065	0.74369	0.2	14.1	25	114
72 Di-n-octylphthalate	1.205285	1.33032	0.01	10.4	40	110
73 Benzo(b)fluoranthene	1.154726	1.111074	0.01	-3.8	25	96
74 Benzo(k)fluoranthene	1.146463	1.195449	0.01	4.3	25	104
75 Benzo(a)pyrene	1.162294	1.155987	0.01	-0.5	20	99
77 Indeno(1,2,3-cd)pyrene	1.2657	1.145631	0.01	-9.5	25	91
78 Dibenzo(a,h)anthracene	1.145756	1.047637	0.01	-8.6	25	91
79 Benzo(g,h,i)perylene	0.94203	0.807657	0.01	-14.3	30	86
$ 93 bis-(2-Chloroethyl)ether	1.235609	1.144932	0.1	-7.3	20	93
$ 94 4-Methylphenol-d8	1.330674	1.295488	0.01	-2.6	20	97
$ 95 2-Nitrophenol-d4	0.198006	0.210605	0.05	6.4	20	106
$ 96 2,4-Dichlorophenol-d3	0.290671	0.297834	0.06	2.5	20	102
$ 97 4-Chloroaniline-d4	0.438177	0.453874	0.01	3.6	40	104
$ 98 Dimethylphthalate-d6	1.306354	1.390173	0.3	6.4	20	106
$ 99 Acenaphthylene-d8	1.728495	1.872078	0.4	8.3	20	108
$ 100 4-Nitrophenol-d4	0.319389	0.314882	0.01	-1.4	40	99
$ 101 Fluorene-d10	1.225675	1.366689	0.1	11.5	20	112
$ 102 4,6-Dinitro-2-methylphen	0.182033	0.173533	0.01	-4.7	30	95
$ 103 Anthracene-d10	1.019638	1.061037	0.3	4.1	20	104
$ 104 Pyrene-d10	0.872662	0.921305	0.3	5.6	25	106
$ 105 Benzo(a)pyrene-d12	0.969526	0.949425	0.01	-2.1	20	98
106 Carbazole	0.983462	0.986813	0.05	0.3	20	100

Report Date: 23-Dec-2015 18:27:19 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122321.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
107 2,3,4,6-Tetrachloropheno	0.332328	0.3338	0.04	0.4	20	100
108 1,4-Dioxane	0.804964	0.712387	0.01	-11.5	40	88
$ 109 1,4-Dioxane-d8	0.670057	0.640101	0.01	-4.5	25	96

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122321.D		
Lab Sample ID:	SSTD020PA	Client Sample ID:	SSTD020PA
Injection Date:	23-Dec-2015 17:59:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, SVMS 1673		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA-end.m		
Method Date:	23-Dec-2015 18:27:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 18:27:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	1029364	20.000	20.135	
108 1,4-Dioxane	88.0	3.333	3.333	0.000	159042	8.0000	7.0799	
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	142904	8.0000	7.6423	
4 Phenol	94.0	5.134	5.134	0.000	1120504	20.000	20.173	
2 Benzaldehyde	77.0	5.139	5.139	0.000	699752	20.000	19.404	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	639022	20.000	18.532	
5 bis(2-Chloroethyl)Ether	93.0	5.230	5.230	0.000	818308	20.000	19.584	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	674213	20.000	19.933	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	862594	20.000	20.165	
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	558131	20.000	20.000	
10 2-Methylphenol	108.0	5.609	5.609	0.000	733191	20.000	19.509	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.646	5.646	0.000	1381162	20.000	17.797	
$ 94 4-Methylphenol-d8	113.0	5.711	5.711	0.000	723052	20.000	19.471	
14 4-Methylphenol	108.0	5.737	5.737	0.000	777673	20.000	19.074	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	680733	20.000	19.075	
12 Acetophenone	105.0	5.780	5.780	0.000	1098597	20.000	19.309	
15 Hexachloroethane	117.0	5.892	5.892	0.000	338481	20.000	19.255	
$ 16 Nitrobenzene-d5	128.0	5.914	5.914	0.000	395928	20.000	19.999	
17 Nitrobenzene	77.0	5.930	5.930	0.000	941092	20.000	18.887	
18 Isophorone	82.0	6.117	6.117	0.000	1645884	20.000	19.430	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	856710	20.000	19.834	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	482286	20.000	21.273	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	472413	20.000	20.664	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	941254	20.000	19.892	
$ 96 2,4-Dichlorophenol-d3	165.0	6.368	6.368	0.000	682040	20.000	20.493	

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Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122321.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 2,4-Dichlorophenol	162.0	6.373	6.373	0.000	673049	20.000	20.357	
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	2289999	20.000	20.000	
24 Naphthalene	128.0	6.533	6.533	0.000	2673082	20.000	21.656	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	1039372	20.000	20.717	
25 4-Chloroaniline	127.0	6.549	6.549	0.000	1414385	20.000	20.675	
26 Hexachlorobutadiene	225.0	6.603	6.603	0.000	392716	20.000	19.197	
27 Caprolactam	113.0	6.859	6.859	0.000	178887	20.000	19.212	
28 4-Chloro-3-methylphenol	107.0	6.923	6.923	0.000	685424	20.000	19.335	
29 2-Methylnaphthalene	142.0	7.105	7.105	0.000	1681167	20.000	21.107	
30 Hexachlorocyclopentadiene	237.0	7.222	7.222	0.000	314871	20.000	13.739	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.238	7.238	0.000	687715	20.000	20.514	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	427099	20.000	19.713	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	456287	20.000	20.039	
34 1,1'-Biphenyl	154.0	7.484	7.484	0.000	1919109	20.000	21.891	
35 2-Chloronaphthalene	162.0	7.522	7.522	0.000	1422527	20.000	21.108	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	508708	20.000	19.705	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	1654679	20.000	21.283	
37 Dimethylphthalate	163.0	7.703	7.703	0.000	1676847	20.000	21.365	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	378149	20.000	21.195	
$ 99 Acenaphthylene-d8	160.0	7.869	7.869	0.000	2228274	20.000	21.661	
38 Acenaphthylene	152.0	7.885	7.885	0.000	2375229	20.000	22.128	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	391864	20.000	20.966	
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	1190268	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.018	8.018	0.000	251459	20.000	20.256	
42 Acenaphthene	153.0	8.024	8.024	0.000	1630742	20.000	21.906	
$ 100 4-Nitrophenol-d4	143.0	8.034	8.034	0.000	374794	20.000	19.718	
44 4-Nitrophenol	109.0	8.045	8.045	0.000	231653	20.000	17.631	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	518695	20.000	21.271	
45 Dibenzofuran	168.0	8.168	8.168	0.000	2012474	20.000	21.171	
107 2,3,4,6-Tetrachlorophenol	232.0	8.259	8.259	0.000	397312	20.000	20.089	
47 Diethylphthalate	149.0	8.291	8.291	0.000	1710688	20.000	21.754	
49 4-Chlorophenyl-phenylether	204.0	8.424	8.424	0.000	866500	20.000	22.134	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1626726	20.000	22.301	
50 4-Nitroaniline	138.0	8.467	8.467	0.000	443791	20.000	21.549	
48 Fluorene	166.0	8.462	8.462	0.000	1901682	20.000	22.074	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	377346	20.000	19.066	
51 4,6-Dinitro-2-methylphenol	198.0	8.478	8.478	0.000	355007	20.000	18.628	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	1521671	20.000	20.739	
54 4-Bromophenyl-phenylether	248.0	8.846	8.846	0.000	492489	20.000	19.788	
55 Hexachlorobenzene	284.0	8.932	8.932	0.000	591752	20.000	19.865	
56 Atrazine	200.0	8.943	8.943	0.000	547138	20.000	20.552	
57 Pentachlorophenol	266.0	9.087	9.087	0.000	330581	20.000	17.918	
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	2174497	20.000	20.000	
59 Phenanthrene	178.0	9.290	9.290	0.000	2558329	20.000	21.129	
$ 103 Anthracene-d10	188.0	9.322	9.322	0.000	2307221	20.000	20.812	
60 Anthracene	178.0	9.338	9.338	0.000	2691305	20.000	21.992	
106 Carbazole	167.0	9.450	9.450	0.000	2145821	20.000	20.068	
62 Di-n-butylphthalate	149.0	9.664	9.664	0.000	2941332	20.000	22.180	
63 Fluoranthene	202.0	10.401	10.401	0.000	2736278	20.000	21.236	
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2300296	20.000	21.115	
64 Pyrene	202.0	10.663	10.663	0.000	2921451	20.000	22.177	

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Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
66 Butylbenzylphthalate	149.0	11.277	11.277	0.000	1280875	20.000	22.127	
71 bis(2-Ethylhexyl)phthalate	149.0	12.004	12.004	0.000	1856831	20.000	22.810	
68 3,3'-Dichlorobenzidine	252.0	12.073	12.073	0.000	897840	20.000	19.681	
67 Benzo(a)anthracene	228.0	12.159	12.159	0.000	2709250	20.000	20.644	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	2496780	20.000	20.000	
70 Chrysene	228.0	12.217	12.217	0.000	2625666	20.000	21.174	
72 Di-n-octylphthalate	149.0	12.987	12.987	0.000	3195609	20.000	22.075	
73 Benzo(b)fluoranthene	252.0	13.809	13.809	0.000	2668949	20.000	19.244	
74 Benzo(k)fluoranthene	252.0	13.857	13.857	0.000	2871631	20.000	20.855	
$ 105 Benzo(a)pyrene-d12	264.0	14.322	14.322	0.000	2280648	20.000	19.585	
75 Benzo(a)pyrene	252.0	14.370	14.370	0.000	2776838	20.000	19.891	
* 76 Perylene-d12	264.0	14.461	14.461	0.000	2402135	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.625	16.625	0.000	2751960	20.000	18.103	
78 Dibenzo(a,h)anthracene	278.0	16.630	16.630	0.000	2516565	20.000	18.287	
79 Benzo(g,h,i)perylene	276.0	17.266	17.266	0.000	1940101	20.000	17.147	

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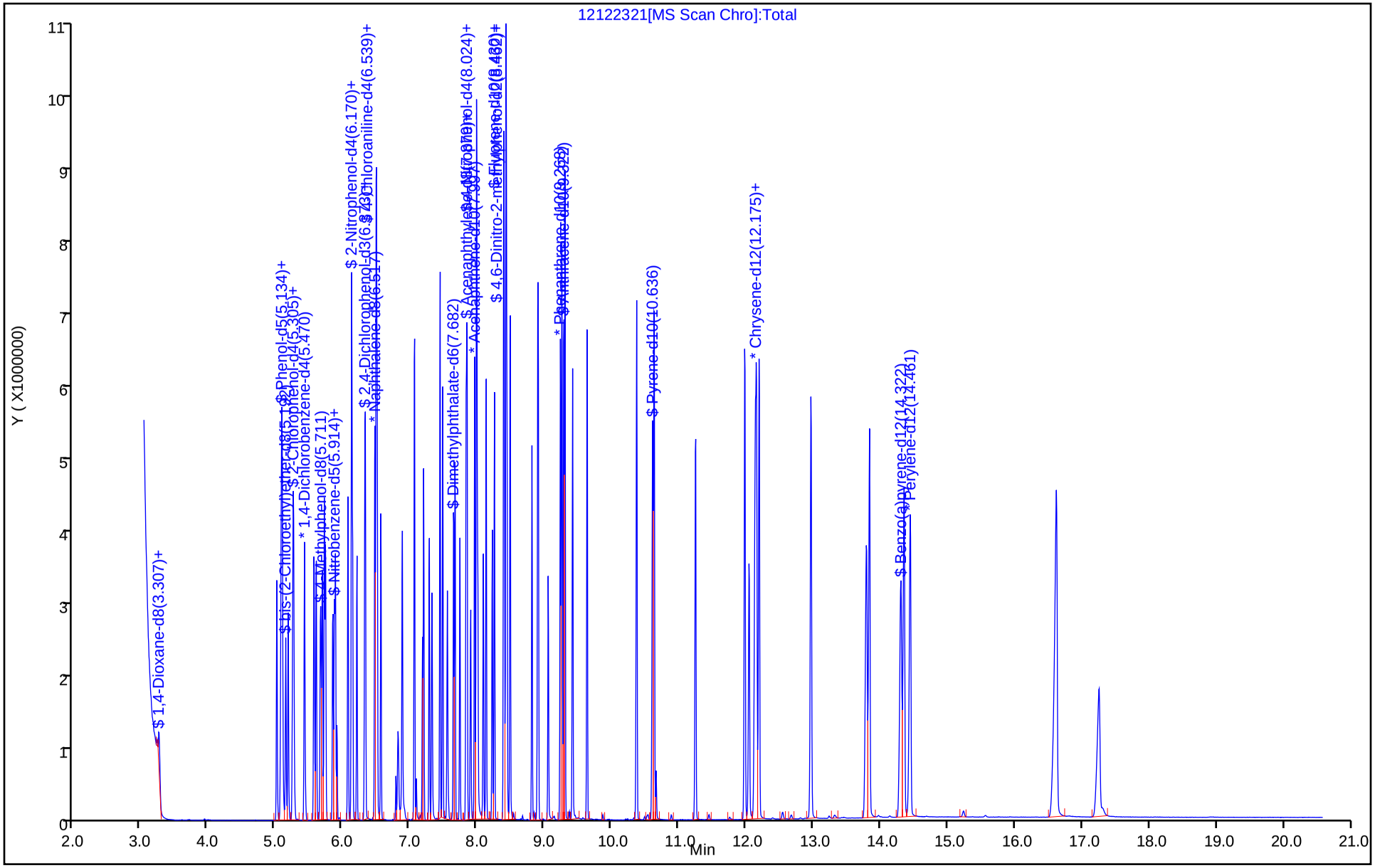
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122321.D				
Injection Date:	23-Dec-2015 17:59:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020PA	Lab ID:	SSTD020PA		
Sample Info:	12122315.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



SEMIVOLATILE RAW QC DATA

DFTPP Data

Blank Data

Matrix Spike / Matrix Spike Duplicate-optional

Laboratory Control Sample Data-optional

DFTPP Data

DFTPPs are arranged in chronological order by instrument

-Reconstructed Total Ion Chromatogram

-Bar Graph Spectrum & Tabulated Relative Abundances

-Mass Listing

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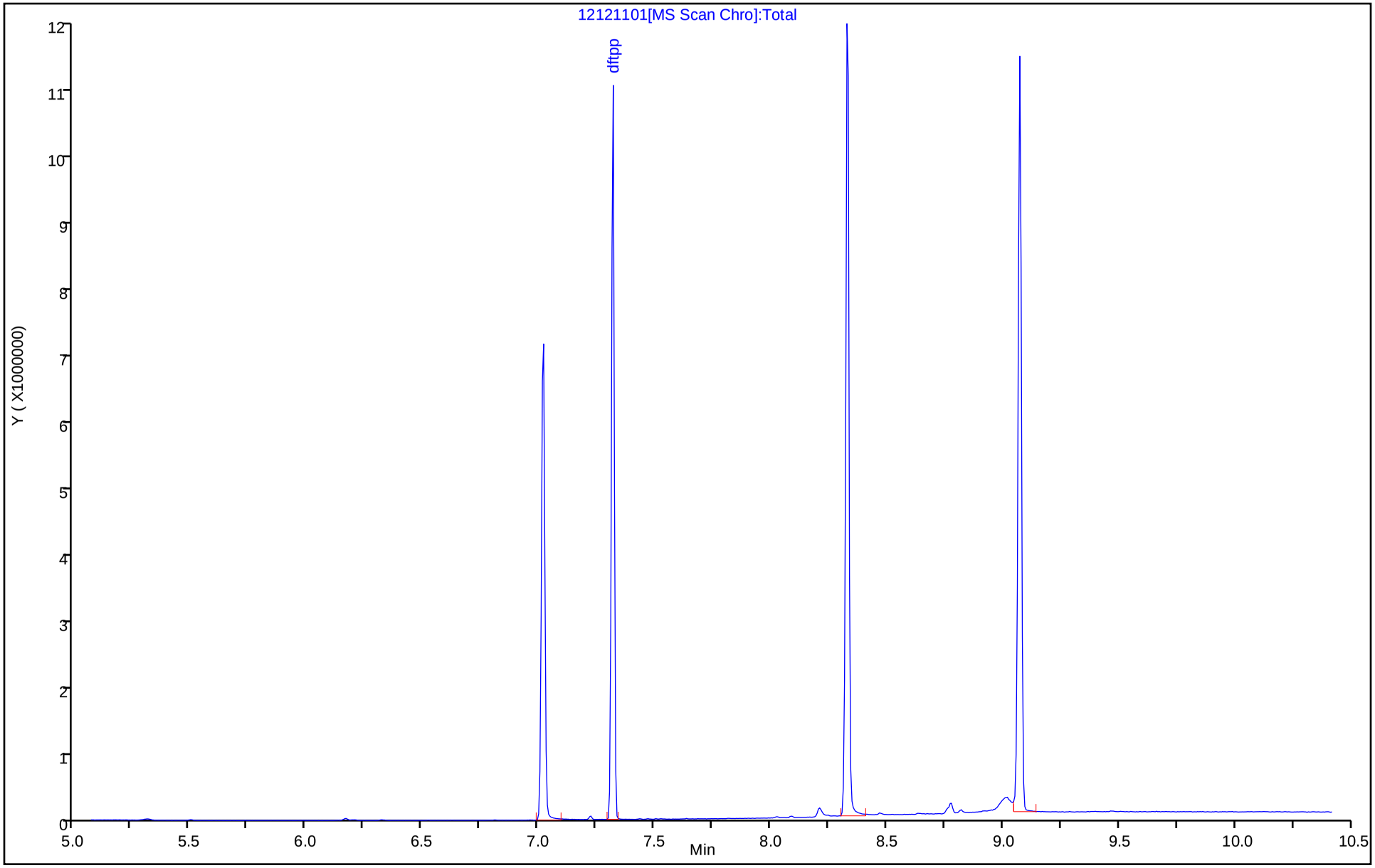
Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121101.D				
Injection Date:	11-Dec-2015 08:13:30	Inst. ID:	msd12.i	Operator:	JCG
Client ID:	DFTPPNF	Lab ID:	SVMS 1608		
Sample Info:	12121115.b, SVMS 1608				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



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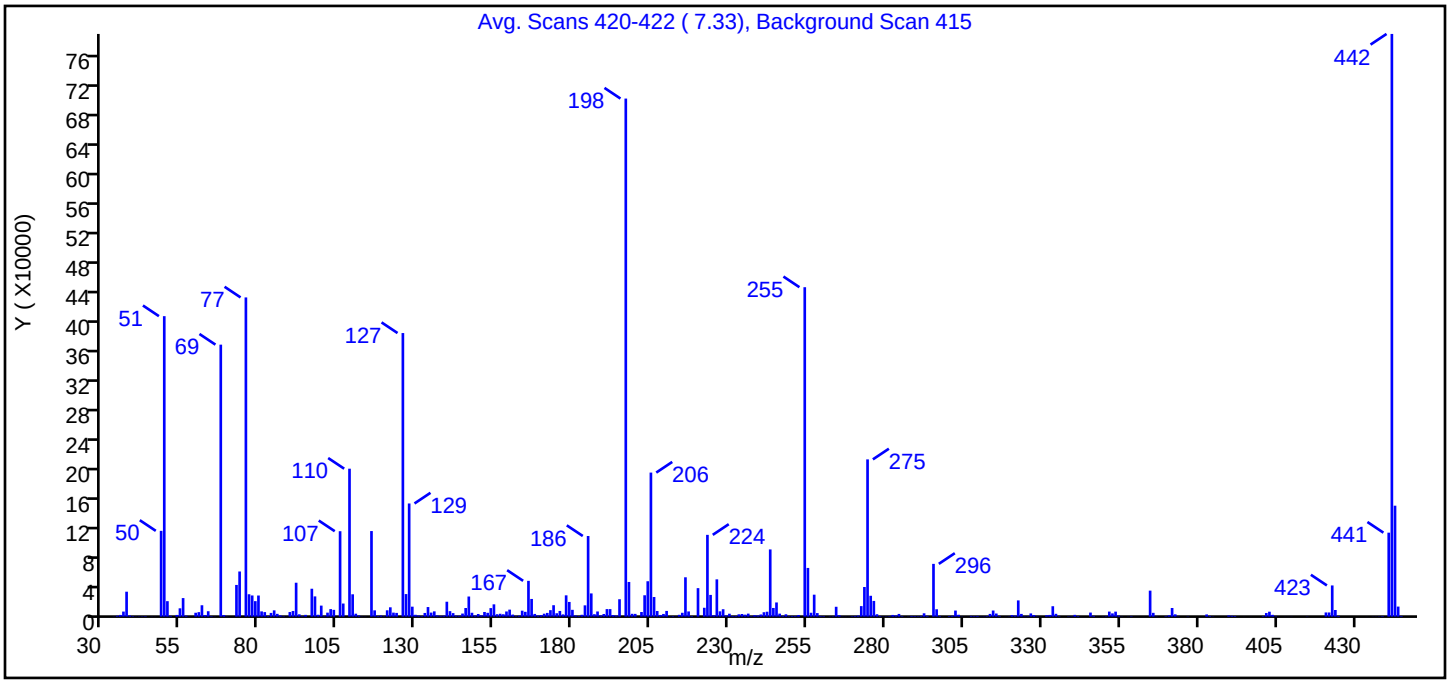
MS Tune Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121101.D		
Injection Date:	11-Dec-2015 08:13:30	Inst. ID:	msd12.i
Client ID:	DFTPPNF	Lab ID:	SVMS 1608
Sample Info:	12121115.b, SVMS 1608		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
51	10.00 - 80.00% of mass 198	58.0
68	Less than 2.00% of mass 69	0.0 (0.0)
69	Present	52.5
70	Less than 2.00% of mass 69	0.3 (0.6)
127	10.00 - 80.00% of mass 198	54.7
197	Less than 2.00% of mass 198	0.0
199	5.00 - 9.00% of mass 198	6.7
275	10.00 - 60.00% of mass 198	30.3
365	Greater than 1.00% of mass 198	5.0
441	0.01 - 99.99% of mass 443	16.2 (75.7)
442	Greater than 50.00% of mass 198	112.5
443	15.00 - 24.00% of mass 442	21.4 (19.0)

Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121101.D
Injection Date: 11-Dec-2015 08:13:30
Spectrum: Avg. Scans 420-422 (7.33), Background Scan 415
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	205	132.00	1423	223.00	11945	313.00	688
36.00	1134	133.00	732	224.00	110584	314.00	3653
37.00	2246	134.00	4924	225.00	29344	315.00	8228
38.00	6811	135.00	12928	226.00	1730	316.00	4176
39.00	33688	136.00	5409	227.00	50400	317.00	869
40.00	1529	137.00	7098	228.00	7127	319.00	115
41.00	659	138.00	1593	229.00	9961	320.00	269
42.00	231	139.00	955	230.00	1479	321.00	2048
43.00	326	140.00	1329	231.00	3906	322.00	1241
44.00	397	141.00	20128	232.00	823	323.00	21920
45.00	566	142.00	7365	233.00	850	324.00	3659
47.00	166	143.00	4733	234.00	3085	325.00	457
48.00	101	144.00	1214	235.00	3514	326.00	489
50.00	115976	145.00	1092	236.00	2629	327.00	4304
51.00	406400	146.00	4127	237.00	4035	328.00	2086
52.00	20880	147.00	11623	238.00	616	329.00	430
53.00	971	148.00	27168	239.00	1923	330.00	87
55.00	2244	149.00	5200	240.00	1474	332.00	1850
56.00	11210	150.00	1452	241.00	2861	333.00	2253
57.00	25048	151.00	3535	242.00	5917	334.00	14029
58.00	1188	152.00	1614	243.00	6604	335.00	3767
59.00	222	153.00	6240	244.00	90864	336.00	602
60.00	79	154.00	5126	245.00	11688	339.00	390
61.00	5192	155.00	11500	246.00	19136	340.00	361
62.00	6036	156.00	16592	247.00	4017	341.00	2360
63.00	15356	157.00	3227	248.00	955	342.00	732
64.00	2192	158.00	3847	249.00	3136	343.00	60
65.00	7273	159.00	3180	250.00	626	346.00	5457
66.00	678	160.00	6948	251.00	926	347.00	963
67.00	205	161.00	9433	252.00	894	348.00	71
69.00	367872	162.00	2740	253.00	2158	350.00	212
70.00	2137	163.00	650	255.00	445568	351.00	470
71.00	271	164.00	1246	256.00	65824	352.00	6772

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Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121101.D
Injection Date: 11-Dec-2015 08:13:30
Spectrum: Avg. Scans 420-422 (7.33), Background Scan 415
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	59	165.00	8006	257.00	5190	353.00	4377
73.00	103	166.00	6478	258.00	29664	354.00	6716
74.00	42832	167.00	48376	259.00	4786	355.00	1414
75.00	61032	168.00	23880	260.00	897	356.00	193
77.00	431744	169.00	3623	261.00	692	358.00	165
78.00	30232	170.00	1495	262.00	70	359.00	551
79.00	28592	171.00	2033	263.00	309	360.00	59
80.00	20904	172.00	3933	264.00	518	361.00	58
81.00	28520	173.00	5002	265.00	13294	363.00	63
82.00	7063	174.00	8713	266.00	1829	365.00	35120
83.00	6095	175.00	15405	267.00	237	366.00	5096
84.00	830	176.00	4547	268.00	175	367.00	285
85.00	4994	177.00	7638	269.00	139	370.00	642
86.00	8441	178.00	2976	270.00	565	371.00	1687
87.00	3722	179.00	28768	271.00	935	372.00	11653
88.00	1586	180.00	19832	272.00	1391	373.00	3088
89.00	548	181.00	9159	273.00	14196	374.00	363
90.00	165	182.00	1533	274.00	40032	377.00	307
91.00	6163	183.00	752	275.00	212672	383.00	2930
92.00	7604	184.00	2465	276.00	28168	384.00	862
93.00	45824	185.00	15229	277.00	21200	385.00	272
94.00	3082	186.00	109016	278.00	3197	389.00	58
95.00	625	187.00	31360	279.00	788	390.00	1510
96.00	2364	188.00	3245	280.00	210	391.00	1099
98.00	37704	189.00	6944	281.00	355	392.00	835
99.00	27328	190.00	1448	282.00	580	393.00	66
100.00	2512	191.00	3541	283.00	2251	395.00	63
101.00	14870	192.00	10148	284.00	1637	397.00	54
102.00	581	193.00	10143	285.00	3620	401.00	705
103.00	5358	194.00	2155	286.00	670	402.00	4840
104.00	10134	195.00	1209	287.00	63	403.00	6640
105.00	9129	196.00	23504	288.00	249	404.00	2395
107.00	115504	198.00	700736	289.00	854	405.00	453
108.00	17680	199.00	46856	290.00	686	408.00	68

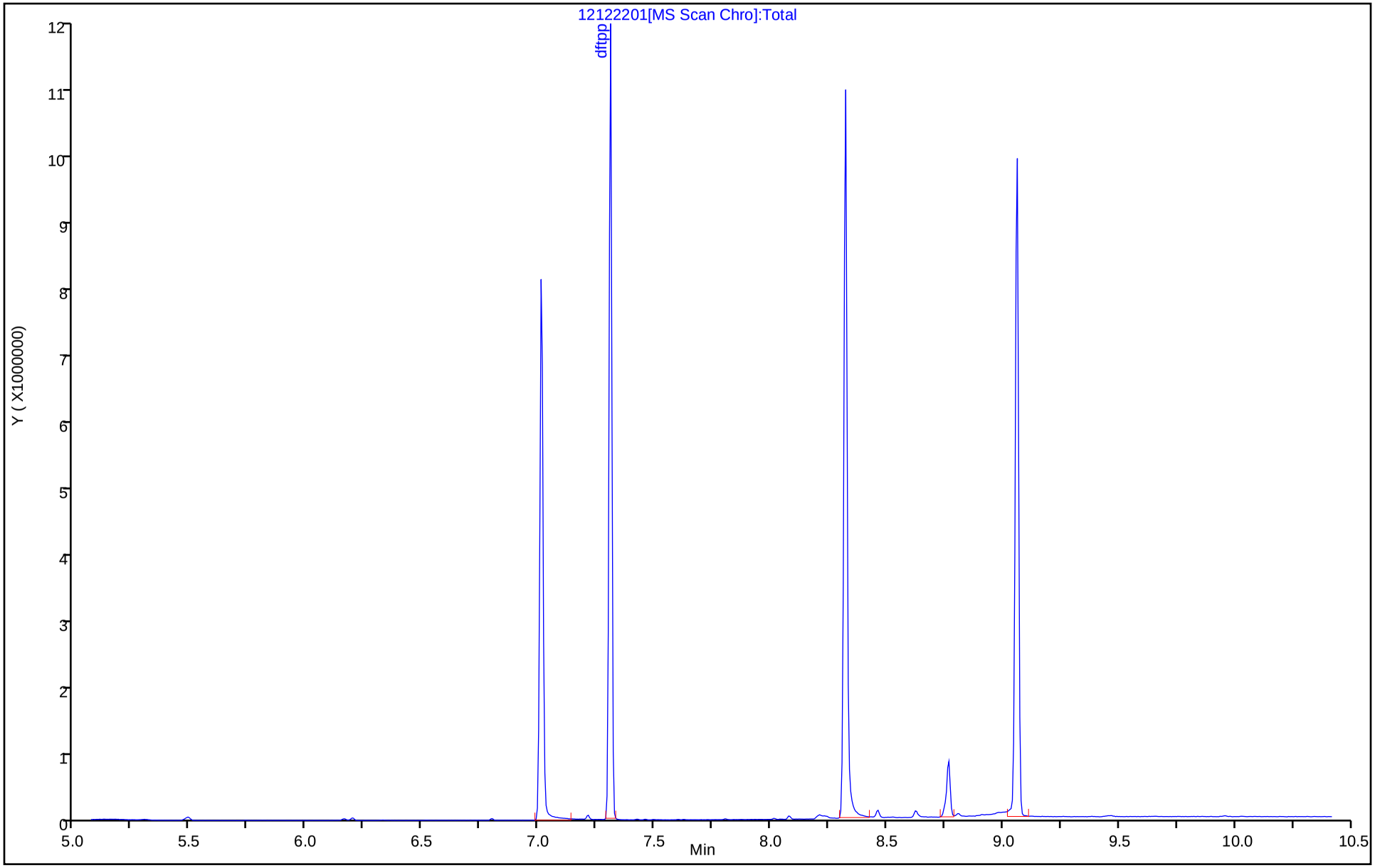
Report Date: 11-Dec-2015 16:07:57 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121101.D
Injection Date: 11-Dec-2015 08:13:30
Spectrum: Avg. Scans 420-422 (7.33), Background Scan 415
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	200064	200.00	3779	291.00	559	409.00	51
111.00	30176	201.00	3696	292.00	848	410.00	106
112.00	3932	203.00	6212	293.00	4487	415.00	226
113.00	1444	204.00	28864	294.00	985	420.00	58
114.00	214	205.00	47840	296.00	71336	421.00	5619
115.00	148	206.00	194816	297.00	9936	422.00	5576
117.00	115712	207.00	26496	298.00	780	423.00	42152
118.00	8466	208.00	7544	299.00	105	424.00	8934
119.00	960	209.00	2207	301.00	749	425.00	941
120.00	1492	210.00	3593	302.00	1136	434.00	59
121.00	473	211.00	7666	303.00	8183	436.00	133
122.00	8538	212.00	296	304.00	2475	437.00	168
123.00	12583	213.00	681	305.00	251	438.00	289
124.00	5399	214.00	248	306.00	57	439.00	663
125.00	5009	215.00	2423	307.00	110	441.00	113536
127.00	383552	216.00	5168	308.00	908	442.00	788160
128.00	30472	217.00	53184	309.00	670	443.00	150016
129.00	153024	218.00	6988	310.00	900	444.00	13551
130.00	13434	219.00	760	311.00	257	445.00	860
131.00	2467	221.00	38512	312.00	328		

Report Date: 23-Dec-2015 09:57:52 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122201.D				
Injection Date:	22-Dec-2015 08:25:30	Inst. ID:	msd12.i	Operator:	JCG
Client ID:	DFTPPOU	Lab ID:	SVMS 1608		
Sample Info:	12122215.b, SVMS 1608				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



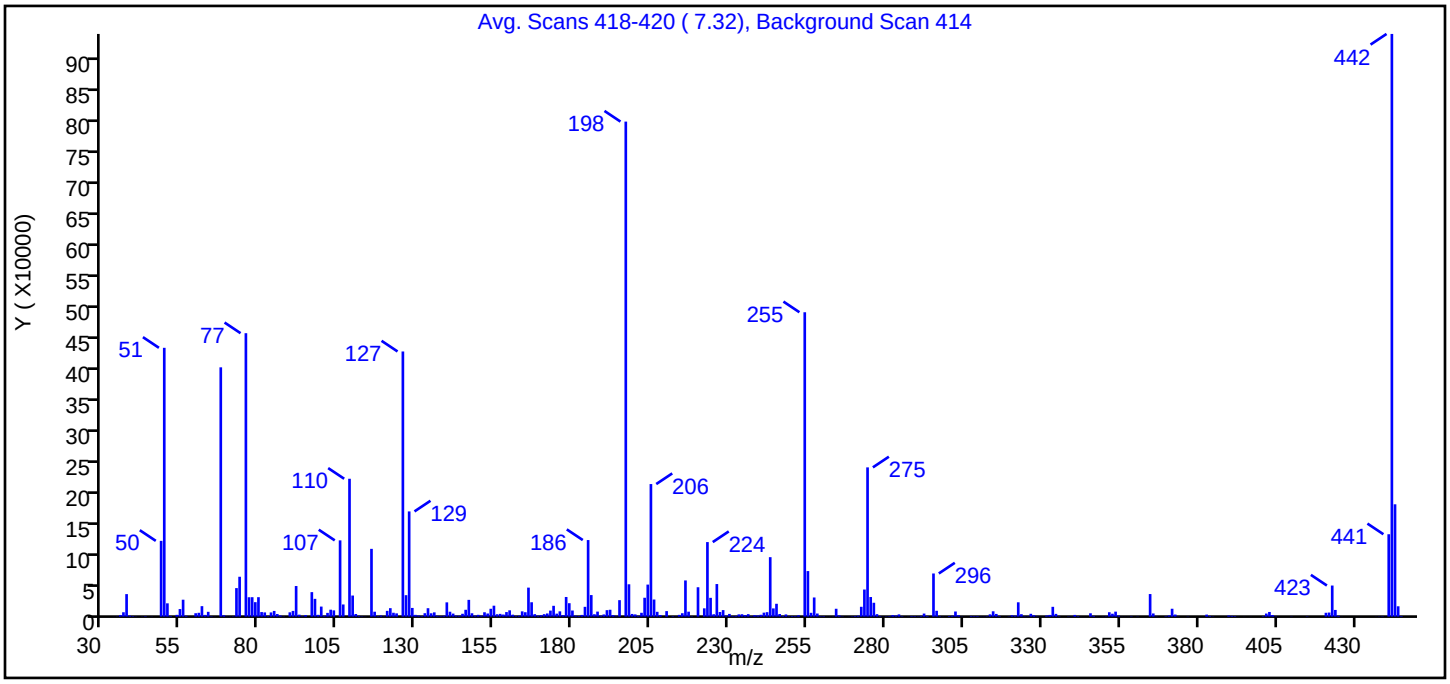
Report Date: 23-Dec-2015 09:57:52 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122201.D		
Injection Date:	22-Dec-2015 08:25:30	Inst. ID:	msd12.i
Client ID:	DFTPPOU	Lab ID:	SVMS 1608
Sample Info:	12122215.b, SVMS 1608		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
51	10.00 - 80.00% of mass 198	54.3
68	Less than 2.00% of mass 69	0.0 (0.0)
69	Present	50.4
70	Less than 2.00% of mass 69	0.3 (0.5)
127	10.00 - 80.00% of mass 198	53.6
197	Less than 2.00% of mass 198	0.0
199	5.00 - 9.00% of mass 198	6.5
275	10.00 - 60.00% of mass 198	30.1
365	Greater than 1.00% of mass 198	4.6
441	0.01 - 99.99% of mass 443	16.6 (73.3)
442	Greater than 50.00% of mass 198	117.7
443	15.00 - 24.00% of mass 442	22.7 (19.3)

Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122201.D
Injection Date: 22-Dec-2015 08:25:30
Spectrum: Avg. Scans 418-420 (7.32), Background Scan 414
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	94	133.00	830	225.00	30160	314.00	3595
36.00	325	134.00	5469	226.00	3795	315.00	8547
37.00	2365	135.00	13492	227.00	52312	316.00	4297
38.00	6983	136.00	5368	228.00	7398	317.00	888
39.00	36144	137.00	6810	229.00	10434	319.00	59
40.00	1579	138.00	1260	230.00	1440	320.00	375
41.00	794	139.00	887	231.00	4322	321.00	2177
42.00	291	140.00	1416	232.00	782	322.00	1446
43.00	66	141.00	22904	233.00	1147	323.00	22992
44.00	232	142.00	7841	234.00	3563	324.00	3853
45.00	649	143.00	4843	235.00	3794	325.00	554
46.00	66	144.00	1493	236.00	2550	326.00	468
47.00	223	145.00	1286	237.00	3928	327.00	4512
50.00	121696	146.00	4552	238.00	686	328.00	2166
51.00	431936	147.00	10972	239.00	2306	329.00	485
52.00	21336	148.00	26912	240.00	1817	330.00	60
53.00	977	149.00	5373	241.00	2928	331.00	104
55.00	2806	150.00	1530	242.00	6370	332.00	1716
56.00	12117	151.00	2859	243.00	7128	333.00	2671
57.00	27152	152.00	1278	244.00	95512	334.00	15710
58.00	1240	153.00	6953	245.00	13168	335.00	4367
59.00	209	154.00	4993	246.00	20608	336.00	636
60.00	117	155.00	12591	247.00	4176	339.00	403
61.00	5449	156.00	17528	248.00	984	340.00	272
62.00	6109	157.00	3790	249.00	3494	341.00	2702
63.00	16784	158.00	4388	250.00	638	342.00	771
64.00	2739	159.00	3335	251.00	967	343.00	115
65.00	7680	160.00	7280	252.00	846	344.00	55
66.00	646	161.00	10080	253.00	2087	345.00	50
67.00	176	162.00	3091	255.00	489088	346.00	5344
69.00	400576	163.00	922	256.00	73160	347.00	1075
70.00	2163	164.00	1445	257.00	6081	348.00	120
71.00	252	165.00	8432	258.00	30736	350.00	218

Report Date: 23-Dec-2015 09:57:52 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122201.D
Injection Date: 22-Dec-2015 08:25:30
Spectrum: Avg. Scans 418-420 (7.32), Background Scan 414
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

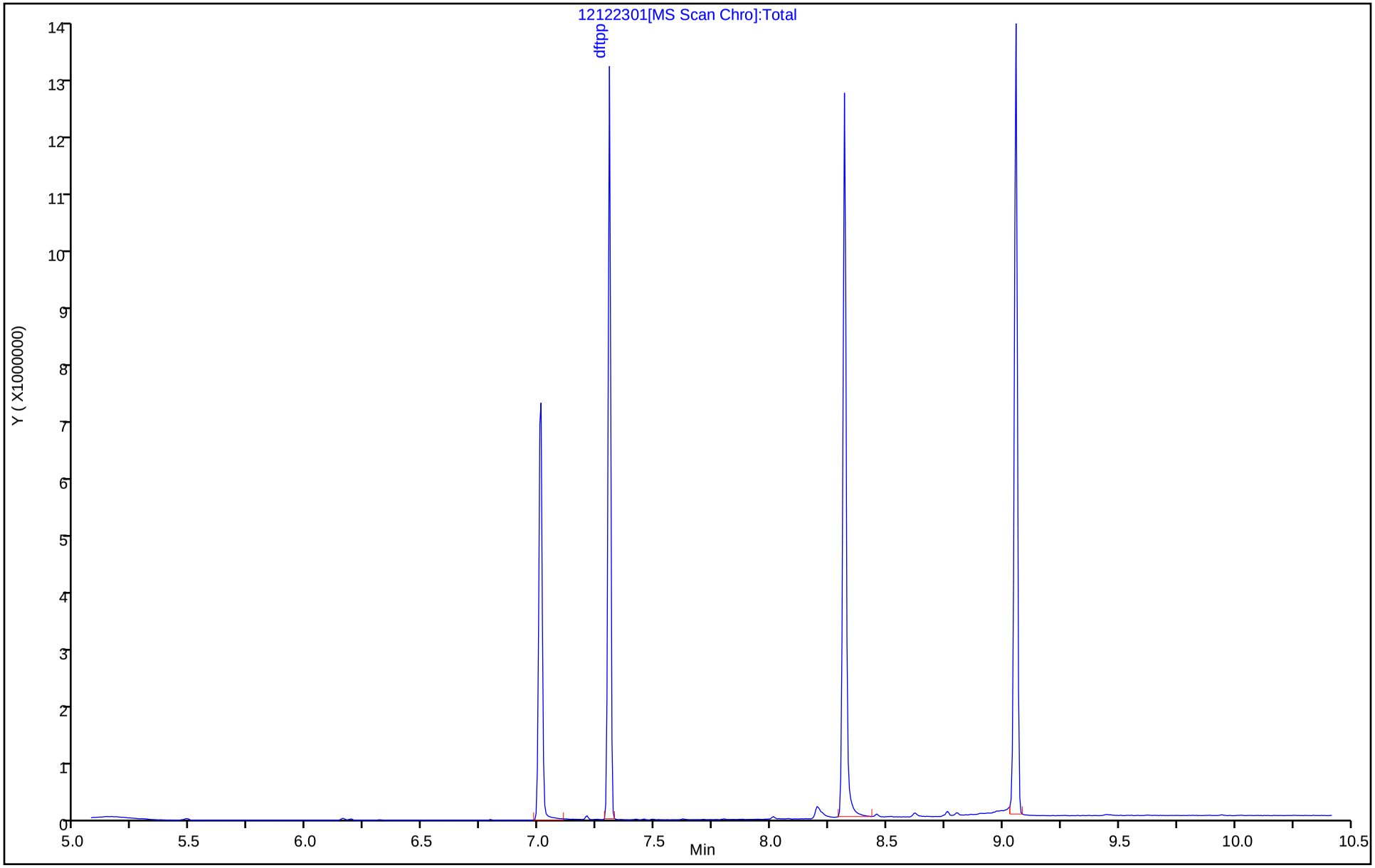
m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	290	166.00	7034	259.00	4949	351.00	433
73.00	539	167.00	46568	260.00	723	352.00	7019
74.00	45800	168.00	23056	261.00	763	353.00	4631
75.00	64032	169.00	3938	262.00	151	354.00	7983
77.00	455424	170.00	1556	263.00	176	355.00	1631
78.00	31112	171.00	2193	264.00	334	356.00	147
79.00	31176	172.00	3925	265.00	12596	357.00	113
80.00	23200	173.00	5051	266.00	1839	358.00	125
81.00	31208	174.00	9663	267.00	431	359.00	525
82.00	7297	175.00	17336	268.00	63	361.00	277
83.00	6732	176.00	4751	269.00	199	365.00	36240
84.00	904	177.00	8452	270.00	512	366.00	5060
85.00	6711	178.00	2295	271.00	1031	367.00	324
86.00	9113	179.00	31528	272.00	1478	370.00	690
87.00	4133	180.00	21536	273.00	15754	371.00	1786
88.00	1758	181.00	9788	274.00	43512	372.00	12626
89.00	432	182.00	1523	275.00	239808	373.00	3327
91.00	6881	183.00	984	276.00	31456	374.00	383
92.00	9143	184.00	2707	277.00	22240	377.00	304
93.00	49136	185.00	15704	278.00	3916	378.00	60
94.00	3092	186.00	123000	279.00	807	383.00	3210
95.00	622	187.00	34592	280.00	161	384.00	1049
96.00	2450	188.00	3804	281.00	468	385.00	353
98.00	39328	189.00	8033	282.00	747	389.00	67
99.00	28528	190.00	1381	283.00	2446	390.00	1714
100.00	2860	191.00	3443	284.00	1779	391.00	1167
101.00	16110	192.00	10357	285.00	3533	392.00	813
102.00	1164	193.00	11026	286.00	677	393.00	136
103.00	5988	194.00	2418	287.00	62	395.00	92
104.00	11087	195.00	561	288.00	225	397.00	85
105.00	10034	196.00	26432	289.00	851	401.00	779
107.00	122504	198.00	795456	290.00	735	402.00	4908
108.00	19496	199.00	51936	291.00	487	403.00	7447
110.00	221504	200.00	4263	292.00	1039	404.00	2467

Report Date: 23-Dec-2015 09:57:52 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122201.D
Injection Date: 22-Dec-2015 08:25:30
Spectrum: Avg. Scans 418-420 (7.32), Background Scan 414
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	33848	201.00	3543	293.00	4889	405.00	437
112.00	4180	202.00	1229	294.00	1054	410.00	275
113.00	1283	203.00	6141	296.00	69296	415.00	439
114.00	499	204.00	30288	297.00	9343	420.00	54
115.00	188	205.00	51440	298.00	708	421.00	6151
117.00	108872	206.00	212992	299.00	218	422.00	6499
118.00	7846	207.00	27456	300.00	56	423.00	49920
119.00	787	208.00	7693	301.00	958	424.00	10715
120.00	1758	209.00	2512	302.00	1415	425.00	1268
121.00	455	211.00	8825	303.00	8197	426.00	124
122.00	9232	213.00	738	304.00	2150	432.00	50
123.00	13551	214.00	255	305.00	299	437.00	146
124.00	6188	215.00	2791	306.00	60	438.00	301
125.00	5193	216.00	5449	307.00	61	439.00	494
127.00	426048	217.00	58112	308.00	993	441.00	132352
128.00	34416	218.00	7924	309.00	747	442.00	936320
129.00	169024	219.00	550	310.00	823	443.00	180480
130.00	13929	221.00	47184	311.00	294	444.00	16576
131.00	2808	223.00	13283	312.00	272	445.00	941
132.00	1728	224.00	119744	313.00	608		

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122301.D				
Injection Date:	23-Dec-2015 08:33:30	Inst. ID:	msd12.i	Operator:	JCG
Client ID:	DFTPPOY	Lab ID:	SVMS 1608		
Sample Info:	12122315.b, SVMS 1608				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



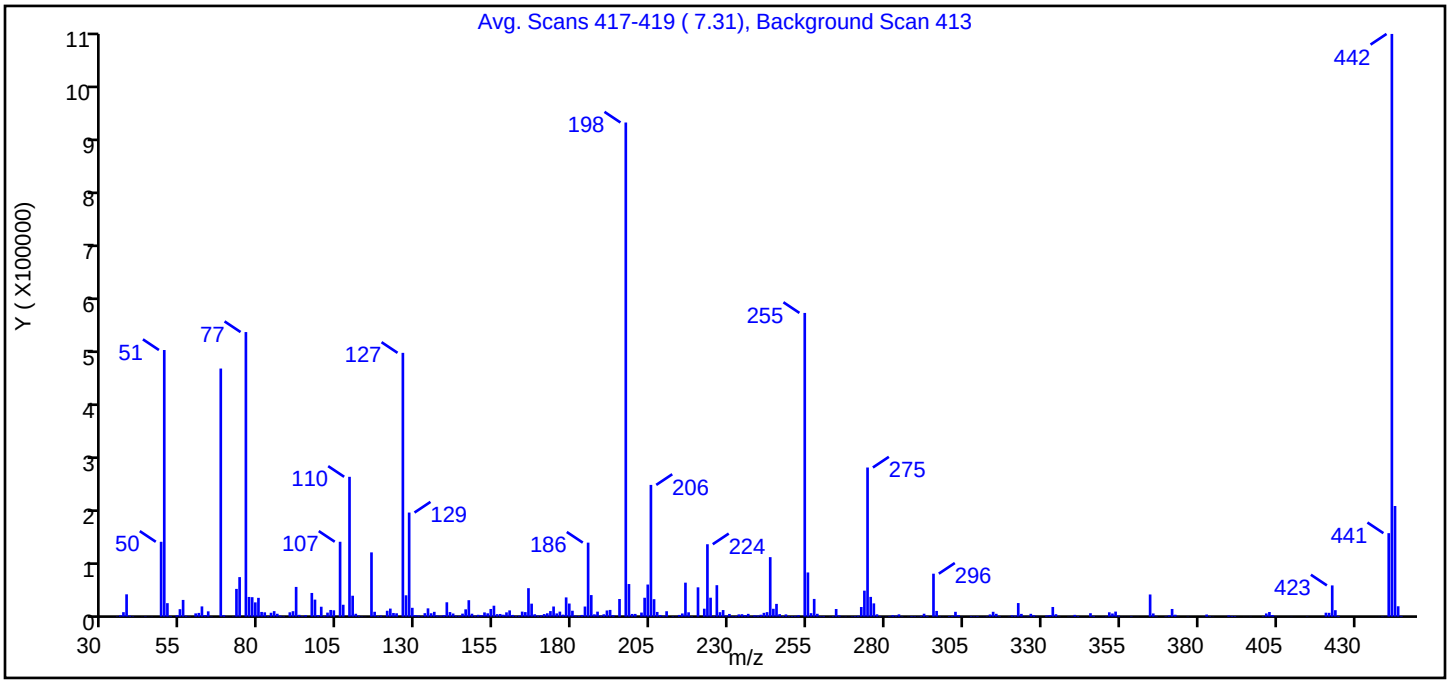
Report Date: 23-Dec-2015 16:08:24 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122301.D		
Injection Date:	23-Dec-2015 08:33:30	Inst. ID:	msd12.i
Client ID:	DFTPPOY	Lab ID:	SVMS 1608
Sample Info:	12122315.b, SVMS 1608		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
51	10.00 - 80.00% of mass 198	54.0
68	Less than 2.00% of mass 69	0.0 (0.0)
69	Present	50.2
70	Less than 2.00% of mass 69	0.3 (0.6)
127	10.00 - 80.00% of mass 198	53.4
197	Less than 2.00% of mass 198	0.0
199	5.00 - 9.00% of mass 198	6.6
275	10.00 - 60.00% of mass 198	30.2
365	Greater than 1.00% of mass 198	4.5
441	0.01 - 99.99% of mass 443	16.9 (75.4)
442	Greater than 50.00% of mass 198	117.9
443	15.00 - 24.00% of mass 442	22.4 (19.0)

Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122301.D
Injection Date: 23-Dec-2015 08:33:30
Spectrum: Avg. Scans 417-419 (7.31), Background Scan 413
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 346

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	71	136.00	6107	229.00	11846	319.00	77
36.00	573	137.00	8628	230.00	1674	320.00	360
37.00	2323	138.00	1993	231.00	4804	321.00	2300
38.00	8010	139.00	1449	232.00	909	322.00	1619
39.00	40336	140.00	2719	233.00	1126	323.00	24528
40.00	1761	141.00	25936	234.00	4009	324.00	4932
41.00	731	142.00	8212	235.00	4331	325.00	467
42.00	81	143.00	5617	236.00	2842	326.00	635
44.00	147	144.00	1526	237.00	4981	327.00	5030
45.00	645	145.00	1276	238.00	666	328.00	2441
46.00	166	146.00	5381	239.00	2386	329.00	484
47.00	269	147.00	13175	240.00	1918	330.00	87
50.00	135424	148.00	29696	241.00	3383	332.00	1984
51.00	482560	149.00	5244	242.00	6830	333.00	2852
52.00	24344	150.00	1727	243.00	8087	334.00	17408
53.00	1094	151.00	3274	244.00	107632	335.00	4344
55.00	2377	152.00	2468	245.00	14166	336.00	577
56.00	13424	153.00	7555	246.00	23024	339.00	337
57.00	30192	154.00	5990	247.00	4475	340.00	511
58.00	1487	155.00	13802	248.00	1069	341.00	3139
59.00	646	156.00	19736	249.00	3986	342.00	1001
61.00	5813	157.00	4433	250.00	919	343.00	55
62.00	6680	158.00	4757	251.00	1058	345.00	64
63.00	18464	159.00	3418	252.00	1344	346.00	6166
64.00	2782	160.00	7696	253.00	2417	347.00	1113
65.00	9530	161.00	11242	255.00	549696	348.00	129
66.00	522	162.00	3045	256.00	79896	350.00	194
69.00	449024	163.00	1100	257.00	6271	351.00	532
70.00	2597	164.00	1681	258.00	31992	352.00	7811
71.00	280	165.00	9036	259.00	5095	353.00	5648
72.00	136	166.00	8132	260.00	920	354.00	9075
73.00	513	167.00	51464	261.00	1140	355.00	1798
74.00	50152	168.00	23440	262.00	126	356.00	182

Report Date: 23-Dec-2015 16:08:24 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122301.D
Injection Date: 23-Dec-2015 08:33:30
Spectrum: Avg. Scans 417-419 (7.31), Background Scan 413
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 346

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	71496	169.00	4264	263.00	384	357.00	137
77.00	515072	170.00	1964	264.00	1012	358.00	144
78.00	35576	171.00	2308	265.00	13769	359.00	771
79.00	35144	172.00	4584	266.00	2035	360.00	90
80.00	25760	173.00	6023	267.00	258	361.00	136
81.00	33960	174.00	9982	268.00	446	365.00	40056
82.00	8444	175.00	18280	269.00	214	366.00	5728
83.00	7750	176.00	5800	270.00	673	367.00	638
84.00	1002	177.00	9003	271.00	1072	370.00	730
85.00	6950	178.00	3522	272.00	1589	371.00	2153
86.00	9879	179.00	34752	273.00	17360	372.00	13813
87.00	5128	180.00	23656	274.00	46976	373.00	3390
88.00	1813	181.00	10624	275.00	269888	374.00	423
89.00	767	182.00	1780	276.00	35664	377.00	358
91.00	7772	183.00	1111	277.00	23936	378.00	119
92.00	9825	184.00	3021	278.00	4161	382.00	153
93.00	53728	185.00	18232	279.00	842	383.00	3739
94.00	3164	186.00	133888	280.00	117	384.00	854
95.00	951	187.00	38968	281.00	325	385.00	313
96.00	2617	188.00	4128	282.00	884	389.00	113
98.00	42808	189.00	8993	283.00	2581	390.00	2016
99.00	30744	190.00	1623	284.00	1787	391.00	1248
100.00	2815	191.00	4183	285.00	4076	392.00	1051
101.00	17864	192.00	11087	286.00	637	393.00	167
102.00	1140	193.00	12103	287.00	50	395.00	105
103.00	7220	194.00	2652	288.00	313	396.00	71
104.00	12009	196.00	31872	289.00	1024	397.00	219
105.00	11414	198.00	894400	290.00	833	401.00	853
107.00	135488	199.00	58952	291.00	486	402.00	5716
108.00	21456	200.00	4801	292.00	1155	403.00	8298
110.00	253056	201.00	4885	293.00	5211	404.00	2792
111.00	37792	203.00	7312	294.00	1294	405.00	469
112.00	5144	204.00	34120	296.00	77696	406.00	56
113.00	1758	205.00	58048	297.00	10251	409.00	58

Report Date: 23-Dec-2015 16:08:24 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122301.D
Injection Date: 23-Dec-2015 08:33:30
Spectrum: Avg. Scans 417-419 (7.31), Background Scan 413
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 346

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	518	206.00	238400	298.00	610	410.00	203
115.00	230	207.00	31544	299.00	233	411.00	67
117.00	116264	208.00	8449	300.00	58	415.00	388
118.00	8726	209.00	2940	301.00	1056	420.00	198
119.00	1162	210.00	1208	302.00	1474	421.00	7055
120.00	1868	211.00	9733	303.00	8657	422.00	6828
121.00	367	213.00	767	304.00	2667	423.00	56472
122.00	10574	214.00	394	305.00	326	424.00	11617
123.00	14484	215.00	3024	307.00	138	425.00	1129
124.00	6554	216.00	5683	308.00	1067	437.00	64
125.00	6006	217.00	61448	309.00	698	438.00	127
127.00	477440	218.00	7785	310.00	983	439.00	573
128.00	38568	219.00	807	311.00	248	440.00	224
129.00	188352	221.00	52992	312.00	280	441.00	151040
130.00	15916	223.00	14306	313.00	734	442.00	1054720
131.00	2884	224.00	130992	314.00	3869	443.00	200192
132.00	1982	225.00	34208	315.00	8718	444.00	18704
133.00	790	226.00	1038	316.00	5064	445.00	1218
134.00	6213	227.00	56864	317.00	974		
135.00	14937	228.00	8011	318.00	63		

Blank Data

Blanks are arranged by type of blank
(Method, Storage, Instrument)

Listed in Chronological Order by instrument.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK12

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92512-001
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122205
% Solids: 100
Date Received:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	70	U
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	Bis(2-Chloroethyl) ether	330	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-Oxybis(1-chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	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	330	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclo-pentadiene	330	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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK12

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92512-001
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122205
% Solids: 100
Date Received:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	170	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
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
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
7005-72-3	4-Chlorophenyl-phenyl ether	170	U
86-73-7	Fluorene	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
101-55-3	4-Bromophenyl-phenylether	170	U
86-30-6	N-Nitrosodiphenylamine	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	330	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK12

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI
Case No.: 45671
MA No.:
SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92512-001
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122205
% Solids: 100
Date Received:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	330	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	330	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

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK12

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R18
Analytical Method: SVOA
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92512-001
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 12122205
% Solids: 100
Date Received:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Y
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 500 (uL)
Heated Purge: (Y/N)
Extraction Type: SONC
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types: GPC
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/kg
Cleanup Factor: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05		Unknown-01	4.27	250	J
06	541-02-6	Cyclopentasiloxane,	5.96	75	NJ
07		Unknown-02	7.01	160	J
08		Unknown-03	8.81	84	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	630	J

[2] EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122205.D		
Lab Sample ID:	QQ92512-001	Client Sample ID:	SBLK12
Injection Date:	22-Dec-2015 11:14:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QQ92512-001		
Misc. Info:	92512		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	BLANK	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.000	Weight of sample extracted (g)
M	0	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 13:55:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 3 Phenol-d5	99.0	5.128	5.122	0.006	795343	25.836	861.20	
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.327	3.317	0.010	25051	2.2248	74.160	R
4 Phenol	94.0		5.133		ND			
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	485206	23.368	778.94	
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.304	5.299	0.005	551843	27.095	903.16	
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	336086	20.000	666.67	
10 2-Methylphenol	108.0		5.614		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.705	5.710	-0.005	637783	28.522	950.74	
14 4-Methylphenol	108.0		5.737		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.913	5.918	-0.005	300808	24.616	820.53	
17 Nitrobenzene	77.0		5.935		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.170		ND			
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	324546	23.192	773.05	
19 2-Nitrophenol	139.0		6.186		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.367	-0.005	524780	25.545	851.50	
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1413508	20.000	666.67	
24 Naphthalene	128.0		6.538		ND			
$ 97 4-Chloroaniline-d4	131.0	6.538	6.544	-0.006	538912	17.402	580.07	
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0		7.104		ND			
30 Hexachlorocyclopentadiene	237.0		7.227		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.681	7.687	-0.006	1605927	32.662	1088.73	
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.868	7.874	-0.006	1856689	28.540	951.32	
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.991	7.997	-0.006	752751	20.000	666.67	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0	8.023	8.034	-0.011	317035	26.373	879.11	
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.290		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1265053	27.423	914.09	
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.461	8.472	-0.011	273702	22.675	755.82	Q
51 4,6-Dinitro-2-methylphenol	198.0		8.477		ND			
52 N-Nitrosodiphenylamine	169.0		8.525		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.273	-0.005	1326223	20.000	666.67	
59 Phenanthrene	178.0		9.295		ND			
$ 103 Anthracene-d10	188.0	9.316	9.321	-0.005	2287113	33.826	1127.55	
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			

Report Date: 23-Dec-2015 09:57:56 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122205.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 104 Pyrene-d10	212.0	10.636	10.641	-0.005	2609789	39.507	1316.91	
64 Pyrene	202.0		10.662		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1513957	20.000	666.67	
70 Chrysene	228.0		12.222		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.316	14.322	-0.006	2298842	32.545	1084.83	
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.450	14.461	-0.011	1457127	20.000	666.67	
77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122205.D		
Lab Sample ID:	QQ92512-001	Client Sample ID:	SBLK12
Injection Date:	22-Dec-2015 11:14:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QQ92512-001		
Misc. Info:	92512		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	BLANK	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.000	Weight of sample extracted (g)
M	0	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 13:55:30

Tentative Identified Compound Results

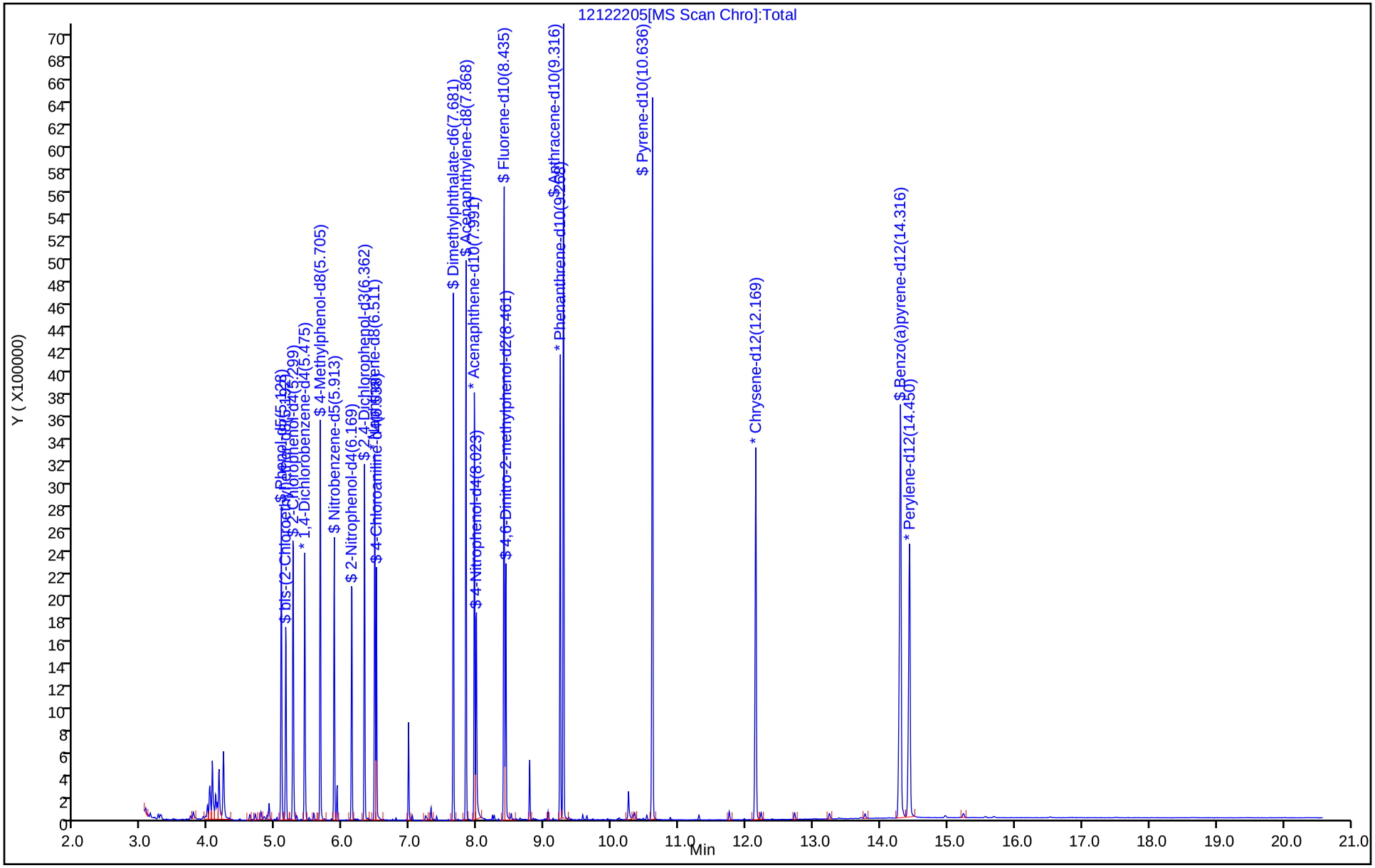
RT	Response	Amount ng/ul	Final Conc ug/Kg	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown Alkane						
4.065	440904	3.8664	128.88	8				
		Unknown Alkane						
4.102	671544	5.8889	196.30	8				
		Unknown Alkane						
4.150	442123	3.8771	129.24	8				
		Unknown Alkane						
4.203	573719	5.0311	167.70	8				
		Unknown						
4.268	871484	7.6423	254.74	8				
541-02-6		Cyclopentasiloxane, decamethyl-						
5.956	257177	2.2553	75.175	8	91	196316	C10H30O5Si5	370
		Unknown						
7.014	731418	4.8192	160.64	23				
		Unknown						
8.814	449137	2.5108	83.692	58				

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.475	2280699	20.000
* 23 Naphthalene-d8	6.517	3035421	20.000

Quant. Compounds	RT	Response	Amount ng/ul
* 58 Phenanthrene-d10	9.268	3577679	20.000

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122205.D				
Injection Date:	22-Dec-2015 11:14:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SBLK12	Lab ID:	QQ92512-001		
Sample Info:	12122215.b, QQ92512-001				
Injection Vol.	1.00 uL	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



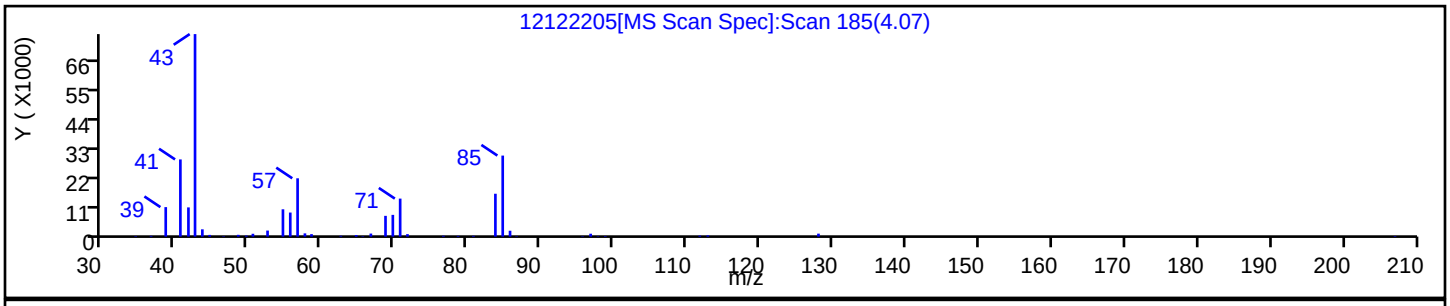
Report Date: 23-Dec-2015 09:57:56 AIM Revision: 1.0 26-May-2015 13:41:26

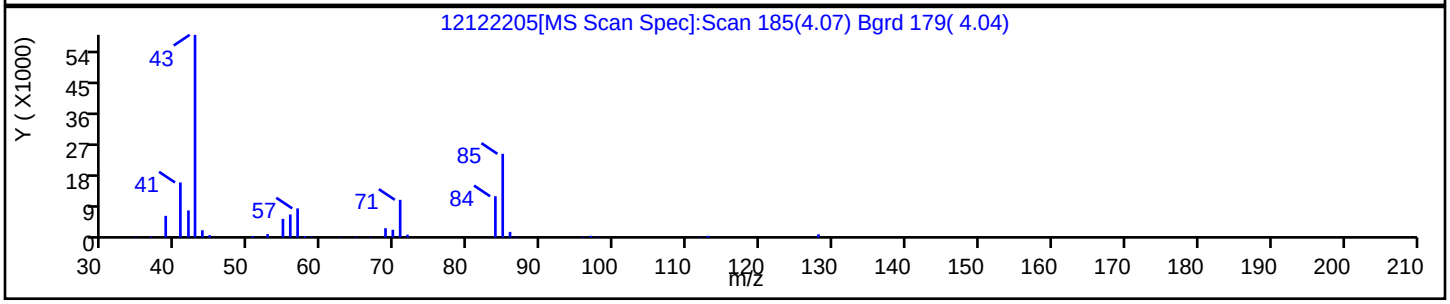
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122205.D		
Injection Date:	22-Dec-2015 11:14:30	Inst. ID:	msd12.i
Client ID:	SBLK12	Lab ID:	QQ92512-001
Sample Info:	12122215.b, QQ92512-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.065

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





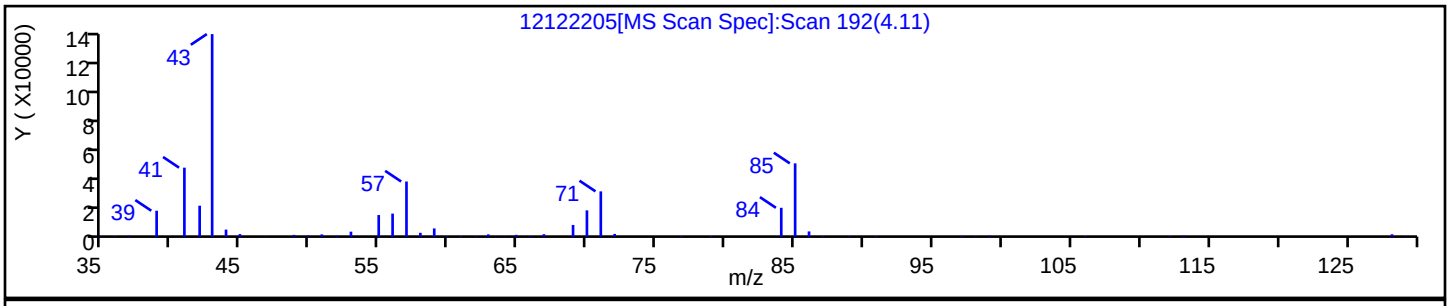
Report Date: 23-Dec-2015 09:57:56 AIM Revision: 1.0 26-May-2015 13:41:26

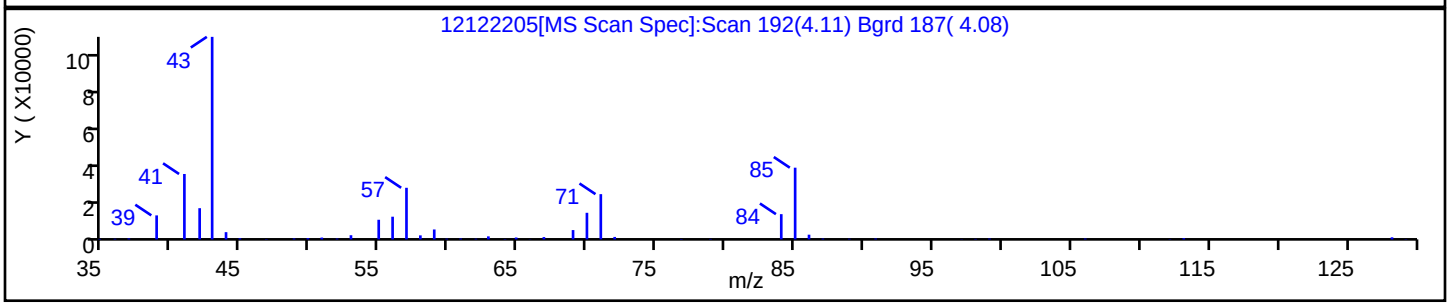
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122205.D		
Injection Date:	22-Dec-2015 11:14:30	Inst. ID:	msd12.i
Client ID:	SBLK12	Lab ID:	QQ92512-001
Sample Info:	12122215.b, QQ92512-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.102

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





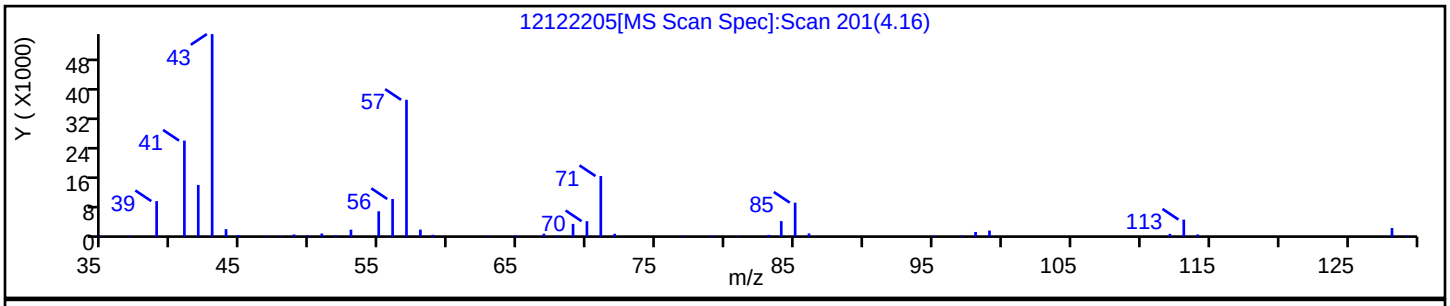
Report Date: 23-Dec-2015 09:57:56 AIM Revision: 1.0 26-May-2015 13:41:26

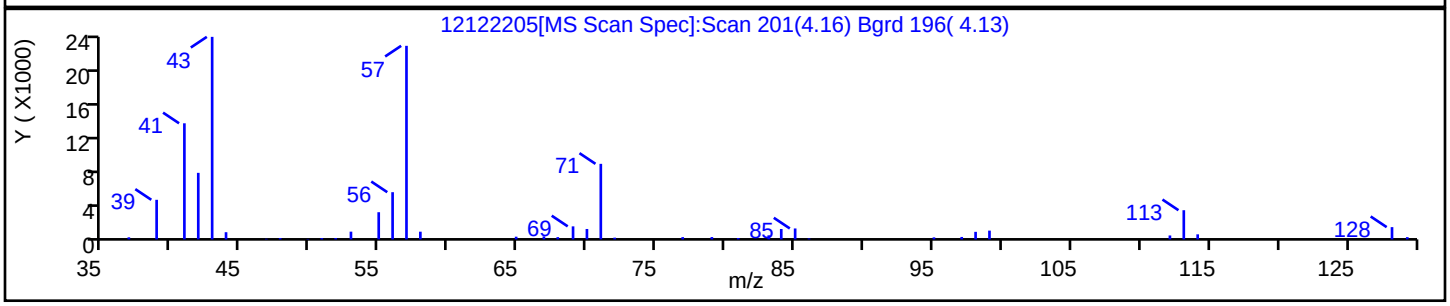
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122205.D		
Injection Date:	22-Dec-2015 11:14:30	Inst. ID:	msd12.i
Client ID:	SBLK12	Lab ID:	QQ92512-001
Sample Info:	12122215.b, QQ92512-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.150

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





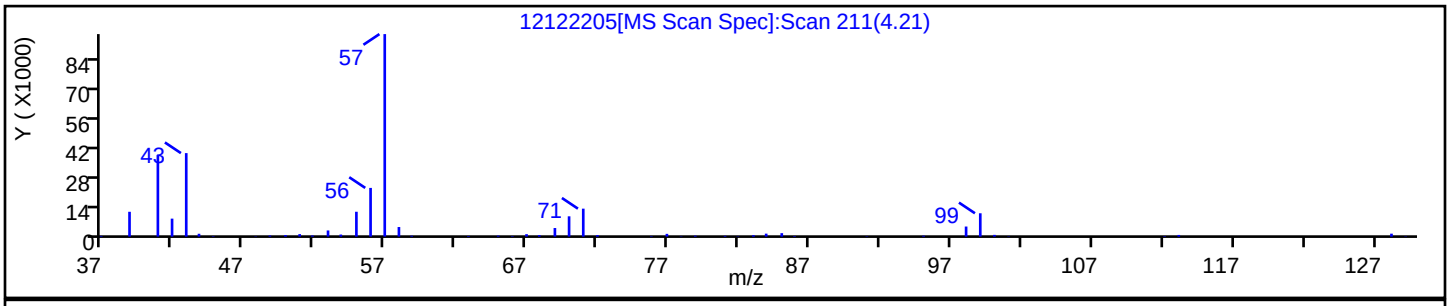
Report Date: 23-Dec-2015 09:57:56 AIM Revision: 1.0 26-May-2015 13:41:26

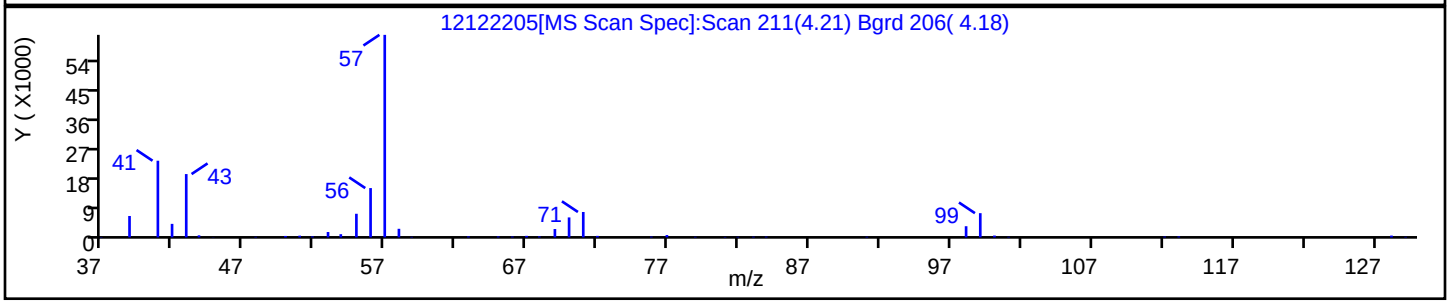
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122205.D		
Injection Date:	22-Dec-2015 11:14:30	Inst. ID:	msd12.i
Client ID:	SBLK12	Lab ID:	QQ92512-001
Sample Info:	12122215.b, QQ92512-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.203

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				





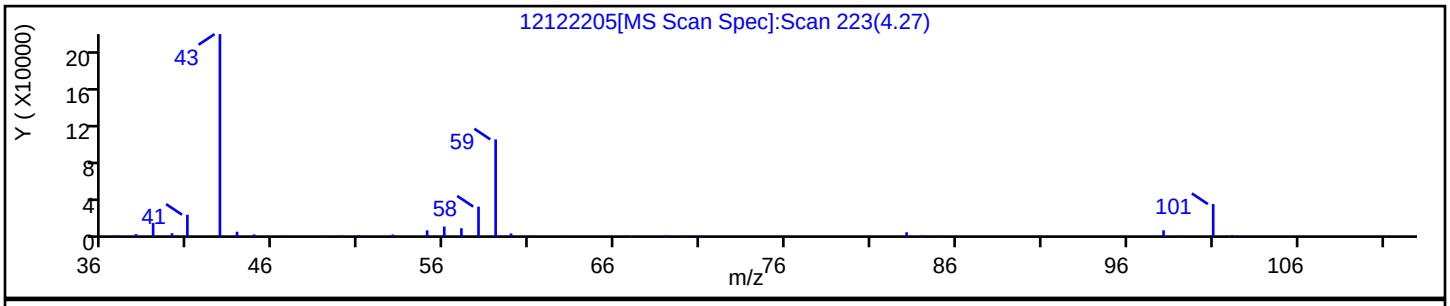
Report Date: 23-Dec-2015 09:57:56 AIM Revision: 1.0 26-May-2015 13:41:26

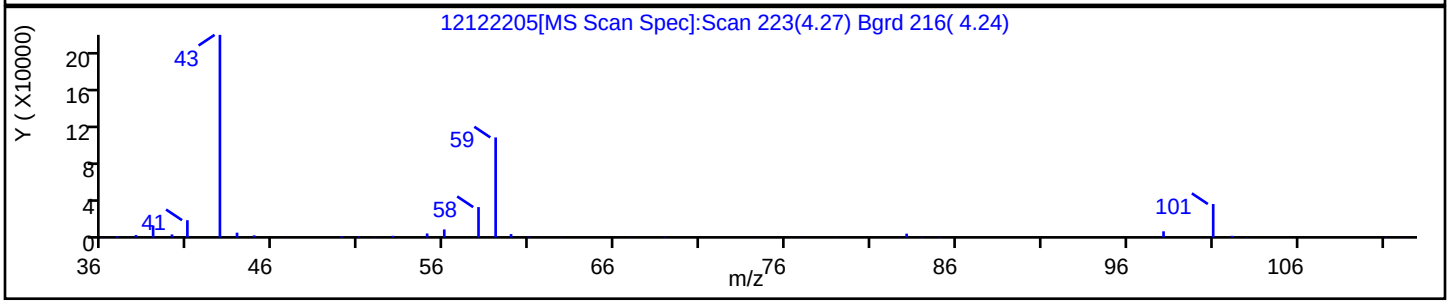
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122205.D		
Injection Date:	22-Dec-2015 11:14:30	Inst. ID:	msd12.i
Client ID:	SBLK12	Lab ID:	QQ92512-001
Sample Info:	12122215.b, QQ92512-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.268

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				





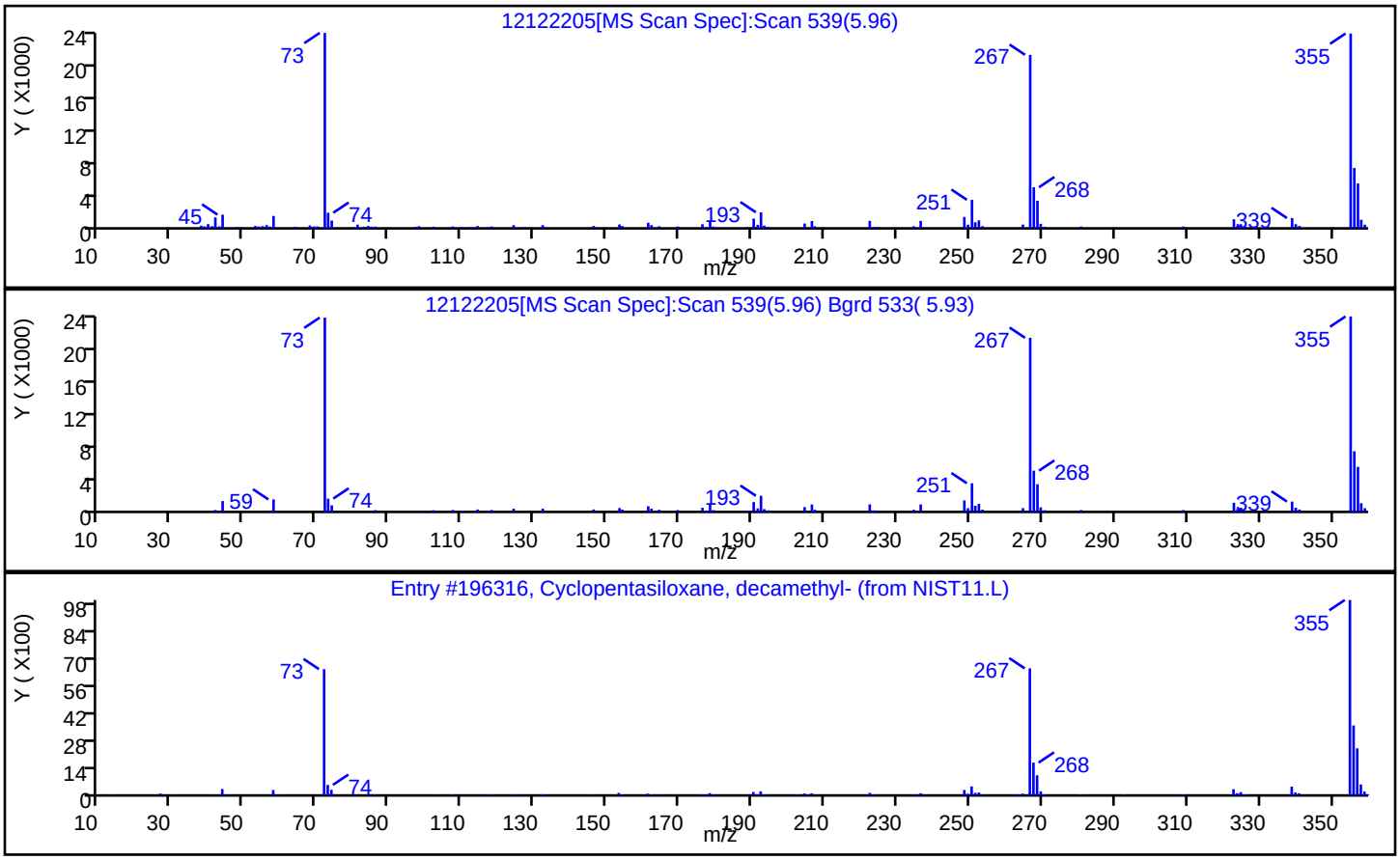
Report Date: 23-Dec-2015 09:57:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122205.D		
Injection Date:	22-Dec-2015 11:14:30	Inst. ID:	msd12.i
Client ID:	SBLK12	Lab ID:	QQ92512-001
Sample Info:	12122215.b, QQ92512-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.956

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Cyclopentasiloxane, decamethyl-	541-02-6	NIST11	196316	C10H30O5Si5	370	91



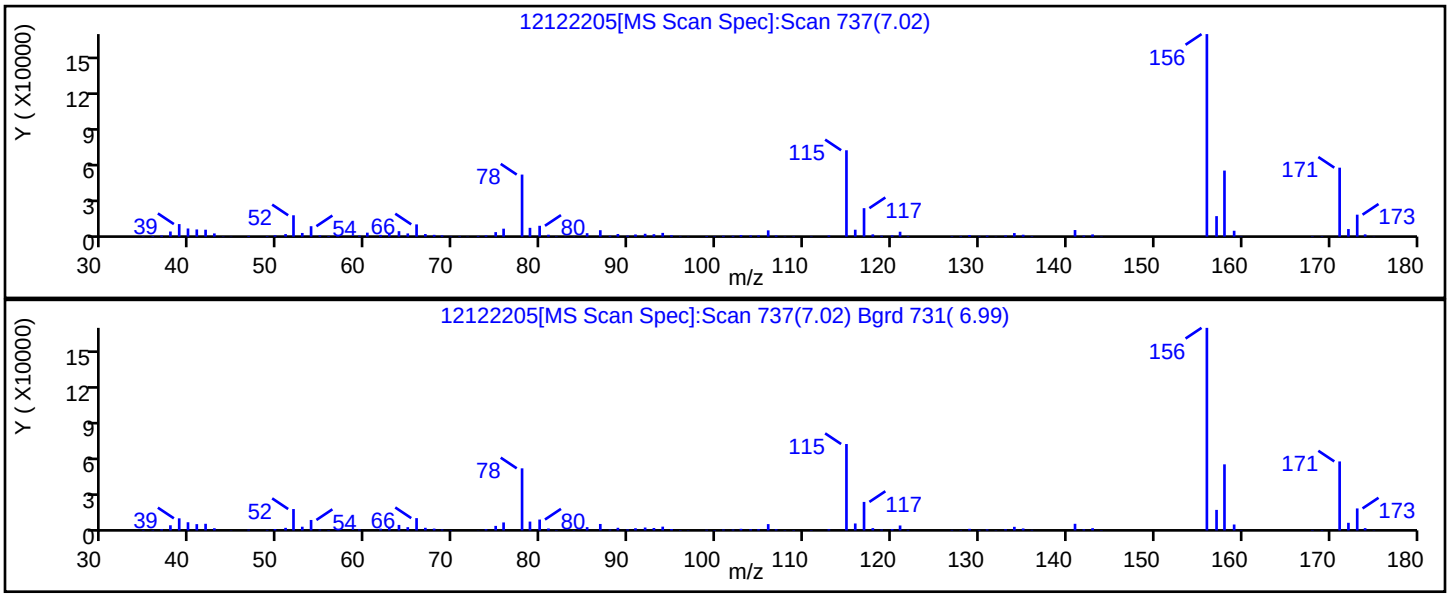
Report Date: 23-Dec-2015 09:57:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122205.D		
Injection Date:	22-Dec-2015 11:14:30	Inst. ID:	msd12.i
Client ID:	SBLK12	Lab ID:	QQ92512-001
Sample Info:	12122215.b, QQ92512-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.014

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



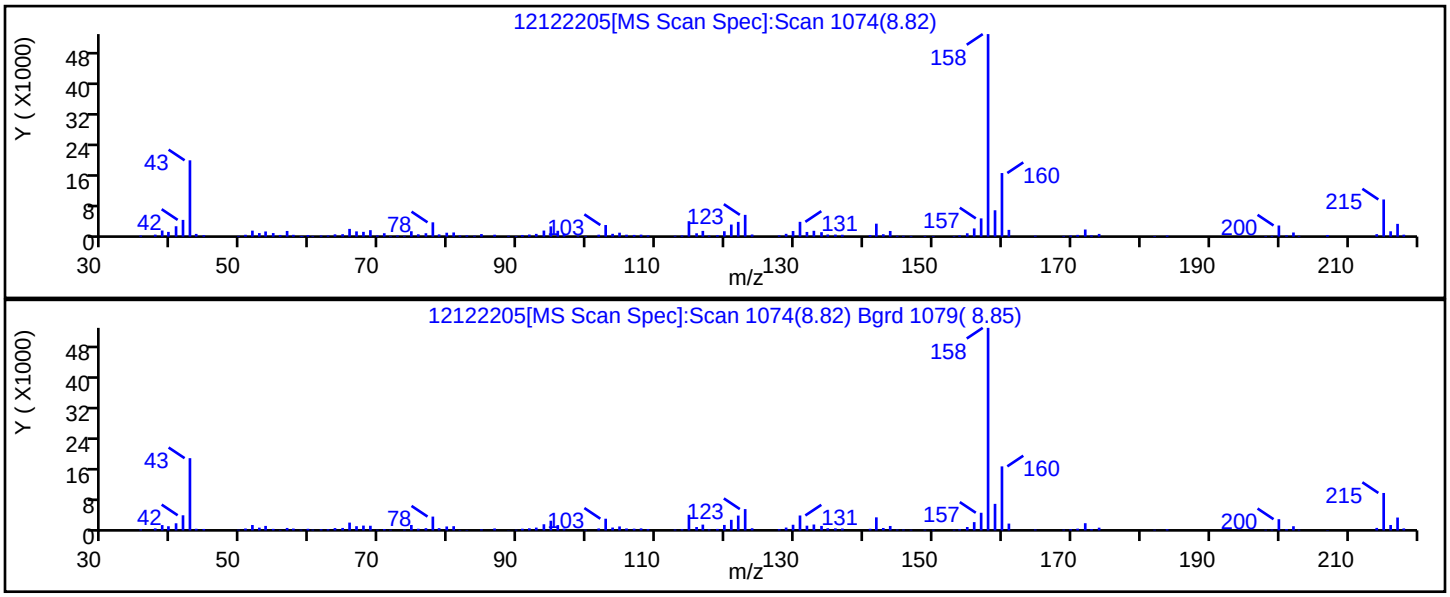
Report Date: 23-Dec-2015 09:57:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122205.D		
Injection Date:	22-Dec-2015 11:14:30	Inst. ID:	msd12.i
Client ID:	SBLK12	Lab ID:	QQ92512-001
Sample Info:	12122215.b, QQ92512-001		
Injection Vol.	1.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.814

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



SEMIVOLATILE
Miscellaneous Data

Run Logs

Standard Preparation Logs

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd12.i\12121115.b
Inst. ID: msd12.i Method: SOMBNA
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	ICal Lvl	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	11-Dec-2015 08:13:30	12121101.D	DFTPP		DFTPPNF	Water	1	all			Yes					SOMDFTPP
1	SSTD005NG	11-Dec-2015 08:48:30	12121102.D	Ical	1	SSTD005NG	Water	1	std		Yes					SVMS 1680	SOMBNA
2	SSTD010NG	11-Dec-2015 09:16:30	12121103.D	Ical	2	SSTD010NG	Water	1	std		Yes					SVMS 1681	SOMBNA
3	SSTD020NG	11-Dec-2015 09:44:30	12121104.D	Ical	3	SSTD020NG	Water	1	std		Yes					SVMS 1673	SOMBNA
4	SSTD040NG	11-Dec-2015 10:13:30	12121105.D	Ical	4	SSTD040NG	Water	1	std		Yes					SVMS 1682	SOMBNA
5	SSTD080NG	11-Dec-2015 10:42:30	12121106.D	Ical	5	SSTD080NG	Water	1	std		Yes					SVMS 1683	SOMBNA

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd12.i\12122215.b
Inst. ID: msd12.i Method: SOMBNA
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	22-Dec-2015 08:25:30	12122201.D	DFTPP	DFTPPOU	Water	1	all			Yes				IS:SVMS 1644	SOMDFTPP
97	SSTD020OV	22-Dec-2015 08:47:30	12122202.D	Ccv	SSTD020OV	Water	1	std		Yes					SVMS 1673	SOMBNA
1	QL11018-015	22-Dec-2015 10:16:30	12122203.D	Client	F6R06DL	Soil	100	std		Yes						SOMBNA
2	GPCBLK12	22-Dec-2015 10:46:30	12122204.D	Client	GPCBLK12	Water	1	std		Yes						SOMBNA
3	QQ92512-001	22-Dec-2015 11:14:30	12122205.D	BLANK	SBLK12	Soil	1	std		Yes					92798	SOMBNA
4	QL12004-001	22-Dec-2015 11:43:30	12122206.D	Client	F6R18	Soil	20	std		Yes					rr-1X	SOMBNA
5	QL12004-002	22-Dec-2015 12:11:30	12122207.D	Client	F6R20	Soil	20	std		Yes						SOMBNA
6	QL12004-003	22-Dec-2015 12:40:30	12122208.D	Client	F6R21	Soil	20	std		Yes					rr-10X	SOMBNA
7	QL12004-004	22-Dec-2015 13:08:30	12122209.D	Client	F6R23	Soil	20	std		Yes						SOMBNA
8	QL12004-005	22-Dec-2015 13:37:30	12122210.D	Client	F6R24	Soil	20	std		Yes						SOMBNA
9	QL12004-006	22-Dec-2015 14:05:30	12122211.D	Client	F6R25	Soil	20	std		Yes						SOMBNA
10	QL12004-007	22-Dec-2015 14:34:30	12122212.D	Client	F6R26	Soil	20	std		Yes						SOMBNA
11	QL12004-008	22-Dec-2015 15:02:30	12122213.D	Client	F6R27	Soil	20	std		Yes					rr-5X	SOMBNA
12	QL12004-009	22-Dec-2015 15:31:30	12122214.D	Client	F6R28	Soil	20	std		Yes					rr-1X	SOMBNA
97	SSTD020OW	22-Dec-2015 16:00:30	12122215.D	Ccv	SSTD020OW	Water	1	std		Yes					SVMS 1673	SOMBNA
13	QQ92747-001	22-Dec-2015 16:43:30	12122216.D	Client		Water	1	std		Yes					IS	SOMBNA
14	QL16010-001	22-Dec-2015 17:12:30	12122217.D	Client	F6R29	Water	1	std		Yes						SOMBNA
15	QL16010-005	22-Dec-2015 17:40:30	12122218.D	Client	F6R35	Water	1	std		Yes						SOMBNA
16	QL16010-006	22-Dec-2015 18:08:30	12122219.D	Client	F6R36	Water	1	std		Yes						SOMBNA
17	QL16010-009	22-Dec-2015 18:37:30	12122220.D	Client	F6R30	Water	10	std		Yes						SOMBNA
18	QL16010-003	22-Dec-2015 19:05:30	12122221.D	Client	F6R33	Water	20	std		Yes						SOMBNA
19	QL16010-004	22-Dec-2015 19:34:30	12122222.D	Client	F6R34	Water	20	std		Yes						SOMBNA
20	QL16010-002	22-Dec-2015 20:02:30	12122223.D	Client	F6R32	Water	20	std		Yes					rr-1000X	SOMBNA
97	SSTD020OX	22-Dec-2015 20:30:30	12122224.D	Ccv	SSTD020OX	Water	1	std		Yes					SVMS 1673	SOMBNA-end

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd12.i\12122315.b
Inst. ID: msd12.i Method: SOMBNA
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	23-Dec-2015 08:33:30	12122301.D	DFTPP	DFTPPOY	Water	1	all			Yes				IS: svms1644	SOMDFTPP
97	SSTD020OZ	23-Dec-2015 08:51:30	12122302.D	Ccv	SSTD020OZ	Water	1	std		Yes					svms-1673	SOMBNA
1	QQ92747-001	23-Dec-2015 09:20:30	12122303.D	BLANK	SBLK47	Water	1	std		Yes						SOMBNA
3	GPCBLK46	23-Dec-2015 09:49:30	12122304.D	Client	GPCBLK46	Water	1	std		Yes						SOMBNA
4	QQ92846-001	23-Dec-2015 10:17:30	12122305.D	BLANK	SBLK46	Soil	1	std		Yes						SOMBNA
5	QL11018-015	23-Dec-2015 10:46:30	12122306.D	Client	F6R06RX	Soil	1	std		Yes					92926	SOMBNA
6	QL11018-010	23-Dec-2015 11:15:30	12122307.D	Client	F6R14	Soil	1	std		Yes					na	SOMBNA
15	QL11018-015	23-Dec-2015 11:44:30	12122308.D	Client	F6R06RX	Soil	5	std		Yes						SOMBNA
11	QL12004-001	23-Dec-2015 12:13:30	12122309.D	Client	F6R18	Soil	1	std		Yes						SOMBNA
12	QL12004-003	23-Dec-2015 12:41:30	12122310.D	Client	F6R21	Soil	10	std		Yes						SOMBNA
13	QL12004-008	23-Dec-2015 13:10:30	12122311.D	Client	F6R27	Soil	5	std		Yes						SOMBNA
14	QL12004-009	23-Dec-2015 13:38:30	12122312.D	Client	F6R28	Soil	1	std		Yes						SOMBNA
2	QL16010-002	23-Dec-2015 14:07:30	12122313.D	Client	F6R32DL	Water	1000	std		Yes					rr-2000X	SOMBNA
16	QL11018-010	23-Dec-2015 14:36:30	12122314.D	Client	F6R14	Soil	1	std		Yes					na	SOMBNA
17	QL11018-011	23-Dec-2015 15:04:30	12122315.D	Client	F6R15	Soil	1	std		Yes						SOMBNA
18	QL11018-013	23-Dec-2015 15:34:30	12122316.D	Client	F6R17	Soil	1	std		Yes						SOMBNA
19	QL11018-016	23-Dec-2015 16:04:30	12122317.D	Client	F6R07	Soil	1	std		Yes						SOMBNA
20	QL11018-017	23-Dec-2015 16:33:30	12122318.D	Client	F6R08	Soil	5	std		Yes						SOMBNA
22	QL11018-010	23-Dec-2015 17:02:30	12122319.D	Client	F6R14	Soil	1	std		Yes						SOMBNA
21	QL16010-002	23-Dec-2015 17:31:30	12122320.D	Client	F6R32DL2	Water	2000	std		Yes						SOMBNA
97	SSTD020PA	23-Dec-2015 17:59:30	12122321.D	Ccv	SSTD020PA	Water	1	std		Yes					svms-1673	SOMBNA-end

Working Standards Prep Log - GC/MS Semi-volatiles

Initials: RBH
Prep Date: 12/08/15
Exp Date: 02/04/16

Mix #: SVMS 1673
Solvent Lot #: 15-1267
Solvent: CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM L-3 2.2							
SOM Intermediate	SVMS 1637	200	100.0	1.0	20		5/19/2016
SV Addition	15-325	1,000	20.0	1.0	20		2/4/2016
Internal Standard	15-882	4,000	5.0	1.0	20		5/19/2025
1,4 Dioxane	15-463	1,000	8.0	1.0	8		4/19/2016
1,4 Dioxane d8	15-462	1,000	8.0	1.0	8		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1680
Prep Date:	12/09/15	Solvent Lot #:	15-1267
Exp Date:	02/04/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM L-1 2.2							
SOM Intermediate	SVMS 1637	200	25.0	1.0	5		5/19/2016
SV Addition	15-325	1,000	5.0	1.0	5		2/4/2016
Internal Standard	15-882	4,000	5.0	1.0	20		5/19/2025
1,4 Dioxane	15-463	1,000	2.0	1.0	2		4/19/2016
1,4 Dioxane d8	15-462	1,000	2.0	1.0	2		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1681
Prep Date:	12/09/15	Solvent Lot #:	15-1267
Exp Date:	02/04/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM L-2 2.2							
SOM Intermediate	SVMS 1637	200	50.0	1.0	10		5/19/2016
SV Addition	15-325	1,000	10.0	1.0	10		2/14/2016
Internal Standard	15-882	4,000	5.0	1.0	20		5/19/2025
1,4 Dioxane	15-463	1,000	4.0	1.0	4		4/19/2016
1,4 Dioxane d8	15-462	1,000	4.0	1.0	4		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1682
Prep Date:	12/09/15	Solvent Lot #:	15-1267
Exp Date:	02/04/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM L-4 2.2							
SOM Intermediate	SVMS 1637	200	200.0	1.0	40		5/19/2016
SV Addition	15-325	1,000	40.0	1.0	40		2/4/2016
Internal Standard	15-882	4,000	5.0	1.0	20		5/19/2025
1,4 Dioxane	15-463	1,000	16.0	1.0	16		4/19/2016
1,4 Dioxane d8	15-462	1,000	16.0	1.0	16		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1683
Prep Date:	12/09/15	Solvent Lot #:	15-1267
Exp Date:	02/04/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM L-5 2.2							
SOM Intermediate	SVMS 1637	200	400.0	1.0	80		5/19/2016
SV Addition	15-325	1,000	80.0	1.0	80		2/4/2016
Internal Standard	15-882	4,000	5.0	1.0	20		5/19/2025
1,4 Dioxane	15-463	1,000	32.0	1.0	32		4/19/2016
1,4 Dioxane d8	15-462	1,000	32.0	1.0	32		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

SHEALY ENVIRONMENTAL SERVICES

SOM02.3 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

SEMIVOLATILE-sim

QC Summary

- Deuterated Monitoring Compound Recovery (Form 2)
- Matrix Spike/Matrix Spike Duplicate Recovery (Form 3) optional
- Laboratory Control Sample Recovery (Form 3) optional
- Method Blank Summary (Form 4)
- GC/MS Instrument Performance Check (Form 5)
- Internal Standard Area & RT Summary (Form 8)

Sample Data

Standards Data

- Initial Calibration (Form 6)
- Continuing Calibration Verification Data (Form 7)

Raw QC Data

- DFTPP Data
- Blank Data
- MS/MSD Data (optional)
- LCS Data (optional)

Miscellaneous Data

- Run Logs
- Standard Preparation Logs

SEMIVOLATILE-sim QC SUMMARY

Includes:

Deuterated Monitoring Compound Recovery (Form 2)

Matrix Spike/Matrix Spike Duplicate (Form 3A)

Laboratory Control Sample Recovery (From 3B)

Method Blank Summary (Form 4)

GC/MS Instrument Performance Check (Form 5)

Internal Standard Area and RT Summary (Form 8)

Deuterated Monitoring Compound Recovery

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

AnalyticalMethod: SVOA SIM Level: LOW

Matrix: Soil

EPA SAMPLE NO.	DMC1	DMC2	DMC3	DMC4	DMC5	DMC6			TOT OUT
F6R18	57	71	139	133 D	0 D	61			0
F6R20	3442 D	334 D	329 D	0 D	0 D	75			0
F6R21	75	64	124	0 D	0 D	62			0
F6R23	164 D	0 D	0 D	0 D	0 D	371 D			0
F6R24	28 D	0 D	0 D	0 D	0 D	0 D			0
F6R26	33 D	0 D	0 D	0 D	0 D	0 D			0
F6R25	19 D	0 D	0 D	0 D	0 D	852 D			0
F6R25RE	148 D	0 D	0 D	0 D	0 D	0 D			0
F6R27	0 D	263 D	0 D	818 D	0 D	278 D			0
F6R28	18 D	55	105	66	0 D	69			0
SBLK13	396 *	64	52	73	54	48			1

	QC LIMITS
DMC1 = 1,4-Dioxane-d8	40-110
DMC2 = Fluoranthene-d10	30-130
DMC3 = 2-Methylnaphthalene-d10	20-140
DMC4 = Bis(2-Chloroethyl)ether-d8	25-120
DMC5 = Nitrobenzene-d5	20-125
DMC6 = 2,4-Dichlorophenol-d3	20-120

* Values outside of contract required QC limits
D DMC diluted out

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

AnalyticalMethod: SVOA SIM Level: MED

Matrix: Soil

EPA SAMPLE NO.	DMC1	DMC2	DMC3	DMC4	DMC5	DMC6			TOT OUT
F6R23RX	58	508 D	0 D	2205 D	2471 D	619 D			0
F6R24RX	251 D	1536 D	330 D	0 D	7012 D	268 D			0
F6R26RX	66	195 D	268 D	0 D	0 D	538 D			0
SBLK38	208 *	84	83	100	95	71			1

	QC LIMITS
DMC1 = 1,4-Dioxane-d8	40-110
DMC2 = Fluoranthene-d10	30-130
DMC3 = 2-Methylnaphthalene-d10	20-140
DMC4 = Bis(2-Chloroethyl)ether-d8	25-120
DMC5 = Nitrobenzene-d5	20-125
DMC6 = 2,4-Dichlorophenol-d3	20-120

* Values outside of contract required QC limits
D DMC diluted out

Method Blank Summary

EPA SAMPLE NO.

SBLK13

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92513-001
Instrument ID: Agilent MSD4
Lab File ID: 41223B11
Extraction Type: SONC
Date Extracted: 12/18/2015
GC Column(1): Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/23/2015
GC Column(2): ID: (mm)
Time Analyzed: 14:14/14:14
Heated Purge:(Y/N) Cleanup:(Y/N) Y
Cleanup Types: GPC

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R18	QL12004-001	4122105	10:19/10:19
F6R20	QL12004-002	4122106	10:45/10:45
F6R21	QL12004-003	4122107	11:11/11:11
F6R23	QL12004-004	4122108	11:37/11:37
F6R24	QL12004-005	4122109	12:04/12:04
F6R26	QL12004-007	4122111	12:56/12:56
F6R25	QL12004-006	4122110	12:30/12:30
F6R25RE	QL12004-006	41222B03	10:39/10:39
F6R27	QL12004-008	4122112	13:22/13:22
F6R28	QL12004-009	4122113	13:48/13:48

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK38

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: MED
Matrix: Soil
Lab Sample ID: QQ92838-001
Instrument ID: Agilent MSD4
Lab File ID: 41223B05
Extraction Type: SONC
Date Extracted: 12/22/2015
GC Column(1): Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/23/2015
GC Column(2): ID: (mm)
Time Analyzed: 11:35/11:35
Heated Purge:(Y/N) Cleanup:(Y/N) Y
Cleanup Types: GPC

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R23RX	QL12004-004	41223B15	16:01/16:01
F6R24RX	QL12004-005	41223B17	16:54/16:54
F6R26RX	QL12004-007	41223B16	16:27/16:27

Instrument Performance Check

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPOM

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Lab File ID: 41218B01

Instrument ID: Agilent MSD4 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/18/2015 Injection Time: 1410

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	
68	Less than 2.0% of mass 69	() 1
69	Mass 69 relative abundance	
70	Less than 2.0% of mass 69	() 1
127	10.0 - 80.0% of mass 198	
197	Less than 2.0% of mass 198	
198	Base Peak, 100% relative abundance	
199	5.0 - 9.0% of mass 198	
275	10.0 - 60.0% of mass 198	
365	Greater than 1.0% of mass 198	
441	Present, but less than mass 443	
442	50.0 - 100% of mass 198	
443	15.0 - 24.0% of mass 442	() 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD.05ON	SSTD.05ON	41218B02	12/18/2015	1425
SSTD0.1ON	SSTD0.1ON	41218B03	12/18/2015	1451
SSTD0.2ON	SSTD0.2ON	41218B04	12/18/2015	1517
SSTD0.4ON	SSTD0.4ON	41218B05	12/18/2015	1544
SSTD0.8ON	SSTD0.8ON	41218B06	12/18/2015	1610
SSTD1.6ON	SSTD1.6ON	41218B07	12/18/2015	1636

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPOO

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Lab File ID: 4122101

Instrument ID: Agilent MSD4 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/21/2015 Injection Time: 0823

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	
68	Less than 2.0% of mass 69	() 1
69	Mass 69 relative abundance	
70	Less than 2.0% of mass 69	() 1
127	10.0 - 80.0% of mass 198	
197	Less than 2.0% of mass 198	
198	Base Peak, 100% relative abundance	
199	5.0 - 9.0% of mass 198	
275	10.0 - 60.0% of mass 198	
365	Greater than 1.0% of mass 198	
441	Present, but less than mass 443	
442	50.0 - 100% of mass 198	
443	15.0 - 24.0% of mass 442	() 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD0.2OP	SSTD0.2OP	4122102	12/21/2015	0839
F6R18	QL12004-001	4122105	12/21/2015	1019
F6R20	QL12004-002	4122106	12/21/2015	1045
F6R21	QL12004-003	4122107	12/21/2015	1111
F6R23	QL12004-004	4122108	12/21/2015	1137
F6R24	QL12004-005	4122109	12/21/2015	1204
F6R25	QL12004-006	4122110	12/21/2015	1230
F6R26	QL12004-007	4122111	12/21/2015	1256
F6R27	QL12004-008	4122112	12/21/2015	1322
F6R28	QL12004-009	4122113	12/21/2015	1348
SSTD0.2OR	SSTD0.2OR	4122117	12/21/2015	1533

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPOS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Lab File ID: 41222B01

Instrument ID: Agilent MSD4 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/22/2015 Injection Time: 0919

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	
68	Less than 2.0% of mass 69	() 1
69	Mass 69 relative abundance	
70	Less than 2.0% of mass 69	() 1
127	10.0 - 80.0% of mass 198	
197	Less than 2.0% of mass 198	
198	Base Peak, 100% relative abundance	
199	5.0 - 9.0% of mass 198	
275	10.0 - 60.0% of mass 198	
365	Greater than 1.0% of mass 198	
441	Present, but less than mass 443	
442	50.0 - 100% of mass 198	
443	15.0 - 24.0% of mass 442	() 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD0.2OT	SSTD0.2OT	41222B02	12/22/2015	0934
F6R25RE	QL12004-006	41222B03	12/22/2015	1039
SSTD0.2OW	SSTD0.2OW	41222B04	12/22/2015	1443

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPPA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Lab File ID: 41223B01

Instrument ID: Agilent MSD4 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/23/2015 Injection Time: 0953

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	
68	Less than 2.0% of mass 69	() 1
69	Mass 69 relative abundance	
70	Less than 2.0% of mass 69	() 1
127	10.0 - 80.0% of mass 198	
197	Less than 2.0% of mass 198	
198	Base Peak, 100% relative abundance	
199	5.0 - 9.0% of mass 198	
275	10.0 - 60.0% of mass 198	
365	Greater than 1.0% of mass 198	
441	Present, but less than mass 443	
442	50.0 - 100% of mass 198	
443	15.0 - 24.0% of mass 442	() 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD0.2PB	SSTD0.2PB	41223B02	12/23/2015	1009
SBLK38	QQ92838-001	41223B05	12/23/2015	1135
SBLK13	QQ92513-001	41223B11	12/23/2015	1414
F6R23RX	QL12004-004	41223B15	12/23/2015	1601
F6R26RX	QL12004-007	41223B16	12/23/2015	1627
F6R24RX	QL12004-005	41223B17	12/23/2015	1654
SSTD0.2PC	SSTD0.2PC	41223B19	12/23/2015	1804

Internal Standard & RT Summary

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

EPA Sample No.: SSTD0.2OP Lab File ID (Standard): 4122102

Instrument ID: Agilent MSD4 Init. Calib. Date(s): 12/18/2015 12/18/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/21/2015

Heated Purge: (Y/N) Time Analyzed: 0839

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	371838	7.06	151569	8.53	274388	9.81
UPPER LIMIT	743676	7.56	303138	9.03	548776	10.31
LOWER LIMIT	185919	6.56	75785	8.03	137194	9.31
EPA SAMPLE NO.						
F6R18	413723	7.06	156977	8.53	334503	9.82
F6R20	489745	7.07	176691	8.53	394451	9.81
F6R21	528130	7.06	175742	8.53	440428	9.81
F6R23	460012	7.07	413212 *	8.56	500920	9.84
F6R24	953721 *	7.07	348299 *	8.55	832042 *	9.82
F6R26	812218 *	7.07	497674 *	8.55	695828 *	9.82
F6R25	517842	7.07	362256 *	8.55	680319 *	9.82
F6R27	500991	7.06	199942	8.53	387244	9.82
F6R28	623552	7.07	238961	8.53	491662	9.82

IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% internal standard area

AREA LOWER LIMIT = 50% internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: Low
EPA Sample No.: SSTD0.2OP
Lab File ID (Standard): 4122102
Instrument ID: Agilent MSD4
Init. Calib. Date(s): 12/18/2015 12/18/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/21/2015
Heated Purge: (Y/N)
Time Analyzed: 0839

	IS4 AREA	RT	IS5 AREA	RT		
12 HOUR STD	301747	12.77	254119	15.10		
UPPER LIMIT	603494	13.27	508238	15.60		
LOWER LIMIT	150874	12.27	127060	14.60		
EPA SAMPLE NO.						
F6R18	324704	12.77	284610	15.10		
F6R20	409916	12.77	372388	15.10		
F6R21	434123	12.77	387291	15.10		
F6R23	737141 *	12.81	228262	15.15		
F6R24	895601 *	12.79	412718	15.14		
F6R26	639694 *	12.78	464095	15.12		
F6R25	613408 *	12.78	401600	15.12		
F6R27	437487	12.77	380479	15.10		
F6R28	559126	12.77	482128	15.10		

IS4 = Chrysene-d12
IS5 = Perylene-d12

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

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: Low
EPA Sample No.: SSTD0.2OT
Lab File ID (Standard): 41222B02
Instrument ID: Agilent MSD4
Init. Calib. Date(s): 12/18/2015 12/18/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/22/2015
Heated Purge: (Y/N)
Time Analyzed: 0934

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	383255	7.06	149326	8.53	289646	9.82
UPPER LIMIT	766510	7.56	298652	9.03	579292	10.32
LOWER LIMIT	191628	6.56	74663	8.03	144823	9.32
EPA SAMPLE NO.						
F6R25RE	658289	7.07	332889 *	8.55	512117	9.82

IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = 1,4-Dichlorobenzene-d4

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

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: Low
EPA Sample No.: SSTD0.2OT
Lab File ID (Standard): 41222B02
Instrument ID: Agilent MSD4
Init. Calib. Date(s): 12/18/2015 12/18/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/22/2015
Heated Purge: (Y/N)
Time Analyzed: 0934

	IS4 AREA	RT	IS5 AREA	RT		
12 HOUR STD	334293	12.77	284025	15.10		
UPPER LIMIT	668586	13.27	568050	15.60		
LOWER LIMIT	167147	12.27	142013	14.60		
EPA SAMPLE NO.						
F6R25RE	531739	12.78	421981	15.12		

IS4 = Chrysene-d12
IS5 = Perylene-d12

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

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: Low
EPA Sample No.: SSTD0.2PB
Lab File ID (Standard): 41223B02
Instrument ID: Agilent MSD4
Init. Calib. Date(s): 12/18/2015 12/18/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/23/2015
Heated Purge: (Y/N)
Time Analyzed: 1009

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	362890	7.06	169474	8.53	278913	9.81
UPPER LIMIT	725780	7.56	338948	9.03	557826	10.31
LOWER LIMIT	181445	6.56	84737	8.03	139457	9.31
EPA SAMPLE NO.						
F6R23RX	448356	7.06	244436	8.53	373855	9.81
F6R24RX	529131	7.06	279625	8.53	420164	9.81
F6R26RX	476055	7.06	257295	8.53	378424	9.81
SBLK13	380680	7.06	185413	8.53	326219	9.81
SBLK38	356768	7.06	167692	8.53	276172	9.81

IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = 1,4-Dichlorobenzene-d4

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

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: Low
EPA Sample No.: SSTD0.2PB
Lab File ID (Standard): 41223B02
Instrument ID: Agilent MSD4
Init. Calib. Date(s): 12/18/2015 12/18/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Analyzed: 12/23/2015
Heated Purge: (Y/N)
Time Analyzed: 1009

	IS4 AREA	RT	IS5 AREA	RT		
12 HOUR STD	311750	12.76	259770	15.09		
UPPER LIMIT	623500	13.26	519540	15.59		
LOWER LIMIT	155875	12.26	129885	14.59		
EPA SAMPLE NO.						
F6R23RX	390988	12.76	380756	15.09		
F6R24RX	546369	12.77	486412	15.10		
F6R26RX	416935	12.76	404989	15.09		
SBLK13	325881	12.76	273488	15.09		
SBLK38	286109	12.76	253679	15.09		

IS4 = Chrysene-d12
IS5 = Perylene-d12

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

SEMIVOLATILE-sim SAMPLE DATA

Sample data shall be arranged in packets with the Volatile Analysis Data Sheet (Form 1A-OR), followed by the raw data for the VOA samples. These sample packets shall be placed in increasing EPA sample number order, considering both letters and numbers.

-Target Compound Results (Form 1A-OR)
-Quantitation Report showing calculation for TCL Analytes
-Reconstructed Total Ion Chromatograms
-Raw Spectra & background subtracted mass spectra of TCL Analytes identified in the sample
-Mass Spectra of organic compounds not listed in Exhibit C with associated best match spectra
-Printout of Manual Integrations

Spectra shall be labeled as follows:

EPA Sample ID number, Sample ID number, Lab file ID, Date & Time of analysis and Instrument ID.
The compound name must be clearly marked.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R18

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-001
Sample wt/vol: 30.1 (g/mL) g
Lab File ID: 4122105
% Solids: 87.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	39	U
91-20-3	Naphthalene	39	U
91-57-6	2-Methylnaphthalene	39	U
208-96-8	Acenaphthylene	39	U
83-32-9	Acenaphthene	39	U
86-73-7	Fluorene	39	U
87-86-5	Pentachlorophenol	76	U
85-01-8	Phenanthrene	39	U
120-12-7	Anthracene	39	U
206-44-0	Fluoranthene	39	U
129-00-0	Pyrene	39	U
56-55-3	Benzo(a)anthracene	39	U
218-01-9	Chrysene	39	U
205-99-2	Benzo(b)fluoranthene	39	U
207-08-9	Benzo(k)fluoranthene	39	U
50-32-8	Benzo(a)pyrene	39	U
193-39-5	Indeno(1,2,3-cd)pyrene	39	U
53-70-3	Dibenzo(a,h)anthracene	39	U
191-24-2	Benzo(g,h,i)perylene	39	U
132-64-9	Dibenzofuran	39	U
118-74-1	Hexachlorobenzene	39	U
87-68-3	Hexachlorobutadiene	76	U
111-44-4	bis(2-Chloroethyl)ether	76	U
108-60-1	2,2'-Oxybis(1-chloropropane)	76	U
621-64-7	N-Nitrosodi-n-propylamine	39	U
67-72-1	Hexachloroethane	76	U
98-95-3	Nitrobenzene	76	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R18

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-001
Sample wt/vol: 30.1 (g/mL) g
Lab File ID: 4122105
% Solids: 87.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	76	U
88-06-2	2,4,6-Trichlorophenol	76	U
92-52-4	1,1'-Biphenyl	39	U
606-20-2	2,6-Dinitrotoluene	39	U
51-28-5	2,4-Dinitrophenol	760	U
121-14-2	2,4-Dinitrotoluene	39	U
534-52-1	4,6-Dinitro-2-methylphenol	76	U
95-94-3	1,2,4,5-Tetrachlorobenzene	76	U
1912-24-9	Atrazine	76	U
91-94-1	3,3'-Dichlorobenzidine	76	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122105.D		
Lab Sample ID:	QL12004-001	Client Sample ID:	F6R18
Injection Date:	21-Dec-2015 10:19:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, QL12004-001		
Misc. Info:	92513 20X		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544.m		
Method Date:	04-Jan-2016 15:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.100	Weight of sample extracted (g)
M	13.000	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	04-Jan-2016 15:12:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.735	3.762	-0.027	351	0.002825	2.1579	e
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	1559	0.006673	5.0961	e
5 bis(2-Chloroethyl)Ether	93.0		5.771		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	86565	0.40000	305.50	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.186		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.290		ND			
15 Hexachloroethane	117.0		6.436		ND			
$ 16 Nitrobenzene-d5	128.0		6.457		ND			
17 Nitrobenzene	77.0		6.467		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.952	6.926	0.026	1460	0.006111	4.6672	e
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	413723	0.40000	305.50	
24 Naphthalene	128.0		7.075		ND			
25 4-Chloroaniline	127.0		7.075		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.979	7.615	0.364	3970	0.006940	5.3004	eR
29 2-Methylnaphthalene	142.0		7.646		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.317		ND			
38 Acenaphthylene	152.0		8.425		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	156977	0.40000	305.50	

Report Date: 04-Jan-2016 15:15:04 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122105.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.657		ND			
45 Dibenzofuran	168.0		8.718		ND			
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0		9.484		ND			
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.817	9.807	0.010	334503	0.40000	305.50	
59 Phenanthrene	178.0		9.828		ND			
60 Anthracene	178.0		9.880		ND			
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	3132	0.003551	2.7120	e
63 Fluoranthene	202.0		10.959		ND			
64 Pyrene	202.0		11.221		ND			
68 3,3'-Dichlorobenzidine	252.0		12.661		ND			
67 Benzo(a)anthracene	228.0		12.748		ND			
* 69 Chrysene-d12	240.0	12.766	12.766	0.000	324704	0.40000	305.50	
70 Chrysene	228.0		12.810		ND			
73 Benzo(b)fluoranthene	252.0		14.429		ND			
74 Benzo(k)fluoranthene	252.0		14.473		ND			
75 Benzo(a)pyrene	252.0		15.000		ND			
* 76 Perylene-d12	264.0	15.103	15.103	0.000	284610	0.40000	305.50	
77 Indeno(1,2,3-cd)pyrene	276.0		17.345		ND			
78 Dibenzo(a,h)anthracene	278.0		17.360		ND			
79 Benzo(g,h,i)perylene	276.0		18.030		ND			

QC Flag Legend

Processing Flags

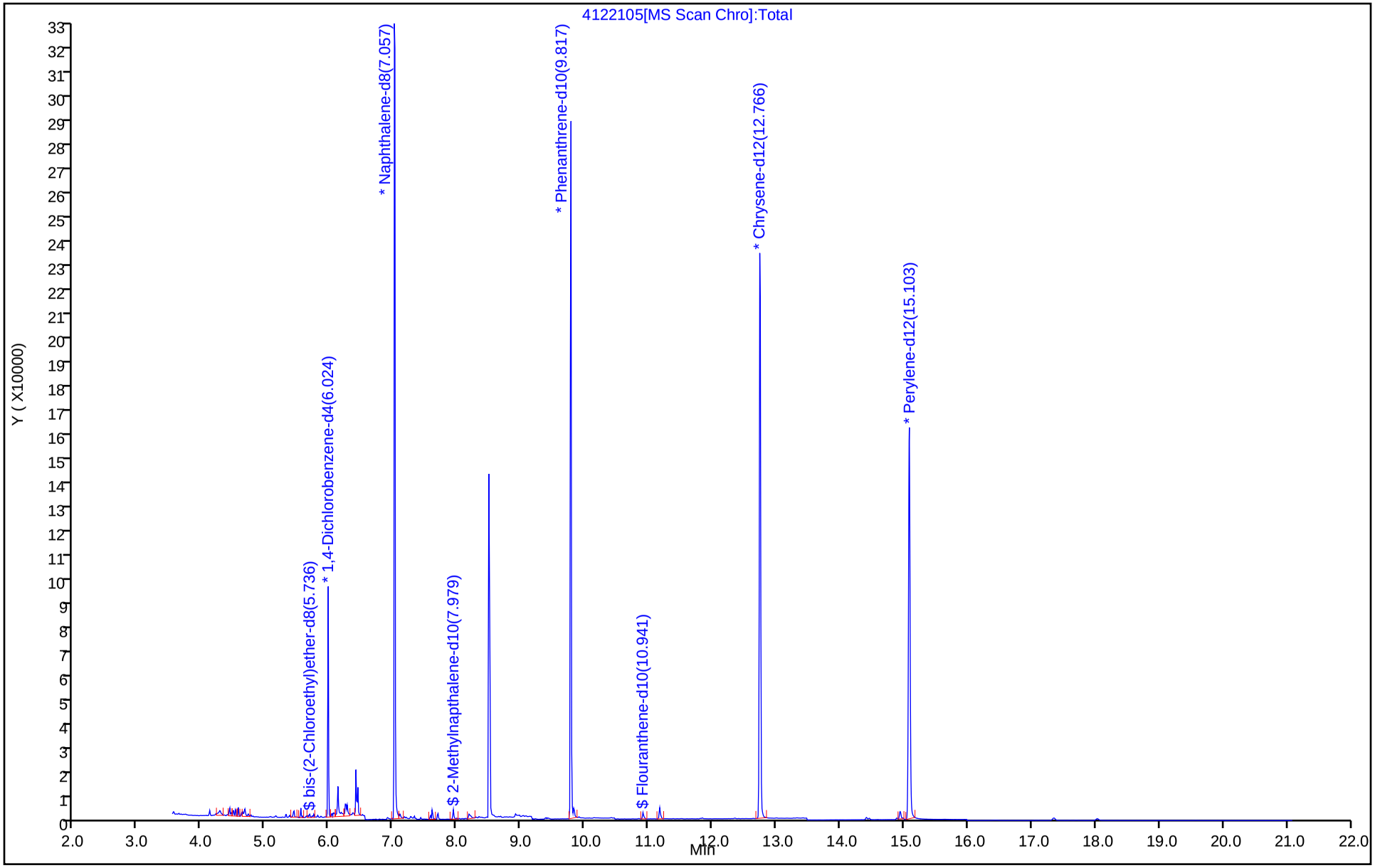
e - Compound Concentration Below Quantitation Limit

R - Spike/Surrogte Fails %Recovery Test

Report Date: 04-Jan-2016 15:15:04 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122105.D				
Injection Date:	21-Dec-2015 10:19:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R18	Lab ID:	QL12004-001		
Sample Info:	4122115, QL12004-001				
Injection Vol.	2.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R20

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-002
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 4122106
% Solids: 88.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	38	U
91-20-3	Naphthalene	18	J B
91-57-6	2-Methylnaphthalene	30	J B
208-96-8	Acenaphthylene	38	U
83-32-9	Acenaphthene	38	U
86-73-7	Fluorene	38	U
87-86-5	Pentachlorophenol	75	U
85-01-8	Phenanthrene	38	U
120-12-7	Anthracene	38	U
206-44-0	Fluoranthene	38	U
129-00-0	Pyrene	38	U
56-55-3	Benzo(a)anthracene	38	U
218-01-9	Chrysene	38	U
205-99-2	Benzo(b)fluoranthene	38	U
207-08-9	Benzo(k)fluoranthene	38	U
50-32-8	Benzo(a)pyrene	38	U
193-39-5	Indeno(1,2,3-cd)pyrene	38	U
53-70-3	Dibenzo(a,h)anthracene	38	U
191-24-2	Benzo(g,h,i)perylene	38	U
132-64-9	Dibenzofuran	38	U
118-74-1	Hexachlorobenzene	38	U
87-68-3	Hexachlorobutadiene	75	U
111-44-4	bis(2-Chloroethyl)ether	75	U
108-60-1	2,2'-Oxybis(1-chloropropane)	75	U
621-64-7	N-Nitrosodi-n-propylamine	38	U
67-72-1	Hexachloroethane	75	U
98-95-3	Nitrobenzene	75	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R20

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-002
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 4122106
% Solids: 88.0
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	75	U
88-06-2	2,4,6-Trichlorophenol	75	U
92-52-4	1,1'-Biphenyl	38	U
606-20-2	2,6-Dinitrotoluene	38	U
51-28-5	2,4-Dinitrophenol	750	U
121-14-2	2,4-Dinitrotoluene	38	U
534-52-1	4,6-Dinitro-2-methylphenol	75	U
95-94-3	1,2,4,5-Tetrachlorobenzene	75	U
1912-24-9	Atrazine	75	U
91-94-1	3,3'-Dichlorobenzidine	75	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122106.D		
Lab Sample ID:	QL12004-002	Client Sample ID:	F6R20
Injection Date:	21-Dec-2015 10:45:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, QL12004-002		
Misc. Info:	92513 20X		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544.m		
Method Date:	04-Jan-2016 15:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	4
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.200	Weight of sample extracted (g)
M	12.000	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	04-Jan-2016 15:12:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.761	3.762	-0.001	23599	0.17209	129.51	R
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.727		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.771		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	95555	0.40000	301.02	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.186		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.290		ND			
15 Hexachloroethane	117.0		6.436		ND			
$ 16 Nitrobenzene-d5	128.0		6.457		ND			
17 Nitrobenzene	77.0		6.467		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.926	6.926	0.000	2110	0.007461	5.6147	e
* 23 Naphthalene-d8	136.0	7.066	7.057	0.009	489745	0.40000	301.02	
24 Naphthalene	128.0	7.083	7.075	0.008	29917	0.02355	17.726	e
25 4-Chloroaniline	127.0		7.075		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.563	7.615	-0.052	11140	0.01645	12.381	eR
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	30321	0.04043	30.426	e
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.317		ND			
38 Acenaphthylene	152.0		8.425		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	176691	0.40000	301.02	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.657		ND			
45 Dibenzofuran	168.0		8.718		ND			
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0		9.484		ND			
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.807	9.807	0.000	394451	0.40000	301.02	
59 Phenanthrene	178.0		9.828		ND			
60 Anthracene	178.0		9.880		ND			
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	17378	0.01671	12.574	eR
63 Fluoranthene	202.0		10.959		ND			
64 Pyrene	202.0		11.221		ND			
68 3,3'-Dichlorobenzidine	252.0		12.661		ND			
67 Benzo(a)anthracene	228.0		12.748		ND			
* 69 Chrysene-d12	240.0	12.766	12.766	0.000	409916	0.40000	301.02	
70 Chrysene	228.0		12.810		ND			
73 Benzo(b)fluoranthene	252.0		14.429		ND			
74 Benzo(k)fluoranthene	252.0		14.473		ND			
75 Benzo(a)pyrene	252.0		15.000		ND			
* 76 Perylene-d12	264.0	15.103	15.103	0.000	372388	0.40000	301.02	
77 Indeno(1,2,3-cd)pyrene	276.0		17.345		ND			
78 Dibenzo(a,h)anthracene	278.0		17.360		ND			
79 Benzo(g,h,i)perylene	276.0		18.030		ND			

QC Flag Legend

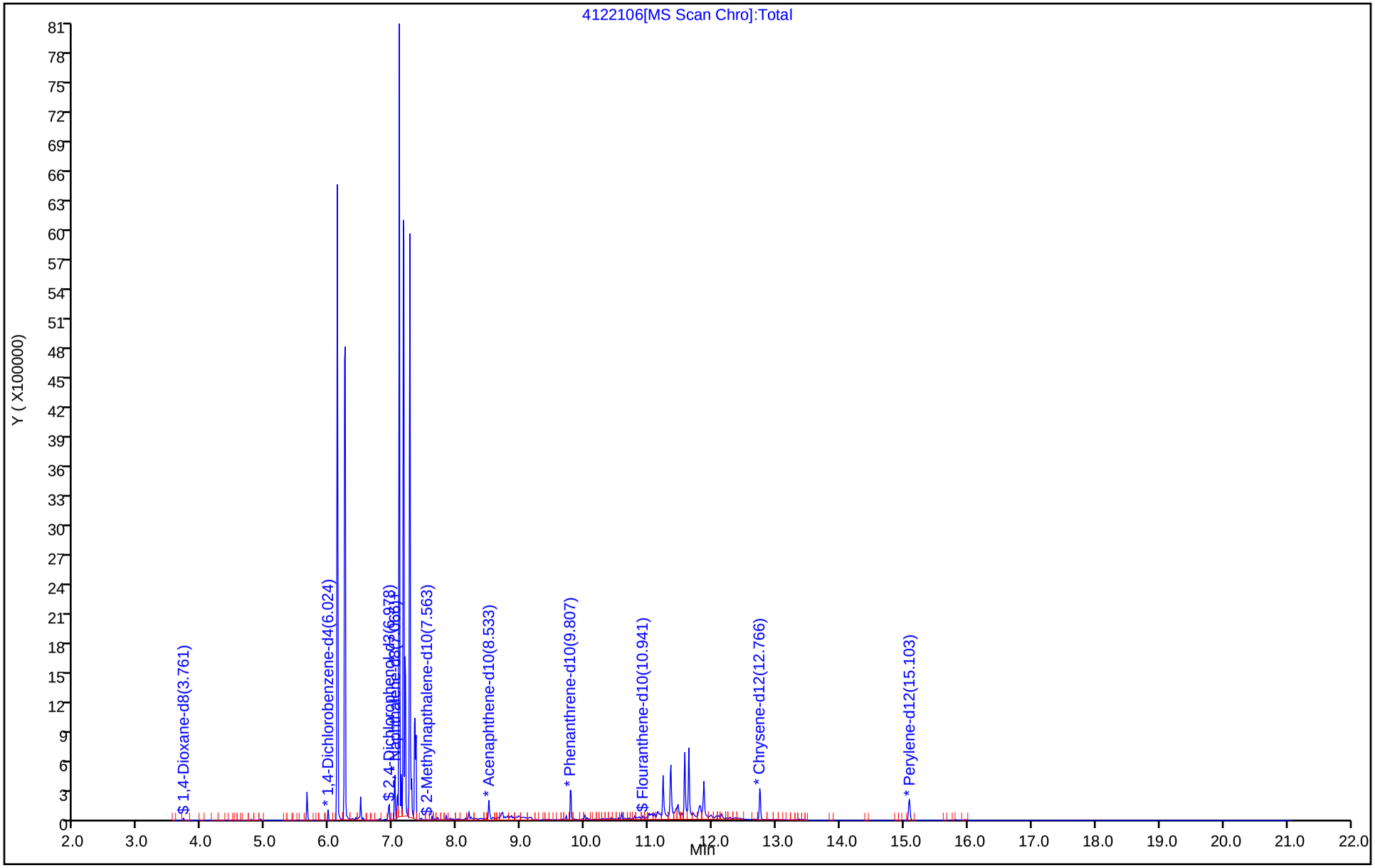
Processing Flags

e - Compound Concentration Below Quantitation Limit

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122106.D				
Injection Date:	21-Dec-2015 10:45:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R20	Lab ID:	QL12004-002		
Sample Info:	4122115, QL12004-002				
Injection Vol.	2.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

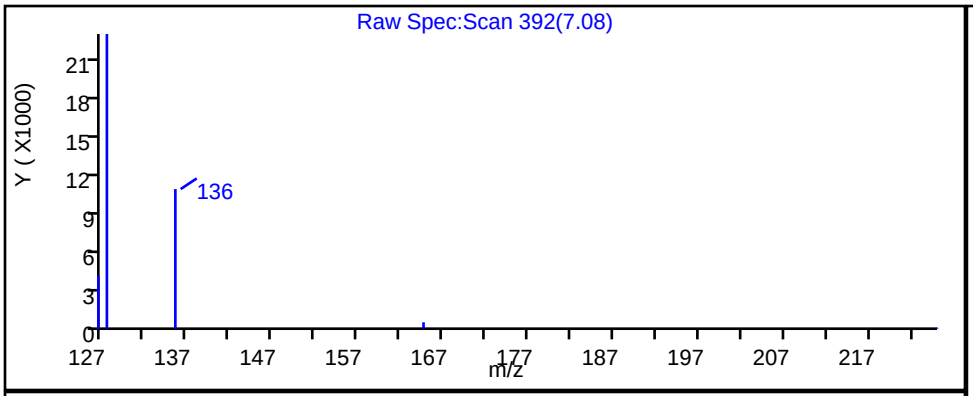


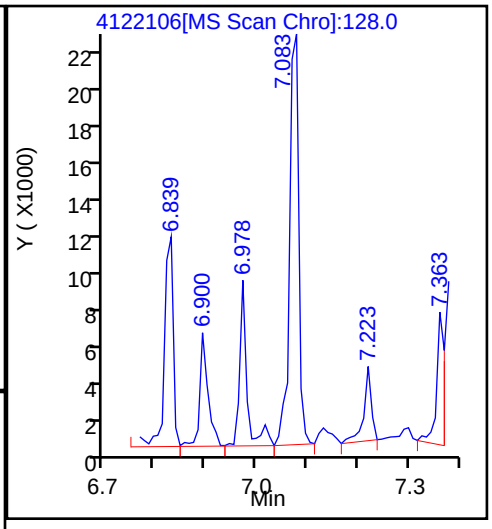
Report Date: 04-Jan-2016 15:15:04 AIM Revision: 1.0 26-May-2015 13:41:26

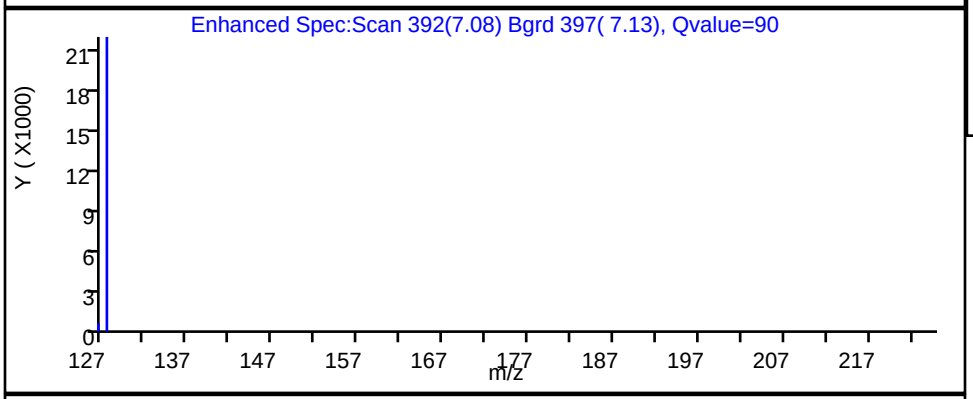
Shealy Environmental Services

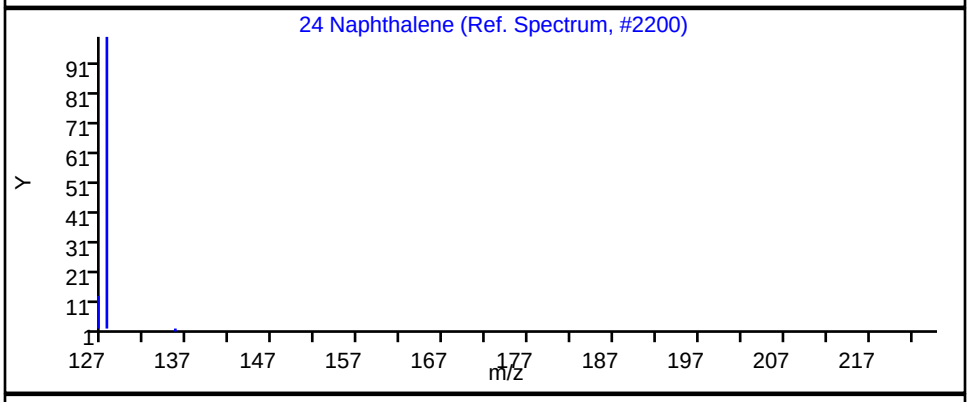
Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122106.D		
Injection Date:	21-Dec-2015 10:45:30	Inst. ID:	msd4.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	4122115, QL12004-002		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

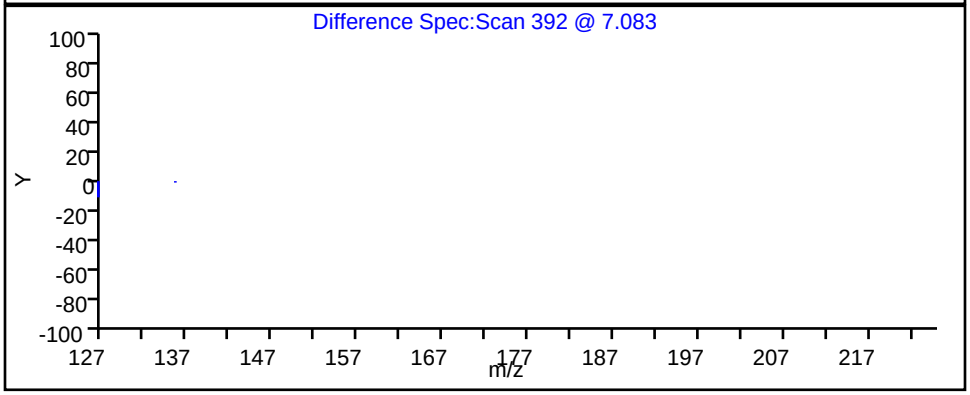
24 Naphthalene









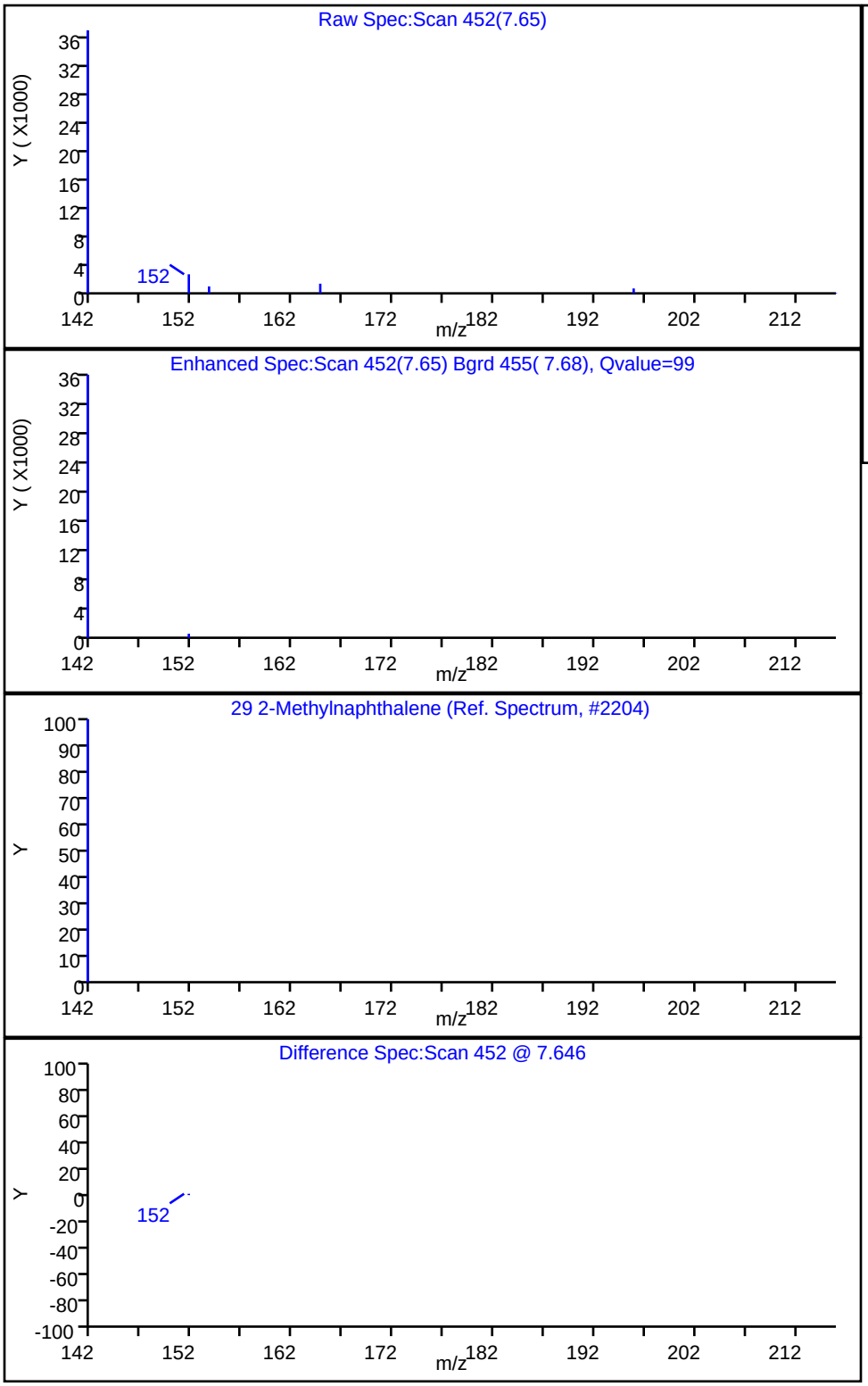


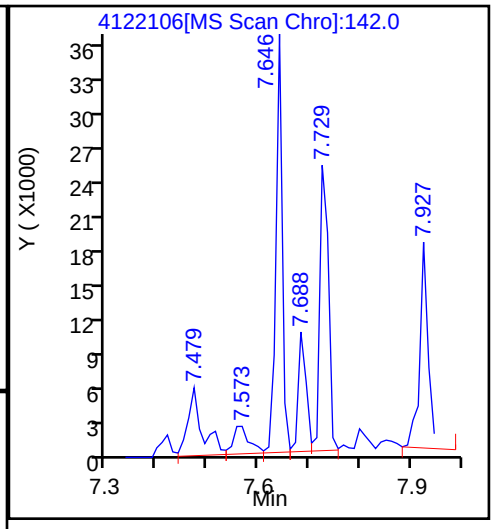
Report Date: 04-Jan-2016 15:15:04 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122106.D		
Injection Date:	21-Dec-2015 10:45:30	Inst. ID:	msd4.i
Client ID:	F6R20	Lab ID:	QL12004-002
Sample Info:	4122115, QL12004-002		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R21

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-003
Sample wt/vol: 30.3 (g/mL) g
Lab File ID: 4122107
% Solids: 82.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	41	U
91-20-3	Naphthalene	41	U
91-57-6	2-Methylnaphthalene	14	J B
208-96-8	Acenaphthylene	41	U
83-32-9	Acenaphthene	41	U
86-73-7	Fluorene	41	U
87-86-5	Pentachlorophenol	79	U
85-01-8	Phenanthrene	41	U
120-12-7	Anthracene	41	U
206-44-0	Fluoranthene	41	U
129-00-0	Pyrene	41	U
56-55-3	Benzo(a)anthracene	41	U
218-01-9	Chrysene	41	U
205-99-2	Benzo(b)fluoranthene	41	U
207-08-9	Benzo(k)fluoranthene	41	U
50-32-8	Benzo(a)pyrene	41	U
193-39-5	Indeno(1,2,3-cd)pyrene	41	U
53-70-3	Dibenzo(a,h)anthracene	41	U
191-24-2	Benzo(g,h,i)perylene	41	U
132-64-9	Dibenzofuran	41	U
118-74-1	Hexachlorobenzene	41	U
87-68-3	Hexachlorobutadiene	79	U
111-44-4	bis(2-Chloroethyl)ether	79	U
108-60-1	2,2'-Oxybis(1-chloropropane)	79	U
621-64-7	N-Nitrosodi-n-propylamine	41	U
67-72-1	Hexachloroethane	79	U
98-95-3	Nitrobenzene	79	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R21

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-003
Sample wt/vol: 30.3 (g/mL) g
Lab File ID: 4122107
% Solids: 82.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	79	U
88-06-2	2,4,6-Trichlorophenol	79	U
92-52-4	1,1'-Biphenyl	41	U
606-20-2	2,6-Dinitrotoluene	41	U
51-28-5	2,4-Dinitrophenol	790	U
121-14-2	2,4-Dinitrotoluene	41	U
534-52-1	4,6-Dinitro-2-methylphenol	79	U
95-94-3	1,2,4,5-Tetrachlorobenzene	79	U
1912-24-9	Atrazine	79	U
91-94-1	3,3'-Dichlorobenzidine	79	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122107.D		
Lab Sample ID:	QL12004-003	Client Sample ID:	F6R21
Injection Date:	21-Dec-2015 11:11:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, QL12004-003		
Misc. Info:	92513 20X		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544.m		
Method Date:	04-Jan-2016 15:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.300	Weight of sample extracted (g)
M	17.200	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	04-Jan-2016 15:13:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.762	3.762	0.000	600	0.003769	3.0044	e
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.727		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.771		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	110934	0.40000	318.87	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.186		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.290		ND			
15 Hexachloroethane	117.0		6.436		ND			
$ 16 Nitrobenzene-d5	128.0		6.457		ND			
17 Nitrobenzene	77.0		6.467		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.926	6.926	0.000	1889	0.006194	4.9377	e
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	528130	0.40000	318.87	
24 Naphthalene	128.0		7.075		ND			
25 4-Chloroaniline	127.0		7.075		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.979	7.615	0.364	4513	0.006180	4.9268	e
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	14336	0.01773	14.131	e
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.317		ND			
38 Acenaphthylene	152.0		8.425		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	175742	0.40000	318.87	

Report Date: 04-Jan-2016 15:15:04 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122107.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.657		ND			
45 Dibenzofuran	168.0		8.718		ND			
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0		9.484		ND			
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.807	9.807	0.000	440428	0.40000	318.87	
59 Phenanthrene	178.0		9.828		ND			
60 Anthracene	178.0		9.880		ND			
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	3742	0.003222	2.5687	e
63 Fluoranthene	202.0		10.959		ND			
64 Pyrene	202.0		11.221		ND			
68 3,3'-Dichlorobenzidine	252.0		12.661		ND			
67 Benzo(a)anthracene	228.0		12.748		ND			
* 69 Chrysene-d12	240.0	12.766	12.766	0.000	434123	0.40000	318.87	
70 Chrysene	228.0		12.810		ND			
73 Benzo(b)fluoranthene	252.0		14.429		ND			
74 Benzo(k)fluoranthene	252.0		14.473		ND			
75 Benzo(a)pyrene	252.0		15.000		ND			
* 76 Perylene-d12	264.0	15.099	15.103	-0.004	387291	0.40000	318.87	
77 Indeno(1,2,3-cd)pyrene	276.0		17.345		ND			
78 Dibenzo(a,h)anthracene	278.0		17.360		ND			
79 Benzo(g,h,i)perylene	276.0		18.030		ND			

QC Flag Legend

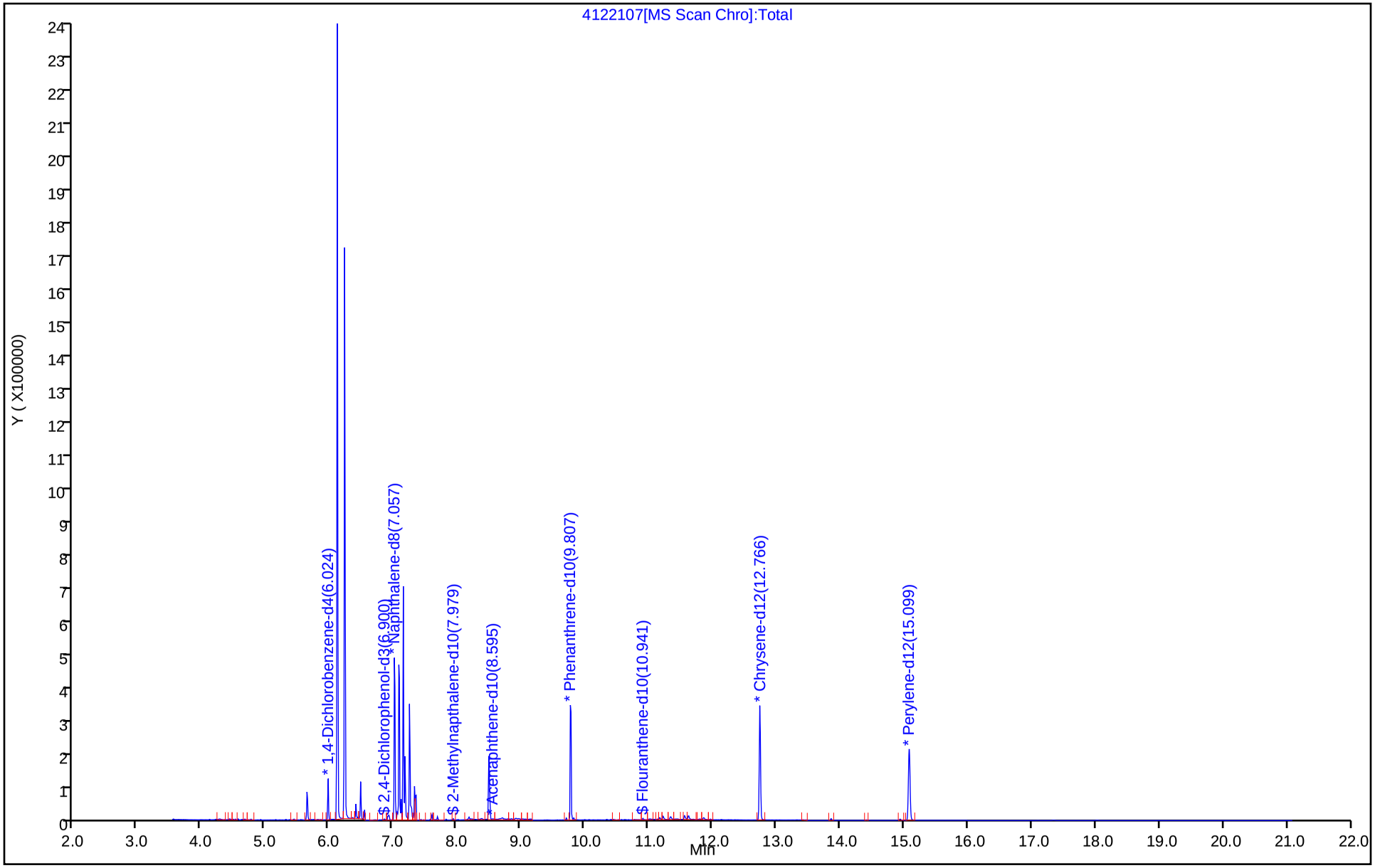
Processing Flags

e - Compound Concentration Below Quantitation Limit

Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122107.D				
Injection Date:	21-Dec-2015 11:11:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R21	Lab ID:	QL12004-003		
Sample Info:	4122115, QL12004-003				
Injection Vol.	2.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

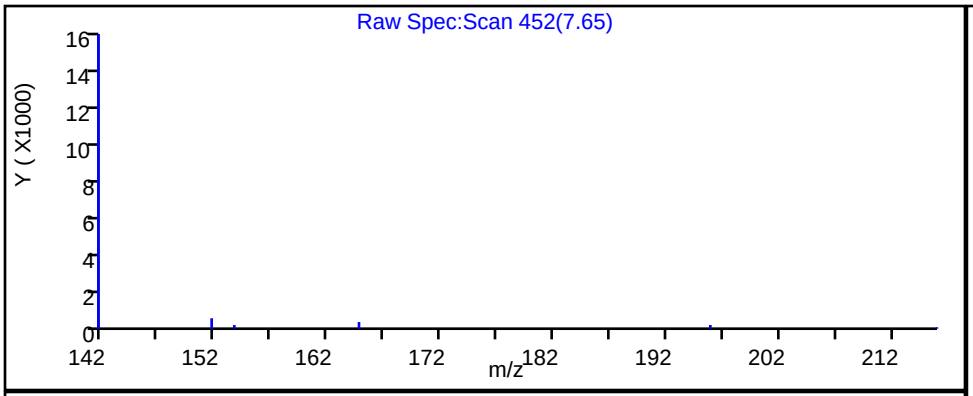


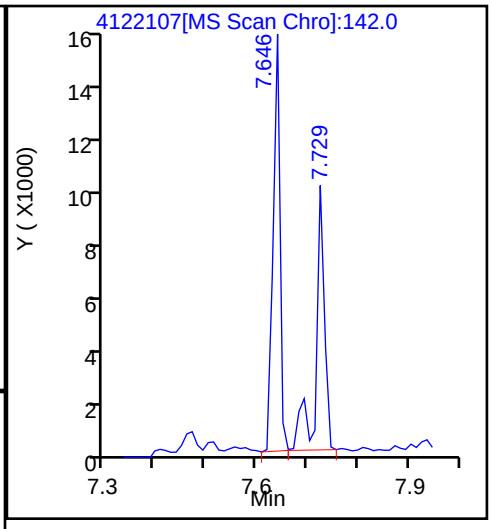
Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

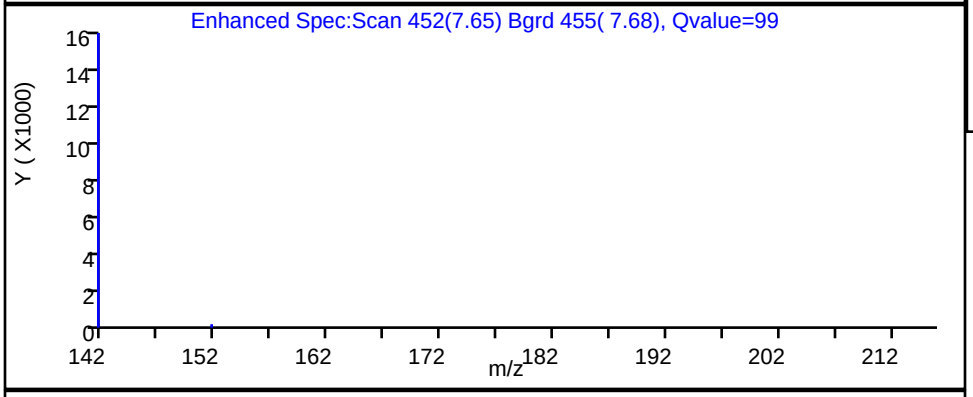
Shealy Environmental Services

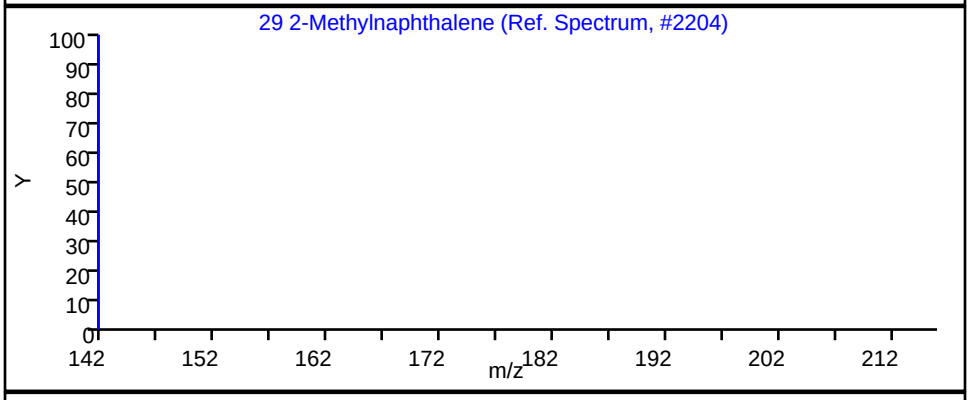
Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122107.D		
Injection Date:	21-Dec-2015 11:11:30	Inst. ID:	msd4.i
Client ID:	F6R21	Lab ID:	QL12004-003
Sample Info:	4122115, QL12004-003		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

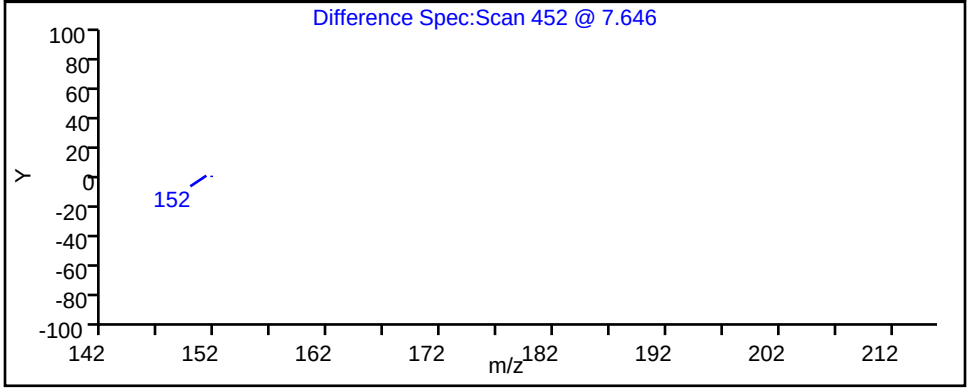
29 2-Methylnaphthalene











FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R23

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-004
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 4122108
% Solids: 84.1
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	40	U
91-20-3	Naphthalene	9900	E B
91-57-6	2-Methylnaphthalene	22000	E B
208-96-8	Acenaphthylene	40	U
83-32-9	Acenaphthene	40	U
86-73-7	Fluorene	980	
87-86-5	Pentachlorophenol	78	U
85-01-8	Phenanthrene	8300	E
120-12-7	Anthracene	40	U
206-44-0	Fluoranthene	150	
129-00-0	Pyrene	5300	E
56-55-3	Benzo(a)anthracene	1500	
218-01-9	Chrysene	4100	E
205-99-2	Benzo(b)fluoranthene	1000	
207-08-9	Benzo(k)fluoranthene	120	
50-32-8	Benzo(a)pyrene	950	
193-39-5	Indeno(1,2,3-cd)pyrene	94	
53-70-3	Dibenzo(a,h)anthracene	100	
191-24-2	Benzo(g,h,i)perylene	180	
132-64-9	Dibenzofuran	40	U
118-74-1	Hexachlorobenzene	40	U
87-68-3	Hexachlorobutadiene	78	U
111-44-4	bis(2-Chloroethyl)ether	78	U
108-60-1	2,2'-Oxybis(1-chloropropane)	78	U
621-64-7	N-Nitrosodi-n-propylamine	40	U
67-72-1	Hexachloroethane	78	U
98-95-3	Nitrobenzene	78	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R23

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-004
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 4122108
% Solids: 84.1
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	78	U
88-06-2	2,4,6-Trichlorophenol	78	U
92-52-4	1,1'-Biphenyl	40	U
606-20-2	2,6-Dinitrotoluene	40	U
51-28-5	2,4-Dinitrophenol	780	U
121-14-2	2,4-Dinitrotoluene	40	U
534-52-1	4,6-Dinitro-2-methylphenol	78	U
95-94-3	1,2,4,5-Tetrachlorobenzene	78	U
1912-24-9	Atrazine	78	U
91-94-1	3,3'-Dichlorobenzidine	78	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
Lab Sample ID:	QL12004-004	Client Sample ID:	F6R23
Injection Date:	21-Dec-2015 11:37:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, QL12004-004		
Misc. Info:	92513 20X		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544.m		
Method Date:	04-Jan-2016 15:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	6
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.200	Weight of sample extracted (g)
M	15.900	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	21-Dec-2015 14:23:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.744	3.762	-0.018	1499	0.008176	6.4382	eR
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.727		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.771		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	127755	0.40000	314.98	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.186		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.290		ND			
15 Hexachloroethane	117.0		6.436		ND			
$ 16 Nitrobenzene-d5	128.0		6.457		ND			
17 Nitrobenzene	77.0		6.467		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.908	6.926	-0.018	9843	0.03705	29.178	eR
* 23 Naphthalene-d8	136.0	7.066	7.057	0.009	460012	0.40000	314.98	M
24 Naphthalene	128.0	7.083	7.075	0.008	14979796	12.556	9887.23	E
25 4-Chloroaniline	127.0		7.075		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0		7.615		ND			
29 2-Methylnaphthalene	142.0	7.677	7.646	0.031	19866282	28.202	22208	E
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.317		ND			
38 Acenaphthylene	152.0		8.425		ND			
* 41 Acenaphthene-d10	164.0	8.564	8.533	0.031	413212	0.40000	314.98	MI

Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122108.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.657		ND			
45 Dibenzofuran	168.0		8.718		ND			
48 Fluorene	166.0	9.027	8.996	0.031	1825700	1.2493	983.78	M
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0		9.484		ND			
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.838	9.807	0.031	500920	0.40000	314.98	M
59 Phenanthrene	178.0	9.848	9.828	0.020	14355747	10.523	8286.41	EM
60 Anthracene	178.0		9.880		ND			
$ 116 Flouranthene-d10	212.0		10.941		ND			
63 Fluoranthene	202.0	10.950	10.959	-0.009	282600	0.19088	150.31	M
64 Pyrene	202.0	11.255	11.221	0.034	13721712	6.7892	5346.18	E
68 3,3'-Dichlorobenzidine	252.0		12.661		ND			
67 Benzo(a)anthracene	228.0	12.792	12.748	0.044	3526300	1.9271	1517.47	
* 69 Chrysene-d12	240.0	12.809	12.766	0.043	737141	0.40000	314.98	I
70 Chrysene	228.0	12.853	12.810	0.043	9474343	5.2162	4107.55	E
73 Benzo(b)fluoranthene	252.0	14.480	14.429	0.051	907854	1.3198	1039.31	M
74 Benzo(k)fluoranthene	252.0	14.513	14.473	0.040	108345	0.15843	124.76	M
75 Benzo(a)pyrene	252.0	15.051	15.000	0.051	759596	1.2062	949.83	
* 76 Perylene-d12	264.0	15.150	15.103	0.047	228262	0.40000	314.98	
77 Indeno(1,2,3-cd)pyrene	276.0	17.386	17.345	0.041	85092	0.11999	94.490	
78 Dibenzo(a,h)anthracene	278.0	17.397	17.360	0.037	81269	0.13169	103.70	
79 Benzo(g,h,i)perylene	276.0	18.074	18.030	0.044	137464	0.23131	182.15	

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

E - Compound Concentration Exceeds Max. Calibration Range

R - Spike/Surrogte Fails %Recovery Test

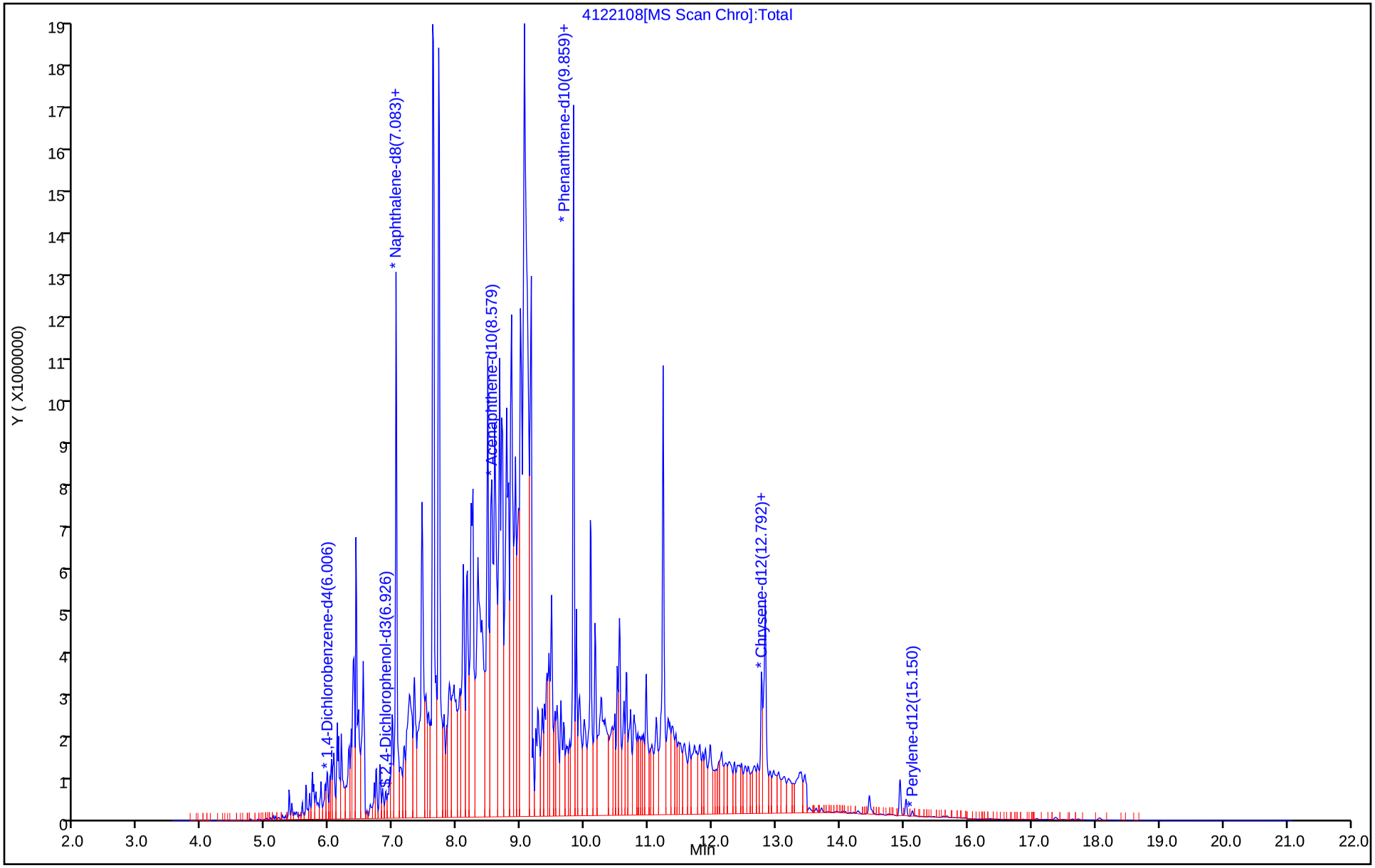
I - Istd Fails Area Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D				
Injection Date:	21-Dec-2015 11:37:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R23	Lab ID:	QL12004-004		
Sample Info:	4122115, QL12004-004				
Injection Vol.	2.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

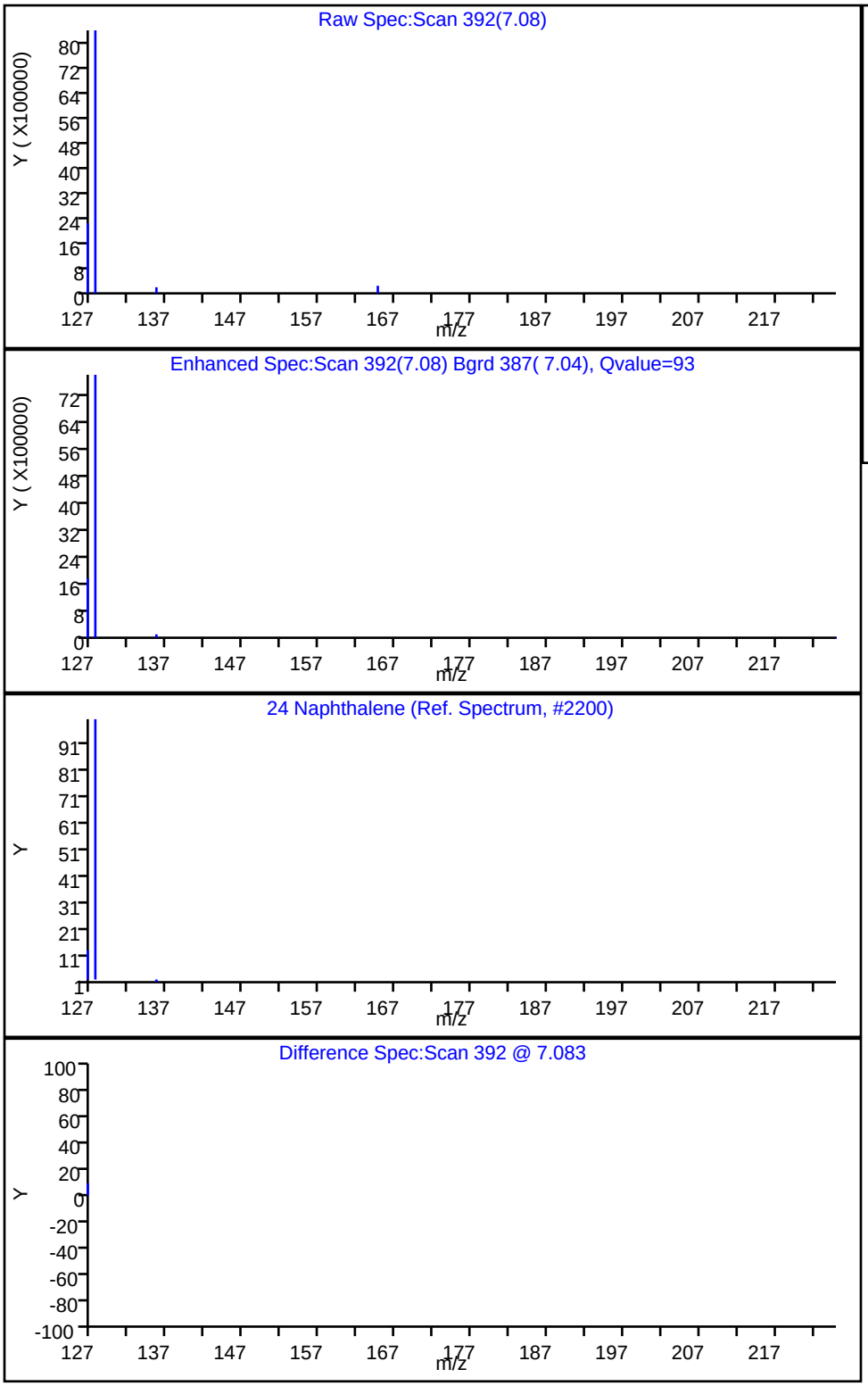


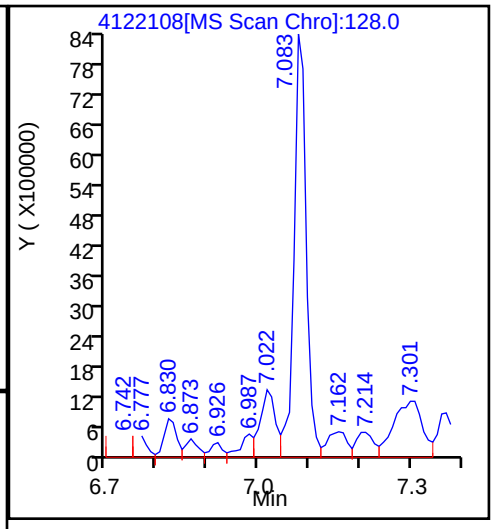
Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
Injection Date:	21-Dec-2015 11:37:30	Inst. ID:	msd4.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene



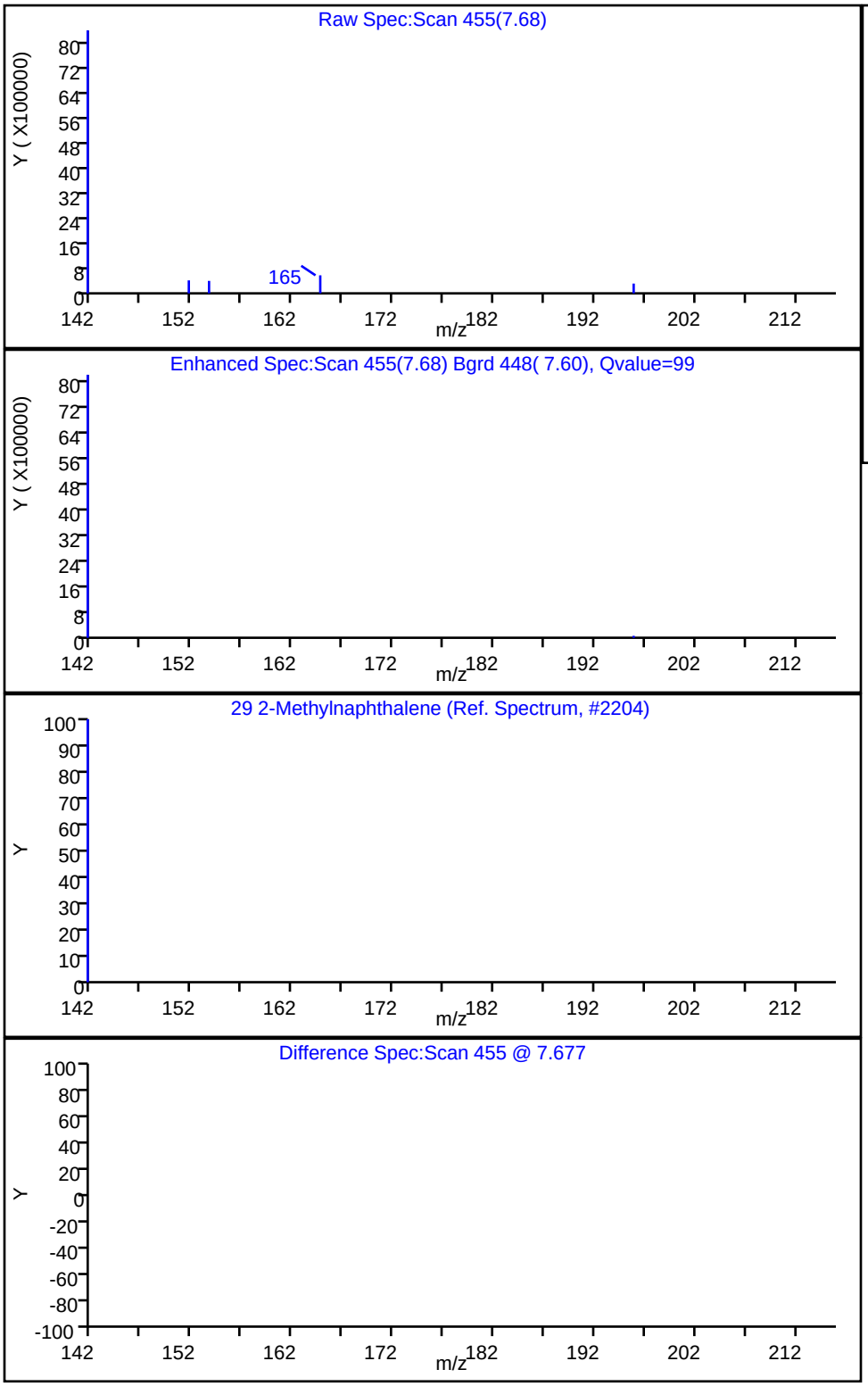


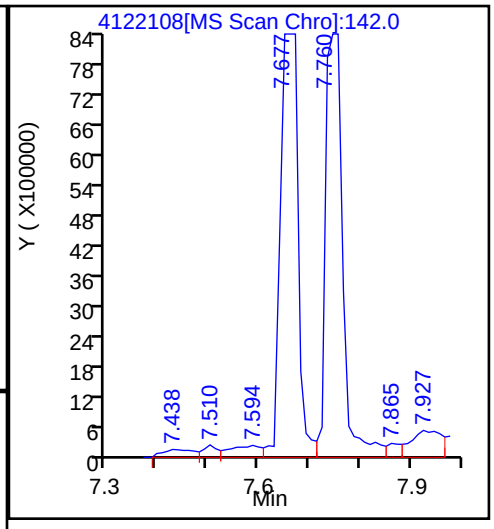
Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
Injection Date:	21-Dec-2015 11:37:30	Inst. ID:	msd4.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene



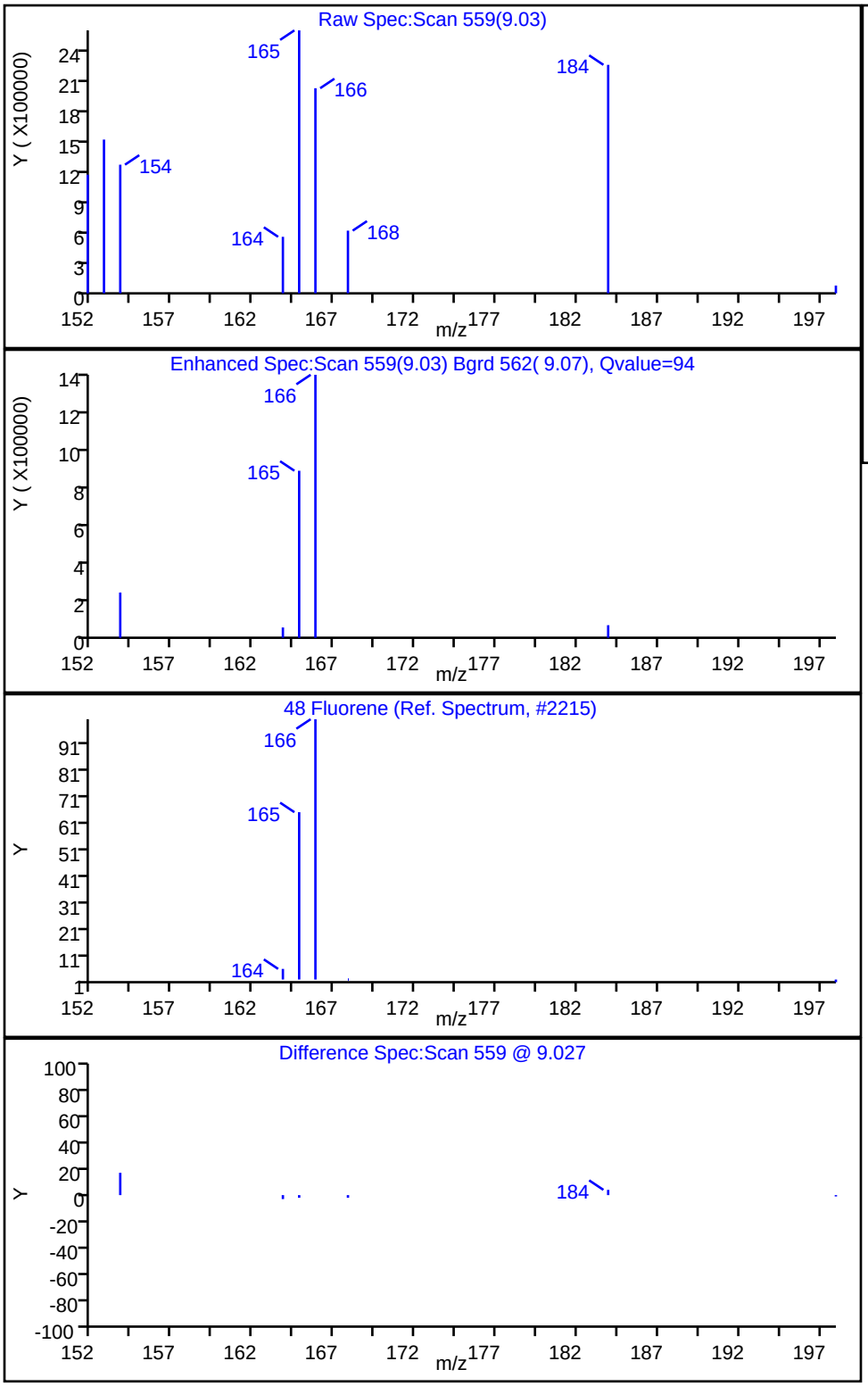


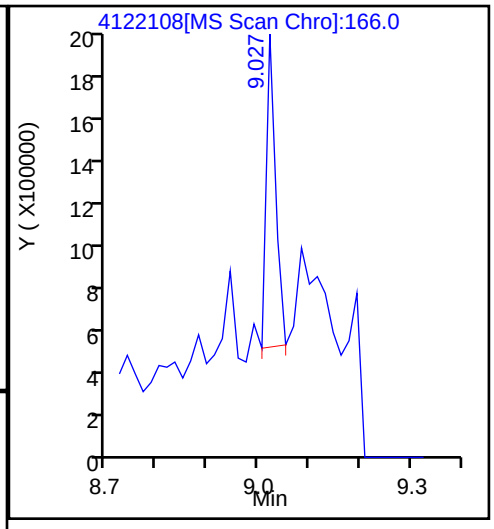
Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
Injection Date:	21-Dec-2015 11:37:30	Inst. ID:	msd4.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene



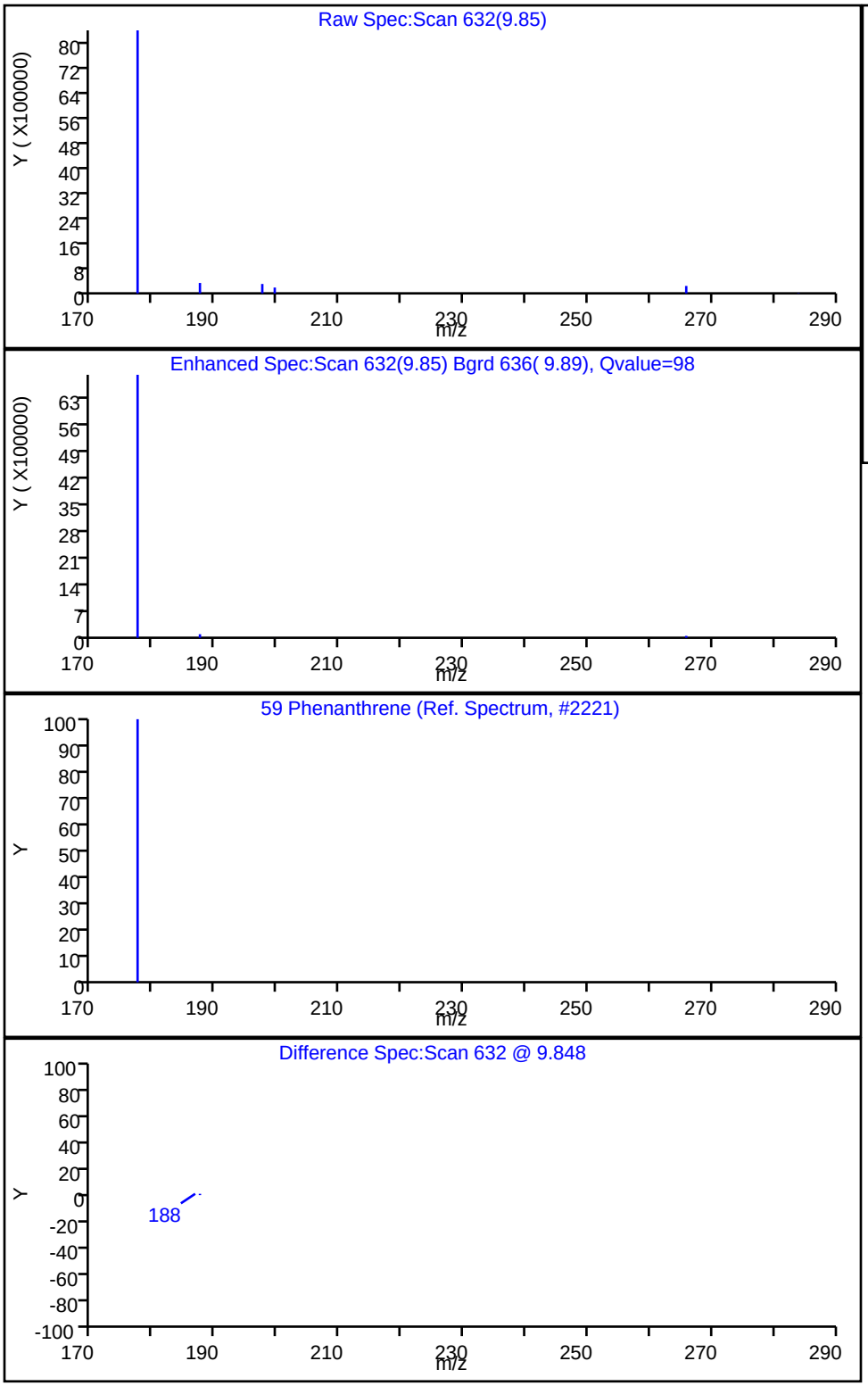


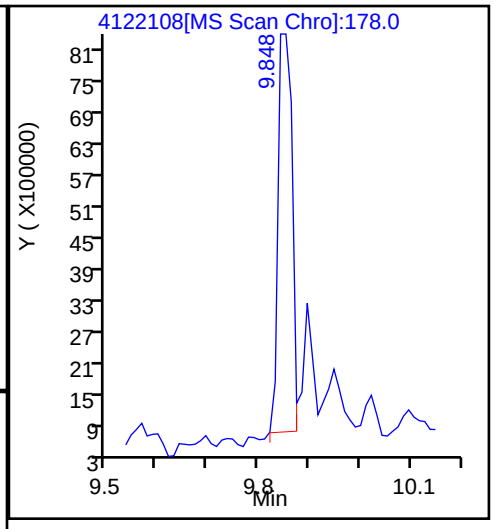
Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
Injection Date:	21-Dec-2015 11:37:30	Inst. ID:	msd4.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene





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Shealy Environmental Services

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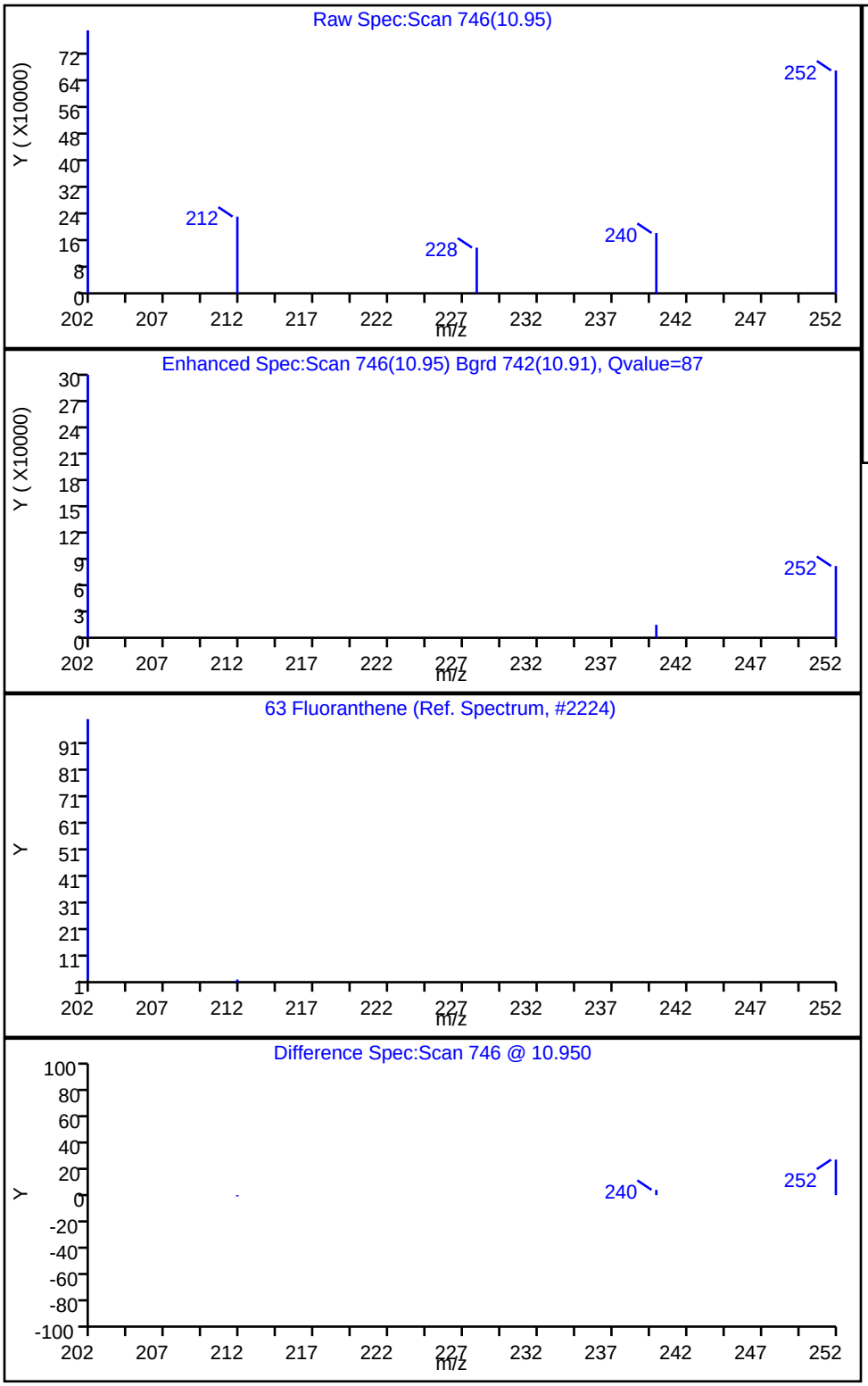
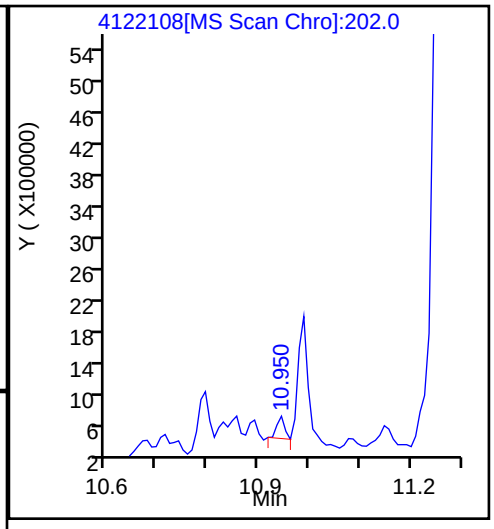
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

63 Fluoranthene





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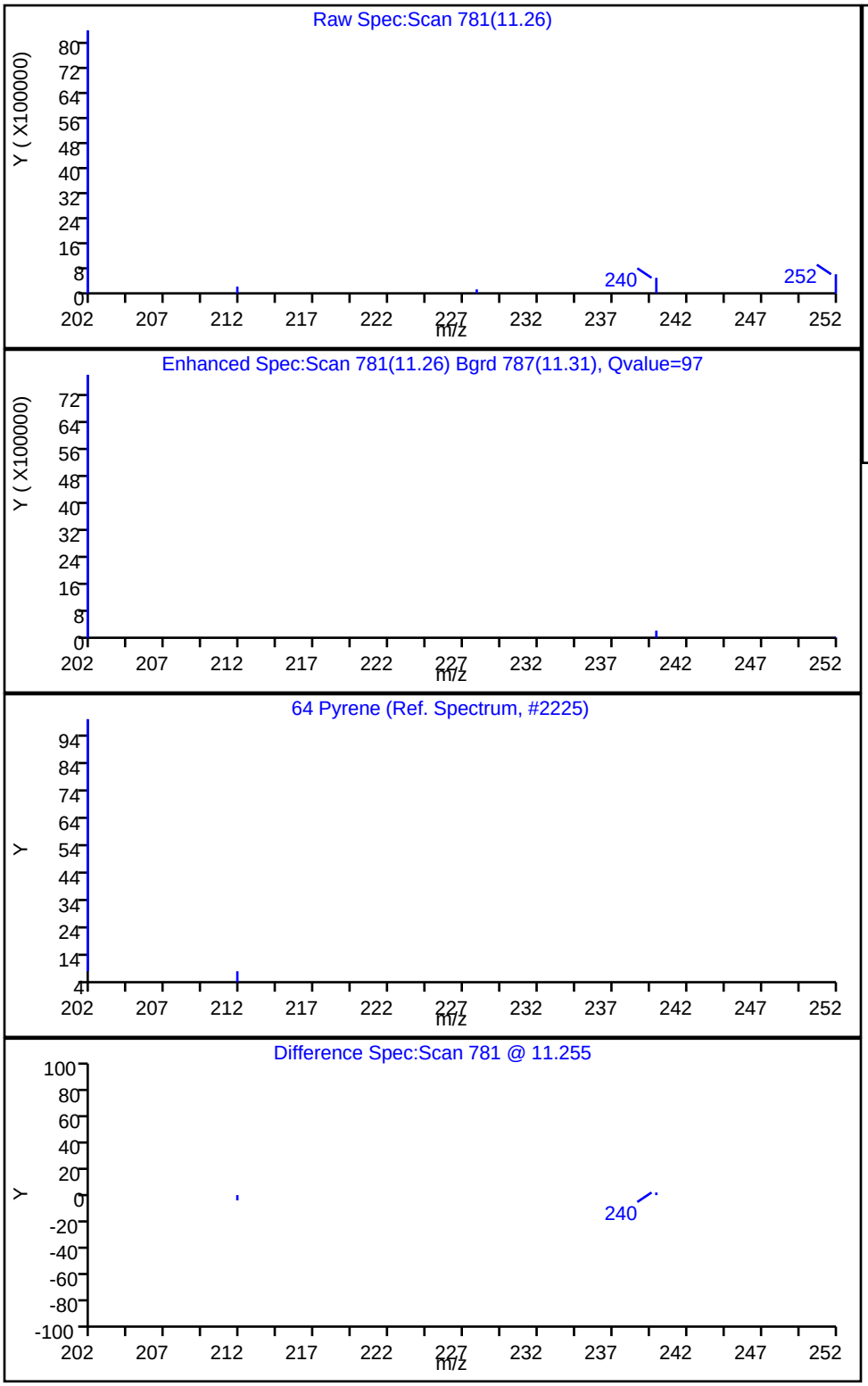
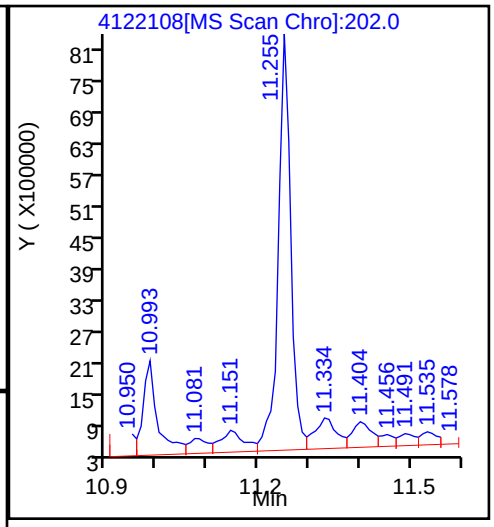
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

64 Pyrene





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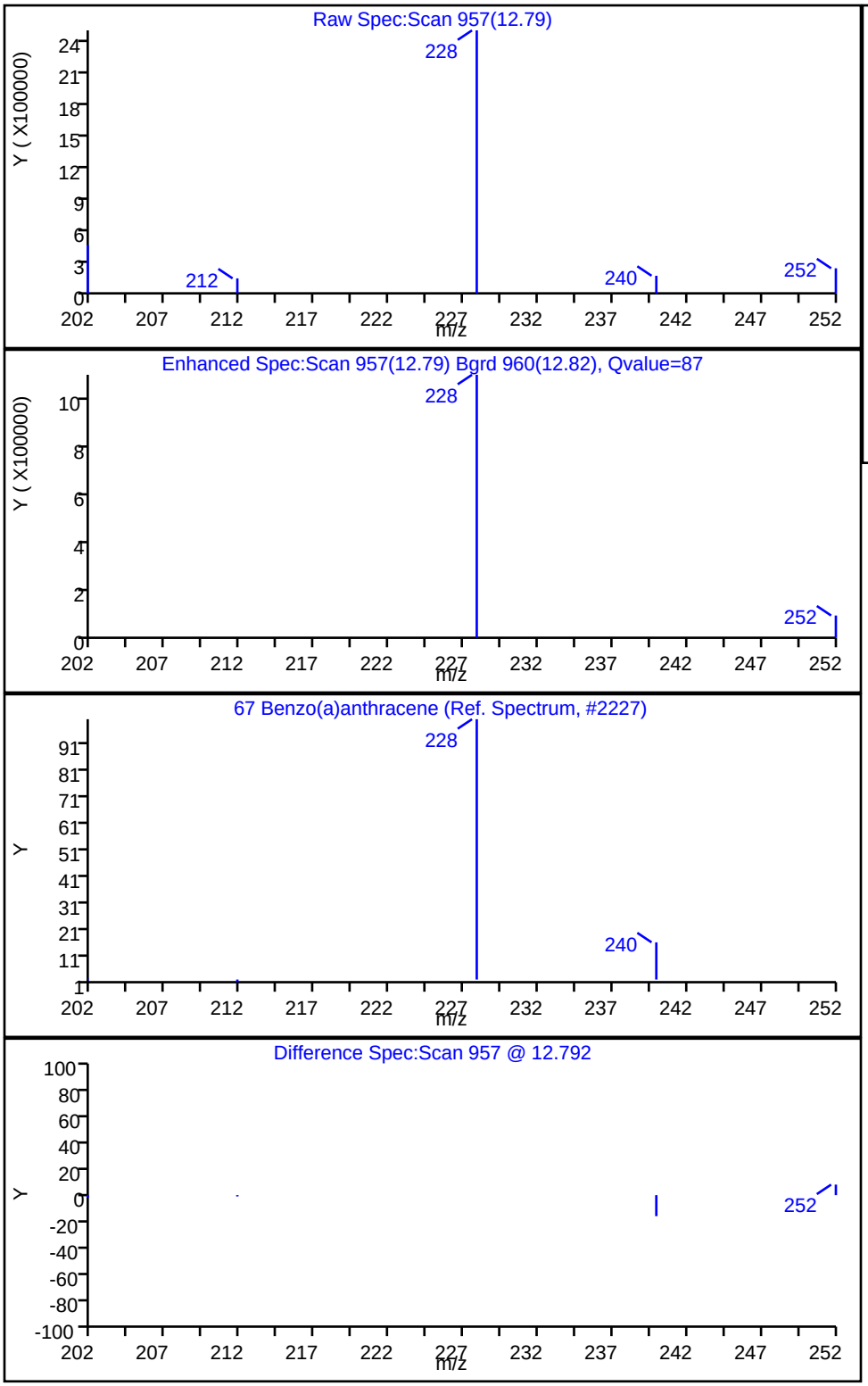
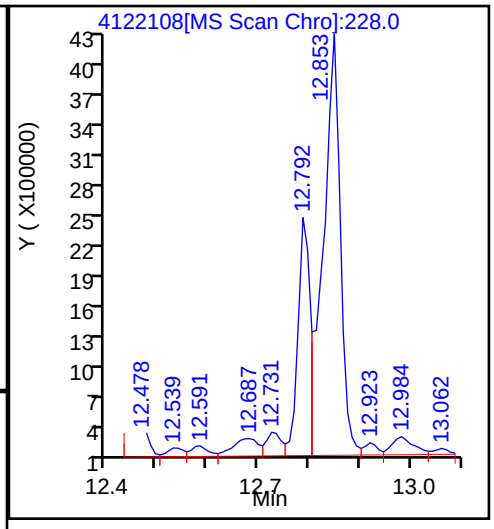
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

67 Benzo(a)anthracene





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Shealy Environmental Services

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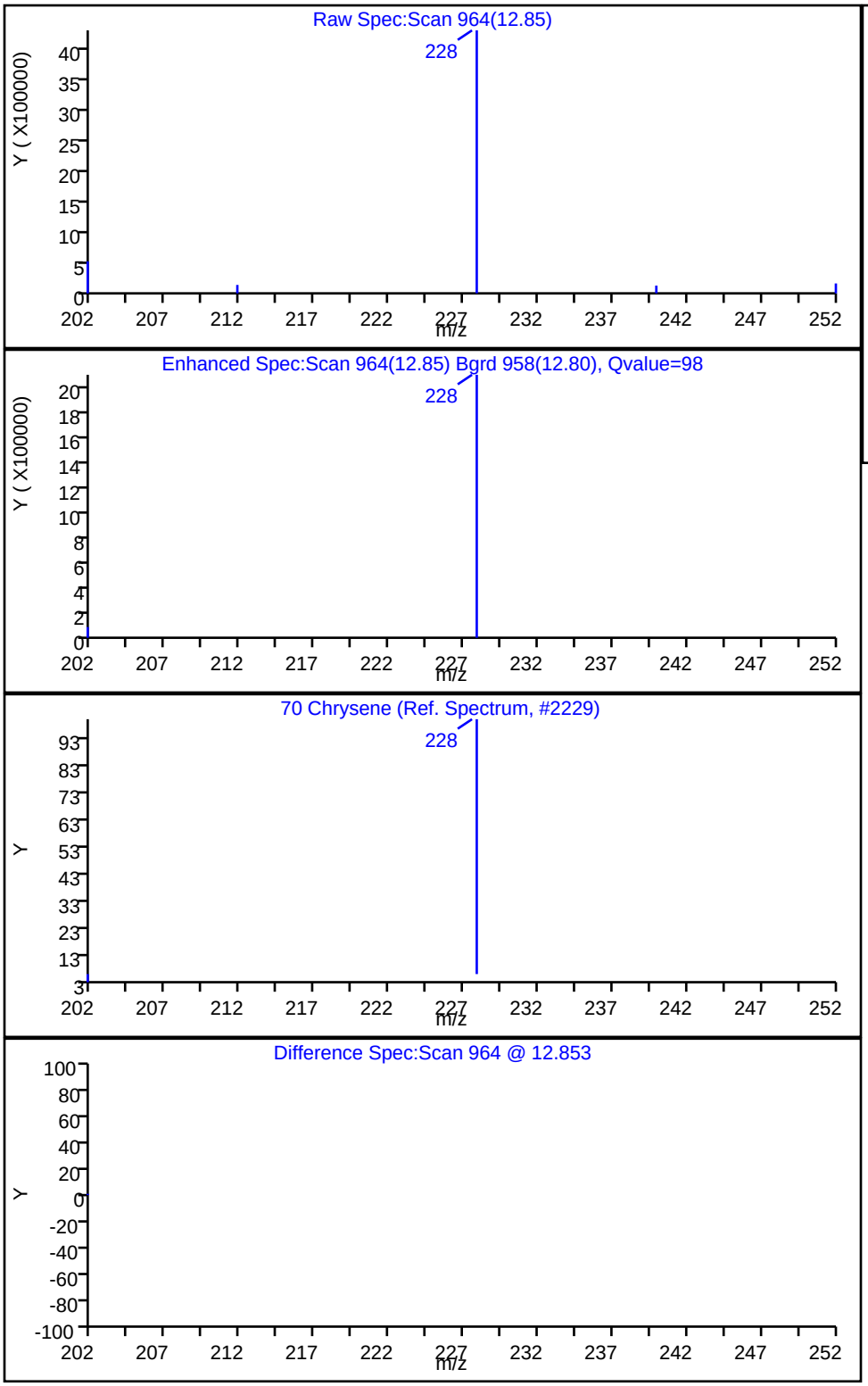
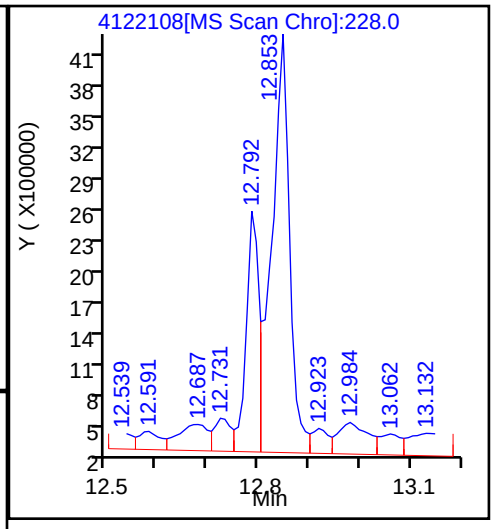
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene





Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

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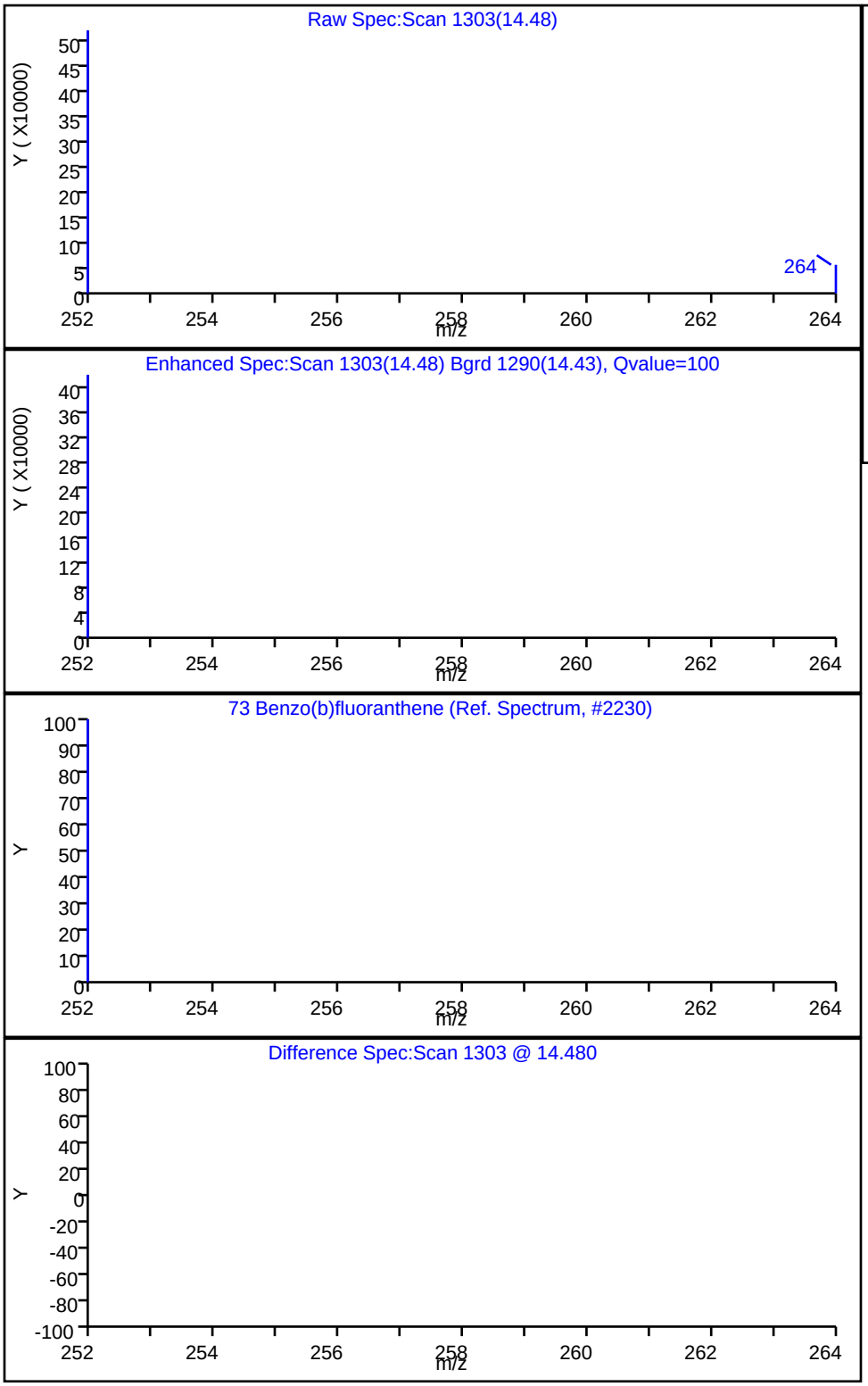
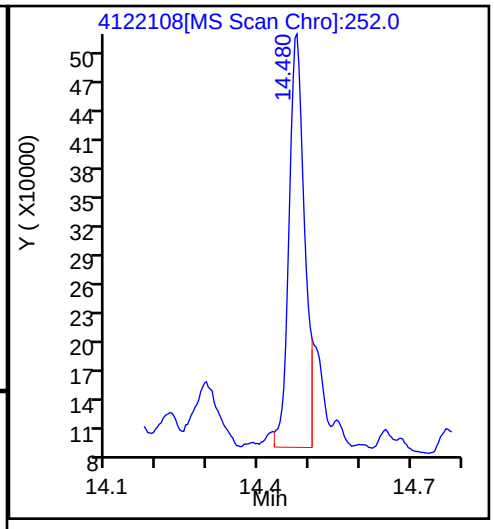
Injection Date:	21-Dec-2015 11:37:30	Inst. ID:	msd4.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

73 Benzo(b)fluoranthene





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Shealy Environmental Services

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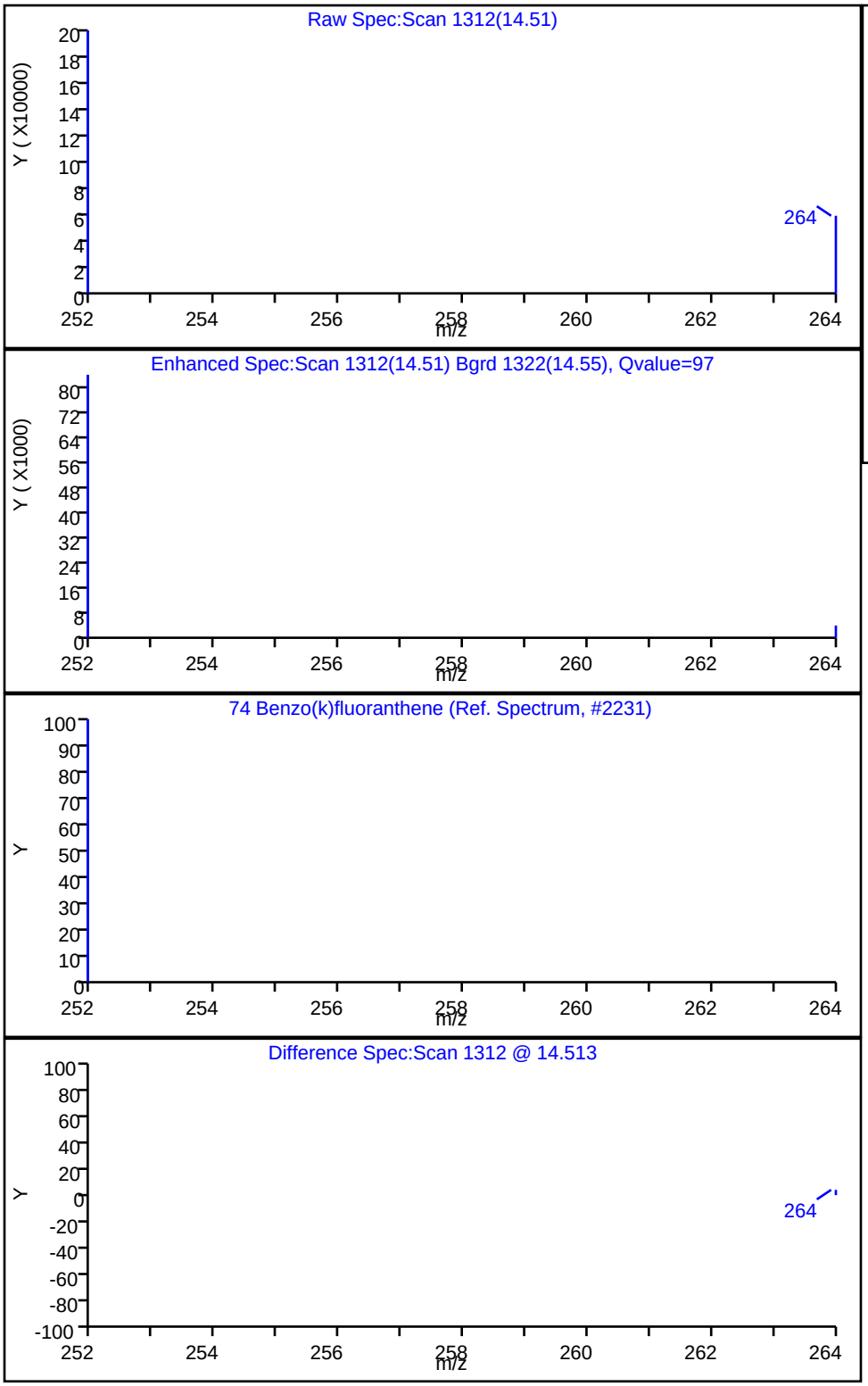
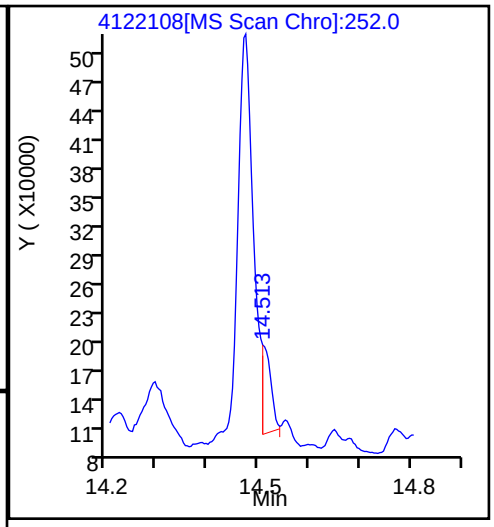
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

74 Benzo(k)fluoranthene





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Shealy Environmental Services

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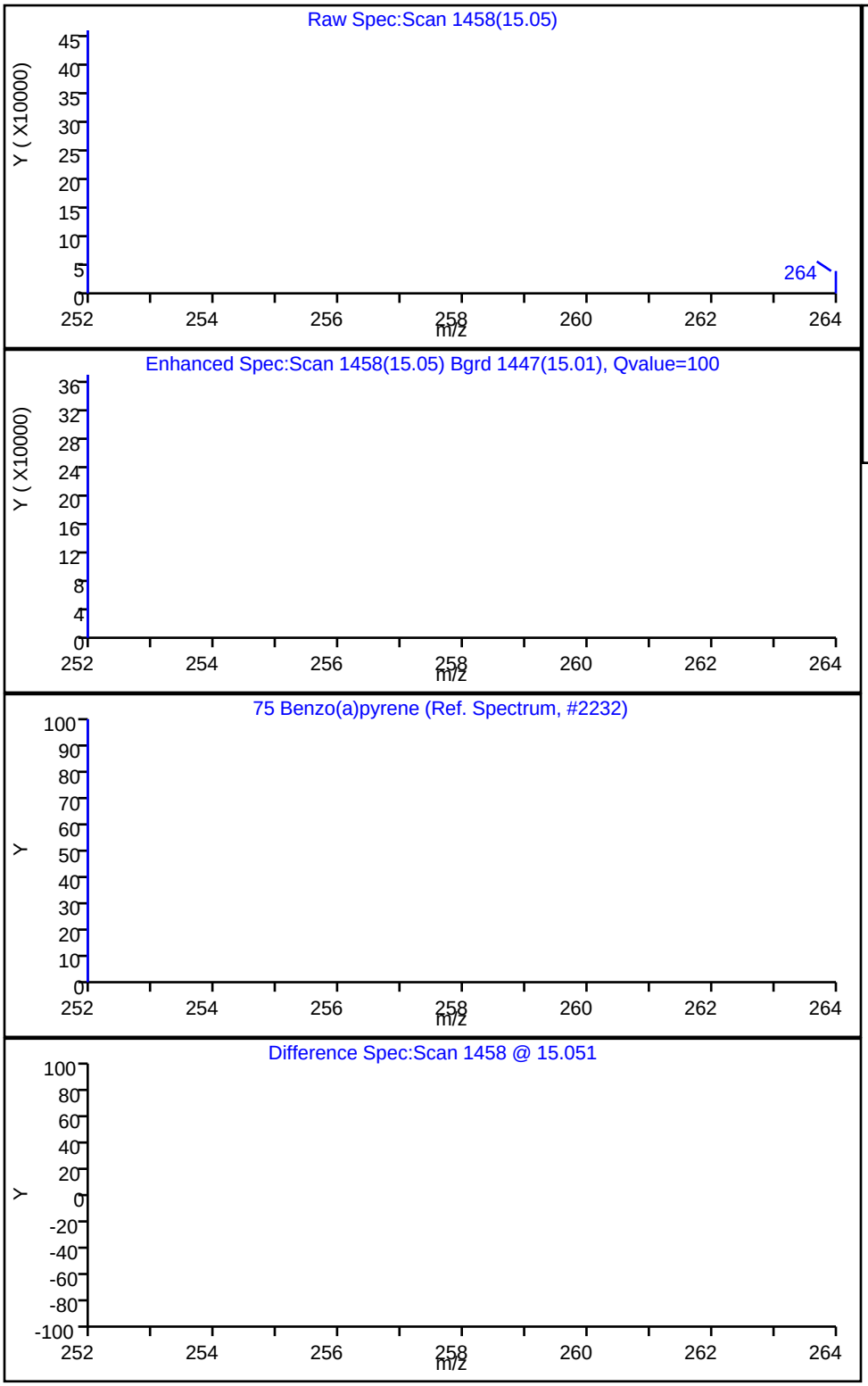
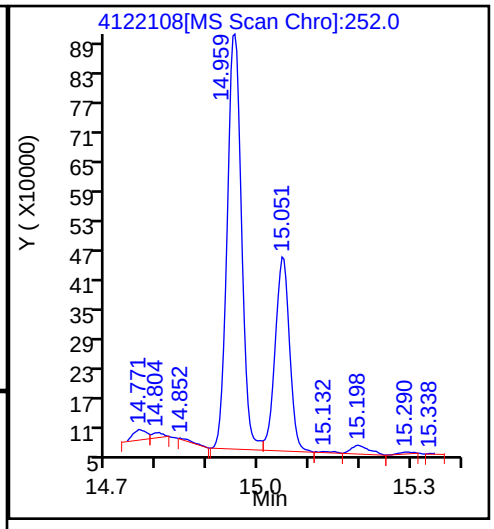
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

75 Benzo(a)pyrene





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Shealy Environmental Services

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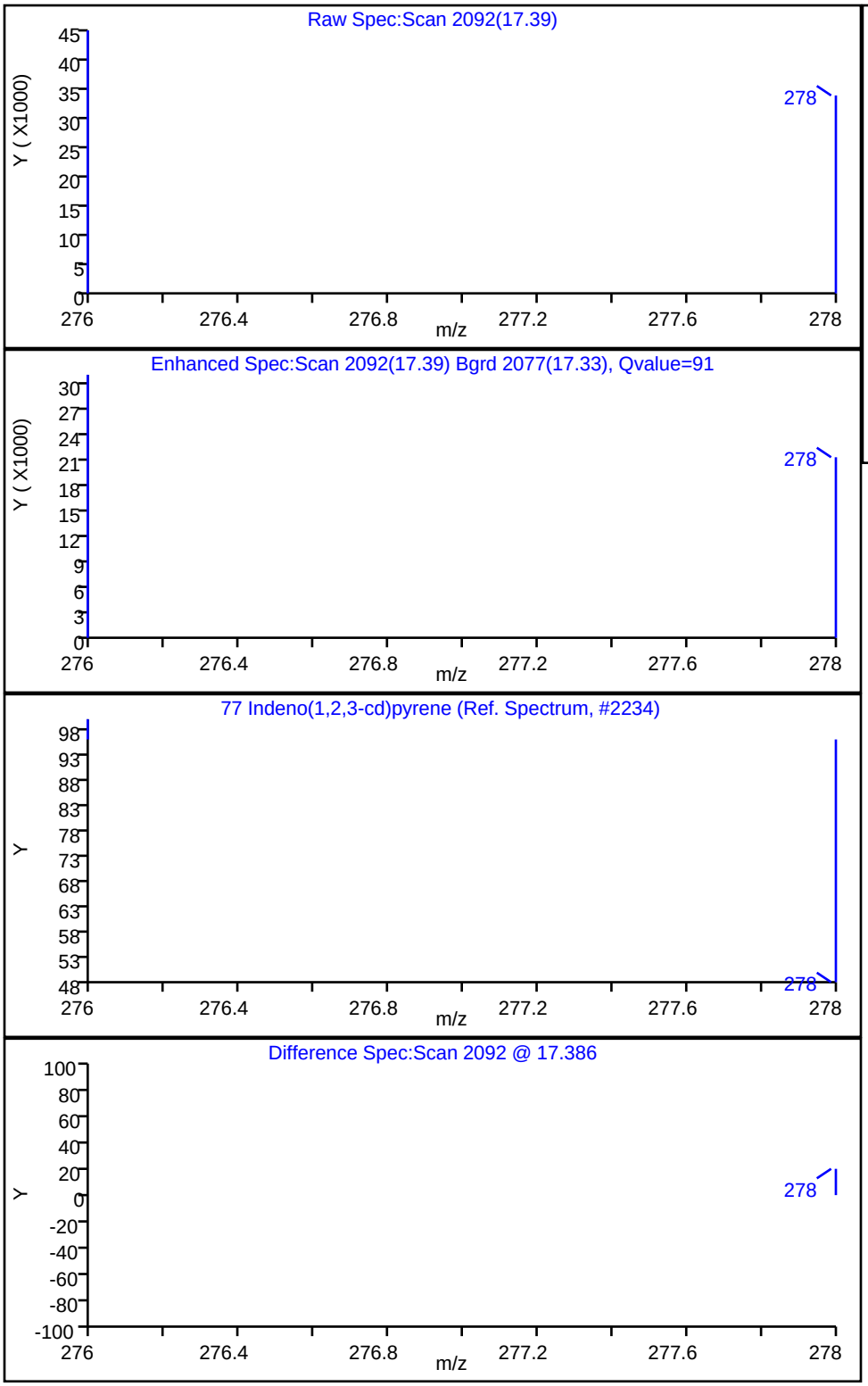
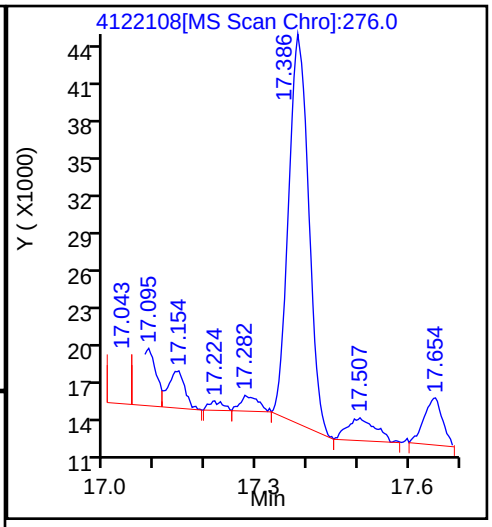
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

77 Indeno(1,2,3-cd)pyrene





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Shealy Environmental Services

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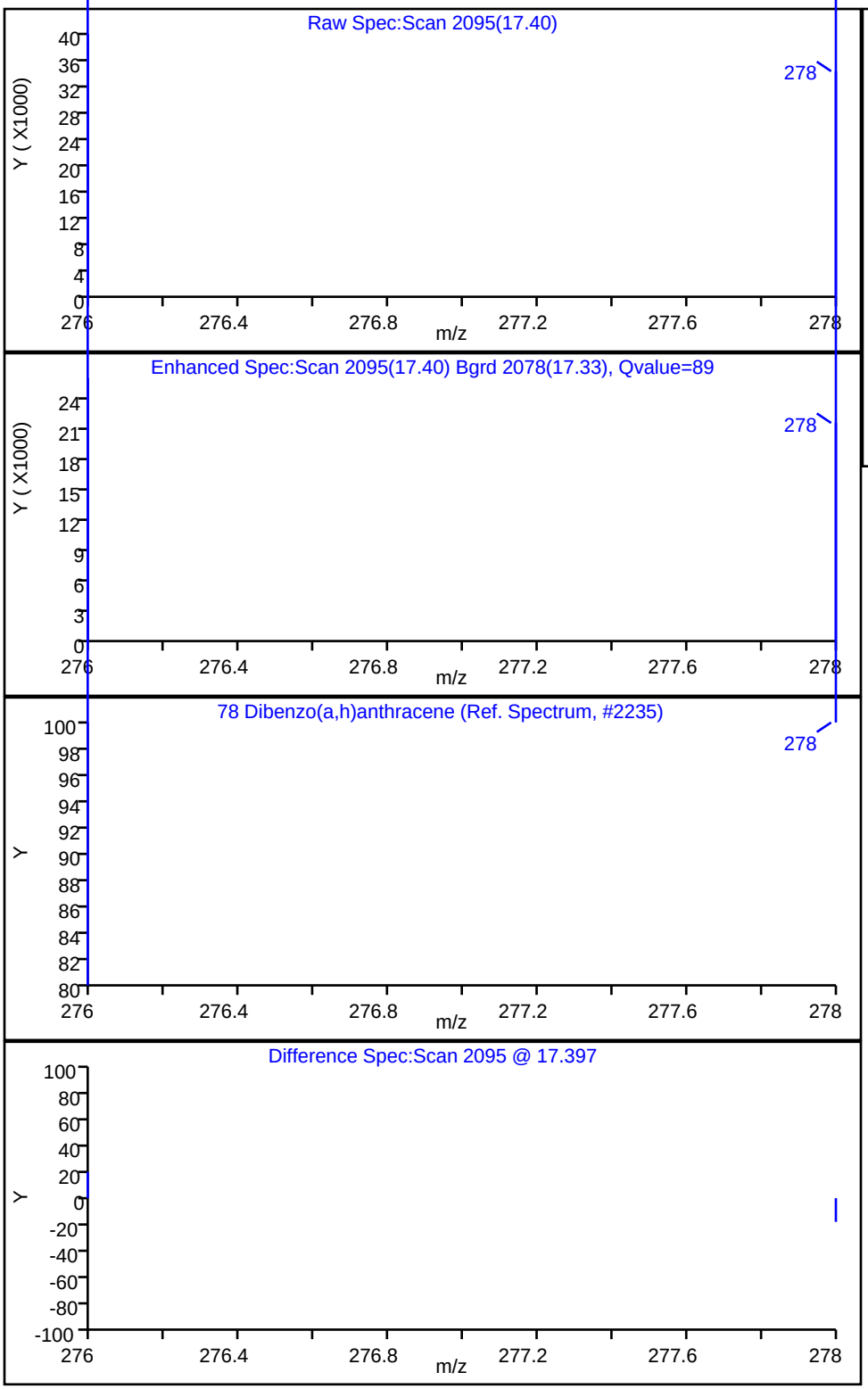
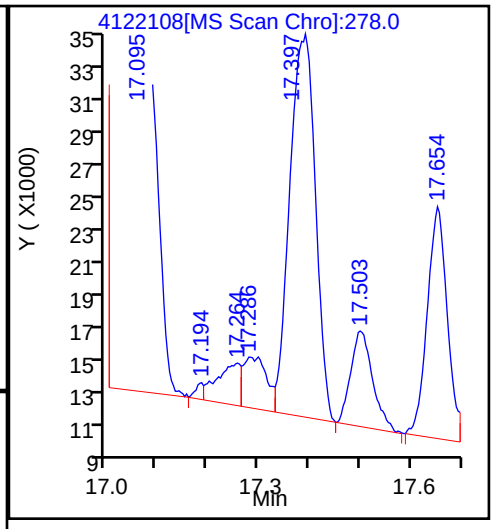
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

78 Dibenzo(a,h)anthracene





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Shealy Environmental Services

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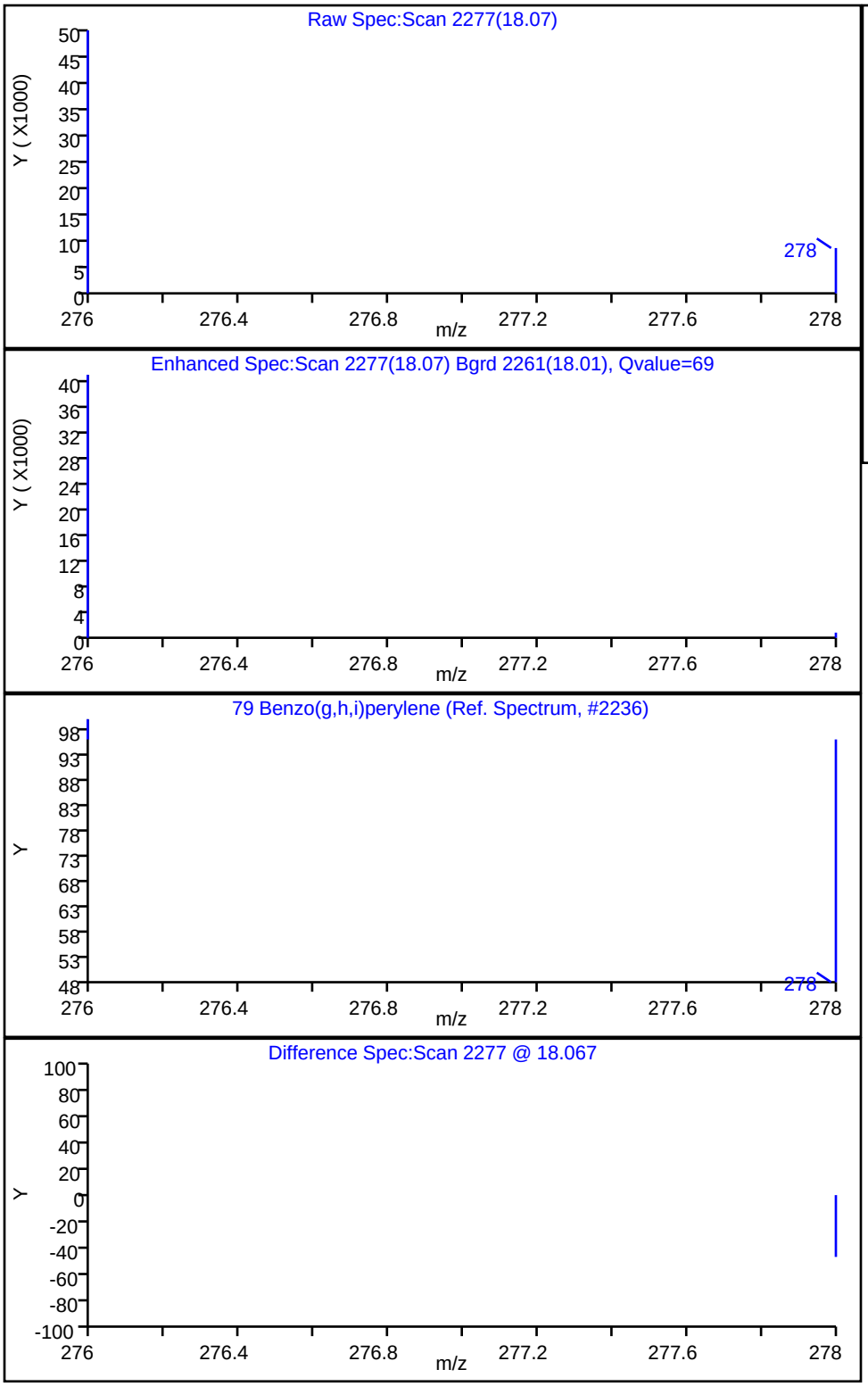
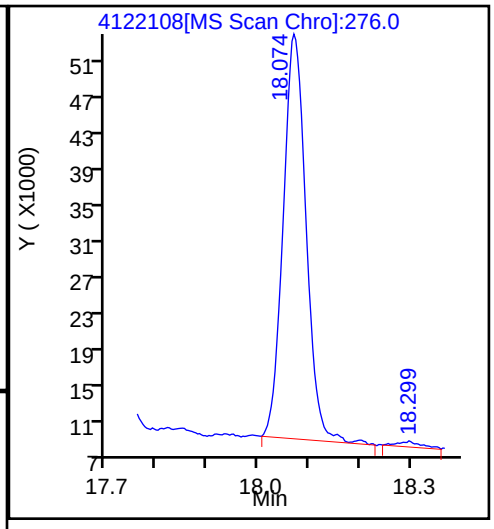
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

79 Benzo(g,h,i)perylene





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Shealy Environmental Services

Manual Integration Report

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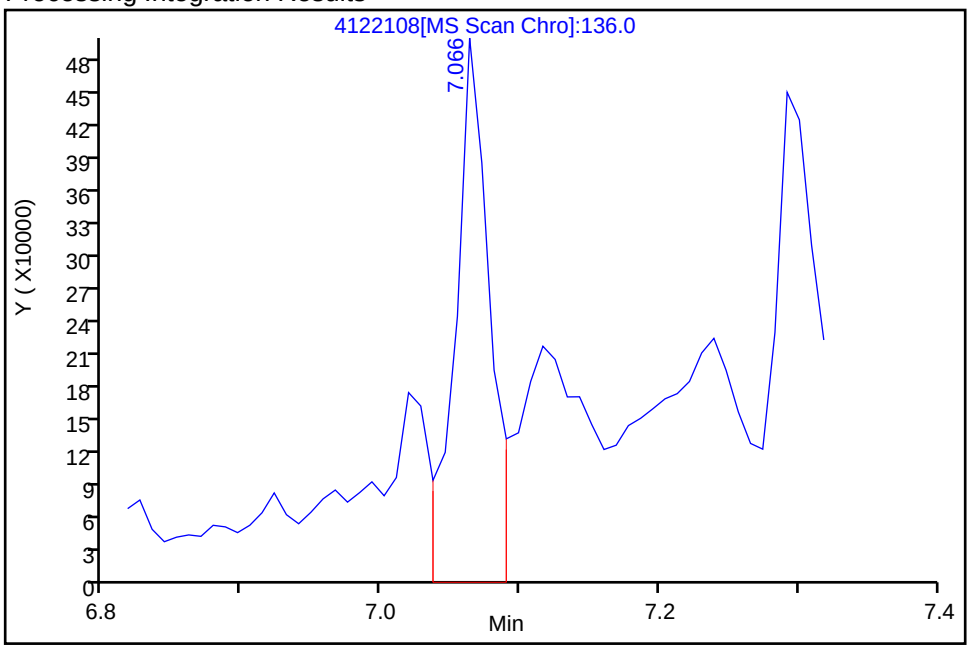
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 23 Naphthalene-d8, CAS: 1146-65-2

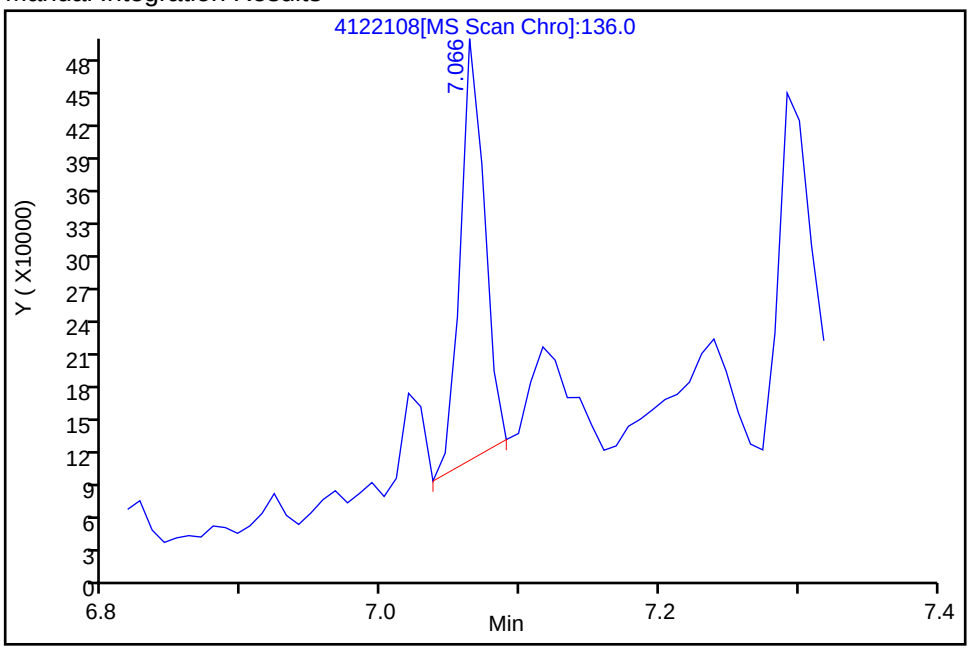
Processing Integration Results

RT: 7.066
Area: 878336
Conc: 157.49
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 7.066
Area: 460012
Conc: 314.98
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:19:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
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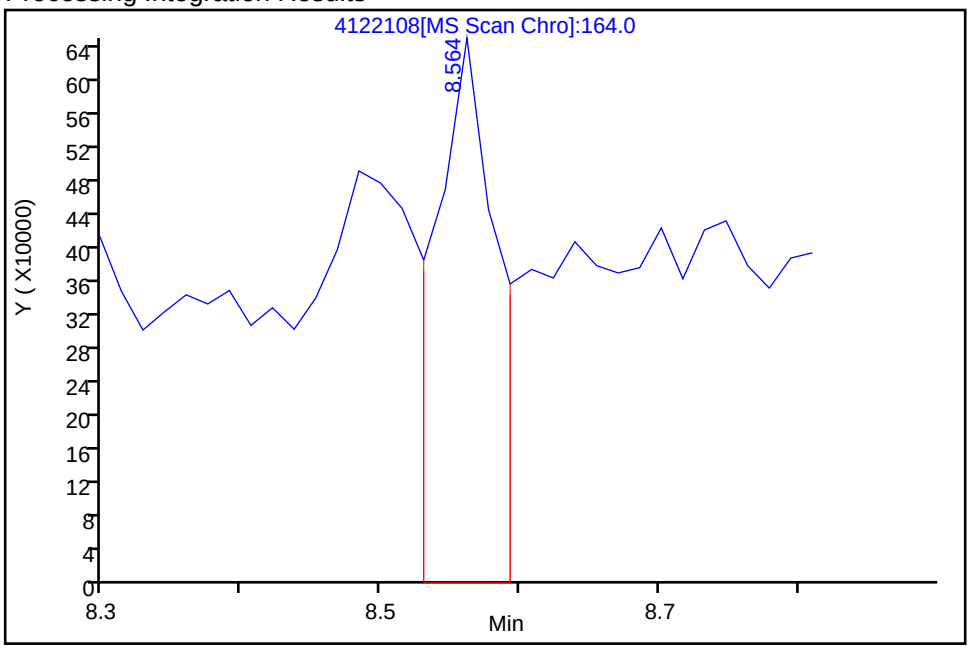
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 41 Acenaphthene-d10, CAS: 15067-26-2

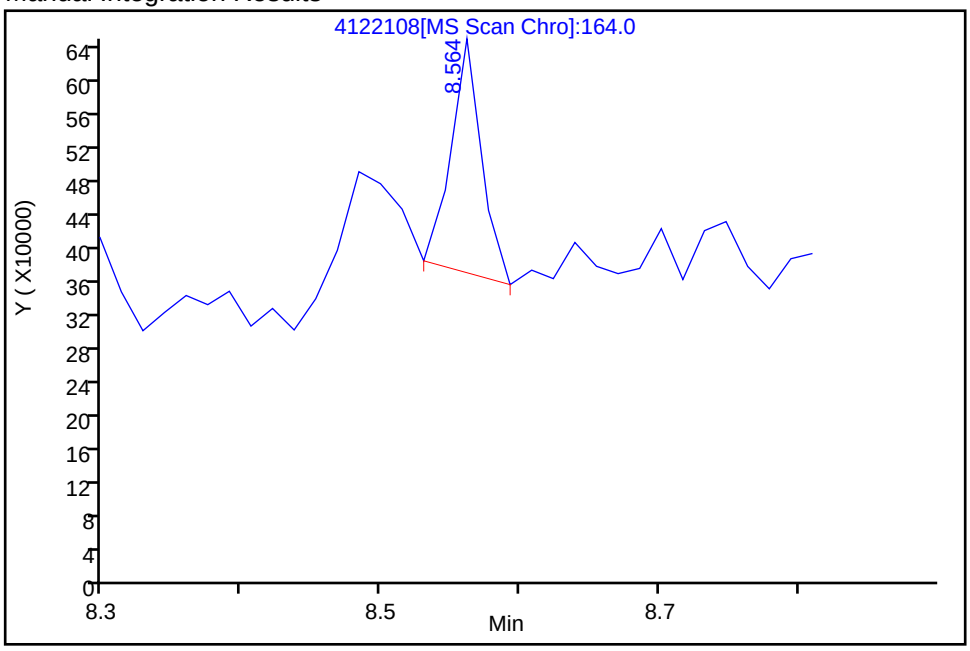
Processing Integration Results

RT: 8.564
Area: 1521847
Conc: 157.49
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 8.564
Area: 413212
Conc: 314.98
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:19:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
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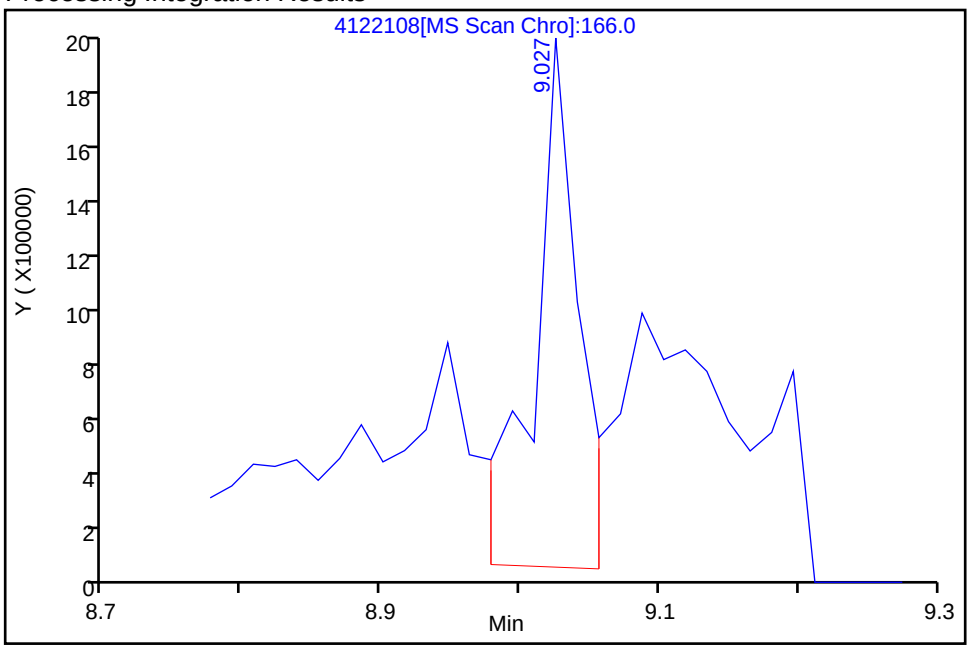
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene, CAS: 86-73-7

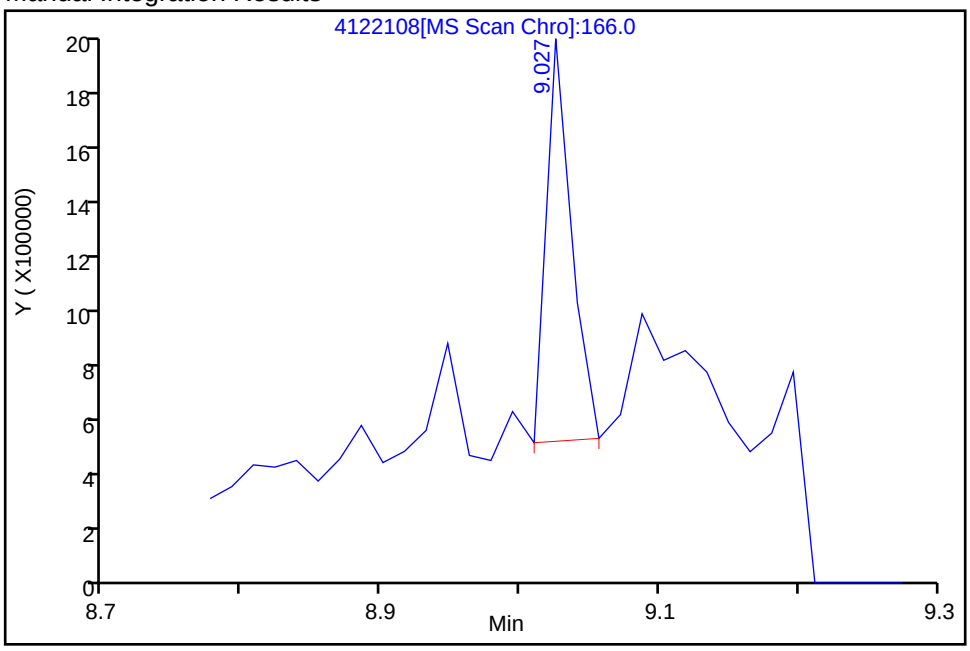
Processing Integration Results

RT: 9.027
Area: 3444693
Conc: 251.99
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 9.027
Area: 1825700
Conc: 983.78
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:21:30
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Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
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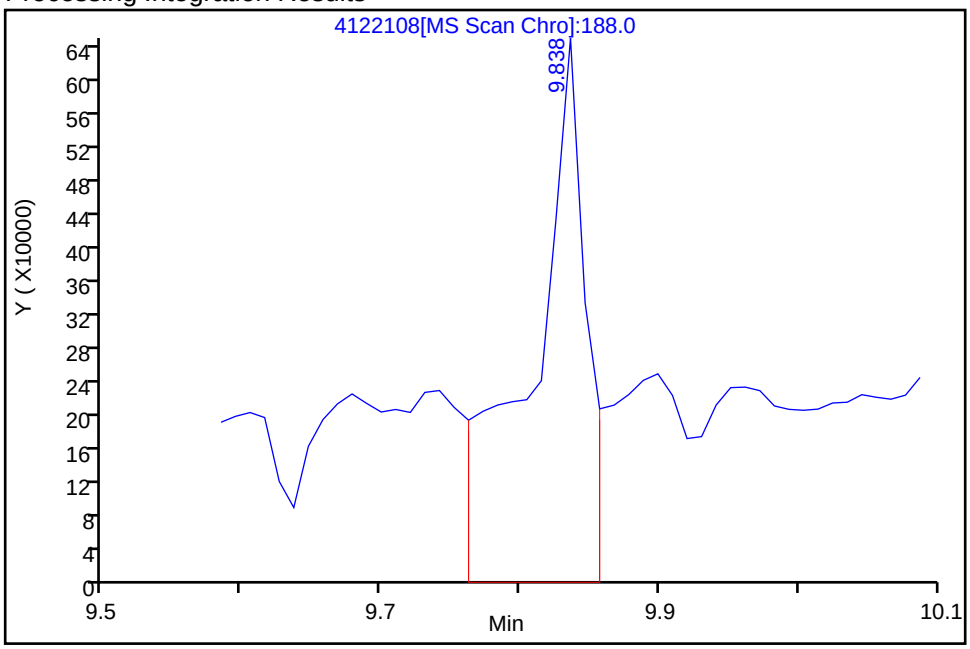
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 58 Phenanthrene-d10, CAS: 1517-22-2

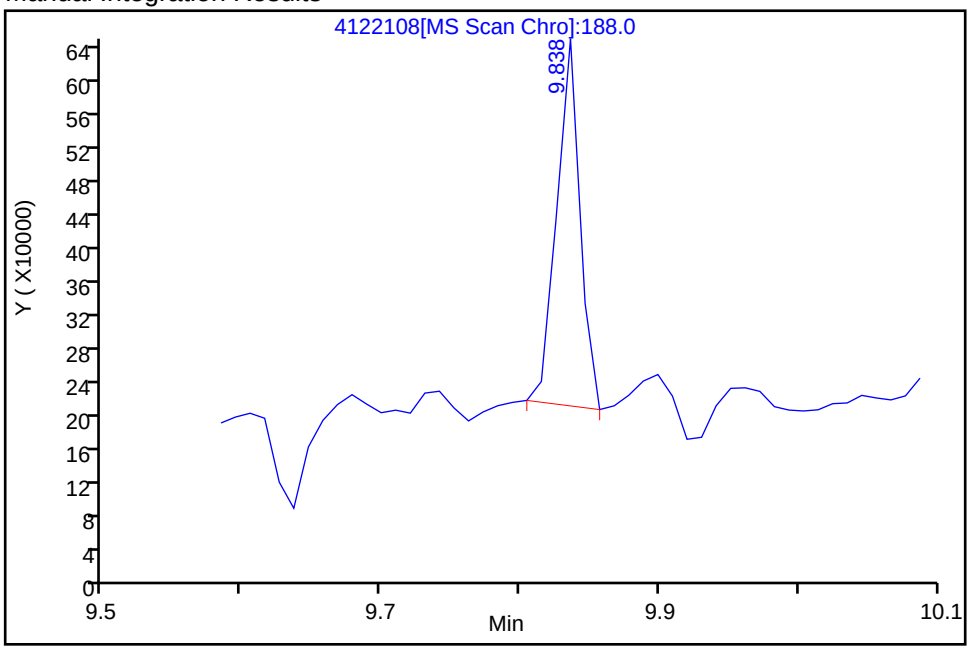
Processing Integration Results

RT: 9.838
Area: 1725992
Conc: 157.49
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 9.838
Area: 500920
Conc: 314.98
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:19:30
Audit Action: Mint
Audit Reason: IAI

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Shealy Environmental Services

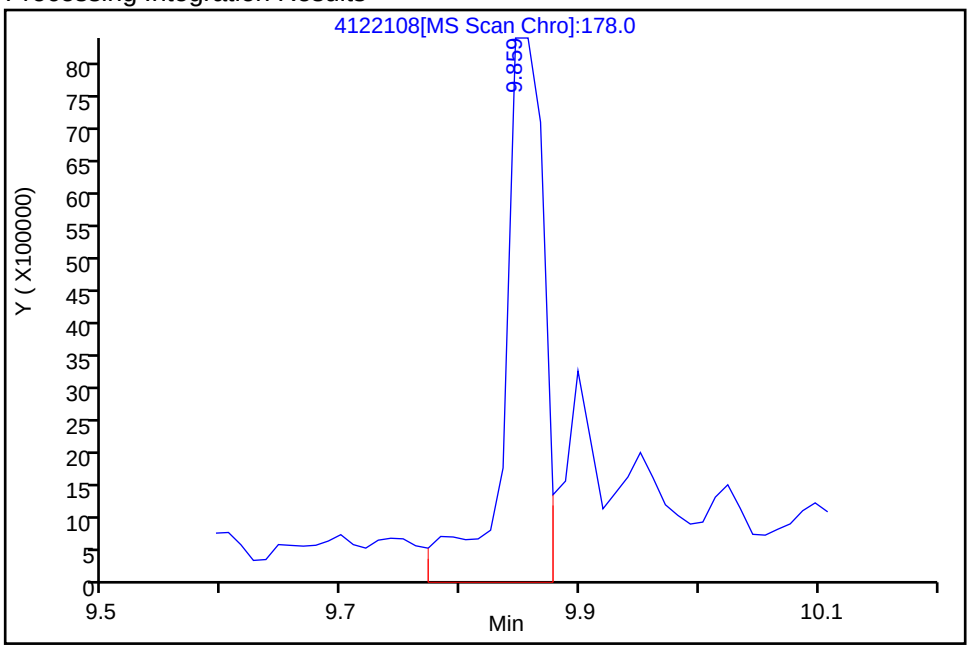
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
Injection Date:	21-Dec-2015 11:37:30	Inst. ID:	msd4.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene, CAS: 85-01-8

Processing Integration Results

RT:	9.859
Area:	19223884
Conc:	1610.21
Conc Units:	ug/Kg
Conc:	



Manual Integration Results

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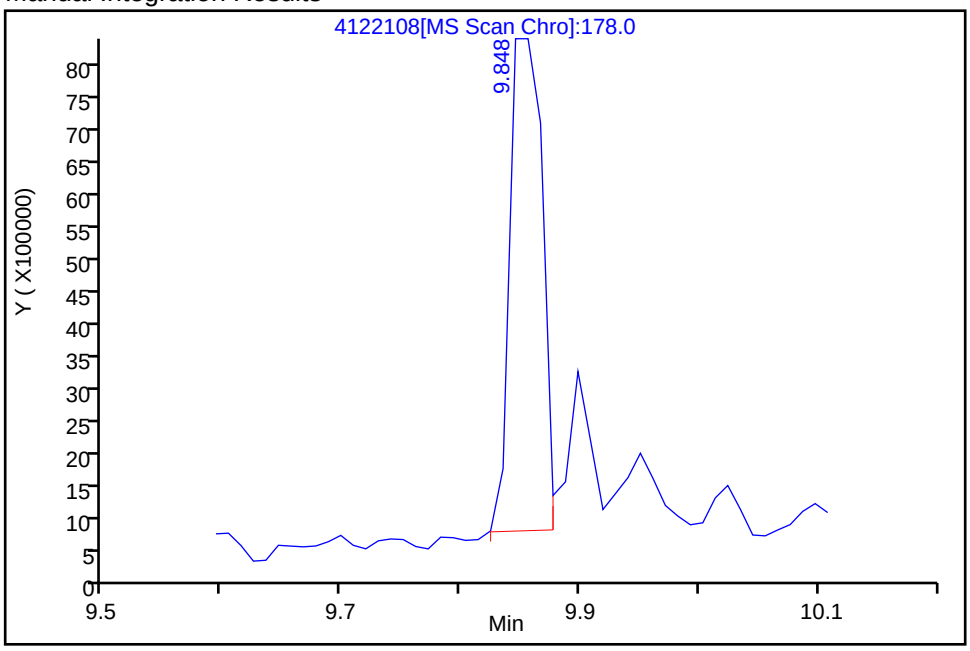
Conc:	8286.41
Conc Units:	ug/Kg



Data Editor: rbh, 21-Dec-2015 14:22:30

Audit Action: Mint

Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

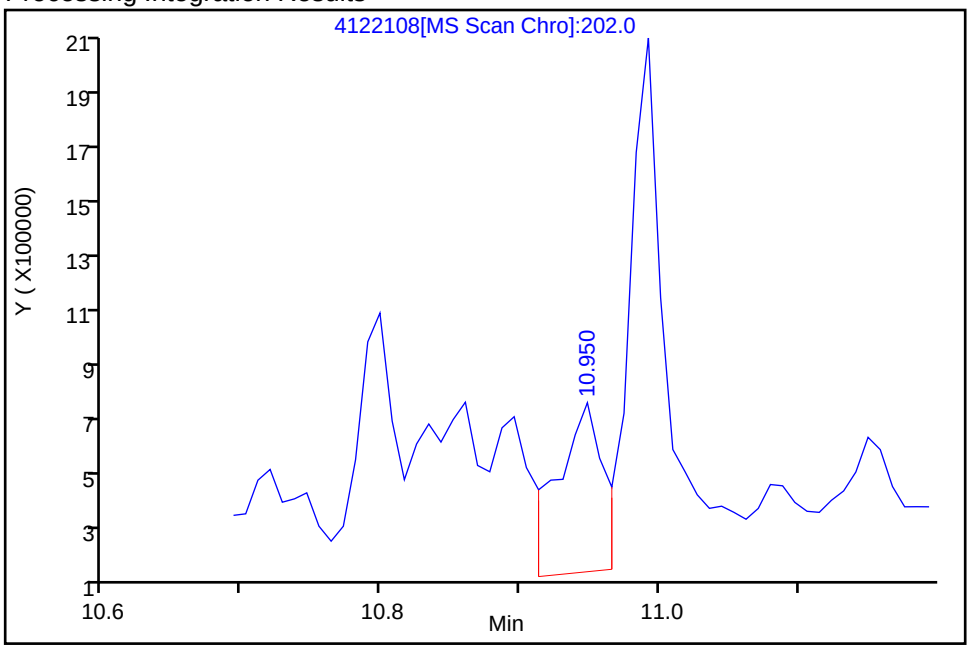
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
Injection Date:	21-Dec-2015 11:37:30	Inst. ID:	msd4.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

63 Fluoranthene, CAS: 206-44-0

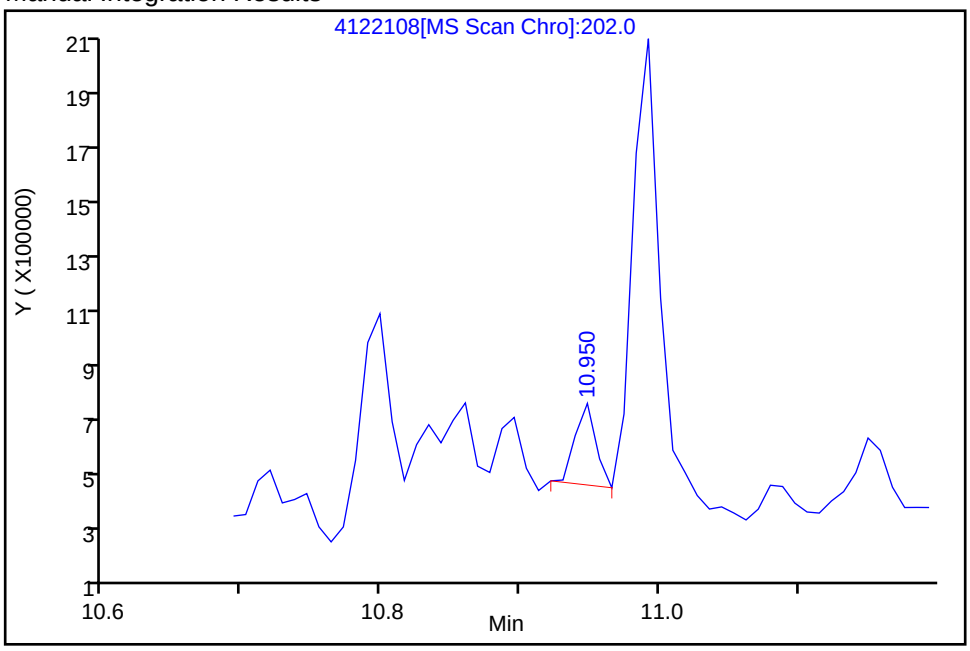
Processing Integration Results

RT: 10.950
Area: 1271558
Conc: 98.139
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 10.950
Area: 282600
Conc: 150.31
Conc Units: ug/Kg



Data Editor: jcg, 24-Dec-2015 10:57:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

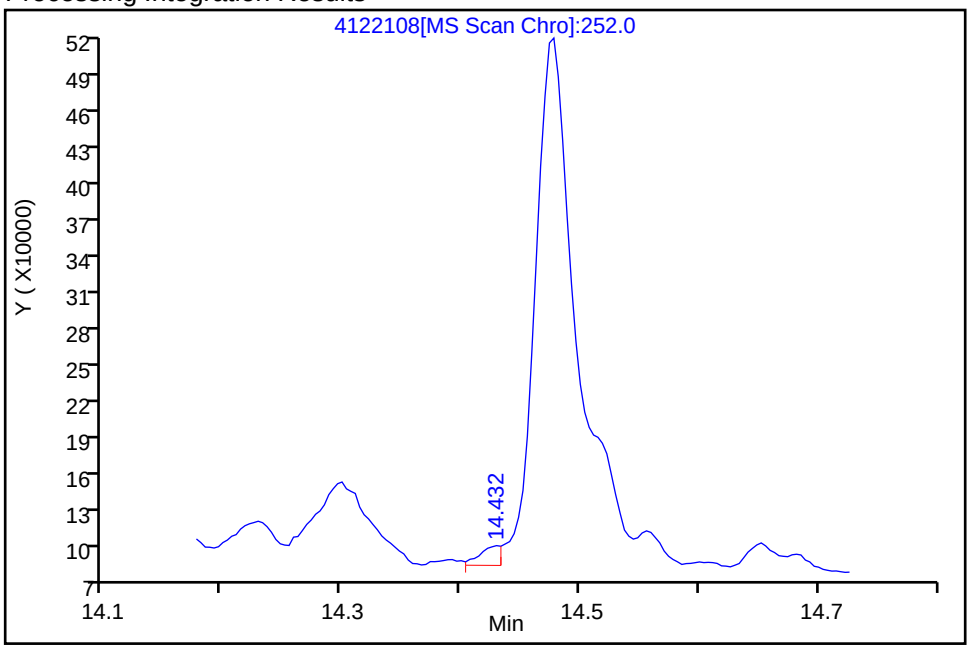
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
Injection Date:	21-Dec-2015 11:37:30	Inst. ID:	msd4.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

73 Benzo(b)fluoranthene, CAS: 205-99-2

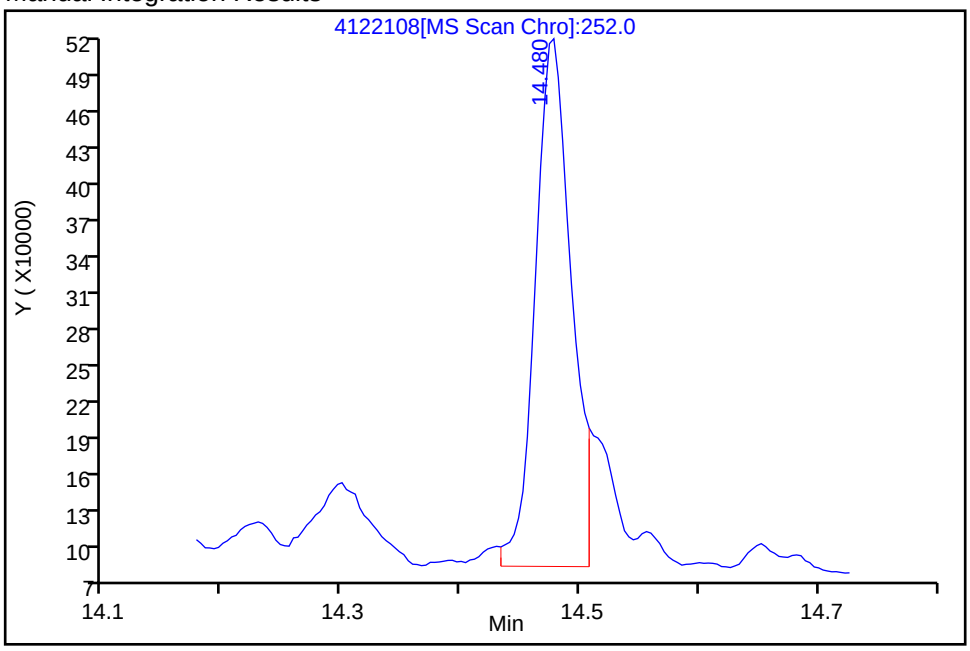
Processing Integration Results

RT: 14.432
Area: 18507
Conc: 1032.92
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 14.480
Area: 907854
Conc: 1039.31
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:22:30
Audit Action: Mint
Audit Reason: SP

Report Date: 04-Jan-2016 15:15:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

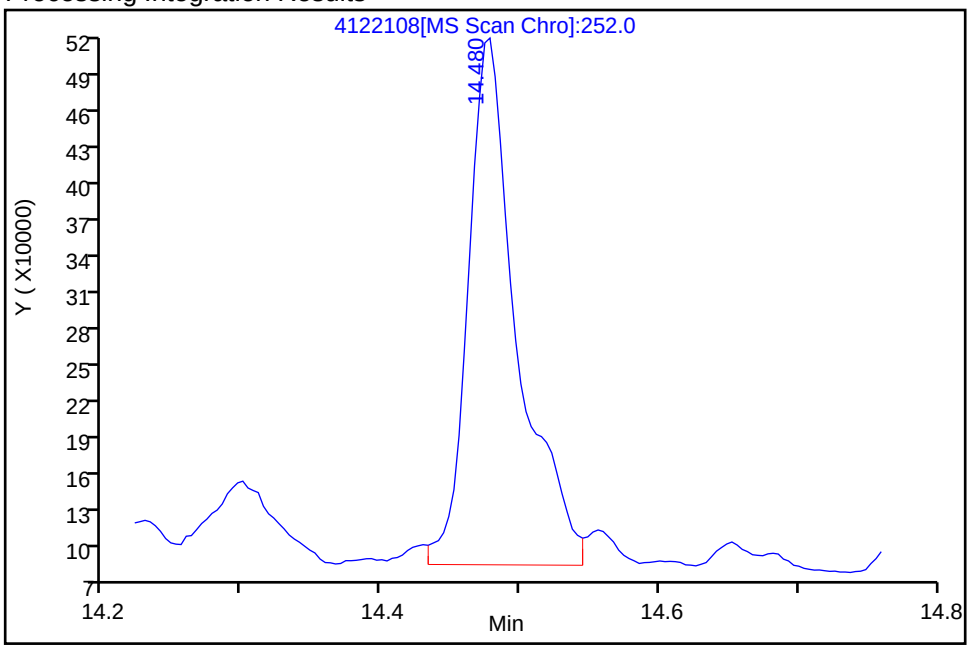
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122108.D		
Injection Date:	21-Dec-2015 11:37:30	Inst. ID:	msd4.i
Client ID:	F6R23	Lab ID:	QL12004-004
Sample Info:	4122115, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

74 Benzo(k)fluoranthene, CAS: 207-08-9

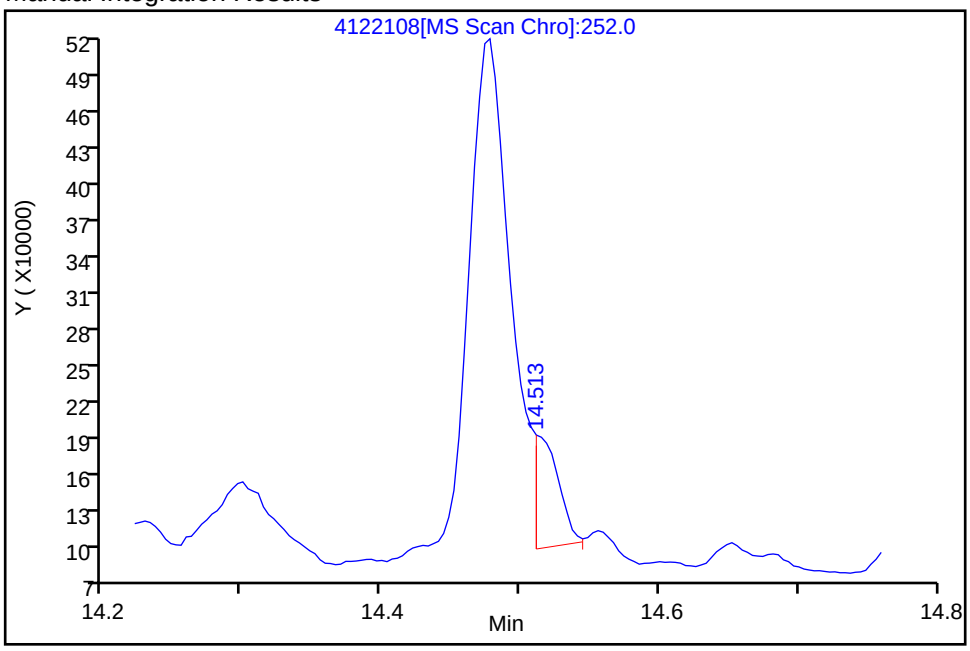
Processing Integration Results

RT:	14.480
Area:	1048912
Conc:	58885
Conc Units:	ug/Kg
Conc:	



Manual Integration Results

RT:	14.513
Area:	108345
Conc:	124.76
Conc Units:	ug/Kg



Data Editor: rbh, 21-Dec-2015 14:23:30

Audit Action: Mint

Audit Reason: IAI

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R23RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-004
Sample wt/vol: 1.00 (g/mL) g
Lab File ID: 41223B15
% Solids: 84.1
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/22/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1200	U
91-20-3	Naphthalene	16000	
91-57-6	2-Methylnaphthalene	77000	E
208-96-8	Acenaphthylene	1200	U
83-32-9	Acenaphthene	1200	U
86-73-7	Fluorene	4100	
87-86-5	Pentachlorophenol	2400	U
85-01-8	Phenanthrene	26000	
120-12-7	Anthracene	7200	
206-44-0	Fluoranthene	2100	
129-00-0	Pyrene	9300	
56-55-3	Benzo(a)anthracene	2900	
218-01-9	Chrysene	7000	
205-99-2	Benzo(b)fluoranthene	1300	
207-08-9	Benzo(k)fluoranthene	1200	U
50-32-8	Benzo(a)pyrene	1300	
193-39-5	Indeno(1,2,3-cd)pyrene	360	J
53-70-3	Dibenzo(a,h)anthracene	390	J
191-24-2	Benzo(g,h,i)perylene	710	J
132-64-9	Dibenzofuran	1200	U
118-74-1	Hexachlorobenzene	1200	U
87-68-3	Hexachlorobutadiene	2400	U
111-44-4	bis(2-Chloroethyl)ether	2400	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2400	U
621-64-7	N-Nitrosodi-n-propylamine	1200	U
67-72-1	Hexachloroethane	2400	U
98-95-3	Nitrobenzene	2400	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R23RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-004
Sample wt/vol: 1.00 (g/mL) g
Lab File ID: 41223B15
% Solids: 84.1
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/22/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	2400	U
88-06-2	2,4,6-Trichlorophenol	2400	U
92-52-4	1,1'-Biphenyl	1200	U
606-20-2	2,6-Dinitrotoluene	1200	U
51-28-5	2,4-Dinitrophenol	24000	U
121-14-2	2,4-Dinitrotoluene	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	2400	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2400	U
1912-24-9	Atrazine	2400	U
91-94-1	3,3'-Dichlorobenzidine	2400	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Lab Sample ID:	QL12004-004	Client Sample ID:	F6R23RX
Injection Date:	23-Dec-2015 16:01:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122315B, QL12004-004		
Misc. Info:	92838 20X		
Method:	\\Organics\HH\chem\msd4.i\4122315B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	9
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	1.0000	Weight of sample extracted (g)
M	15.900	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 16:28:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.761	3.761	0.000	365	0.002880	68.482	e
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	26278	0.11023	2621.49	MR
5 bis(2-Chloroethyl)Ether	93.0		5.762		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	88321	0.40000	9512.49	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.288		ND			
15 Hexachloroethane	117.0		6.434		ND			
$ 16 Nitrobenzene-d5	128.0	6.403	6.455	-0.052	15137	0.12354	2937.85	R
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.935	6.917	0.018	16022	0.06188	1471.63	eR
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	448356	0.40000	9512.49	
24 Naphthalene	128.0	7.074	7.074	0.000	762242	0.65551	15589	
25 4-Chloroaniline	127.0		7.092		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0		7.615		ND			
29 2-Methylnaphthalene	142.0	7.636	7.635	0.001	2230502	3.2487	77257	E
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.316		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	244436	0.40000	9512.49	M

Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0		8.703		ND			
48 Fluorene	166.0	8.996	8.996	0.000	148804	0.17213	4093.52	M
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.473		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.807	9.807	0.000	373855	0.40000	9512.49	
59 Phenanthrene	178.0	9.827	9.827	0.000	1111628	1.0918	25964	
60 Anthracene	178.0	9.869	9.869	0.000	299395	0.30266	7197.60	
$ 116 Flouranthene-d10	212.0	10.932	10.932	0.000	25036	0.02540	603.99	eR
63 Fluoranthene	202.0	10.950	10.950	0.000	96464	0.08730	2076.09	
64 Pyrene	202.0	11.212	11.212	0.000	418151	0.39006	9276.04	
68 3,3'-Dichlorobenzidine	252.0		12.652		ND			
67 Benzo(a)anthracene	228.0	12.740	12.740	0.000	119297	0.12291	2922.98	
* 69 Chrysene-d12	240.0	12.757	12.757	0.000	390988	0.40000	9512.49	
70 Chrysene	228.0	12.801	12.801	0.000	282351	0.29308	6969.74	
73 Benzo(b)fluoranthene	252.0	14.421	14.418	0.003	60573	0.05279	1255.46	
74 Benzo(k)fluoranthene	252.0		14.462		ND			
75 Benzo(a)pyrene	252.0	14.992	14.992	0.000	56176	0.05348	1271.76	
* 76 Perylene-d12	264.0	15.092	15.092	0.000	380756	0.40000	9512.49	
77 Indeno(1,2,3-cd)pyrene	276.0	17.327	17.330	-0.003	18143	0.01534	364.76	e
78 Dibenzo(a,h)anthracene	278.0	17.342	17.345	-0.003	16997	0.01651	392.67	e
79 Benzo(g,h,i)perylene	276.0	18.012	18.015	-0.003	29781	0.03004	714.45	e

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

E - Compound Concentration Exceeds Max. Calibration Range

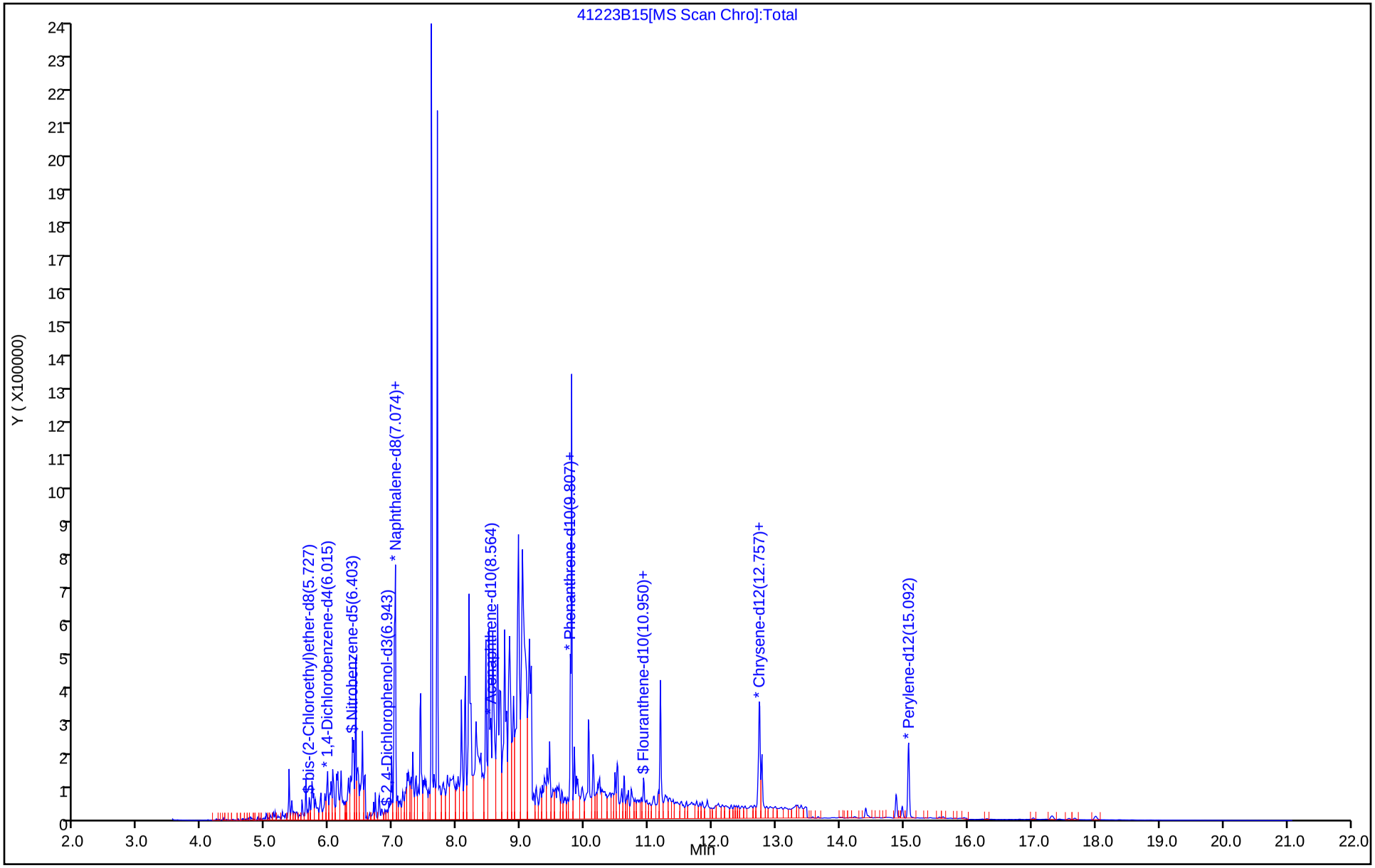
R - Spike/Surrogte Fails %Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D				
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R23RX	Lab ID:	QL12004-004		
Sample Info:	4122315B, QL12004-004				
Injection Vol.	2.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

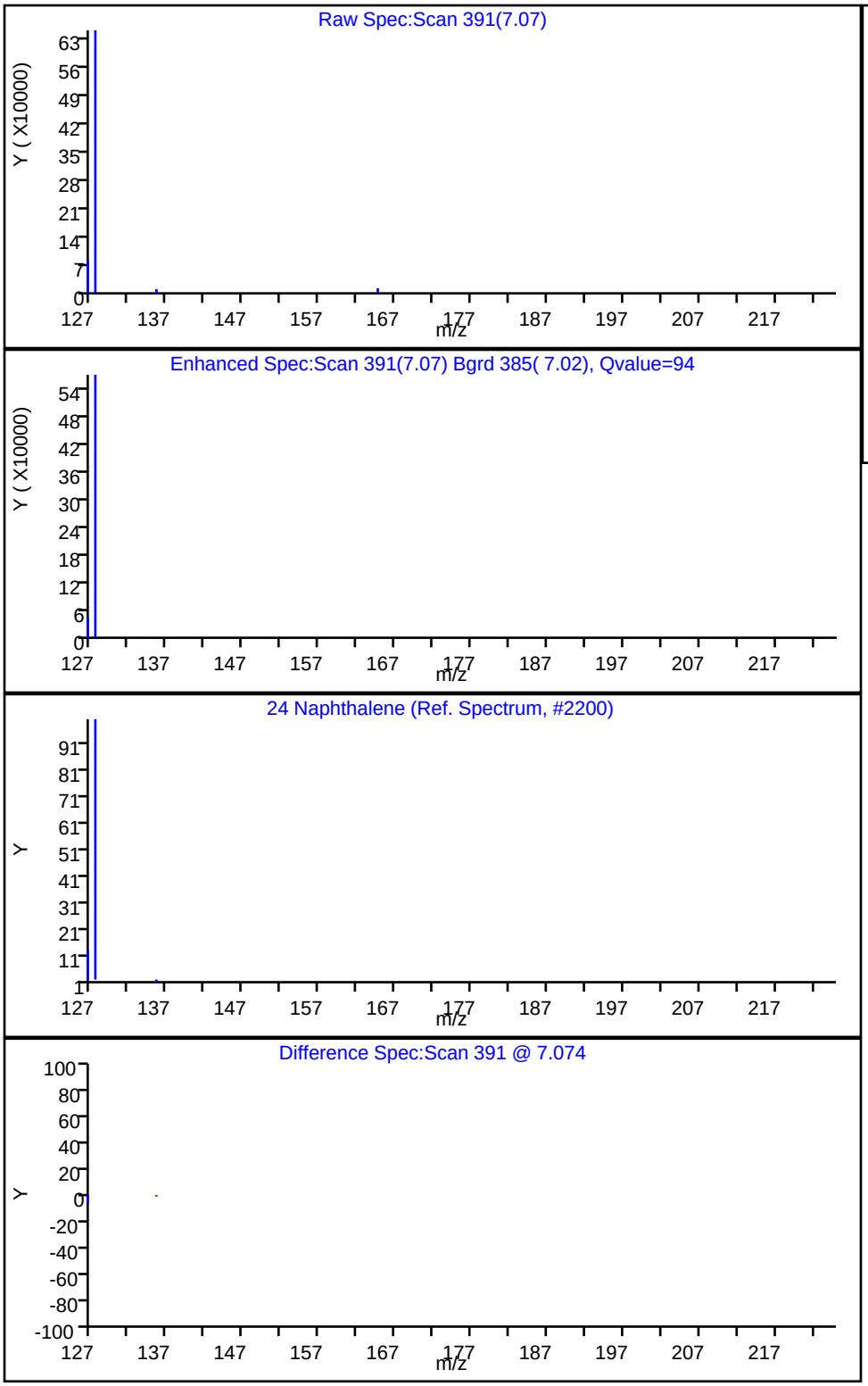


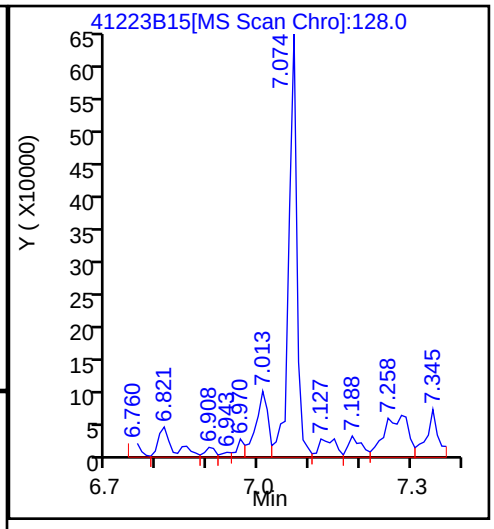
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene



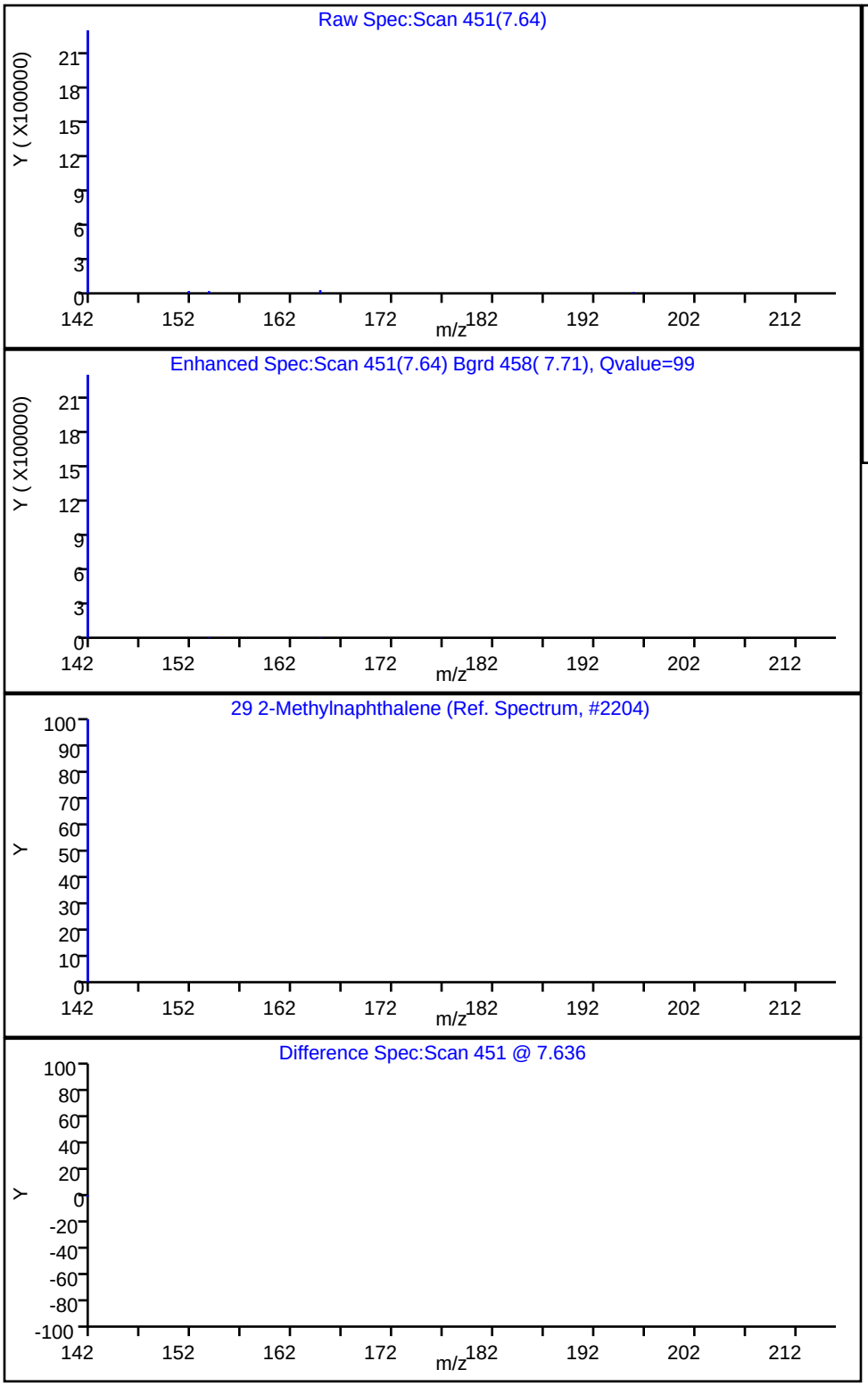


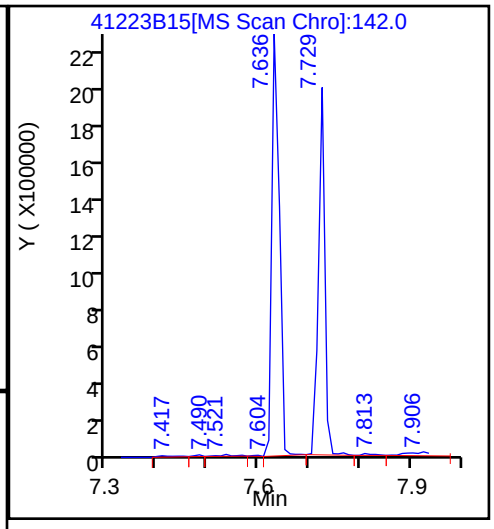
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene



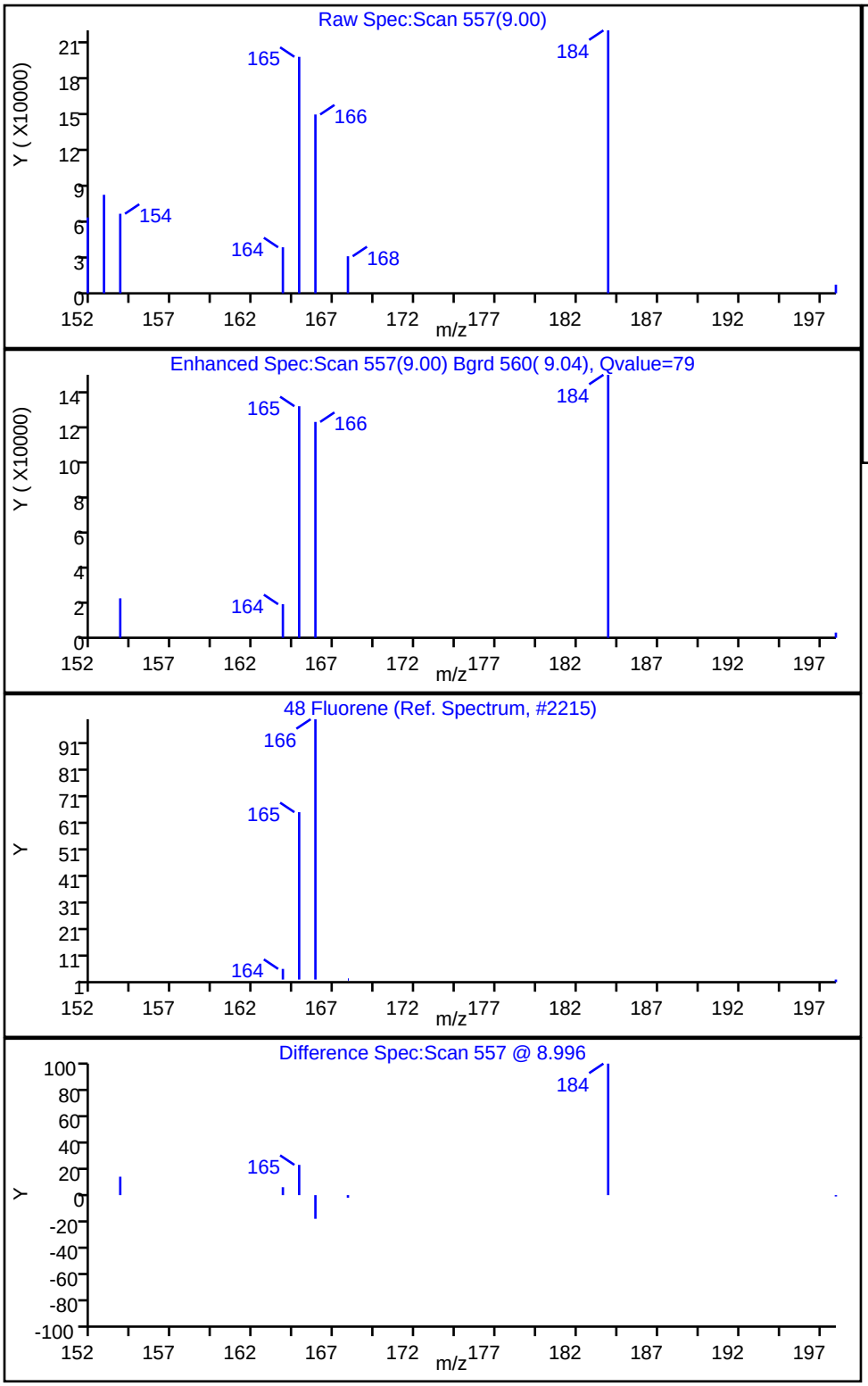


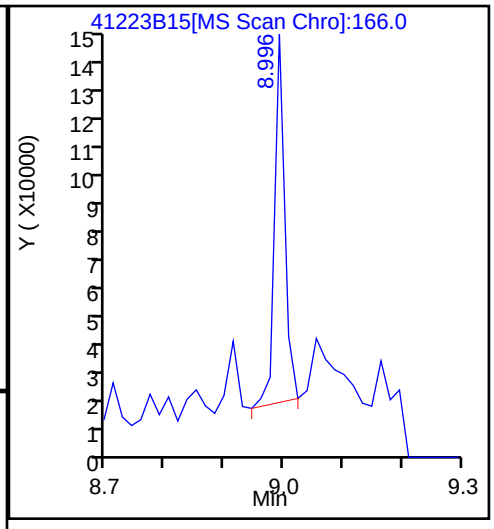
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene



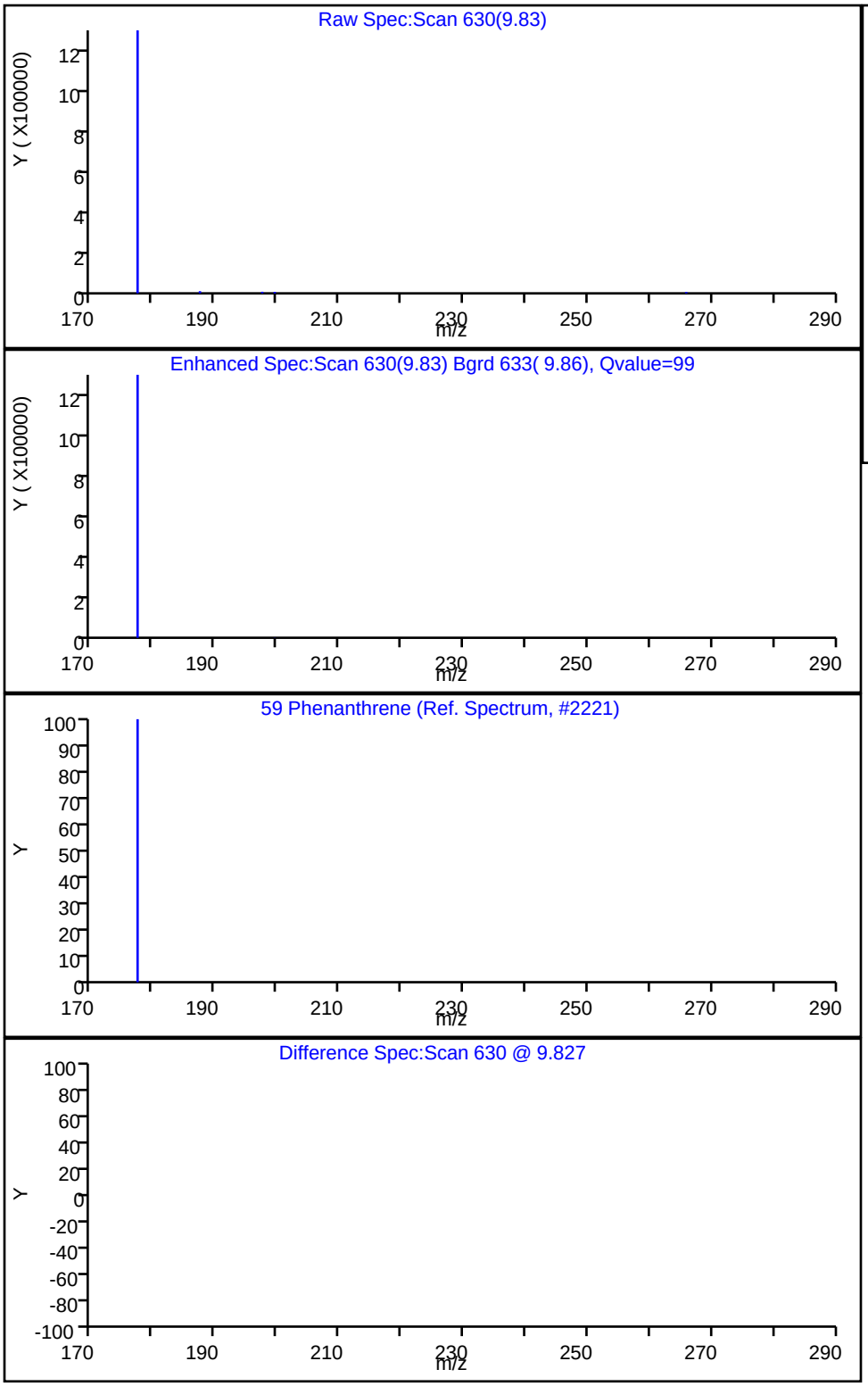


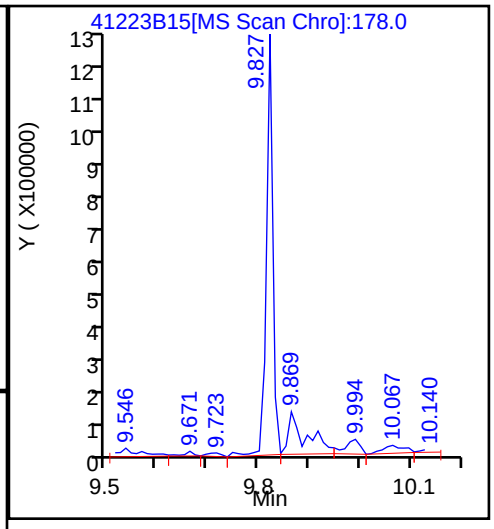
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene



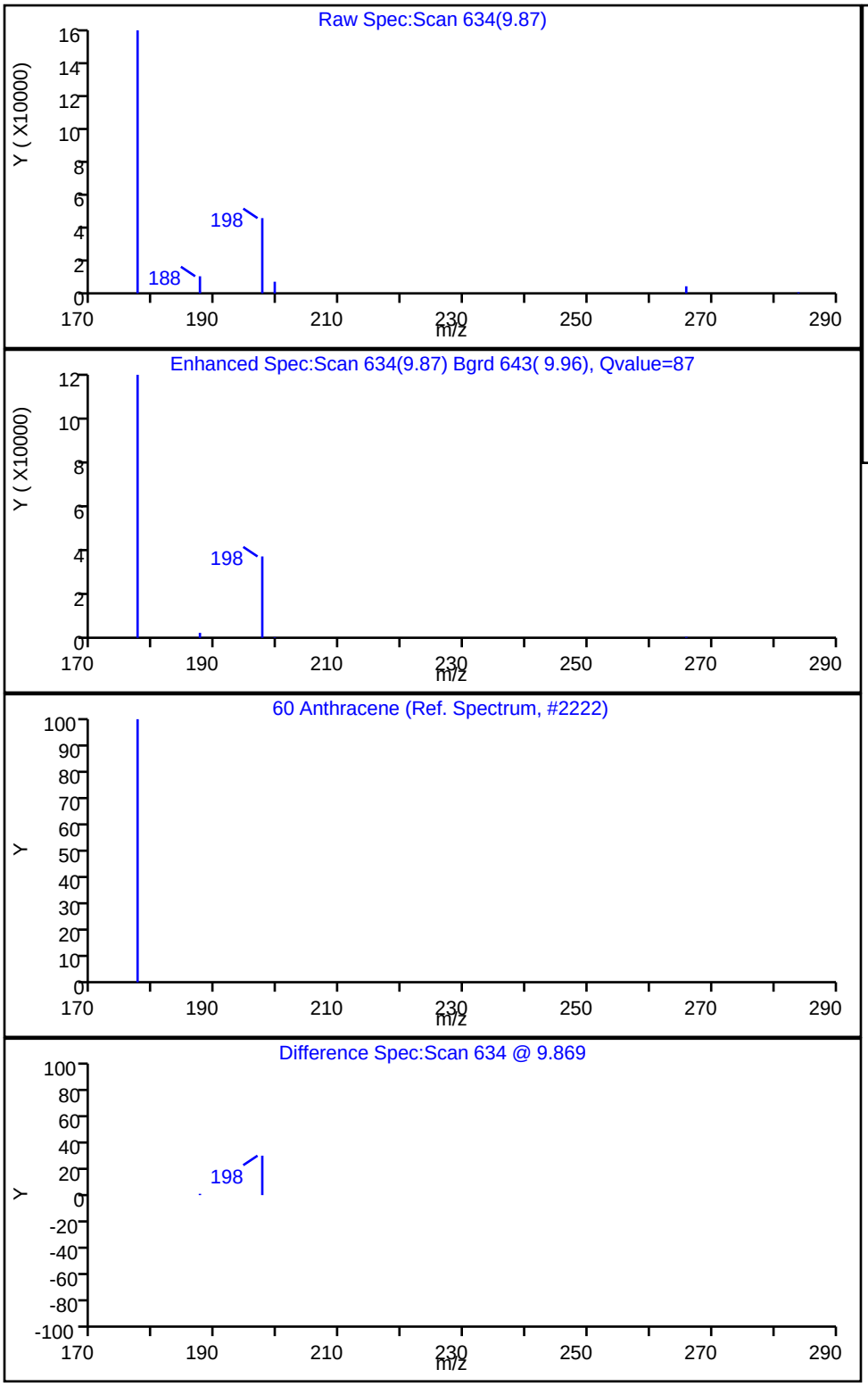


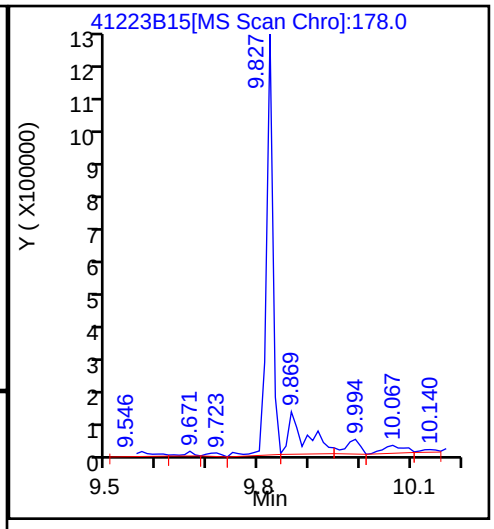
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

60 Anthracene



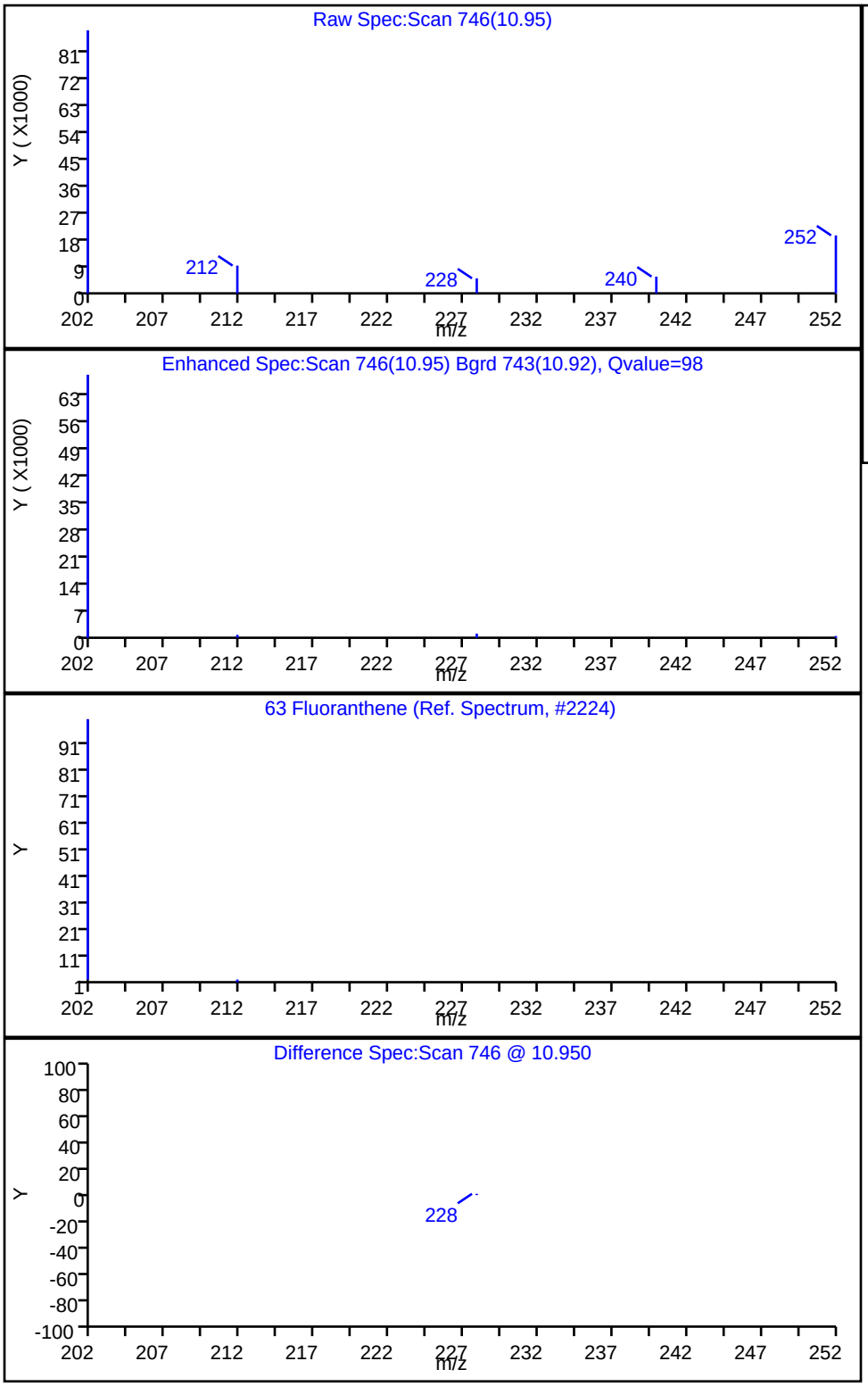


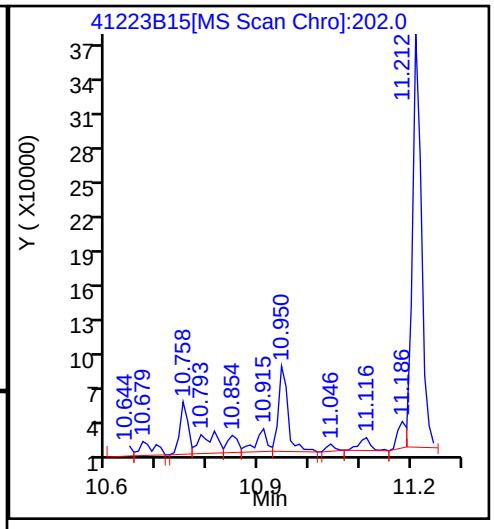
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

63 Fluoranthene



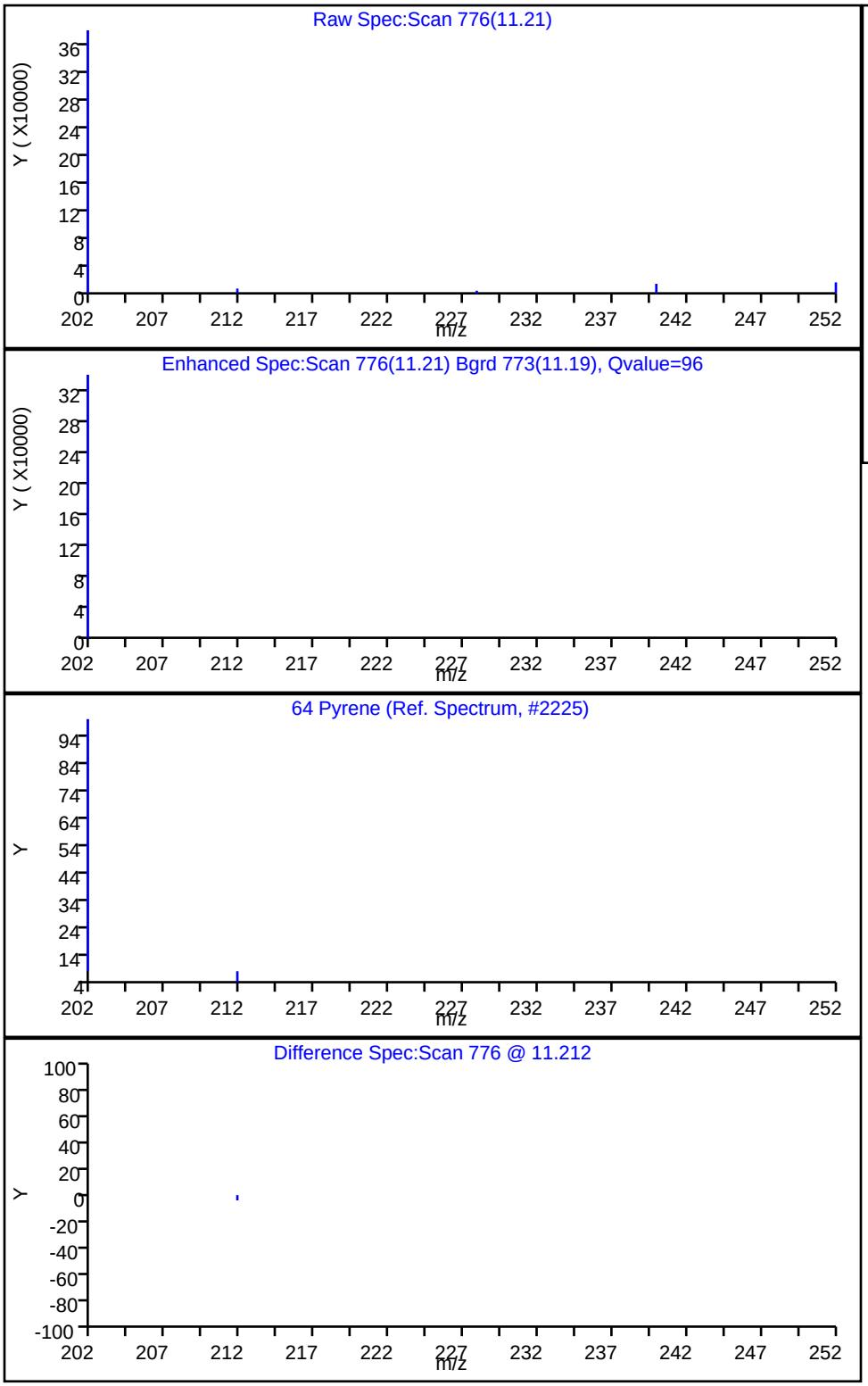


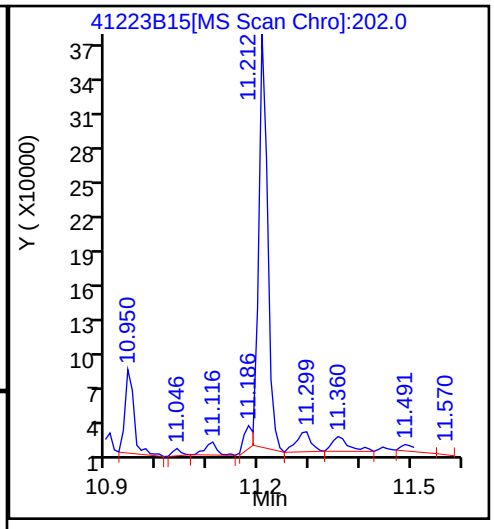
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

64 Pyrene



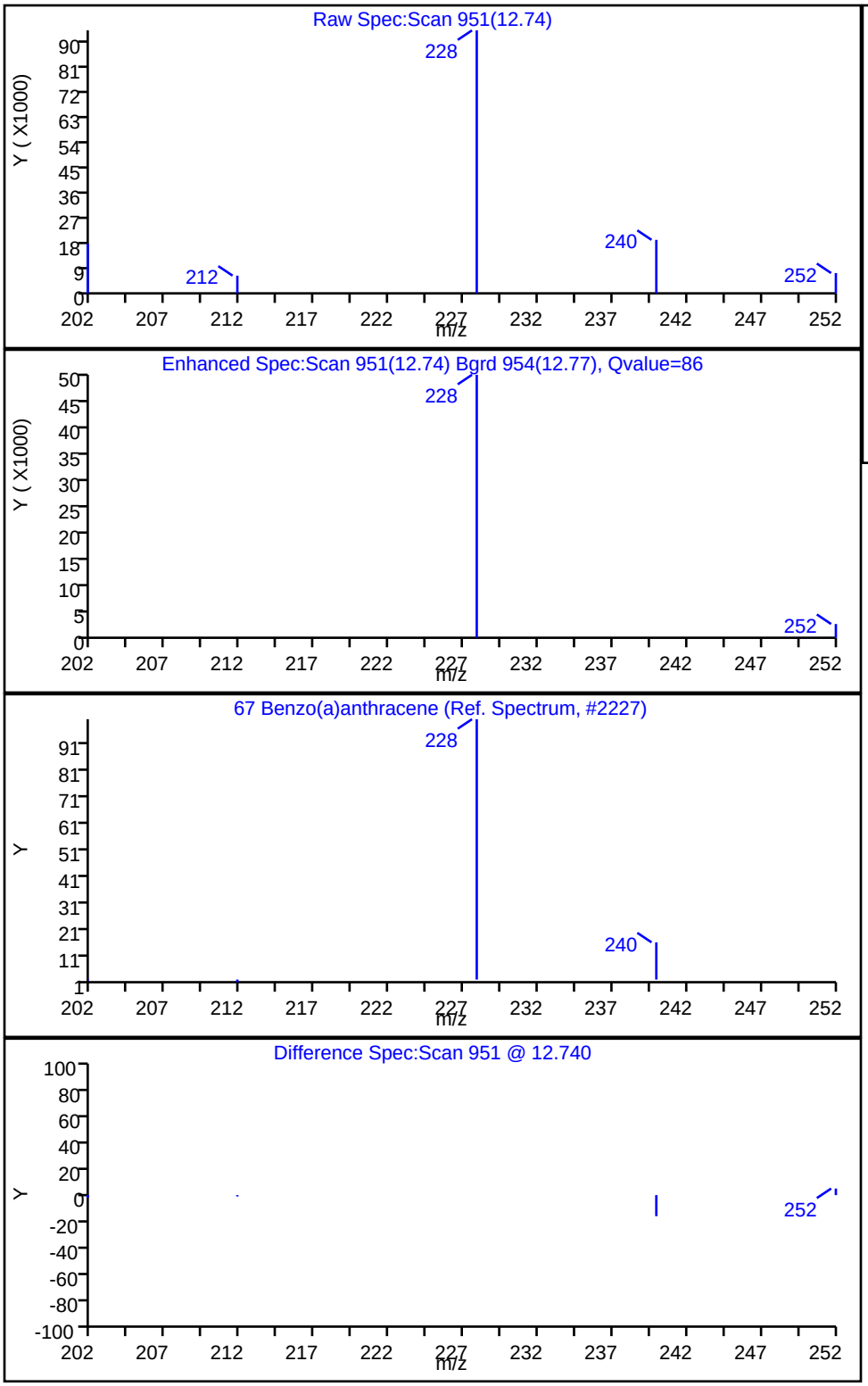


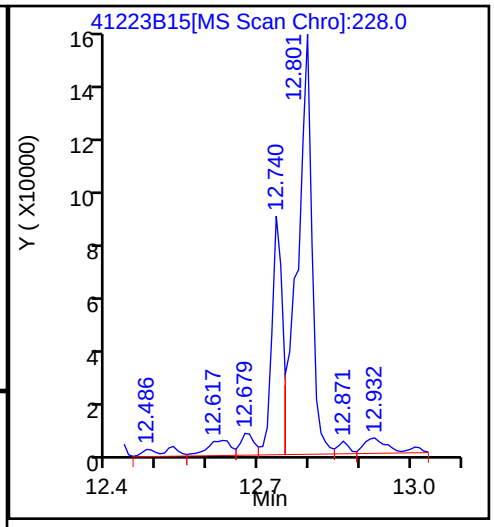
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

67 Benzo(a)anthracene



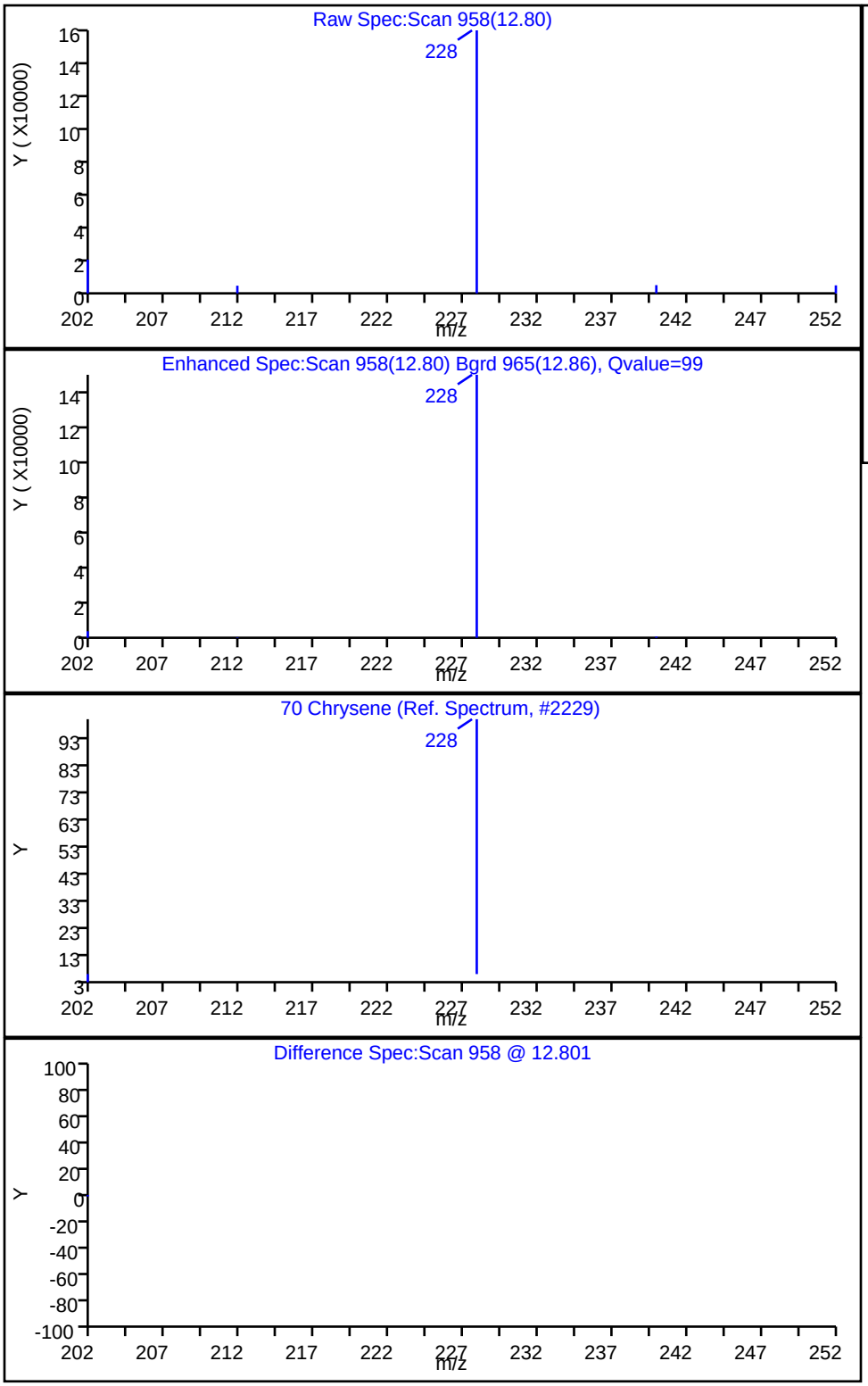


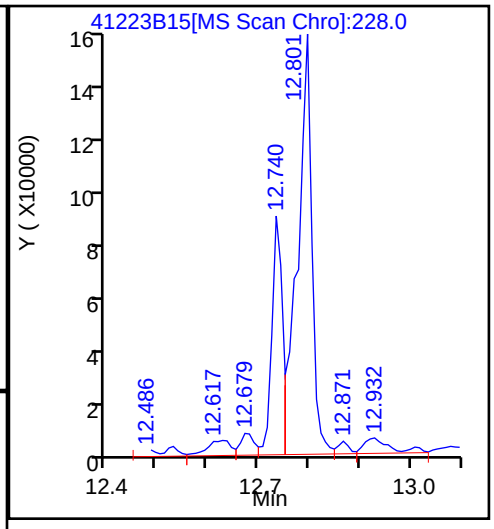
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene



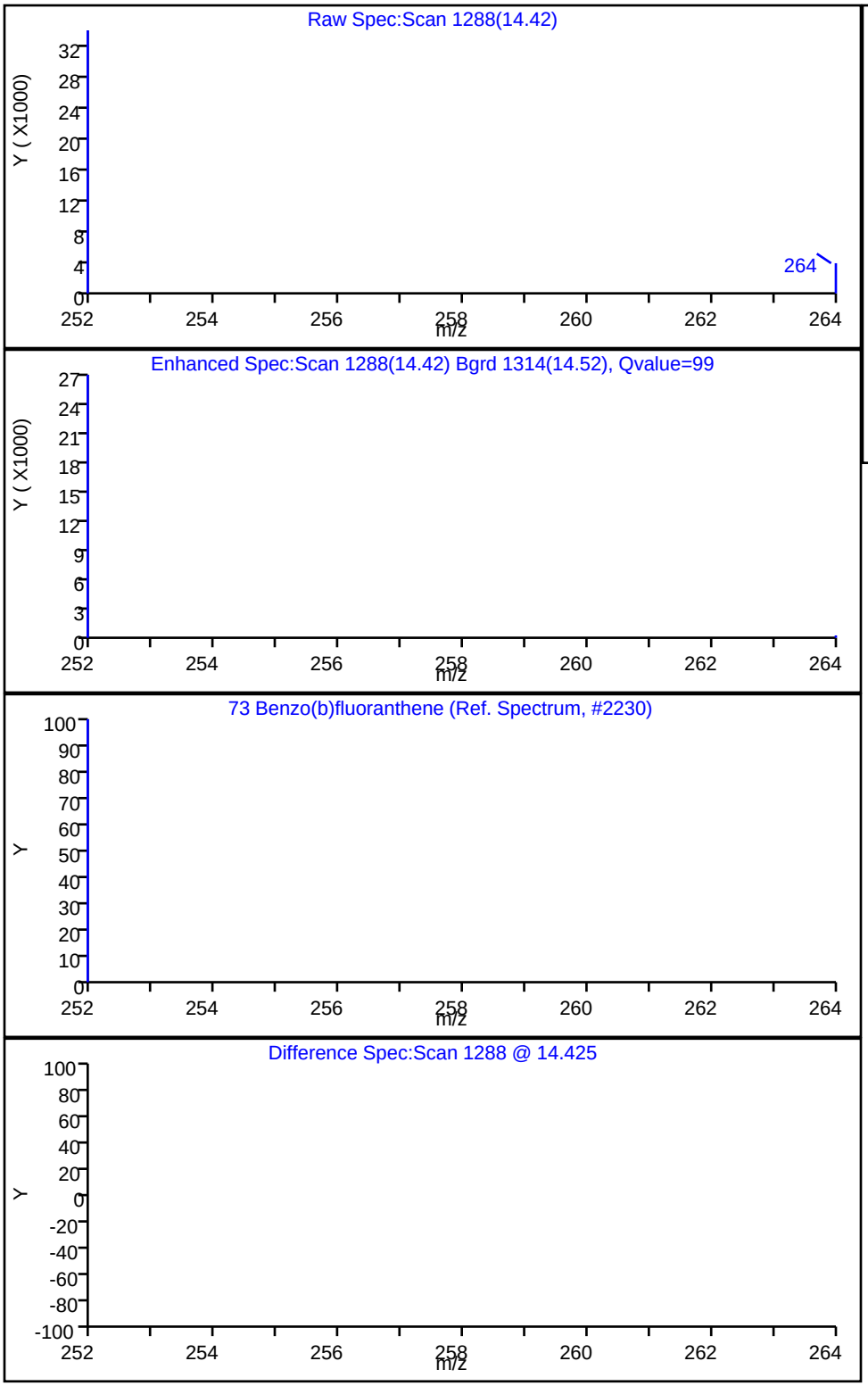


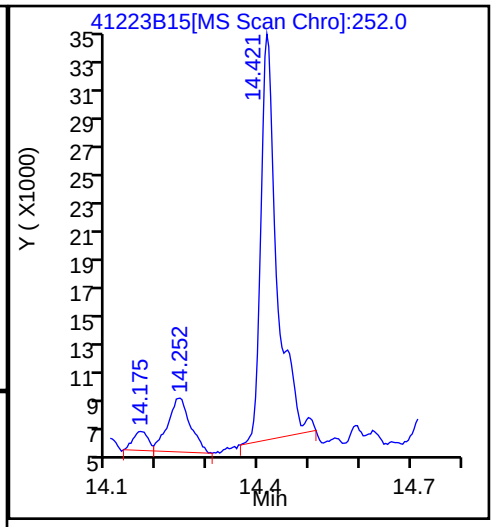
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

73 Benzo(b)fluoranthene



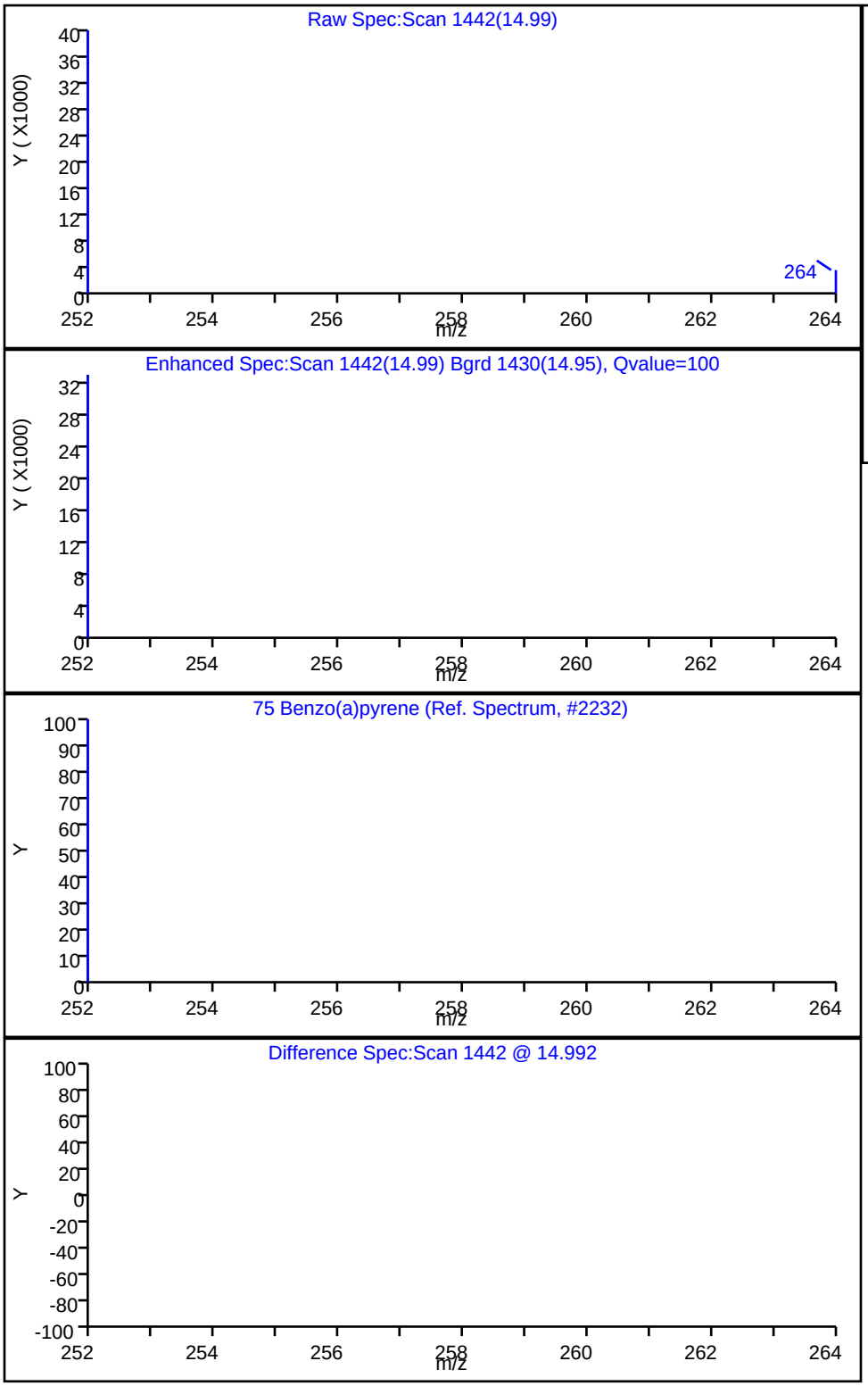


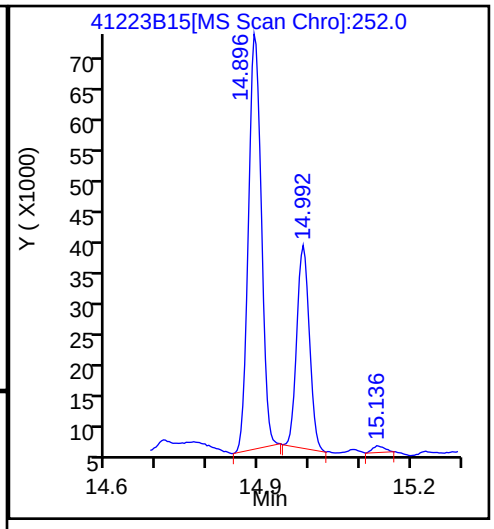
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

75 Benzo(a)pyrene



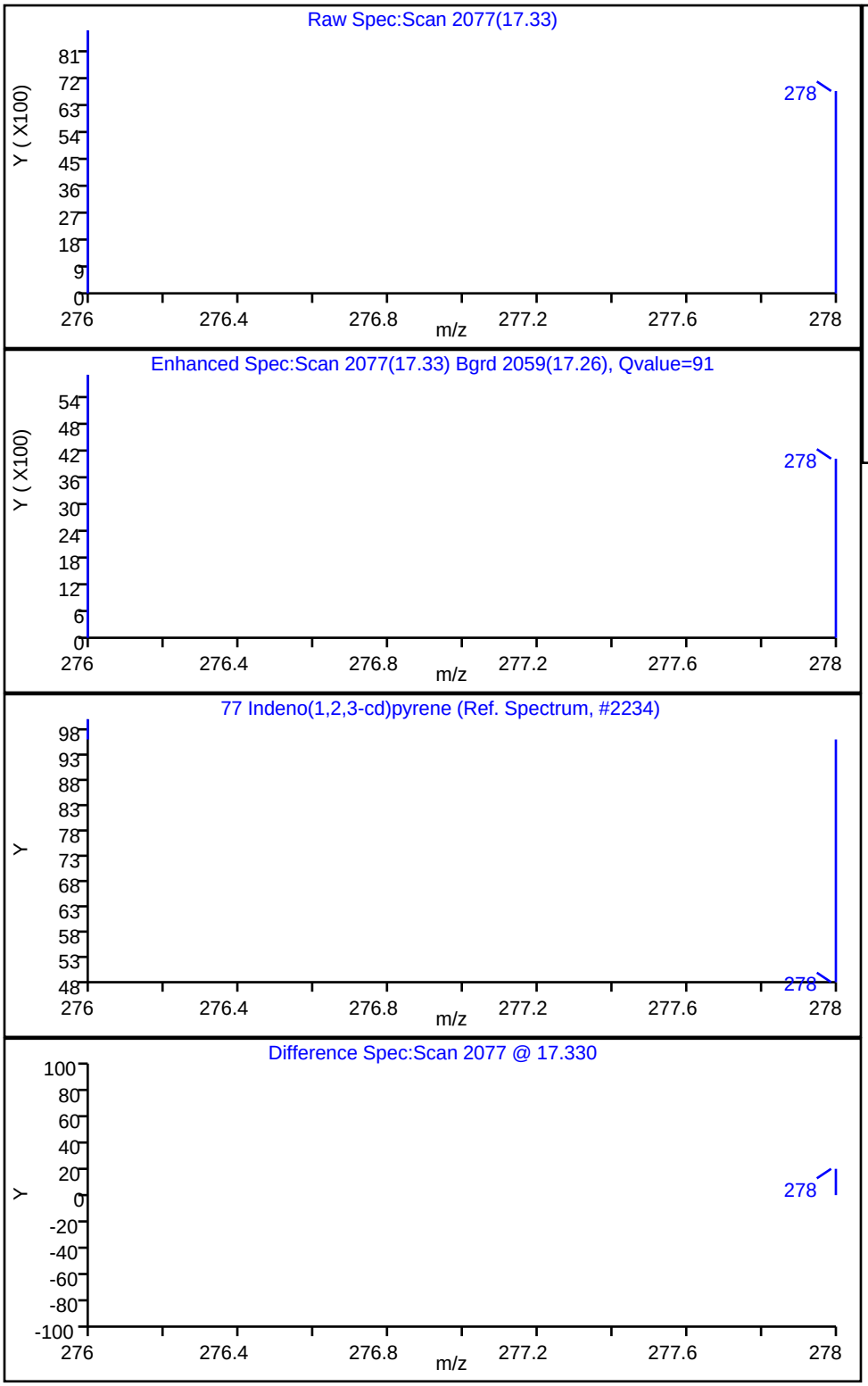


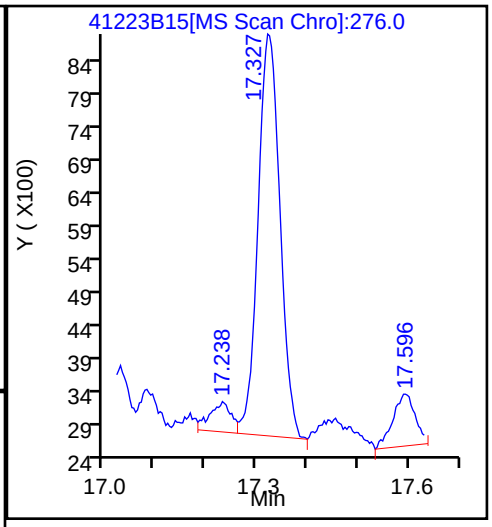
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

77 Indeno(1,2,3-cd)pyrene



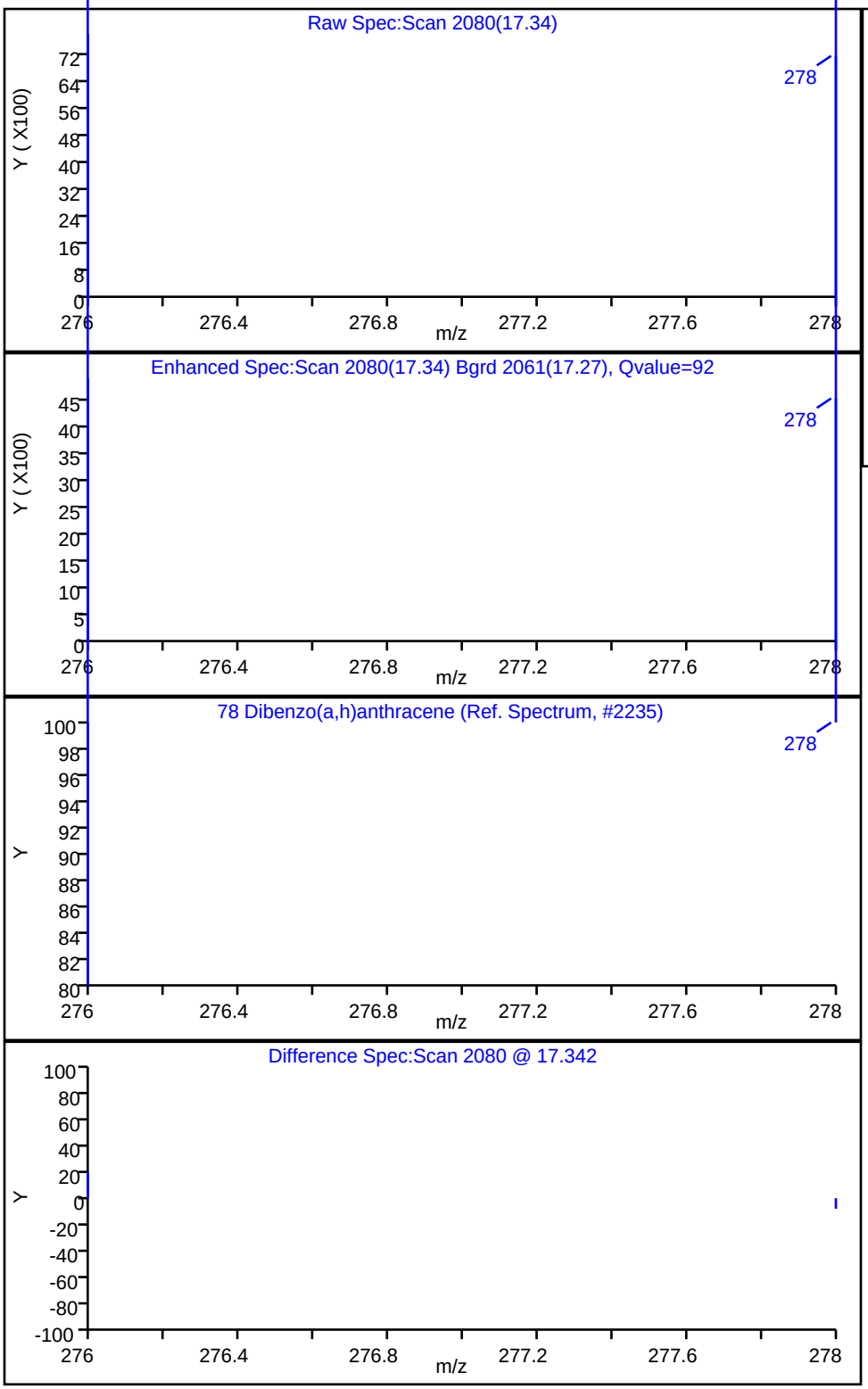


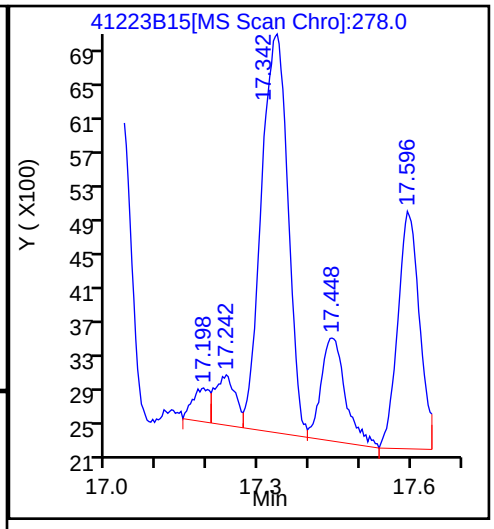
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

78 Dibenzo(a,h)anthracene



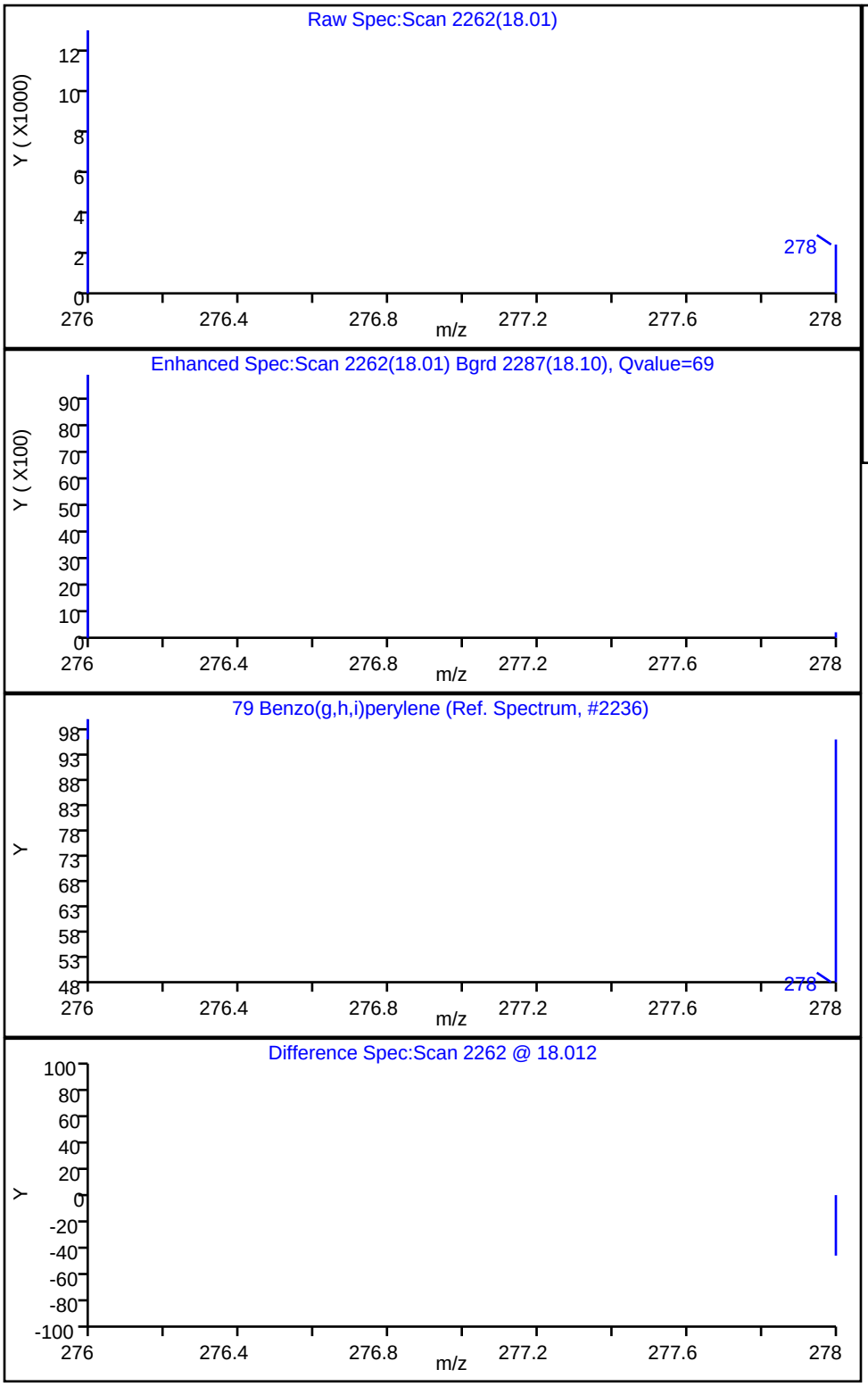


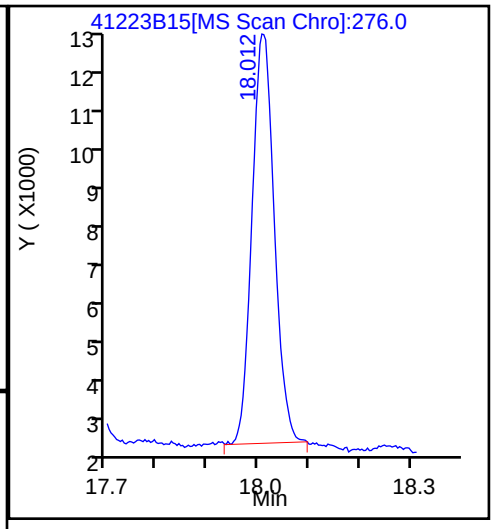
Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

79 Benzo(g,h,i)perylene





Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

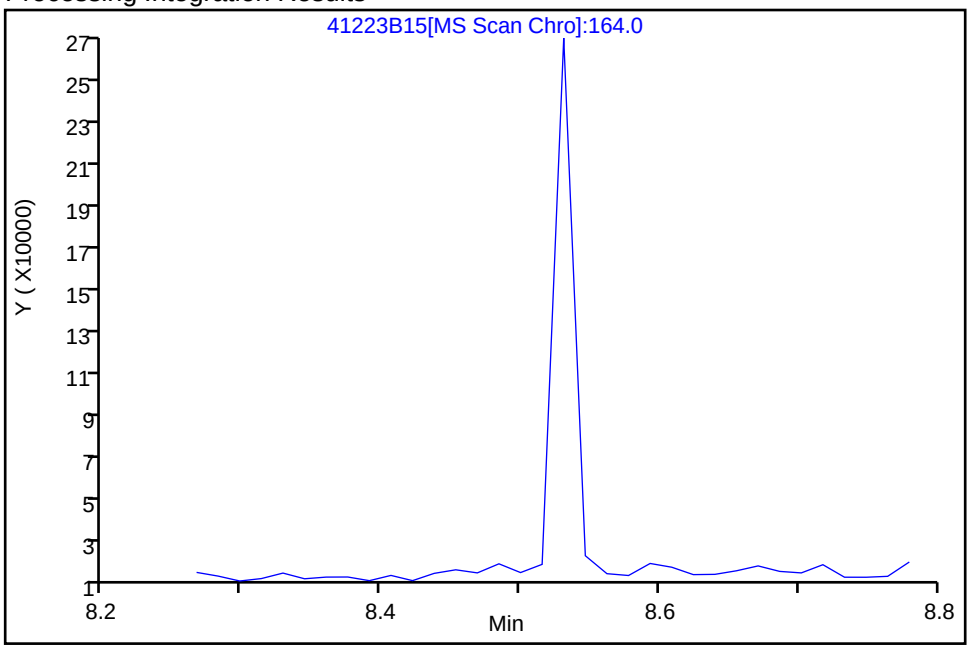
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 41 Acenaphthene-d10, CAS: 15067-26-2

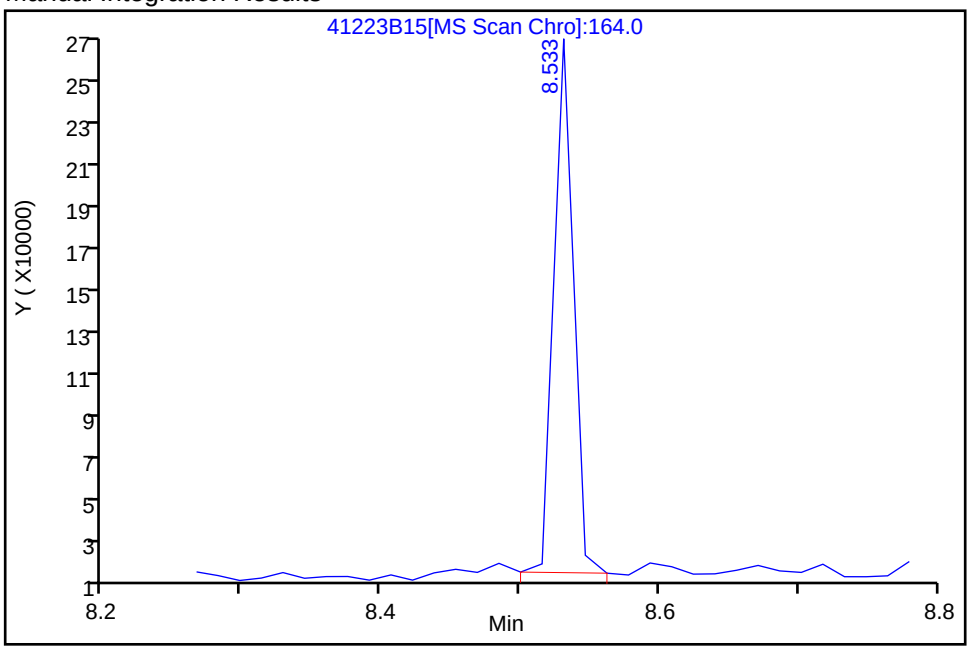
Not Detected
8.533

Processing Integration Results



Manual Integration Results

RT:	8.533
Area:	244436
Conc:	9512.49
Conc Units:	ug/Kg



Data Editor: rbh, 23-Dec-2015 16:26:30
Audit Action: Mint
Audit Reason: MA

Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

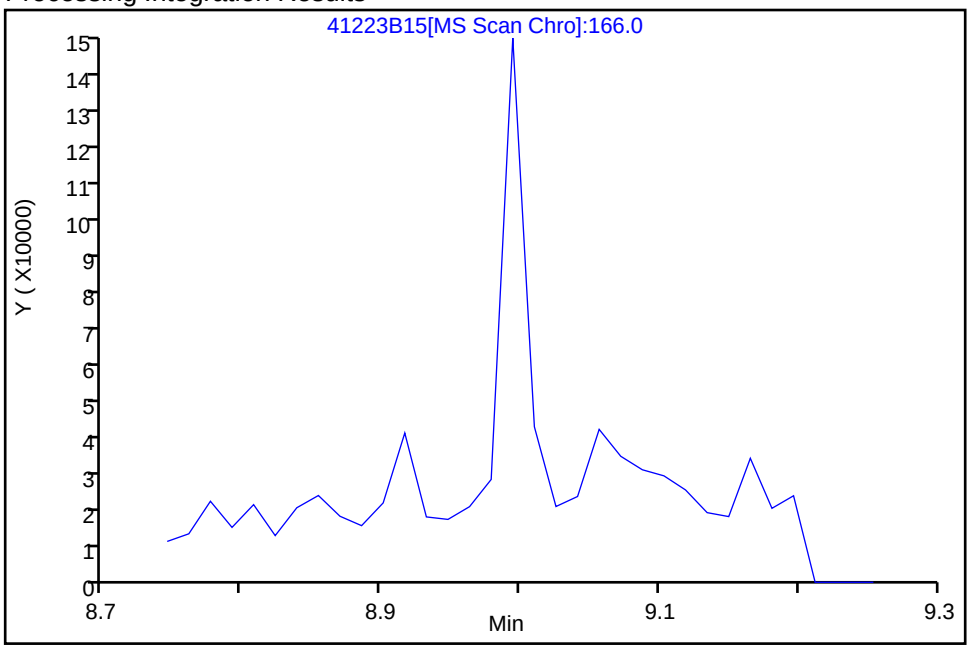
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene, CAS: 86-73-7

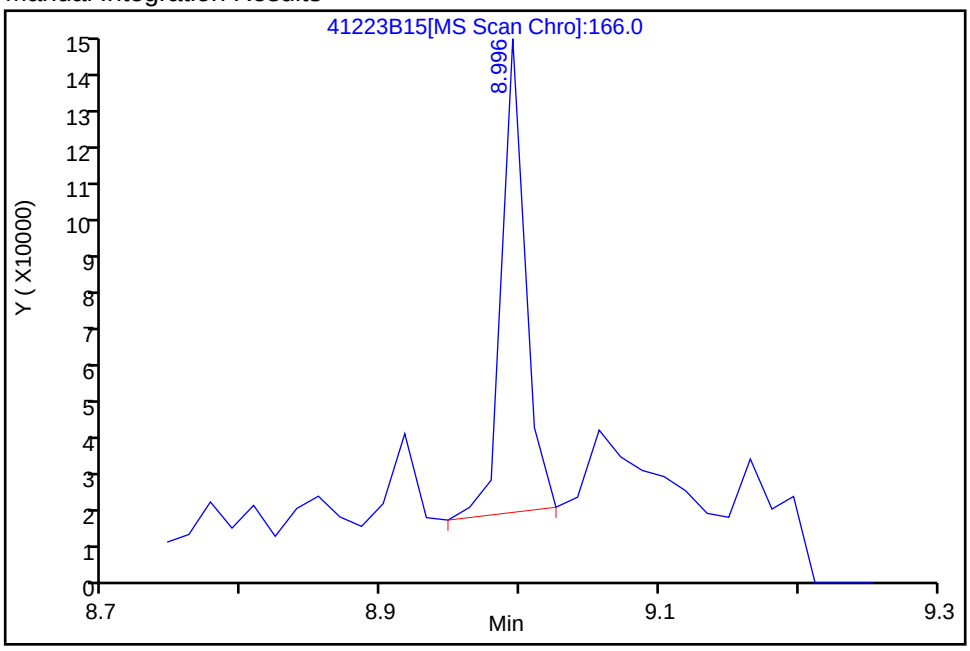
Not Detected
8.996

Processing Integration Results



Manual Integration Results

RT:	8.996
Area:	148804
Conc:	4093.52
Conc Units:	ug/Kg



Data Editor: rbh, 23-Dec-2015 16:30:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 13:32:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

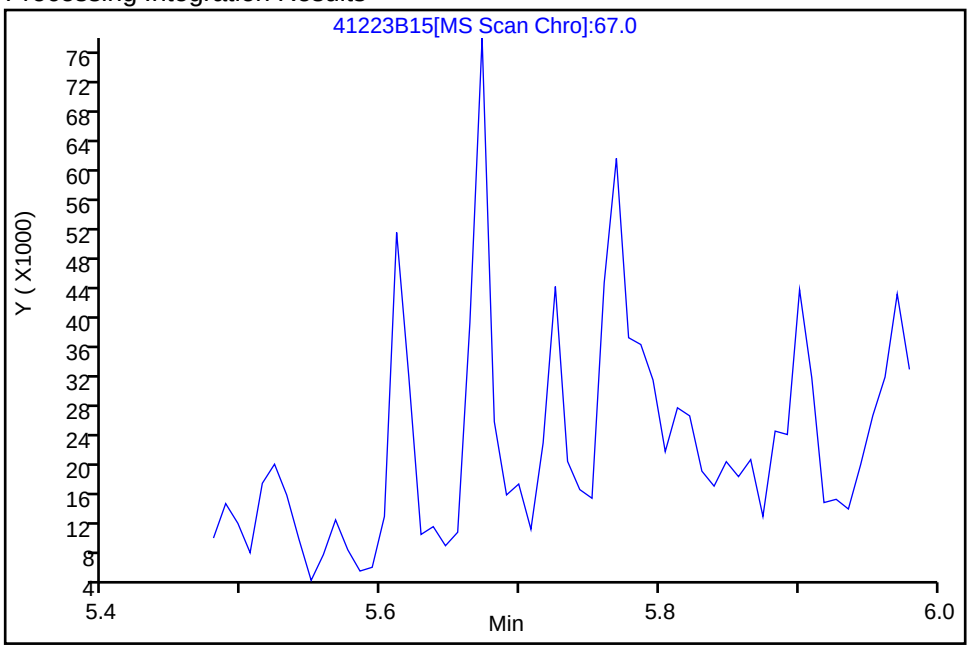
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B15.D		
Injection Date:	23-Dec-2015 16:01:30	Inst. ID:	msd4.i
Client ID:	F6R23RX	Lab ID:	QL12004-004
Sample Info:	4122315B, QL12004-004		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

$ 93 bis-(2-Chloroethyl)ether-d8, CAS: 93952-02-4

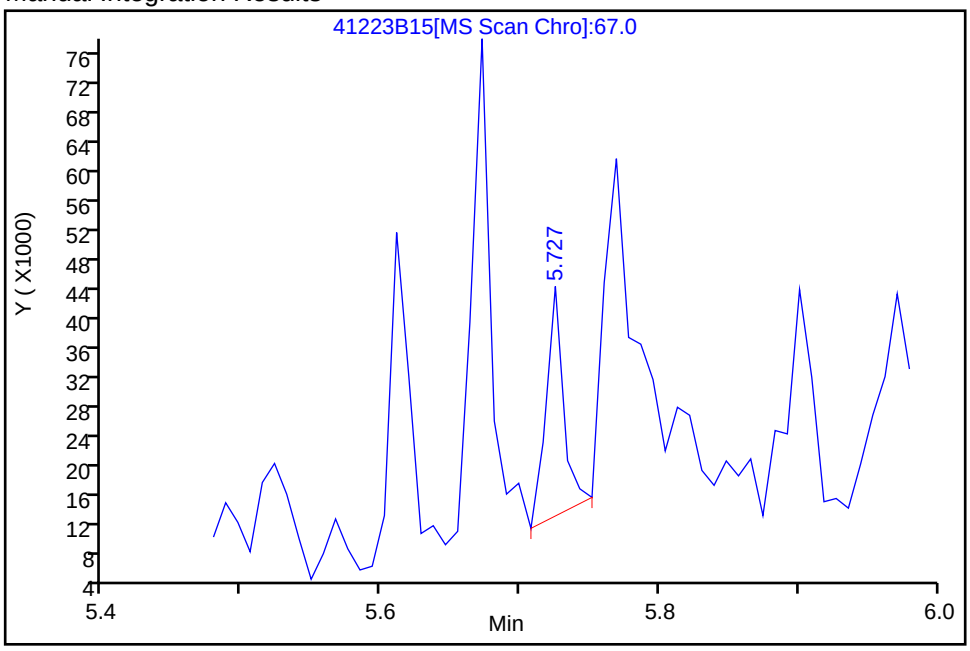
Processing Integration Results

Not Detected
5.727



Manual Integration Results

RT:	5.727
Area:	26278
Conc:	2621.49
Conc Units:	ug/Kg



Data Editor: rbh, 23-Dec-2015 16:28:30
Audit Action: Mint
Audit Reason: IAI

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R24

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 4122109
% Solids: 77.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	43	U
91-20-3	Naphthalene	2900	E B
91-57-6	2-Methylnaphthalene	5200	E B
208-96-8	Acenaphthylene	43	U
83-32-9	Acenaphthene	43	U
86-73-7	Fluorene	1400	
87-86-5	Pentachlorophenol	84	U
85-01-8	Phenanthrene	4000	E
120-12-7	Anthracene	43	U
206-44-0	Fluoranthene	670	
129-00-0	Pyrene	5100	E
56-55-3	Benzo(a)anthracene	620	
218-01-9	Chrysene	1600	
205-99-2	Benzo(b)fluoranthene	300	
207-08-9	Benzo(k)fluoranthene	54	
50-32-8	Benzo(a)pyrene	470	
193-39-5	Indeno(1,2,3-cd)pyrene	51	
53-70-3	Dibenzo(a,h)anthracene	23	J
191-24-2	Benzo(g,h,i)perylene	110	
132-64-9	Dibenzofuran	43	U
118-74-1	Hexachlorobenzene	43	U
87-68-3	Hexachlorobutadiene	84	U
111-44-4	bis(2-Chloroethyl)ether	84	U
108-60-1	2,2'-Oxybis(1-chloropropane)	84	U
621-64-7	N-Nitrosodi-n-propylamine	43	U
67-72-1	Hexachloroethane	84	U
98-95-3	Nitrobenzene	84	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R24

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 30.4 (g/mL) g
Lab File ID: 4122109
% Solids: 77.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	84	U
88-06-2	2,4,6-Trichlorophenol	84	U
92-52-4	1,1'-Biphenyl	190	
606-20-2	2,6-Dinitrotoluene	43	U
51-28-5	2,4-Dinitrophenol	840	U
121-14-2	2,4-Dinitrotoluene	43	U
534-52-1	4,6-Dinitro-2-methylphenol	84	U
95-94-3	1,2,4,5-Tetrachlorobenzene	84	U
1912-24-9	Atrazine	84	U
91-94-1	3,3'-Dichlorobenzidine	84	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122109.D		
Lab Sample ID:	QL12004-005	Client Sample ID:	F6R24
Injection Date:	21-Dec-2015 12:04:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, QL12004-005		
Misc. Info:	92513 20X		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544.m		
Method Date:	04-Jan-2016 15:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	7
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.400	Weight of sample extracted (g)
M	22.200	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	21-Dec-2015 14:26:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.753	3.762	-0.009	309	0.001377	1.1645	e
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.727		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.771		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	156350	0.40000	338.25	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.186		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.290		ND			
15 Hexachloroethane	117.0		6.436		ND			
$ 16 Nitrobenzene-d5	128.0		6.457		ND			
17 Nitrobenzene	77.0		6.467		ND			
$ 96 2,4-Dichlorophenol-d3	165.0		6.926		ND			
* 23 Naphthalene-d8	136.0	7.066	7.057	0.009	953721	0.40000	338.25	I
24 Naphthalene	128.0	7.083	7.075	0.008	8458340	3.4196	2891.69	E
25 4-Chloroaniline	127.0		7.075		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0		7.615		ND			
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	8936581	6.1189	5174.32	E
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0	8.031	8.021	0.010	431749	0.22024	186.24	
39 2,6-Dinitrotoluene	165.0		8.317		ND			
38 Acenaphthylene	152.0		8.425		ND			
* 41 Acenaphthene-d10	164.0	8.548	8.533	0.015	348299	0.40000	338.25	MI

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Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122109.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.657		ND			
45 Dibenzofuran	168.0		8.718		ND			
48 Fluorene	166.0	8.981	8.996	-0.015	2055386	1.6686	1411.01	
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0		9.484		ND			
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.817	9.807	0.010	832042	0.40000	338.25	MI
59 Phenanthrene	178.0	9.838	9.828	0.010	10836646	4.7822	4043.98	E
60 Anthracene	178.0		9.880		ND			
$ 116 Flouranthene-d10	212.0		10.941		ND			
63 Fluoranthene	202.0	10.976	10.959	0.017	1939650	0.78873	666.97	
64 Pyrene	202.0	11.238	11.221	0.017	14926581	6.0786	5140.22	E
68 3,3'-Dichlorobenzidine	252.0		12.661		ND			
67 Benzo(a)anthracene	228.0	12.774	12.748	0.026	1634868	0.73535	621.83	
* 69 Chrysene-d12	240.0	12.792	12.766	0.026	895601	0.40000	338.25	MI
70 Chrysene	228.0	12.836	12.810	0.026	4067032	1.8430	1558.46	
73 Benzo(b)fluoranthene	252.0	14.462	14.429	0.033	437226	0.35155	297.28	M
74 Benzo(k)fluoranthene	252.0	14.495	14.473	0.022	79264	0.06411	54.209	M
75 Benzo(a)pyrene	252.0	15.036	15.000	0.036	638316	0.56060	474.05	
* 76 Perylene-d12	264.0	15.136	15.103	0.033	412718	0.40000	338.25	
77 Indeno(1,2,3-cd)pyrene	276.0	17.382	17.345	0.037	77667	0.06057	51.223	
78 Dibenzo(a,h)anthracene	278.0	17.382	17.360	0.022	30602	0.02743	23.192	e
79 Benzo(g,h,i)perylene	276.0	18.067	18.030	0.037	144821	0.13478	113.97	

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

E - Compound Concentration Exceeds Max. Calibration Range

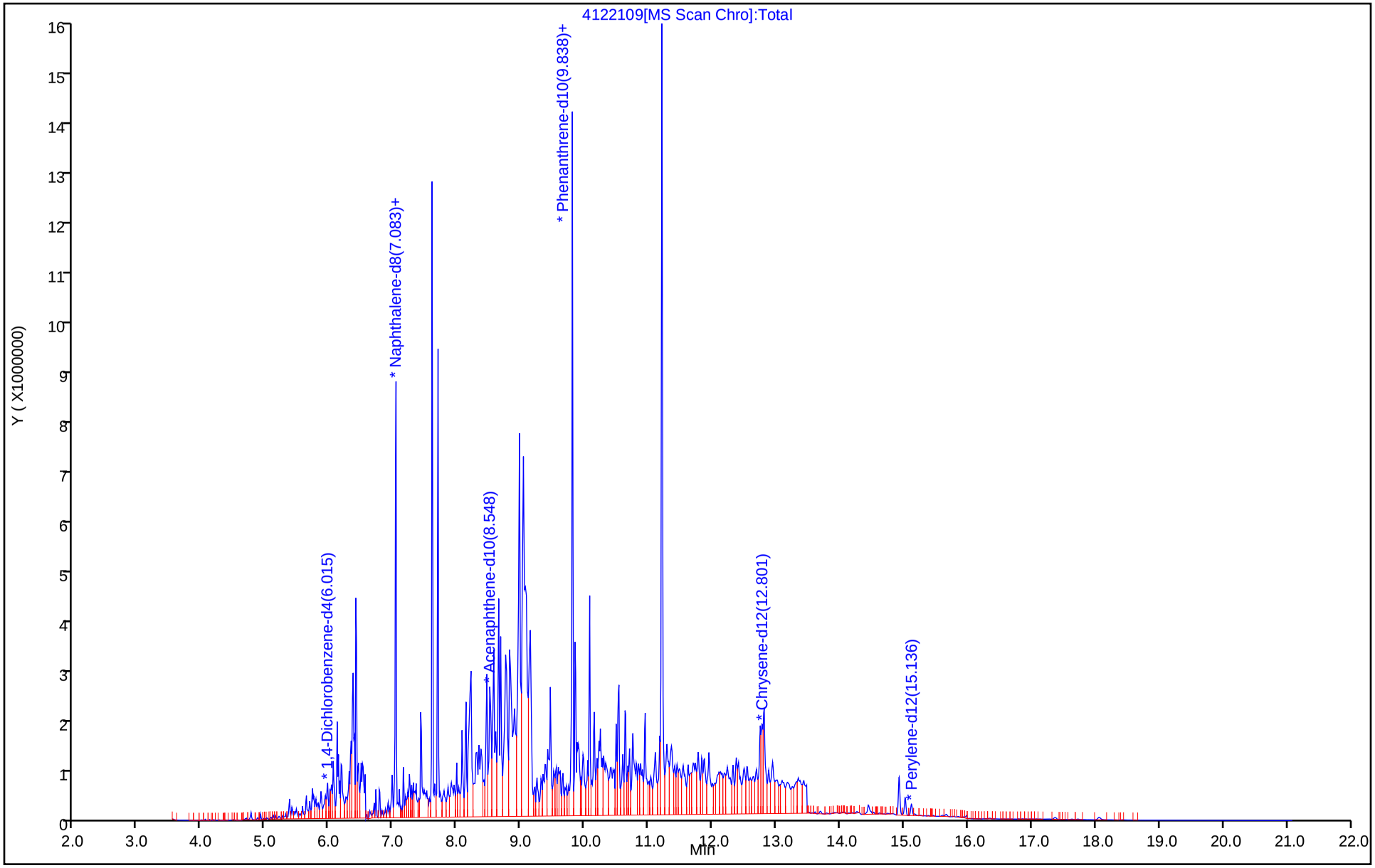
I - Istd Fails Area Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122109.D				
Injection Date:	21-Dec-2015 12:04:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R24	Lab ID:	QL12004-005		
Sample Info:	4122115, QL12004-005				
Injection Vol.	2.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



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Shealy Environmental Services

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Injection Date:	21-Dec-2015 12:04:30	Inst. ID:	msd4.i
Client ID:	F6R24	Lab ID:	QL12004-005
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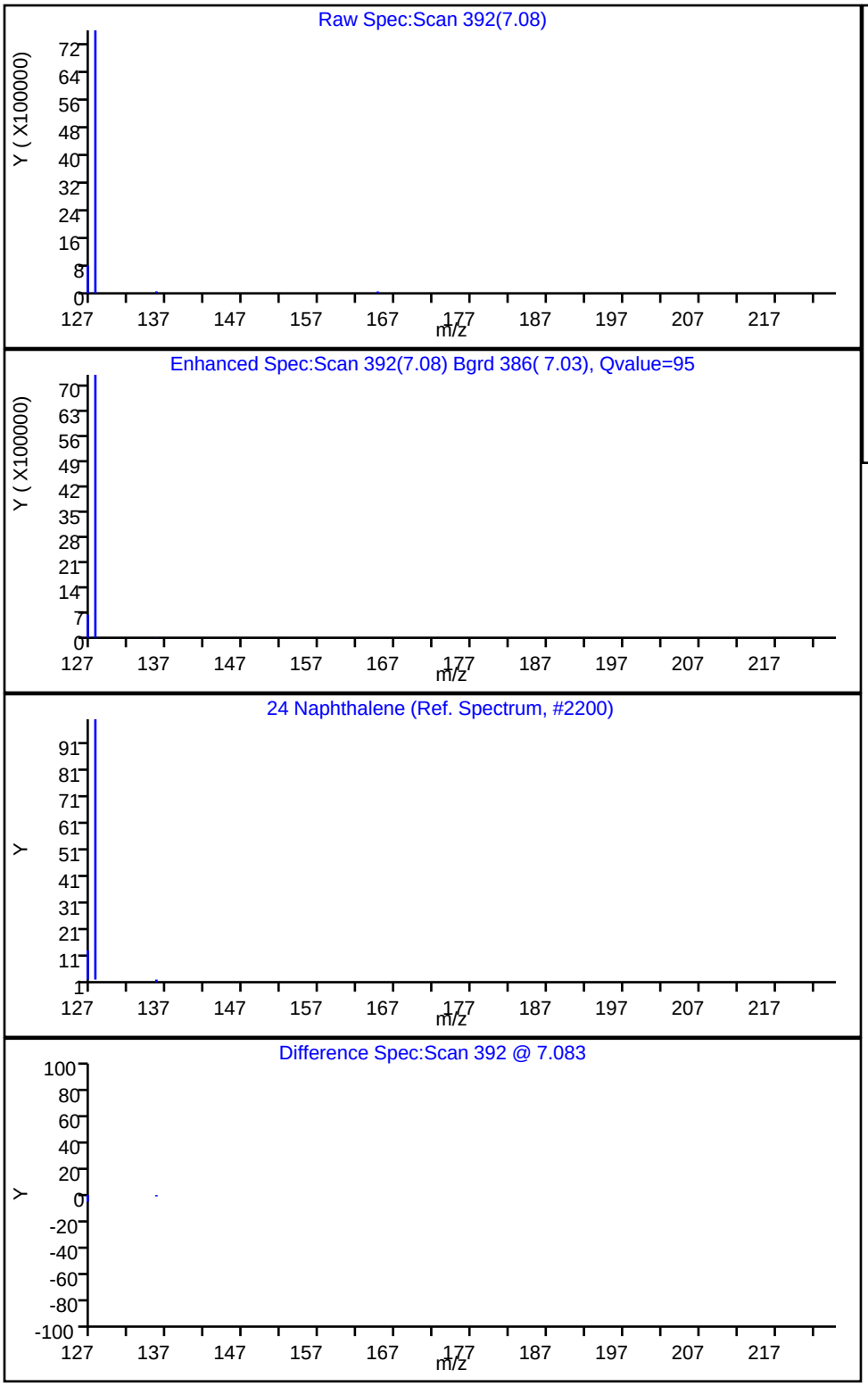
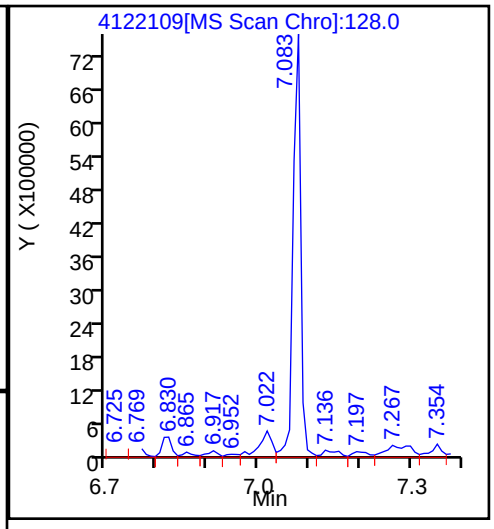
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene





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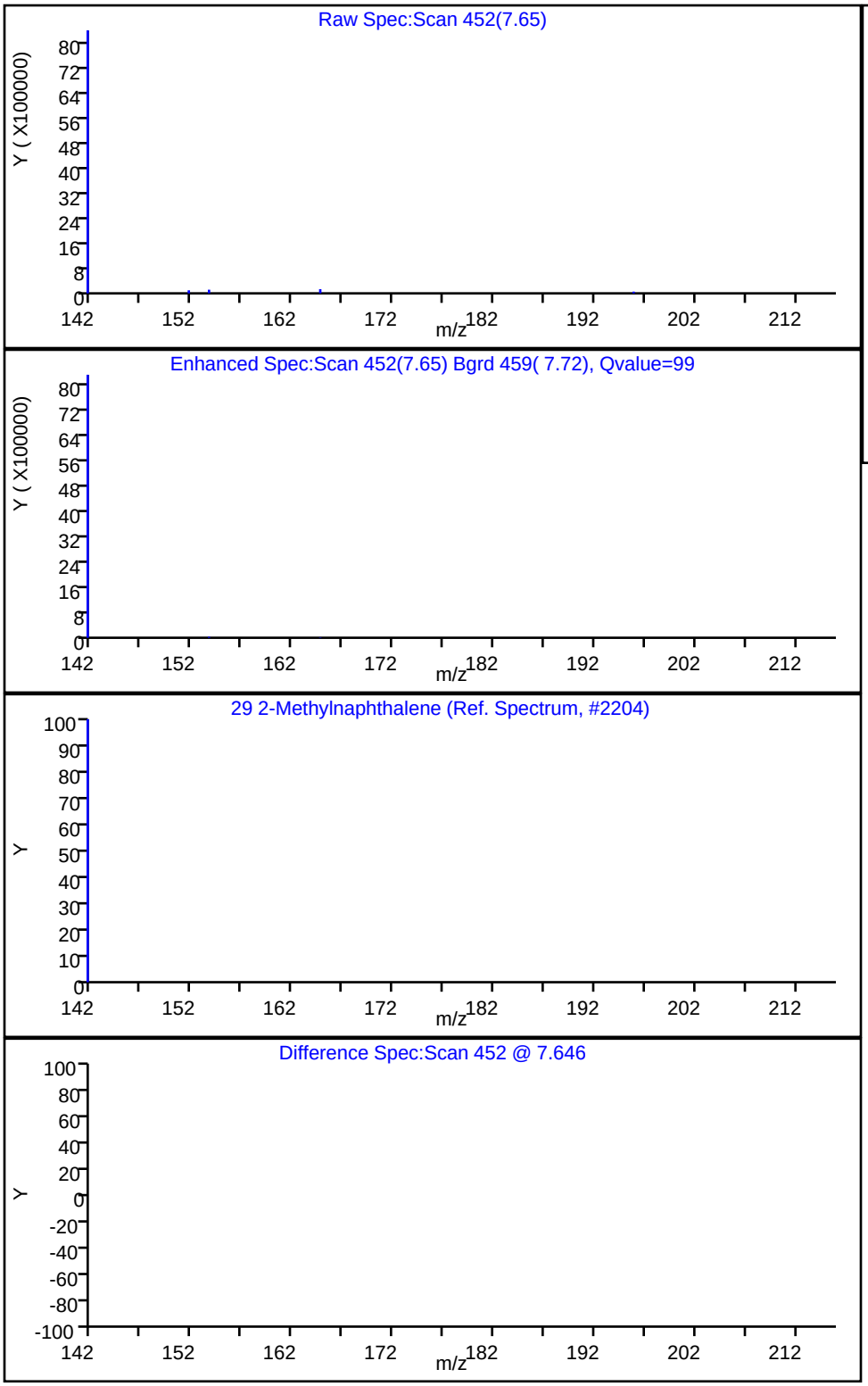
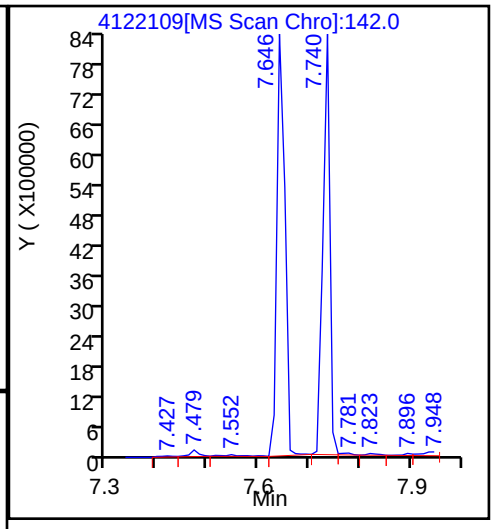
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene





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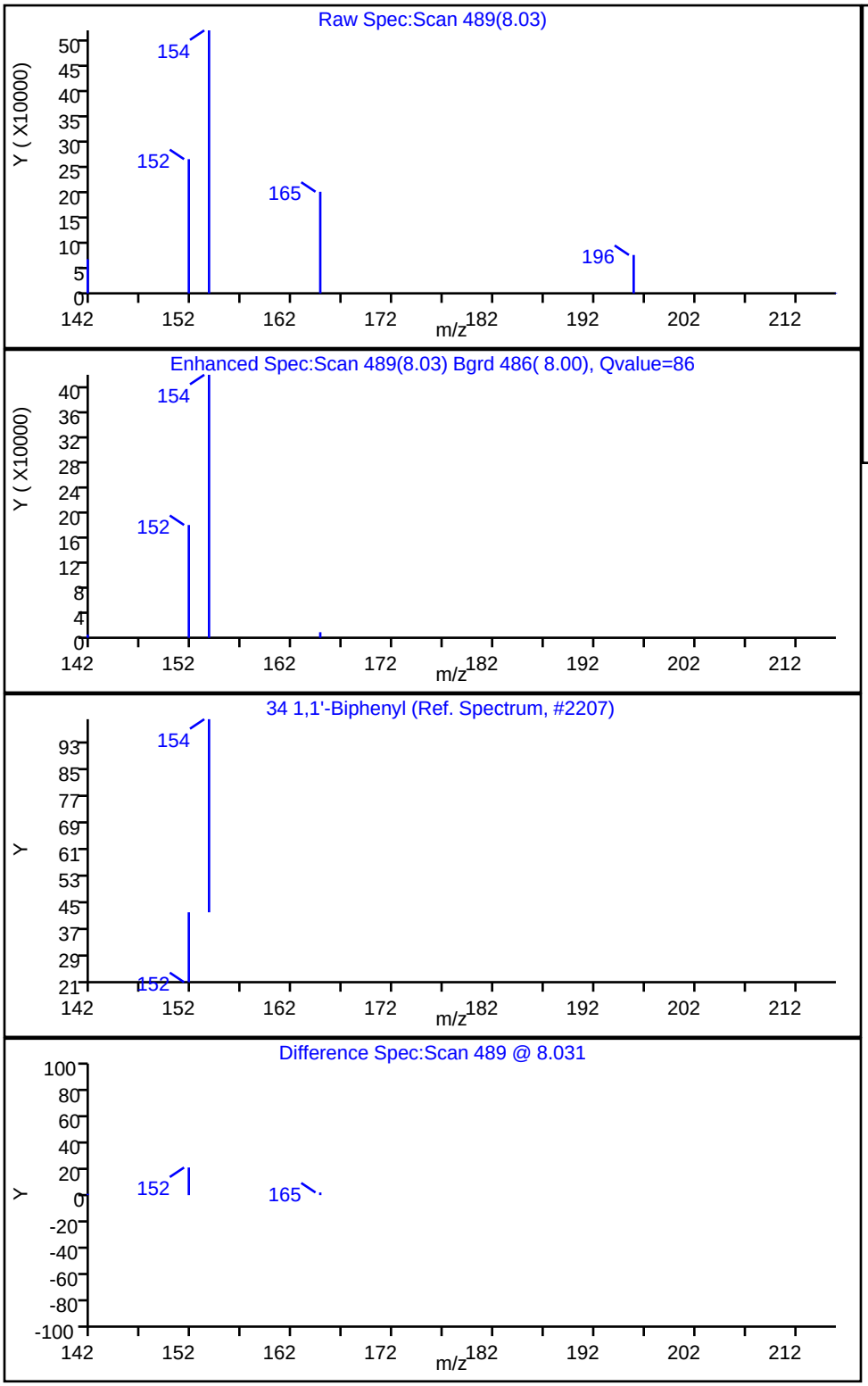
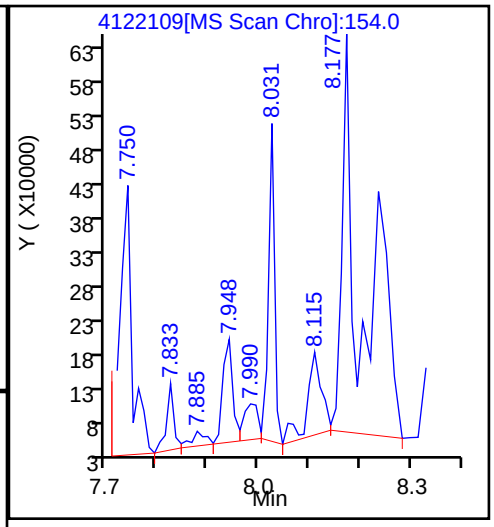
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

34 1,1'-Biphenyl





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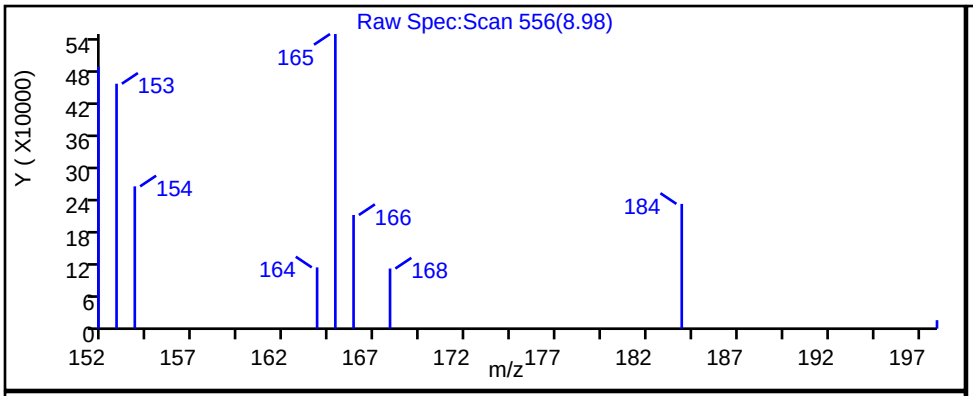
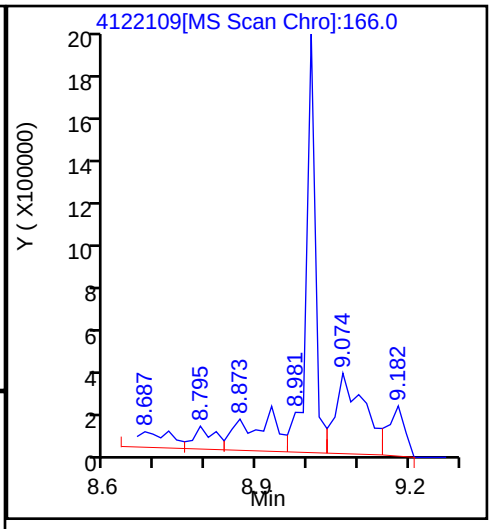
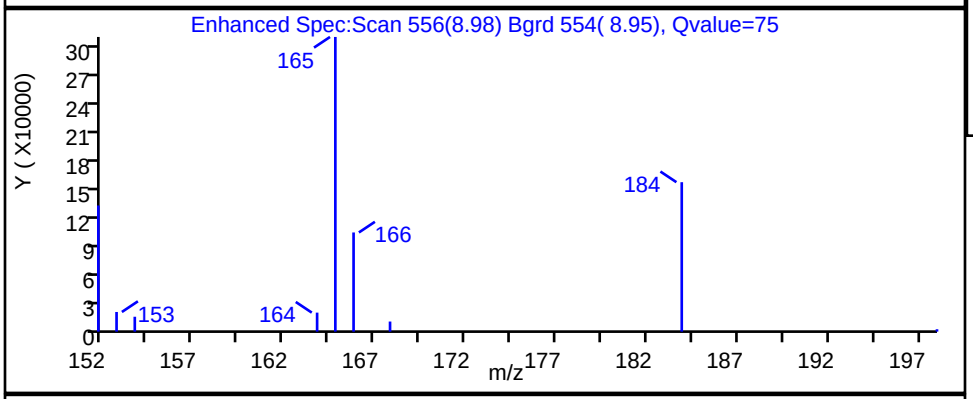
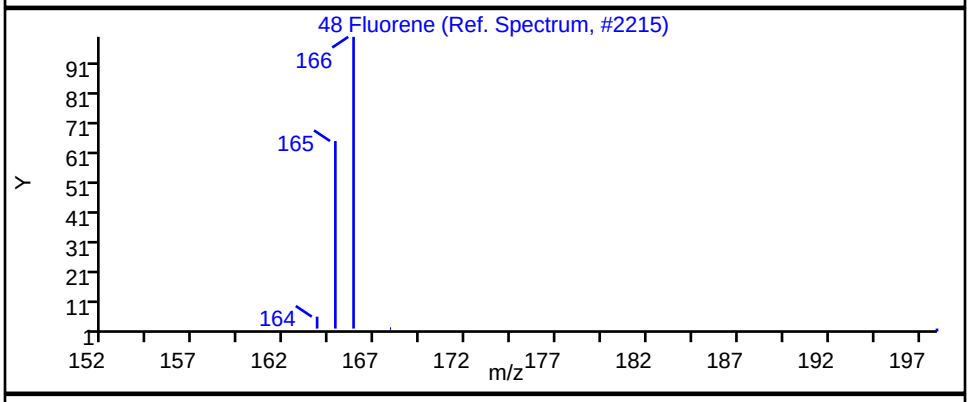
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

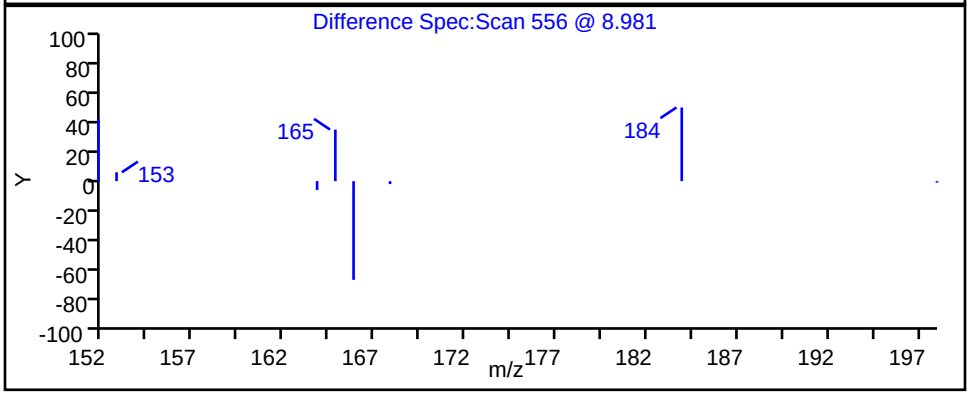
48 Fluorene











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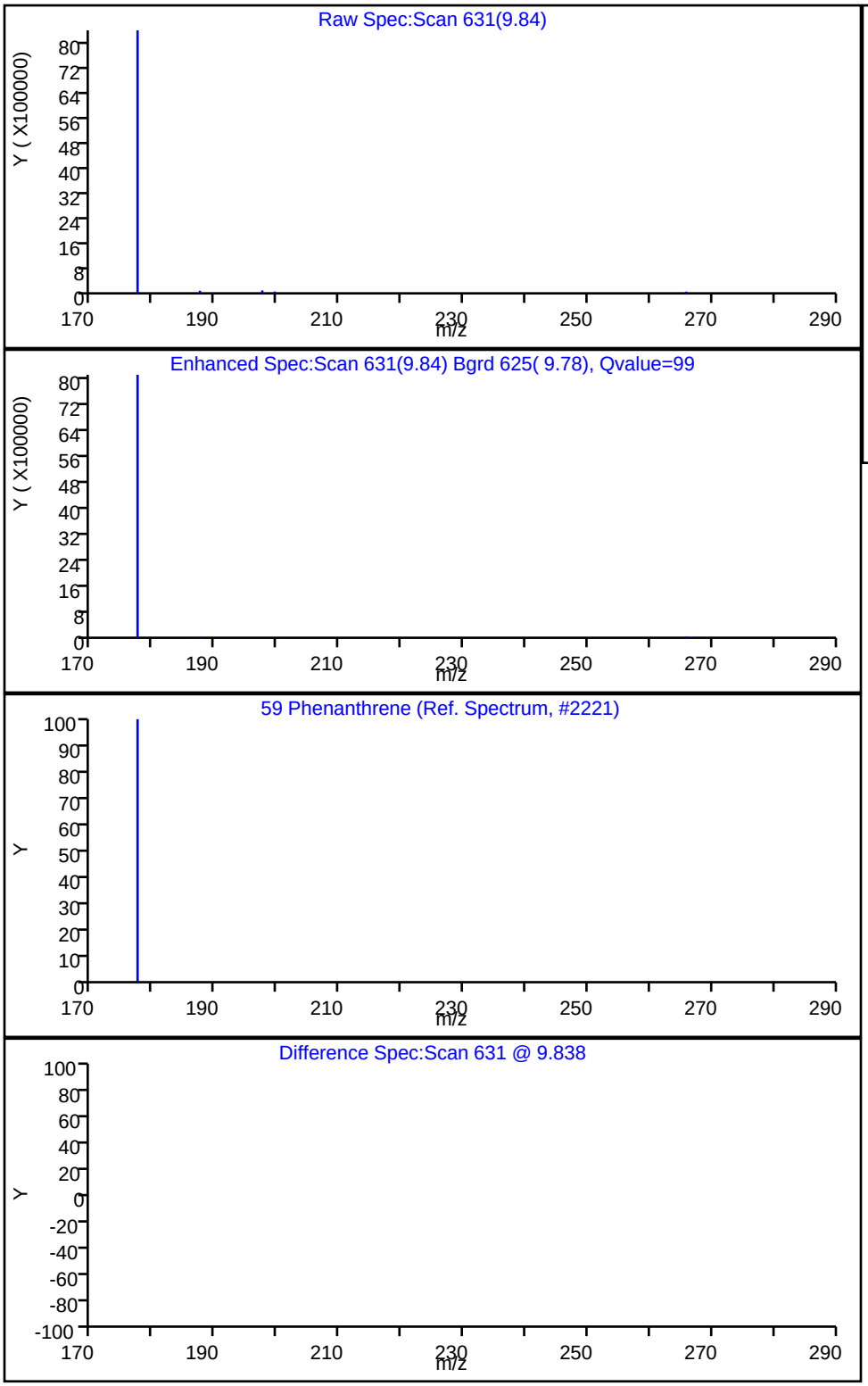
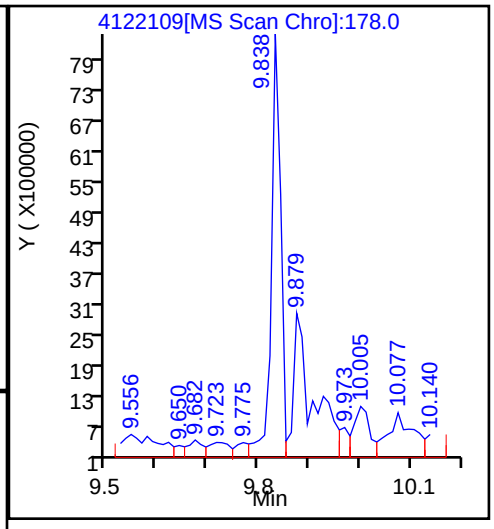
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene





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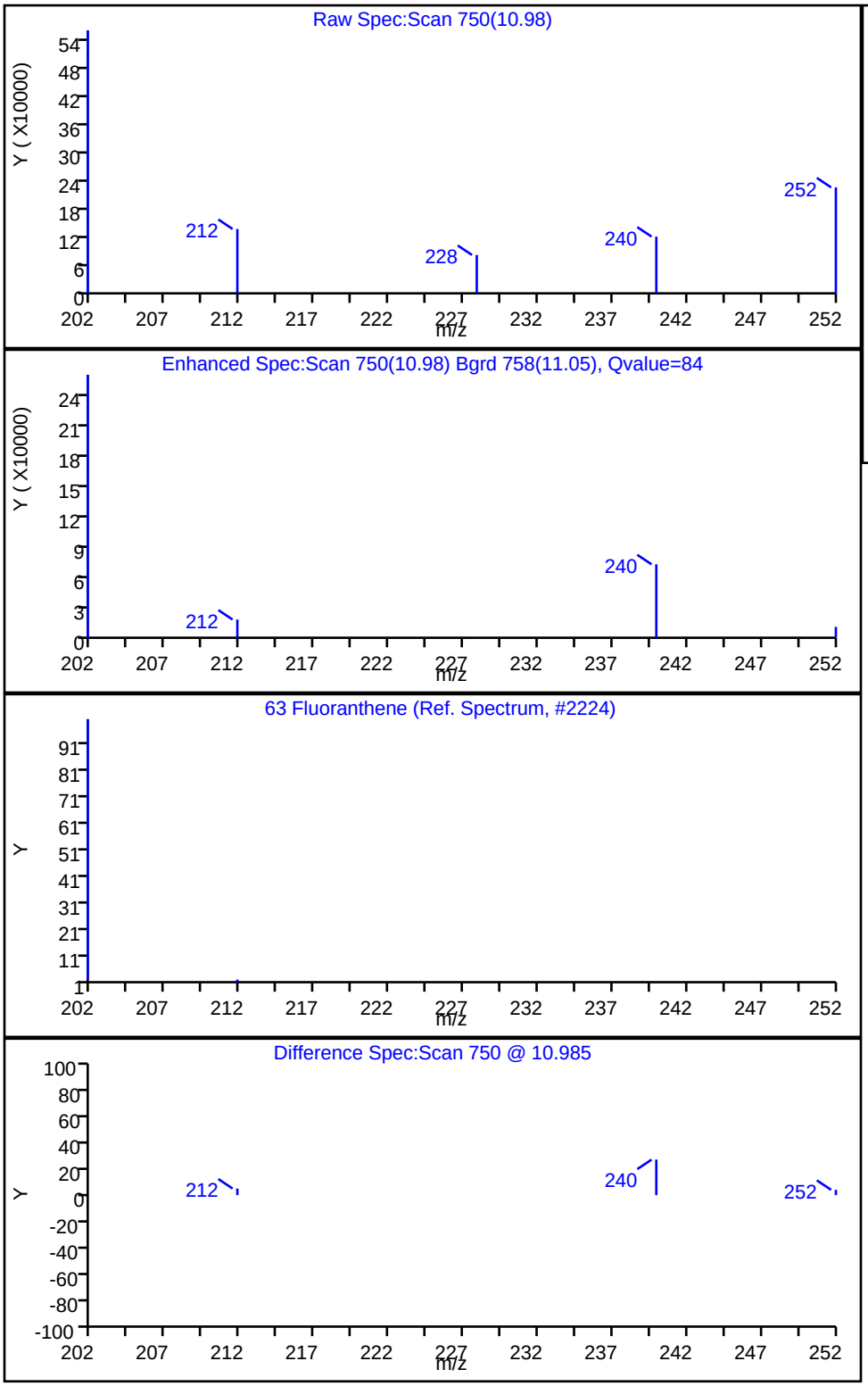
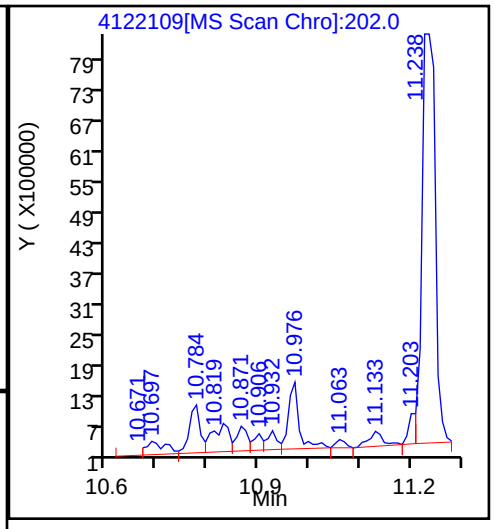
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

63 Fluoranthene





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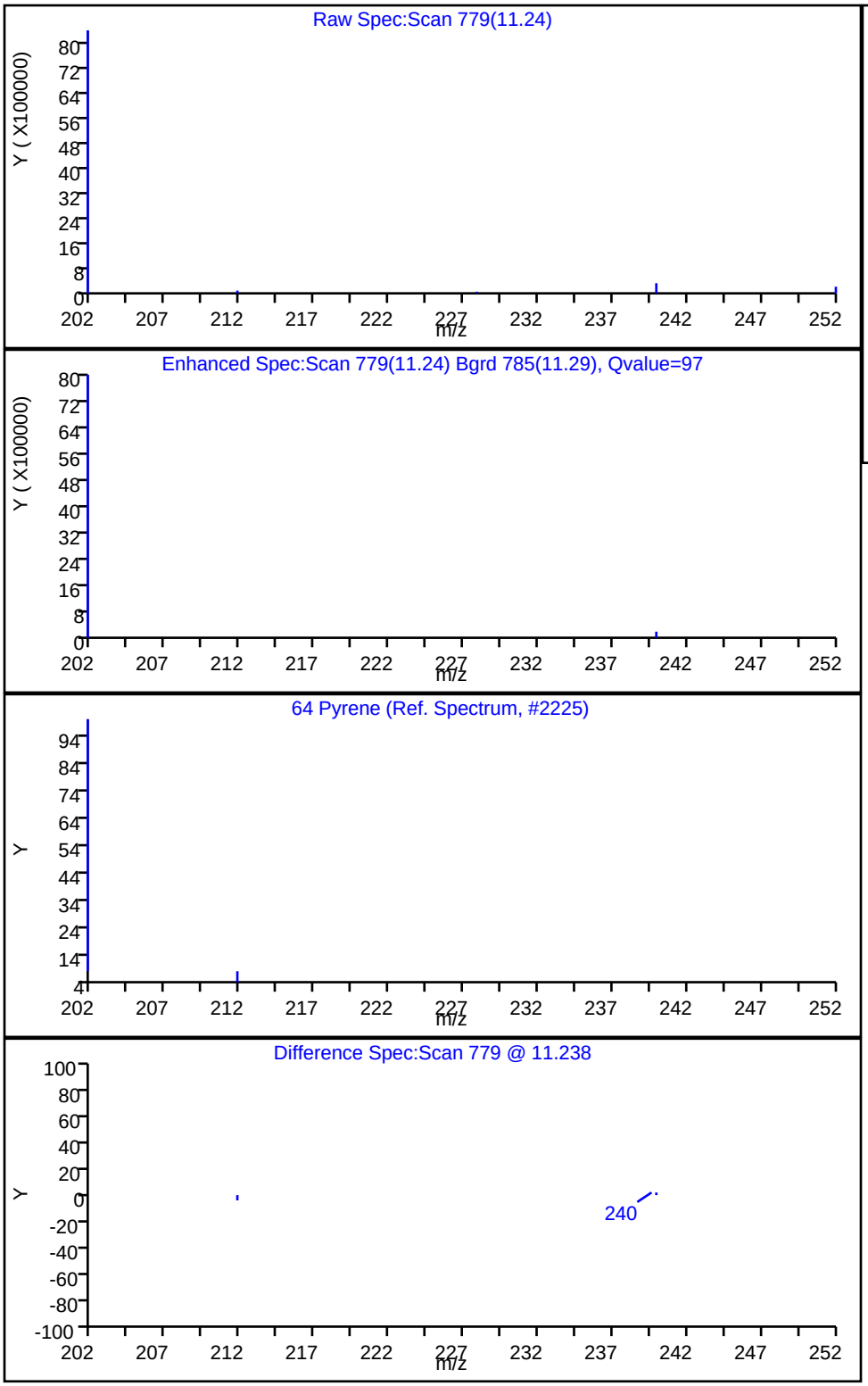
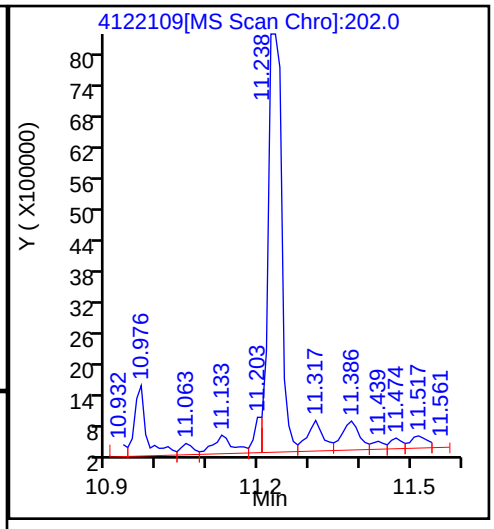
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

64 Pyrene





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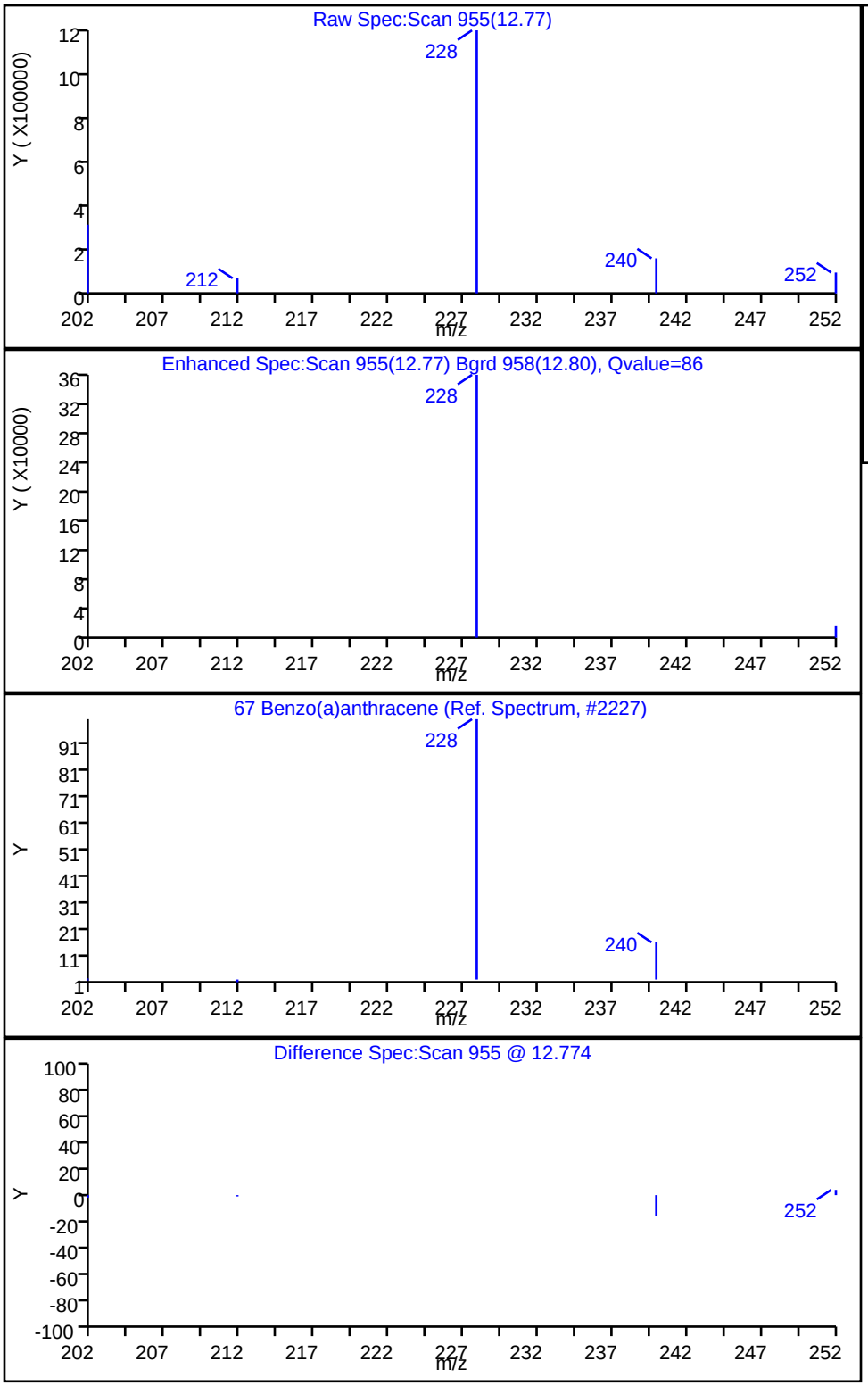
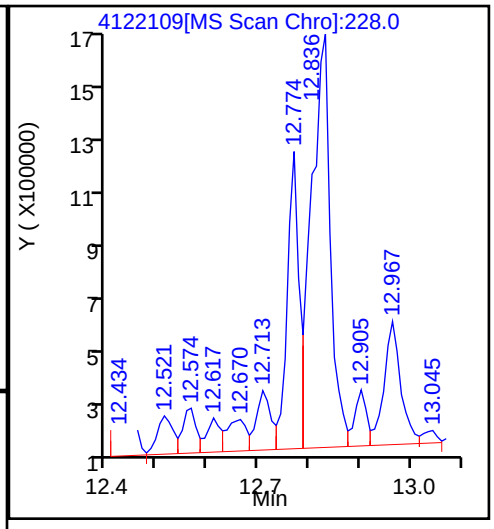
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

67 Benzo(a)anthracene





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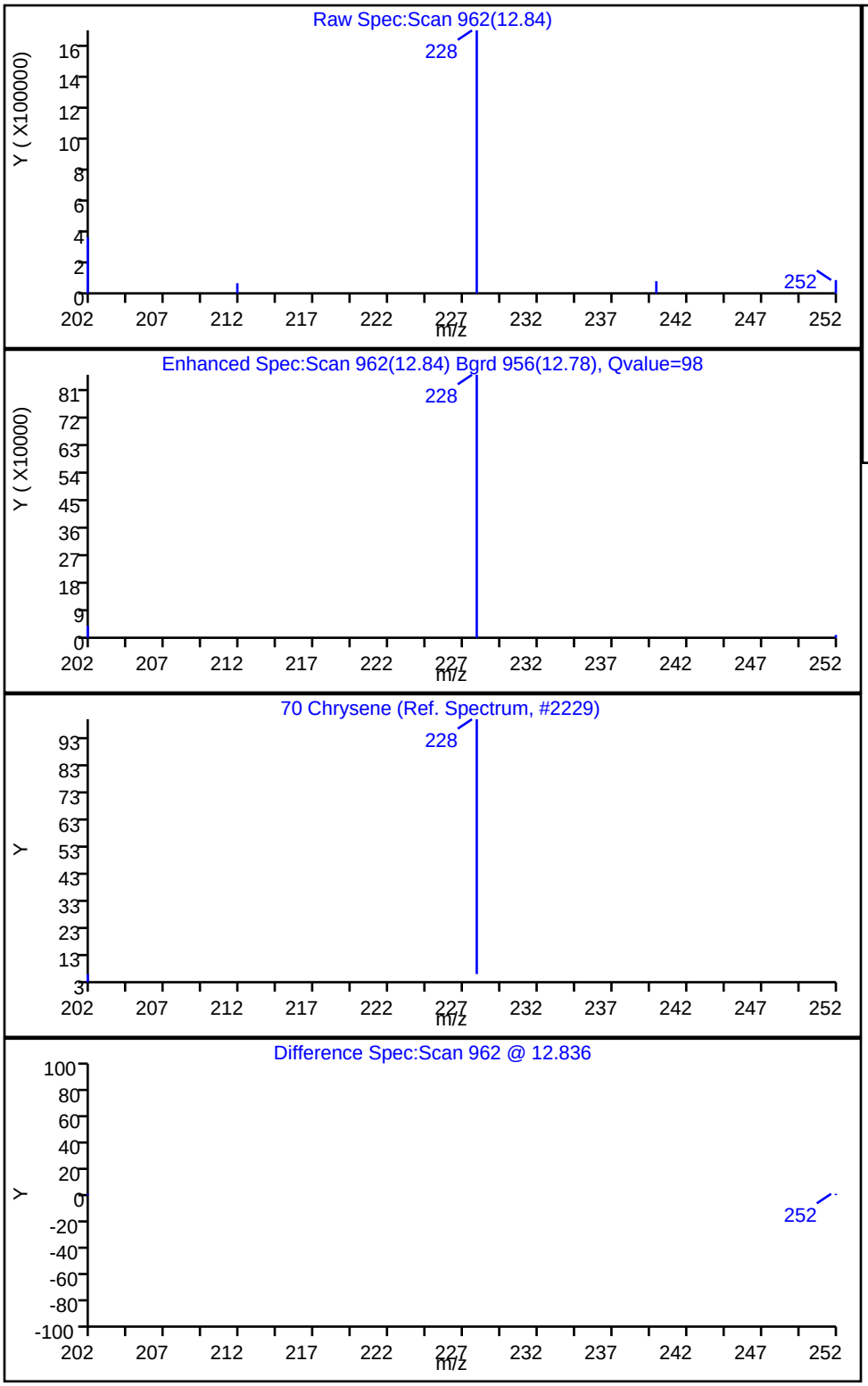
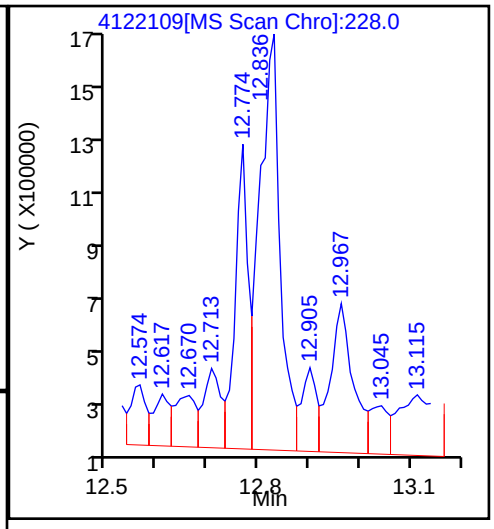
Injection Date:	21-Dec-2015 12:04:30	Inst. ID:	msd4.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene





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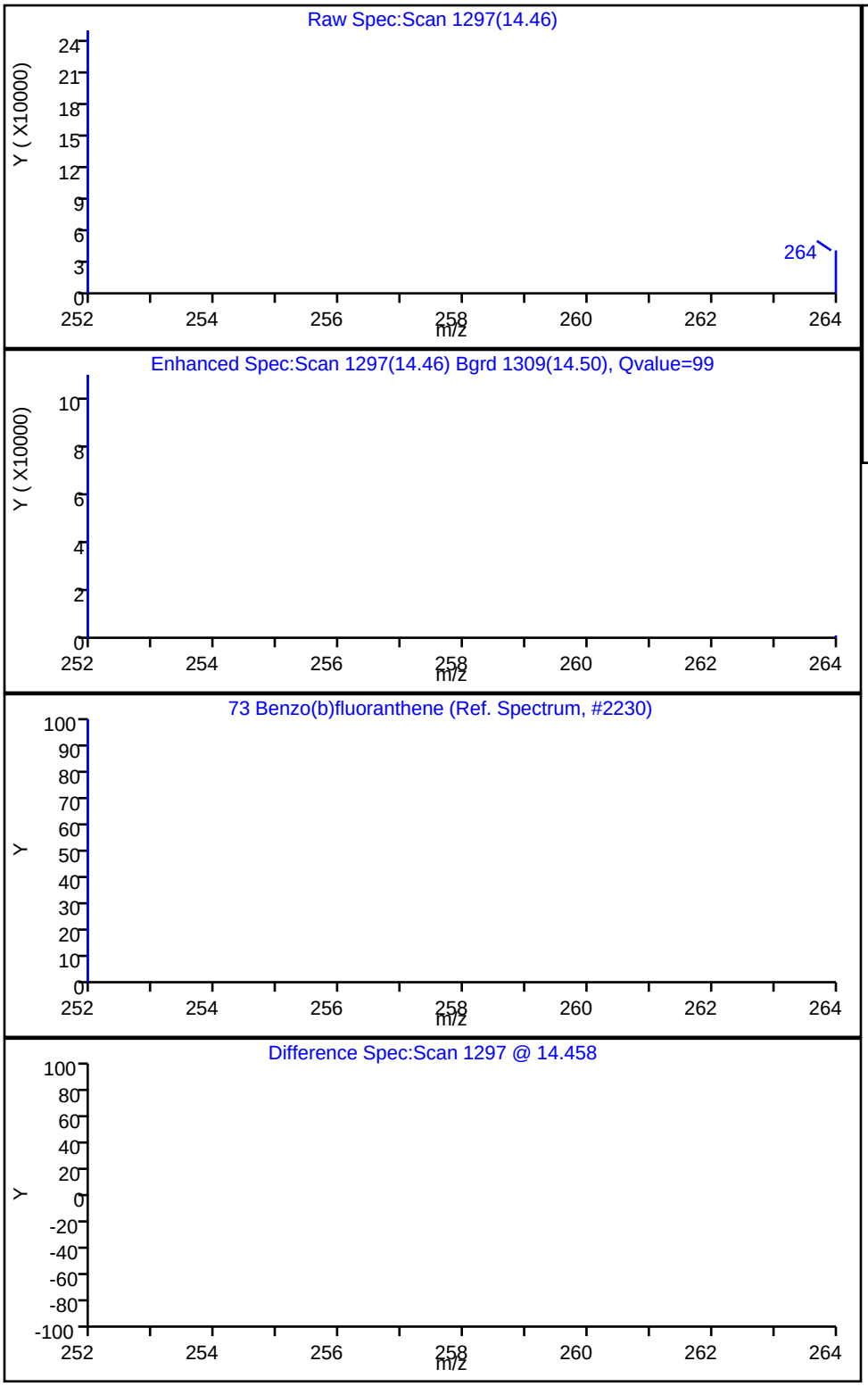
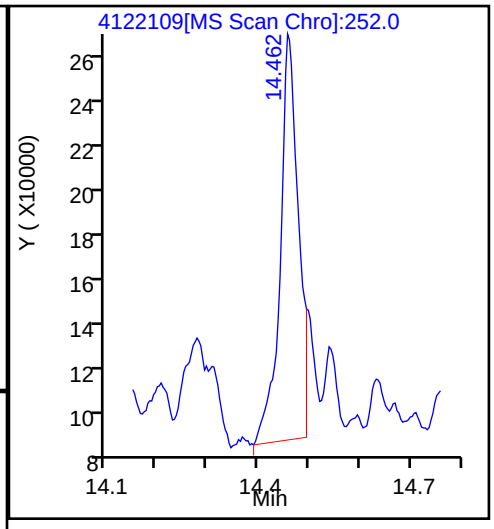
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

73 Benzo(b)fluoranthene





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Shealy Environmental Services

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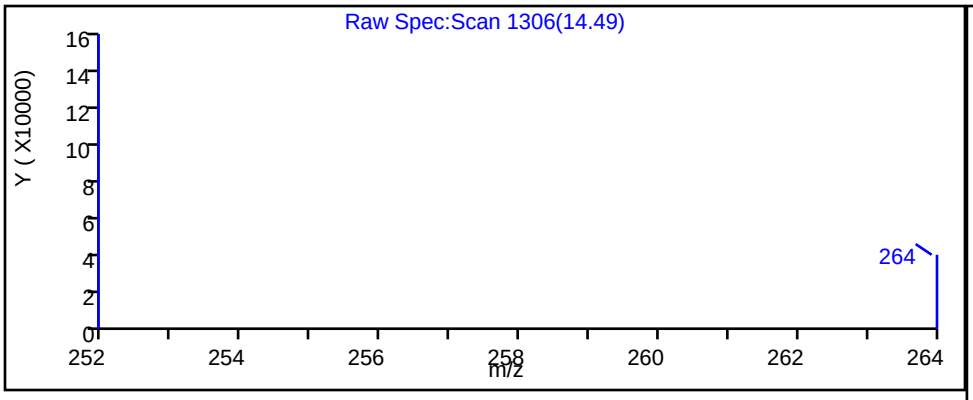
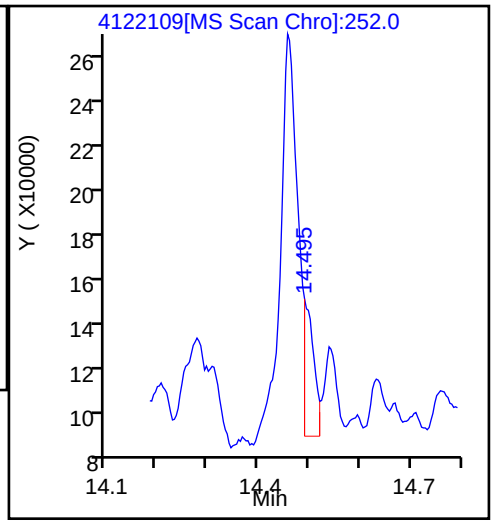
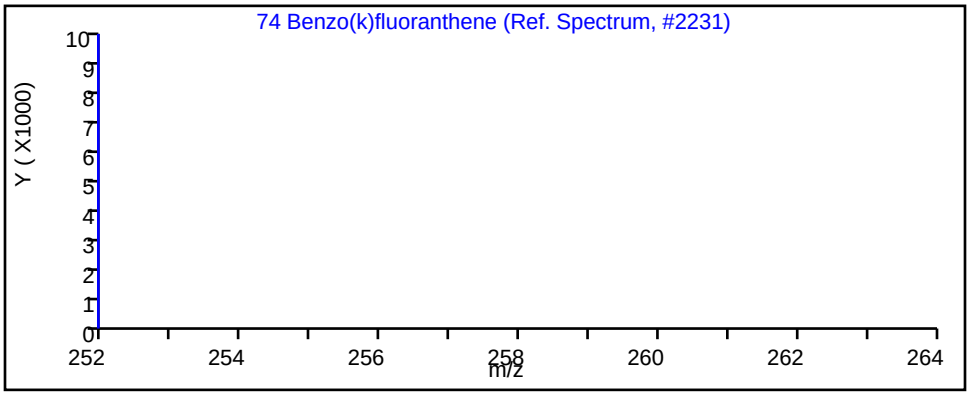
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

74 Benzo(k)fluoranthene







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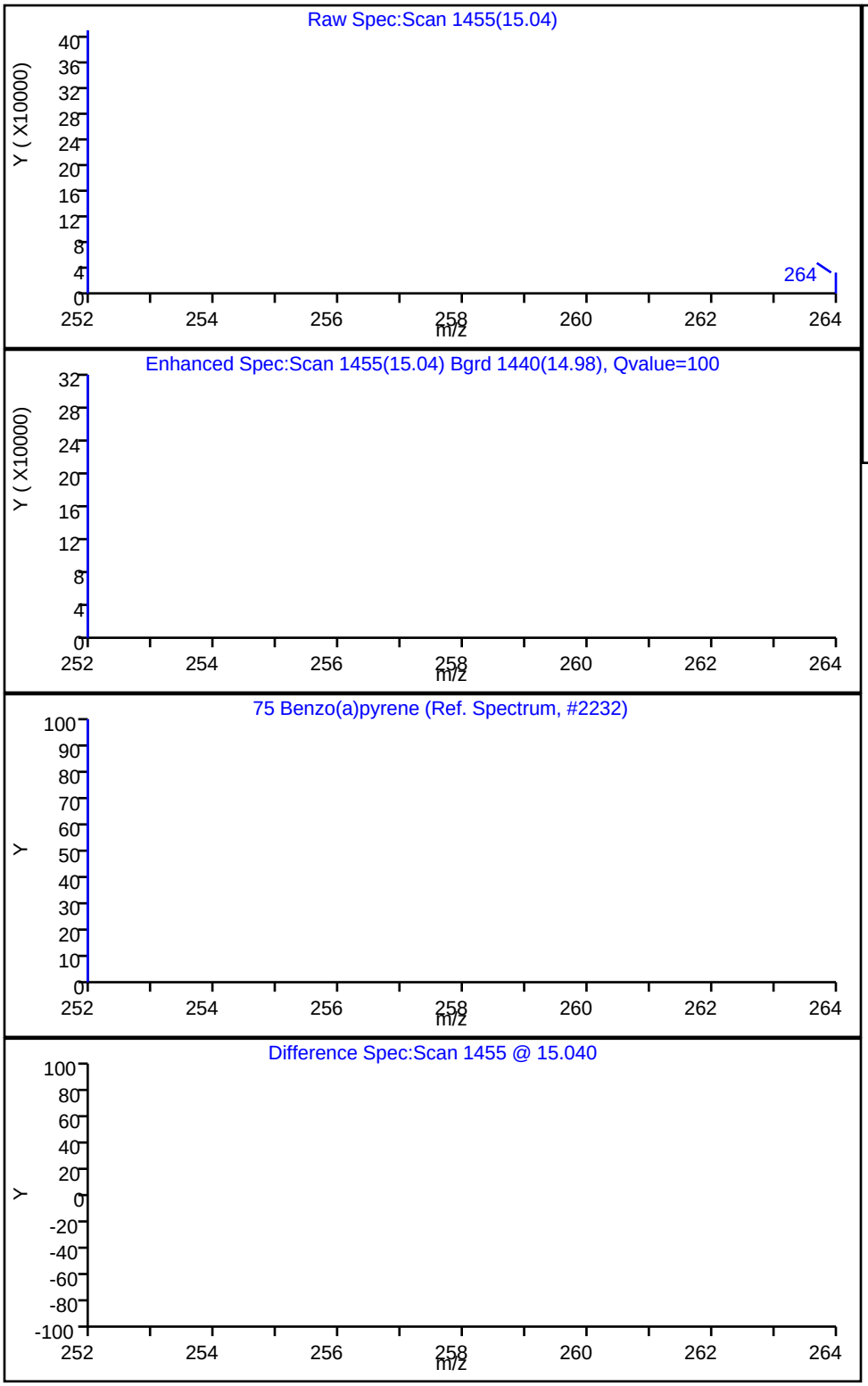
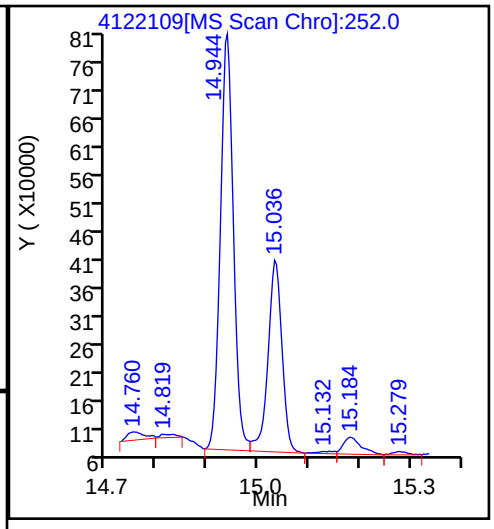
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

75 Benzo(a)pyrene





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Shealy Environmental Services

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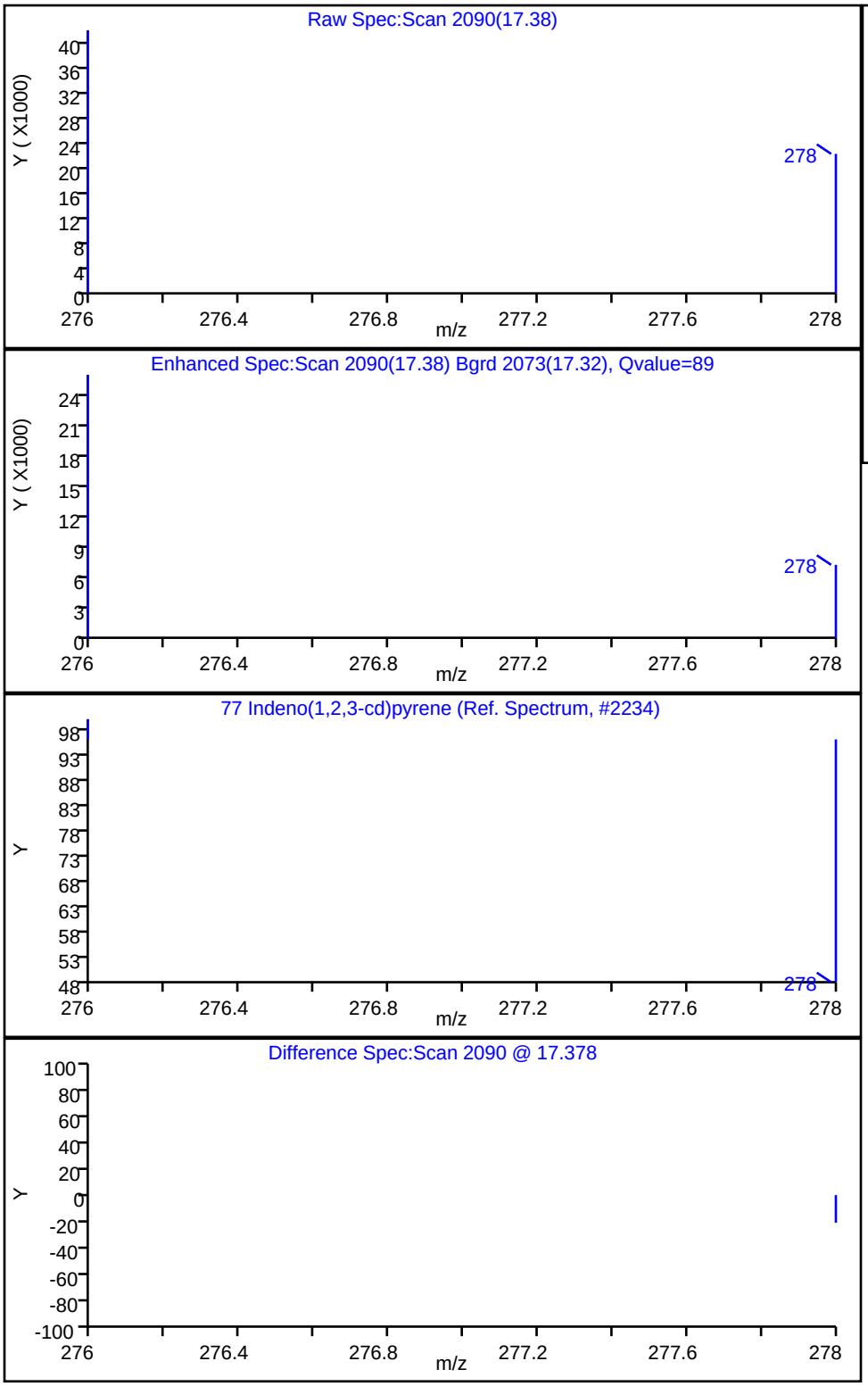
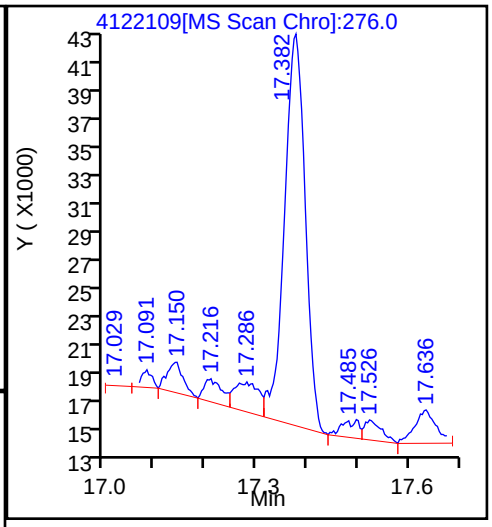
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

77 Indeno(1,2,3-cd)pyrene



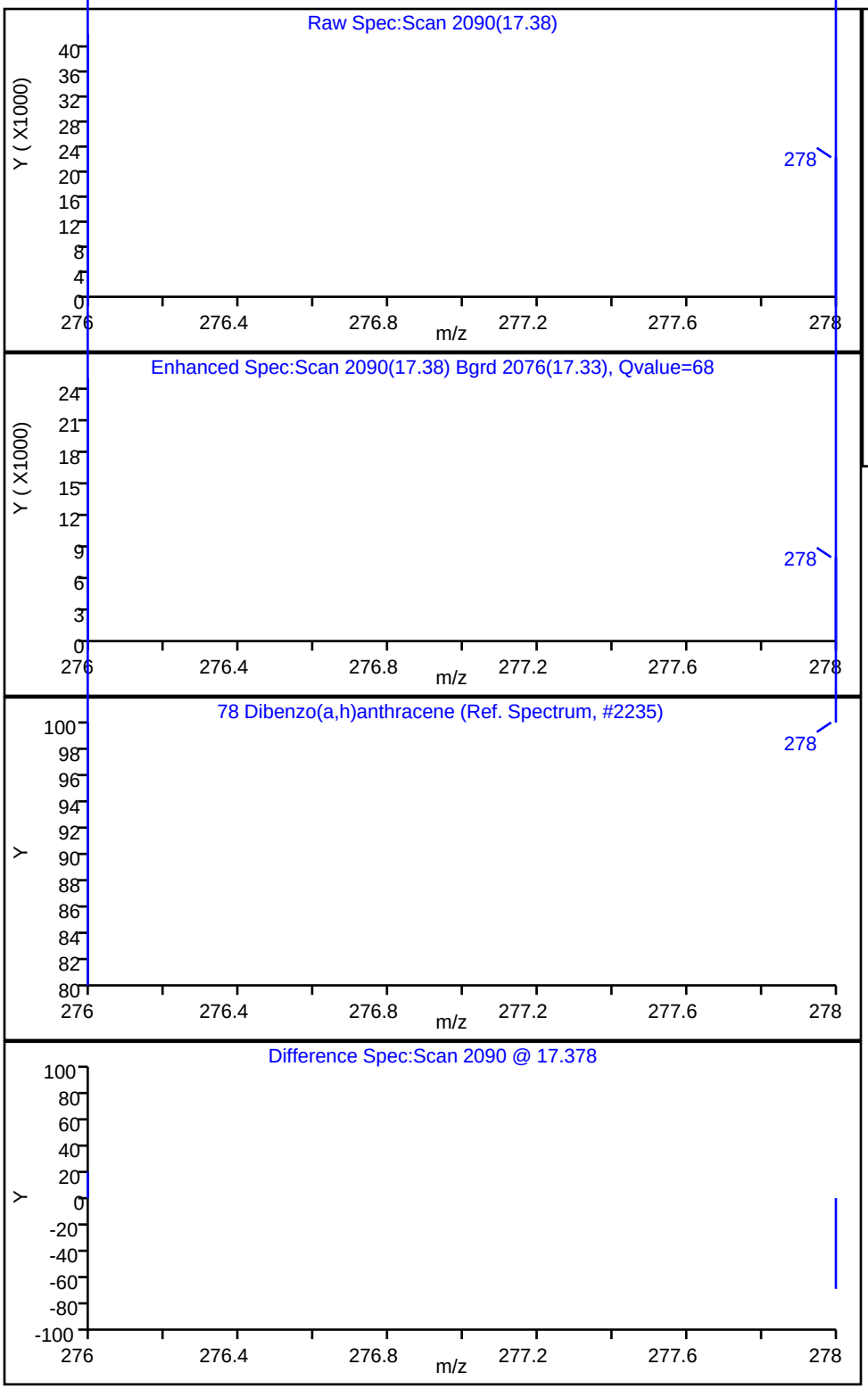


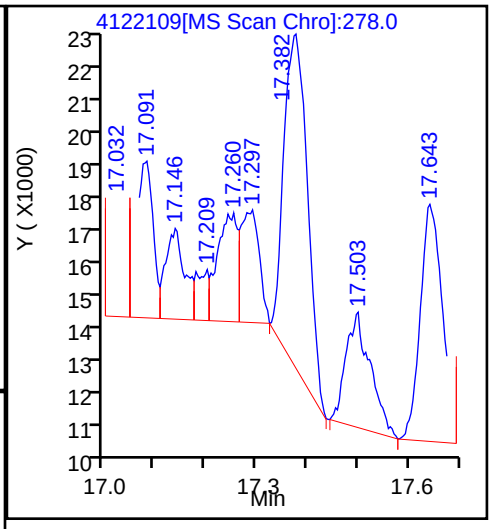
Report Date: 04-Jan-2016 15:15:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122109.D		
Injection Date:	21-Dec-2015 12:04:30	Inst. ID:	msd4.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

78 Dibenzo(a,h)anthracene



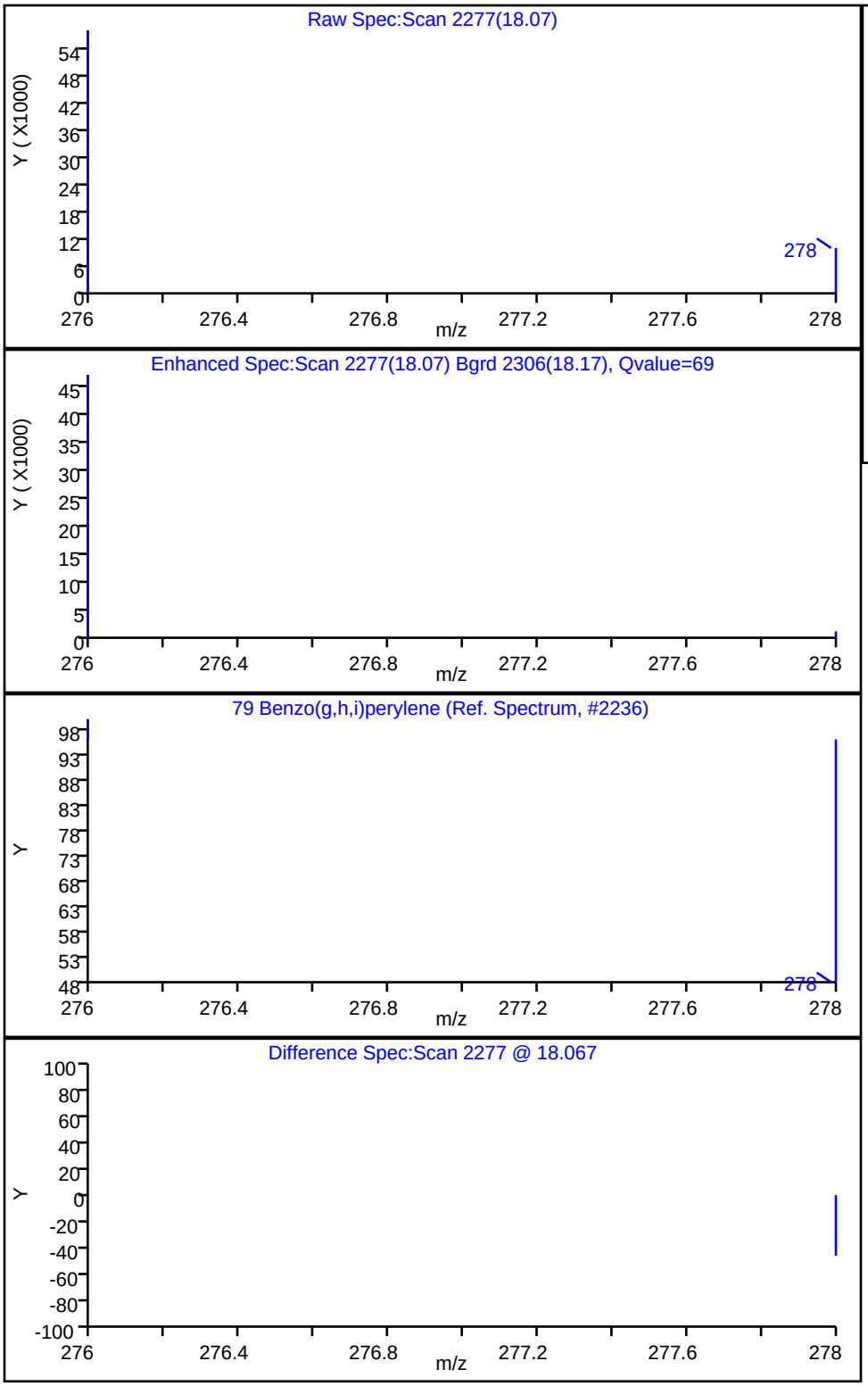


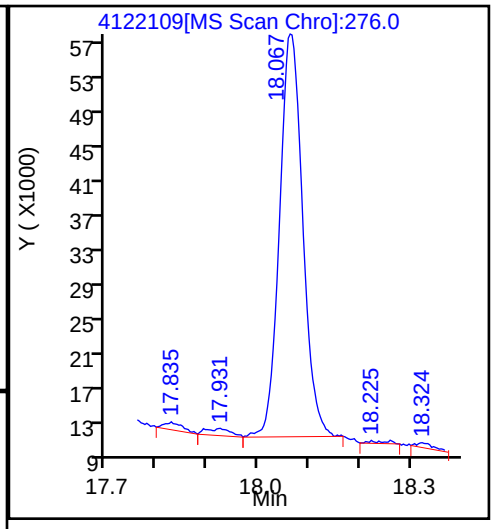
Report Date: 04-Jan-2016 15:15:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122109.D		
Injection Date:	21-Dec-2015 12:04:30	Inst. ID:	msd4.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

79 Benzo(g,h,i)perylene





Report Date: 04-Jan-2016 15:15:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

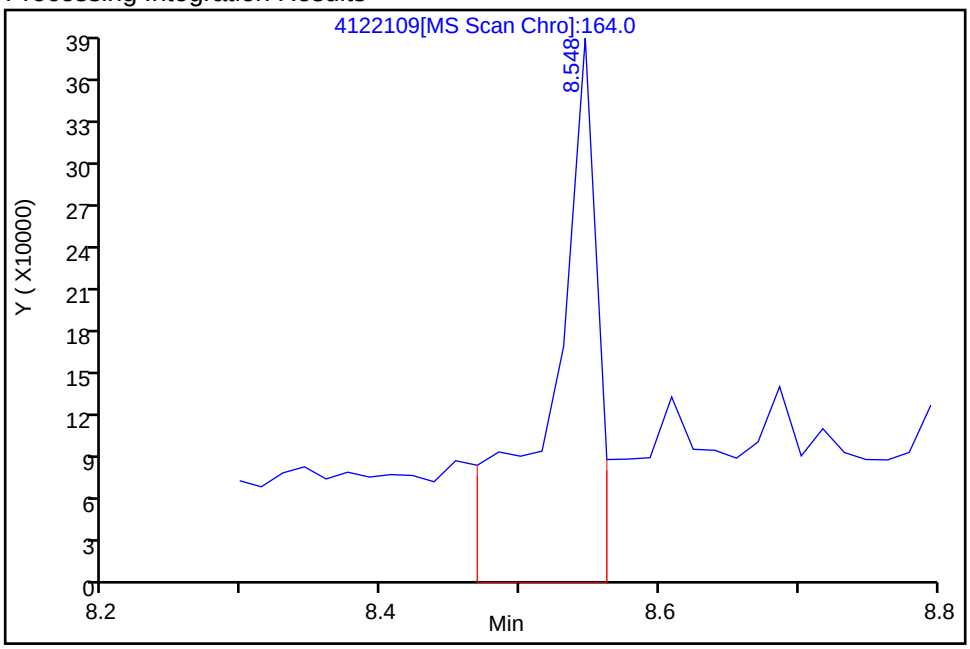
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122109.D		
Injection Date:	21-Dec-2015 12:04:30	Inst. ID:	msd4.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 41 Acenaphthene-d10, CAS: 15067-26-2

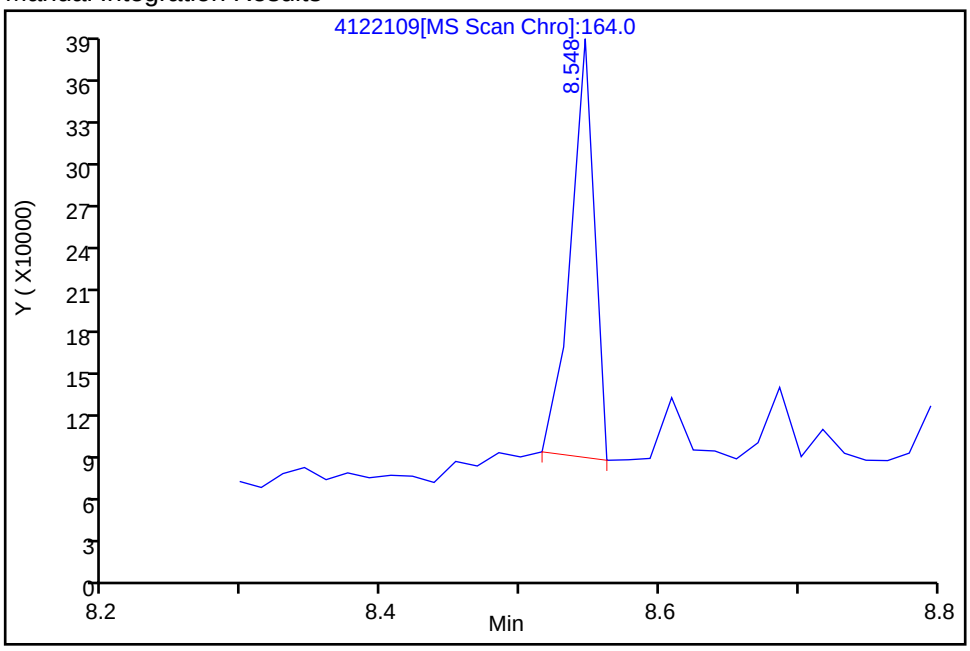
Processing Integration Results

RT: 8.548
Area: 734095
Conc: 169.12
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 8.548
Area: 348299
Conc: 338.25
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:23:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

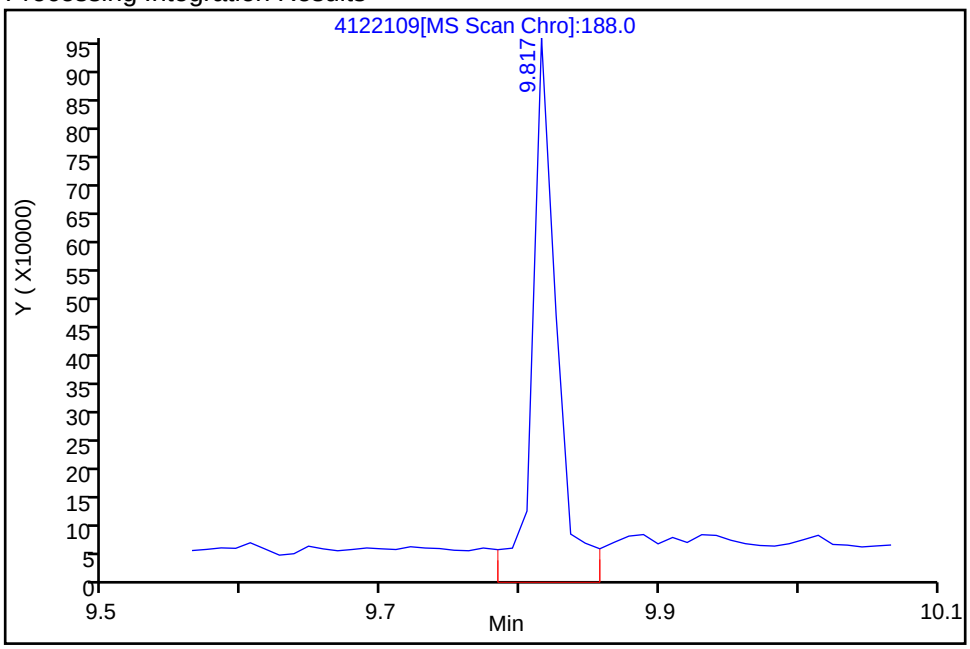
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122109.D		
Injection Date:	21-Dec-2015 12:04:30	Inst. ID:	msd4.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 58 Phenanthrene-d10, CAS: 1517-22-2

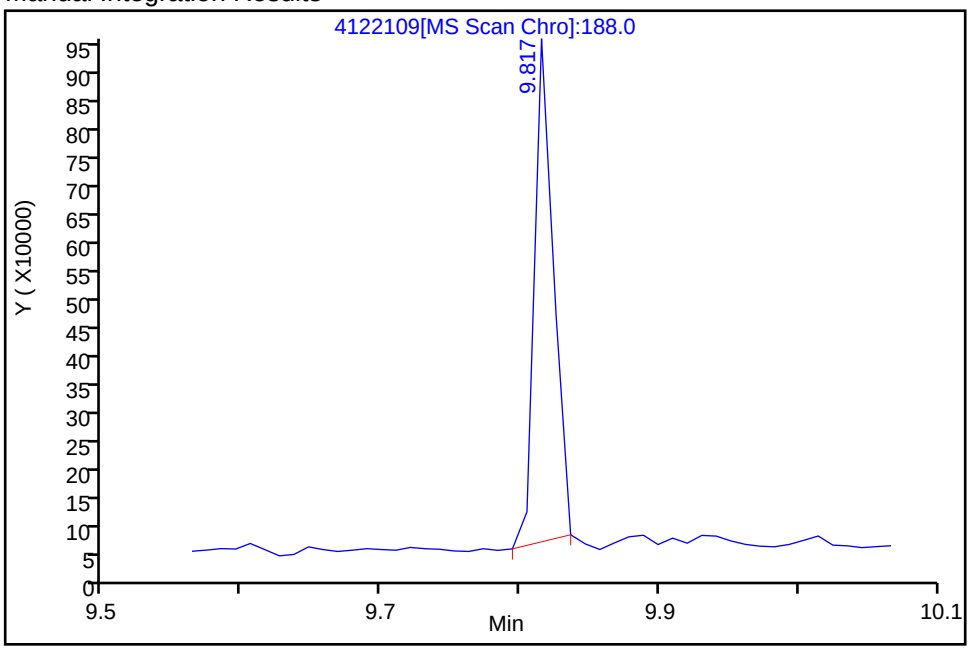
Processing Integration Results

RT: 9.817
Area: 1168332
Conc: 169.12
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 9.817
Area: 832042
Conc: 338.25
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:24:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

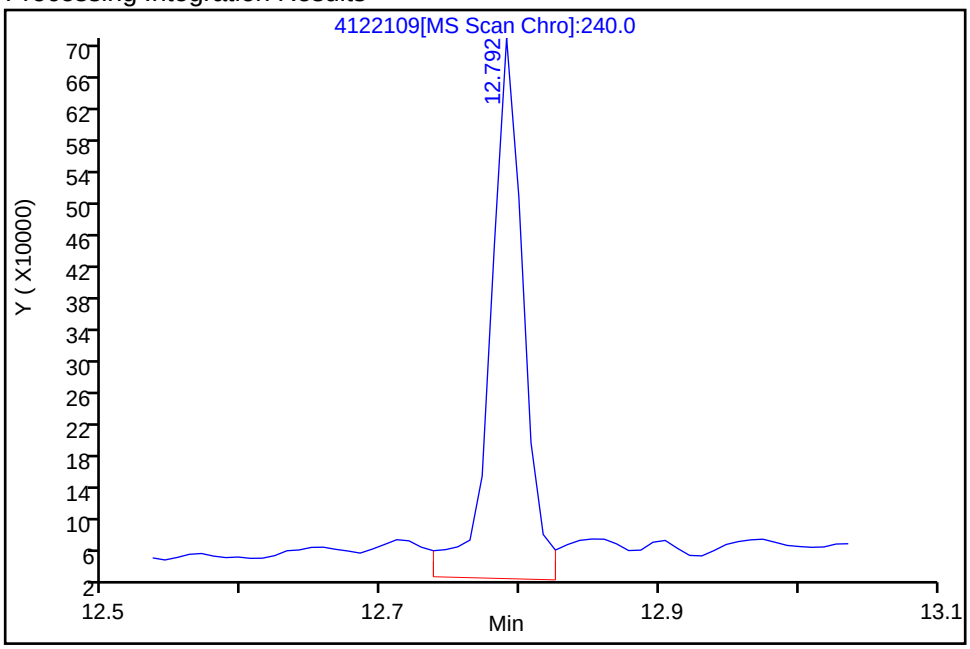
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122109.D		
Injection Date:	21-Dec-2015 12:04:30	Inst. ID:	msd4.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 69 Chrysene-d12, CAS: 1719-03-5

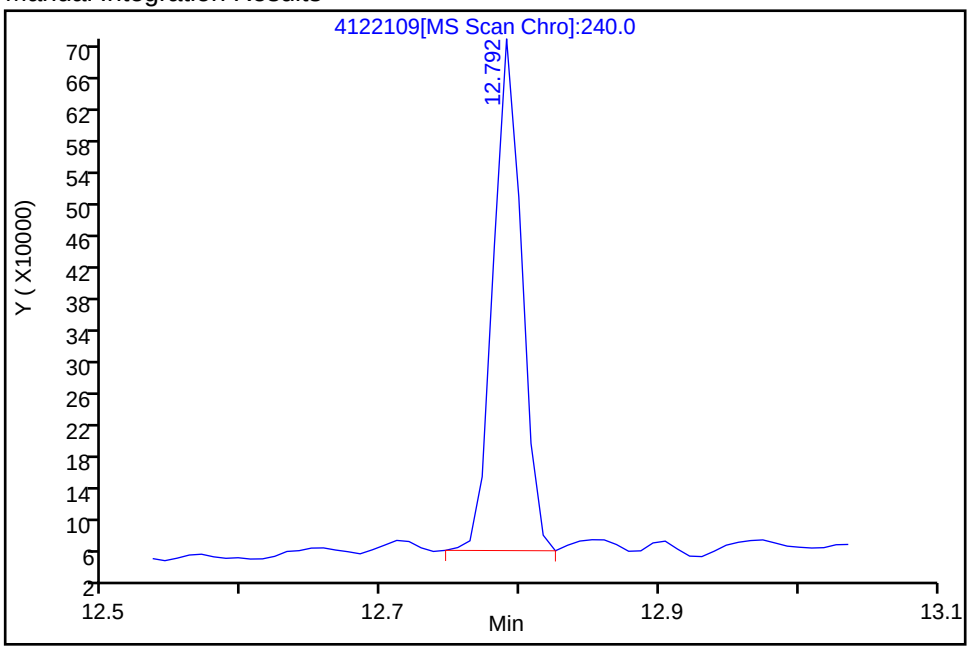
Processing Integration Results

RT: 12.792
Area: 1072914
Conc: 169.12
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 12.792
Area: 895601
Conc: 338.25
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:20:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

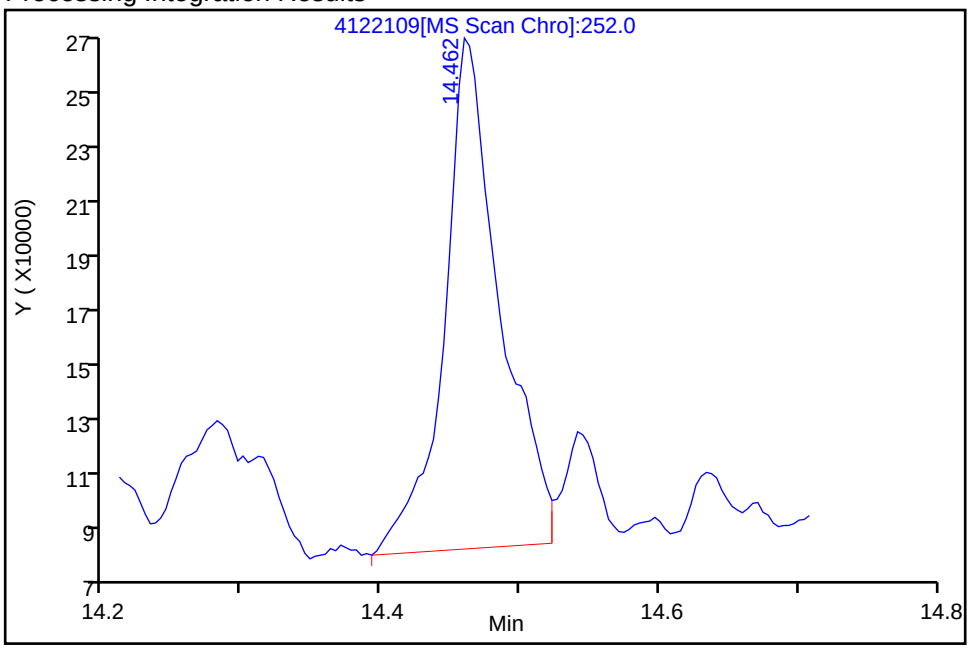
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122109.D		
Injection Date:	21-Dec-2015 12:04:30	Inst. ID:	msd4.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

73 Benzo(b)fluoranthene, CAS: 205-99-2

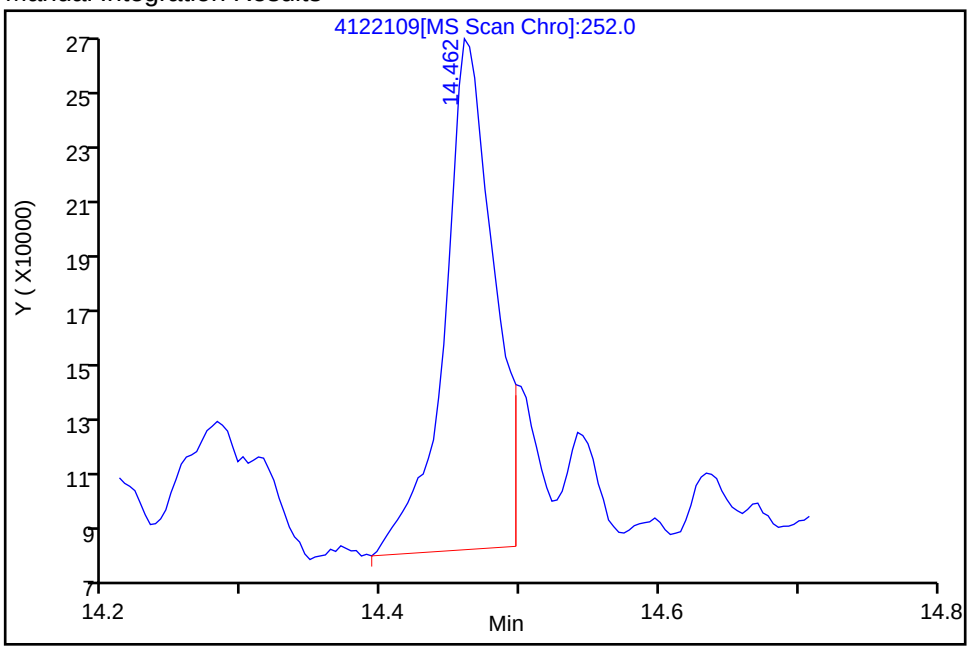
Processing Integration Results

RT: 14.462
Area: 489240
Conc: 166.32
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 14.462
Area: 437226
Conc: 297.28
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:25:30
Audit Action: Mint
Audit Reason: SP

Report Date: 04-Jan-2016 15:15:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

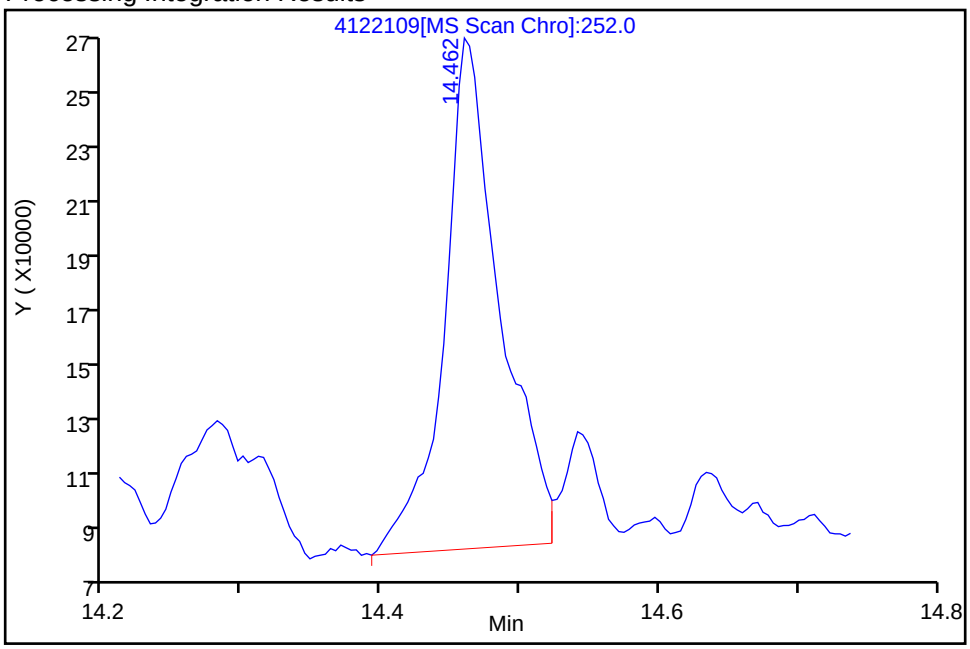
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122109.D		
Injection Date:	21-Dec-2015 12:04:30	Inst. ID:	msd4.i
Client ID:	F6R24	Lab ID:	QL12004-005
Sample Info:	4122115, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

74 Benzo(k)fluoranthene, CAS: 207-08-9

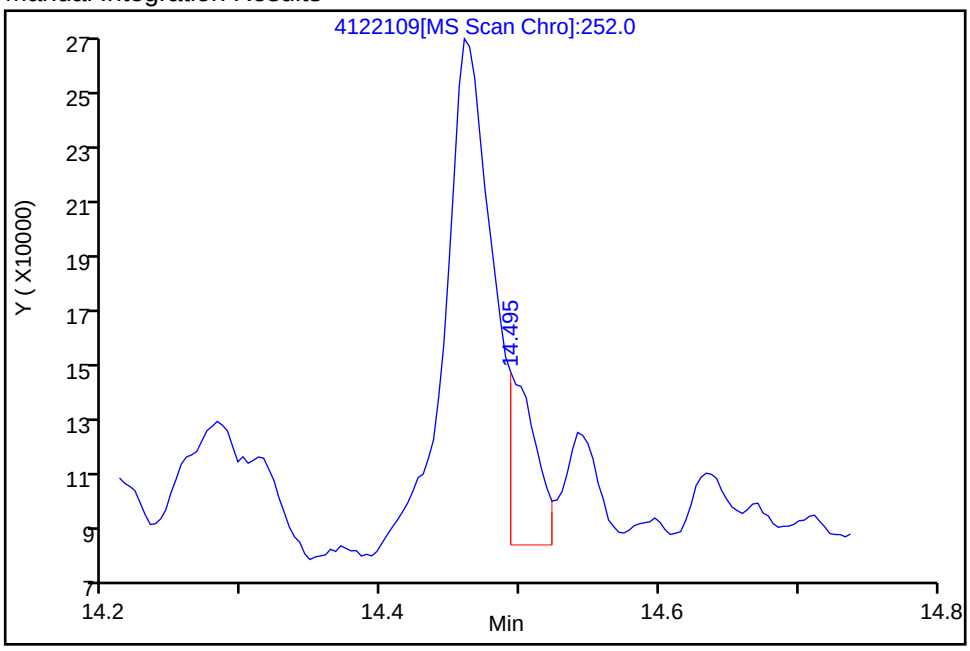
Processing Integration Results

RT: 14.462
Area: 489240
Conc: 167.30
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 14.495
Area: 79264
Conc: 54.209
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:26:30
Audit Action: Mint
Audit Reason: SP

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R24RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 1.00 (g/mL) g
Lab File ID: 41223B17
% Solids: 77.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/22/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 10.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	660	U
91-20-3	Naphthalene	38000	
91-57-6	2-Methylnaphthalene	91000	E
208-96-8	Acenaphthylene	660	U
83-32-9	Acenaphthene	660	U
86-73-7	Fluorene	11000	
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	86000	E
120-12-7	Anthracene	40000	
206-44-0	Fluoranthene	9100	
129-00-0	Pyrene	70000	E
56-55-3	Benzo(a)anthracene	8000	
218-01-9	Chrysene	17000	
205-99-2	Benzo(b)fluoranthene	2800	
207-08-9	Benzo(k)fluoranthene	890	
50-32-8	Benzo(a)pyrene	5400	
193-39-5	Indeno(1,2,3-cd)pyrene	1100	
53-70-3	Dibenzo(a,h)anthracene	760	
191-24-2	Benzo(g,h,i)perylene	2200	
132-64-9	Dibenzofuran	660	U
118-74-1	Hexachlorobenzene	660	U
87-68-3	Hexachlorobutadiene	1300	U
111-44-4	bis(2-Chloroethyl)ether	1300	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1300	U
621-64-7	N-Nitrosodi-n-propylamine	660	U
67-72-1	Hexachloroethane	1300	U
98-95-3	Nitrobenzene	1300	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R24RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-005
Sample wt/vol: 1.00 (g/mL) g
Lab File ID: 41223B17
% Solids: 77.8
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/22/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 10.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	1300	U
88-06-2	2,4,6-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	3600	
606-20-2	2,6-Dinitrotoluene	660	U
51-28-5	2,4-Dinitrophenol	13000	U
121-14-2	2,4-Dinitrotoluene	660	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1300	U
1912-24-9	Atrazine	1300	U
91-94-1	3,3'-Dichlorobenzidine	1300	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B17.D		
Lab Sample ID:	QL12004-005	Client Sample ID:	F6R24RX
Injection Date:	23-Dec-2015 16:54:30	Dil. Factor:	10.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122315B, QL12004-005		
Misc. Info:	92838 10X		
Method:	\\Organics\HH\chem\msd4.i\4122315B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	10
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	1.0000	Weight of sample extracted (g)
M	22.200	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	04-Jan-2016 13:31:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.727	3.761	-0.034	4014	0.02509	322.48	eR
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.727		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.762		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	111482	0.40000	5141.39	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.288		ND			
15 Hexachloroethane	117.0		6.434		ND			
$ 16 Nitrobenzene-d5	128.0	6.405	6.455	-0.050	101398	0.70121	9012.93	R
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.935	6.917	0.018	16349	0.05351	687.73	eR
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	529131	0.40000	5141.39	
24 Naphthalene	128.0	7.075	7.074	0.001	4037667	2.9422	37818	
25 4-Chloroaniline	127.0		7.092		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.594	7.615	-0.021	24128	0.03298	423.90	eR
29 2-Methylnaphthalene	142.0	7.636	7.635	0.001	5719100	7.0581	90722	E
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0	8.021	8.021	0.000	437214	0.27780	3570.65	
39 2,6-Dinitrotoluene	165.0		8.316		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	279625	0.40000	5141.39	

Report Date: 04-Jan-2016 13:32:24 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B17.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0		8.703		ND			
48 Fluorene	166.0	8.996	8.996	0.000	834491	0.84384	10846	
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.473		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.807	9.807	0.000	420164	0.40000	5141.39	
59 Phenanthrene	178.0	9.828	9.827	0.001	7694211	6.7240	86427	E
60 Anthracene	178.0	9.869	9.869	0.000	3494130	3.1429	40397	
$ 116 Flouranthene-d10	212.0	10.950	10.932	0.018	170196	0.15362	1974.61	R
63 Fluoranthene	202.0	10.959	10.950	0.009	874598	0.70427	9052.30	
64 Pyrene	202.0	11.221	11.212	0.009	8192292	5.4686	70291	E
68 3,3'-Dichlorobenzidine	252.0		12.652		ND			
67 Benzo(a)anthracene	228.0	12.748	12.740	0.008	846223	0.62391	8019.44	
* 69 Chrysene-d12	240.0	12.766	12.757	0.009	546369	0.40000	5141.39	
70 Chrysene	228.0	12.801	12.801	0.000	1827995	1.3578	17453	
73 Benzo(b)fluoranthene	252.0	14.432	14.418	0.014	319981	0.21830	2805.93	
74 Benzo(k)fluoranthene	252.0	14.473	14.462	0.011	100525	0.06898	886.67	
75 Benzo(a)pyrene	252.0	15.003	14.992	0.011	559517	0.41694	5359.18	
* 76 Perylene-d12	264.0	15.103	15.092	0.011	486412	0.40000	5141.39	
77 Indeno(1,2,3-cd)pyrene	276.0	17.342	17.330	0.012	131988	0.08734	1122.68	
78 Dibenzo(a,h)anthracene	278.0	17.353	17.345	0.008	77410	0.05887	756.63	
79 Benzo(g,h,i)perylene	276.0	18.030	18.015	0.015	216133	0.17067	2193.72	

QC Flag Legend

Processing Flags

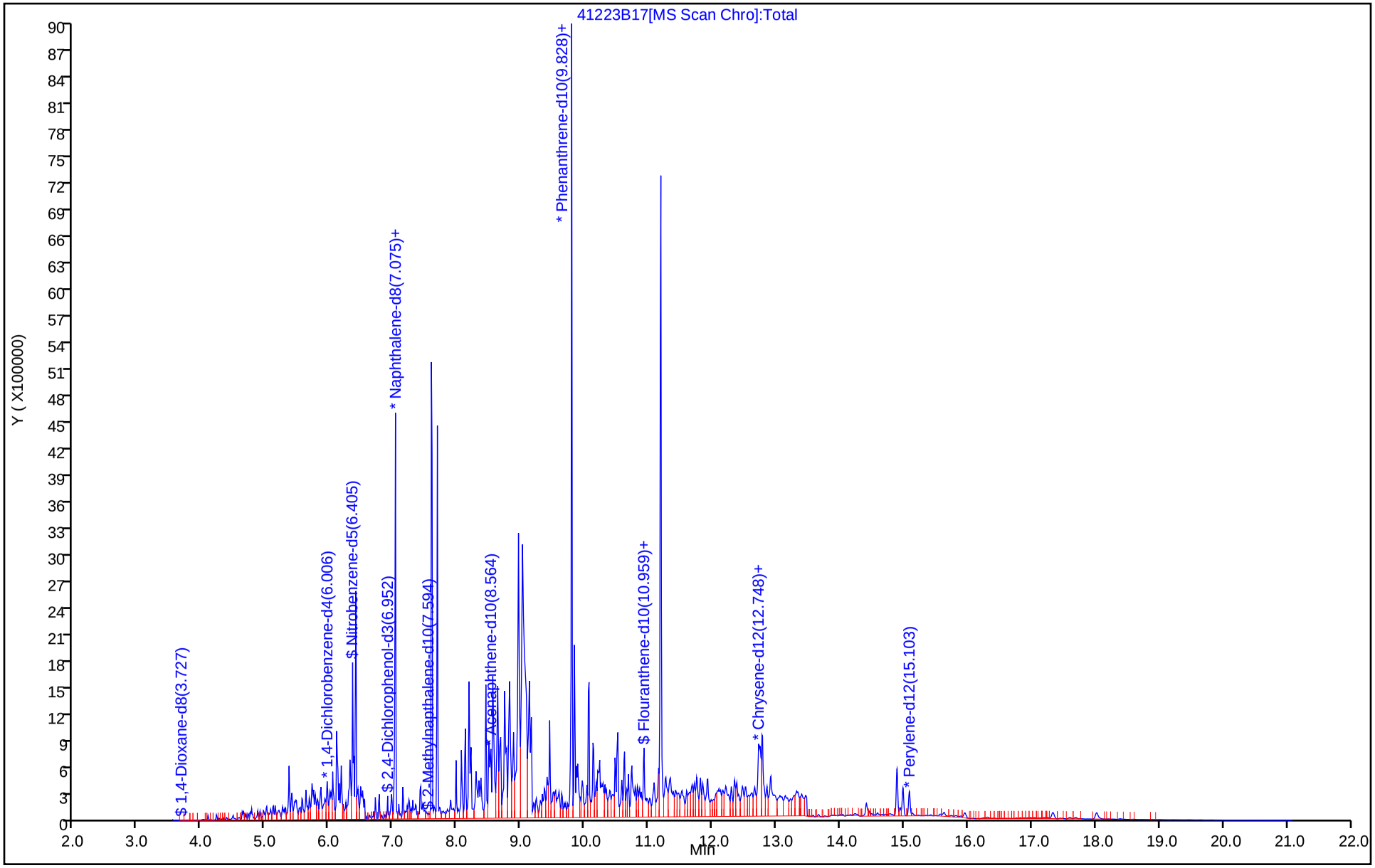
e - Compound Concentration Below Quantitation Limit

E - Compound Concentration Exceeds Max. Calibration Range

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B17.D				
Injection Date:	23-Dec-2015 16:54:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R24RX	Lab ID:	QL12004-005		
Sample Info:	4122315B, QL12004-005				
Injection Vol.	2.00 uL	Dil. Factor:	10.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

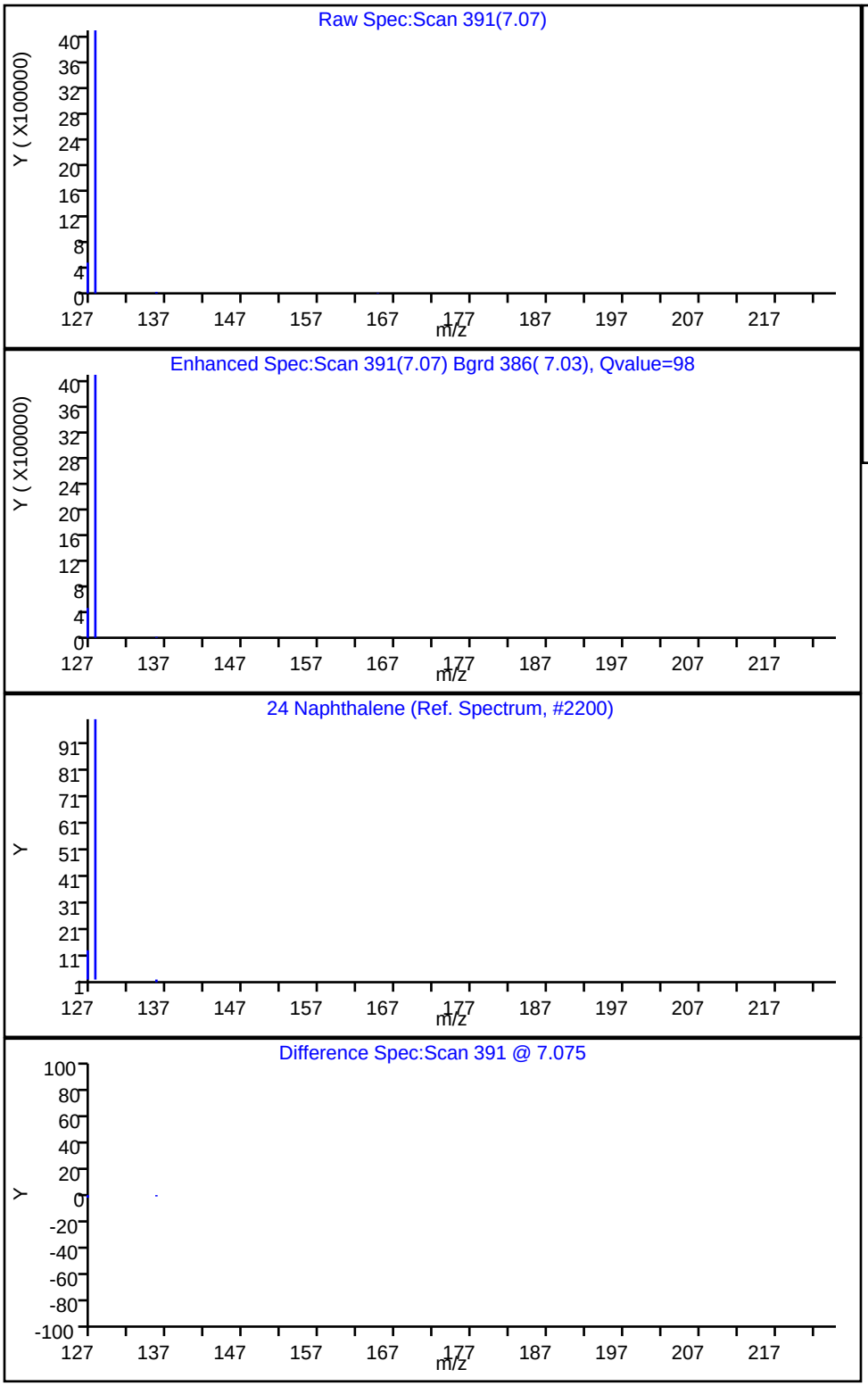


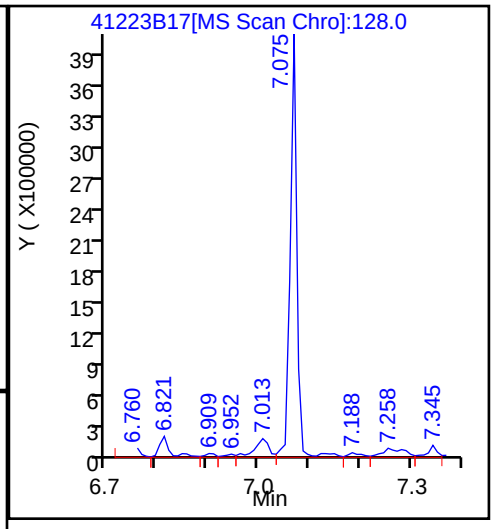
Report Date: 04-Jan-2016 13:32:24 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B17.D		
Injection Date:	23-Dec-2015 16:54:30	Inst. ID:	msd4.i
Client ID:	F6R24RX	Lab ID:	QL12004-005
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene





Report Date: 04-Jan-2016 13:32:24 AIM Revision: 1.0 26-May-2015 13:41:26

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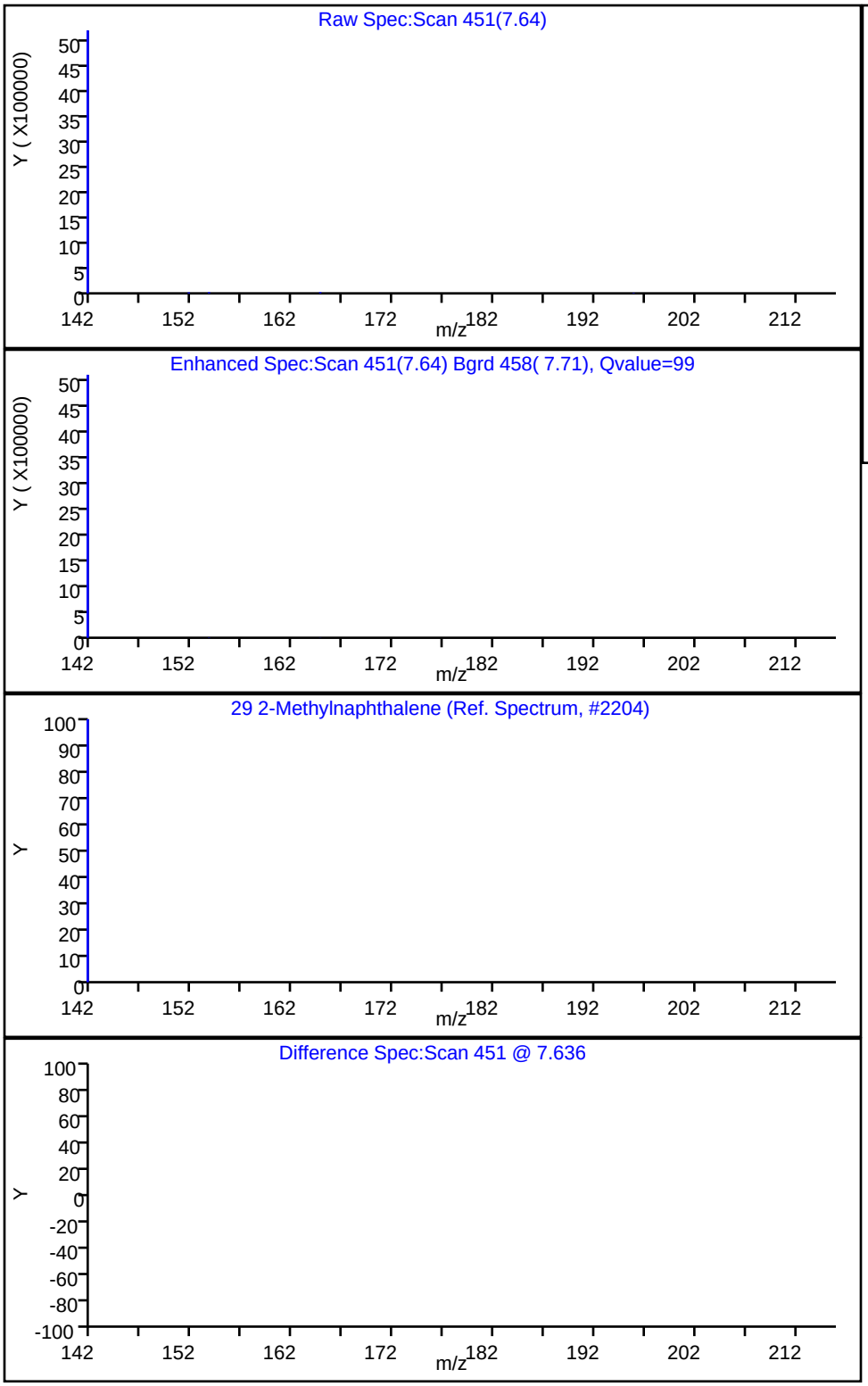
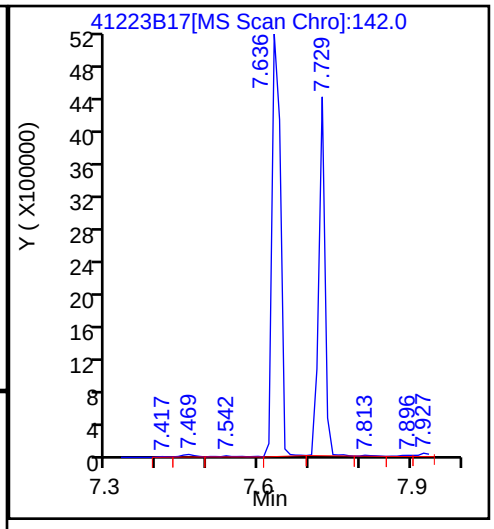
Client ID:	F6R24RX	Lab ID:	QL12004-005
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene





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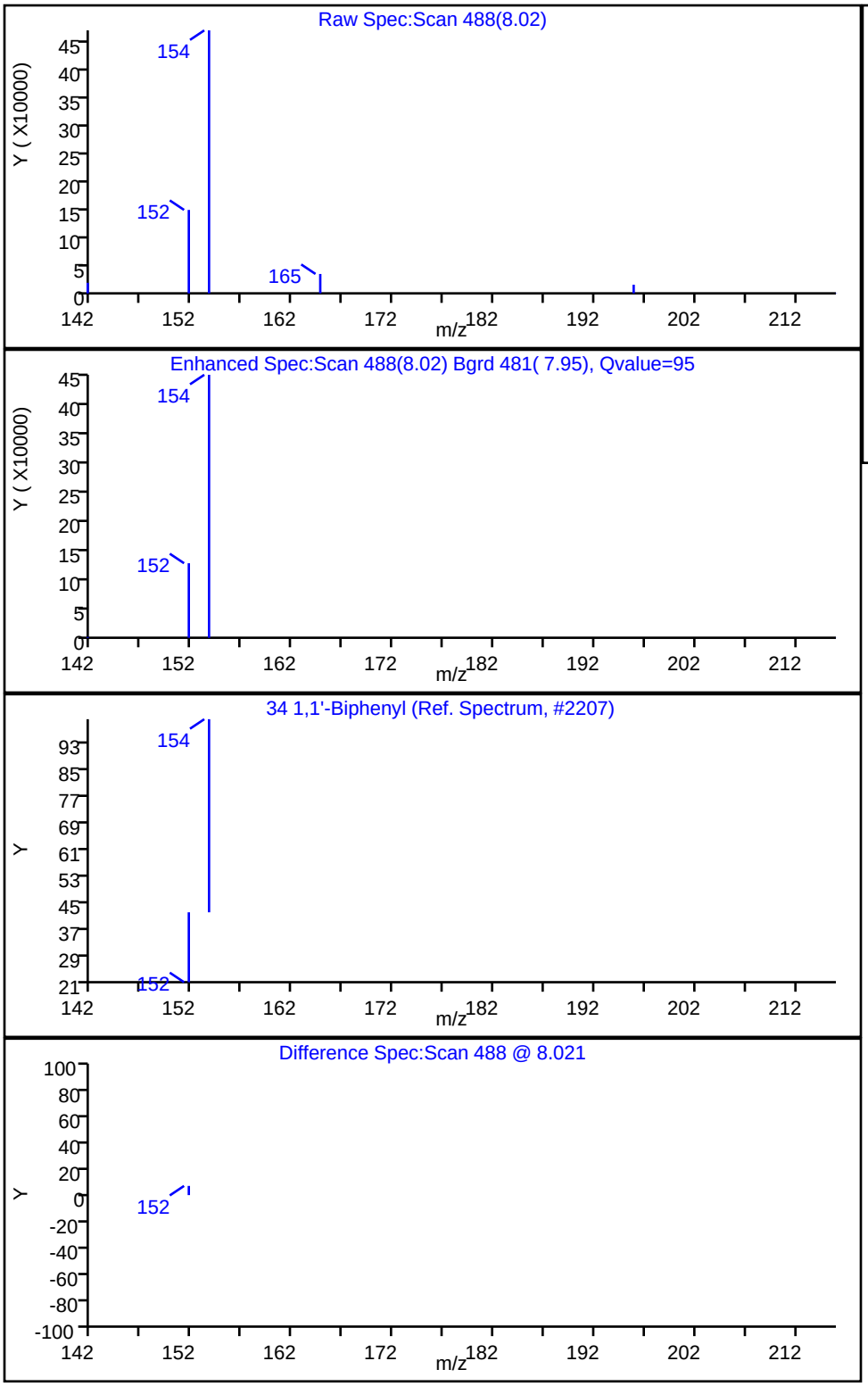
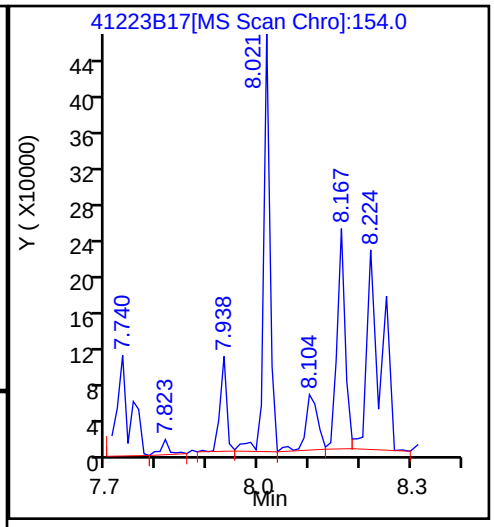
Client ID:	F6R24RX	Lab ID:	QL12004-005
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

34 1,1'-Biphenyl





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Injection Date:	23-Dec-2015 16:54:30	Inst. ID:	msd4.i
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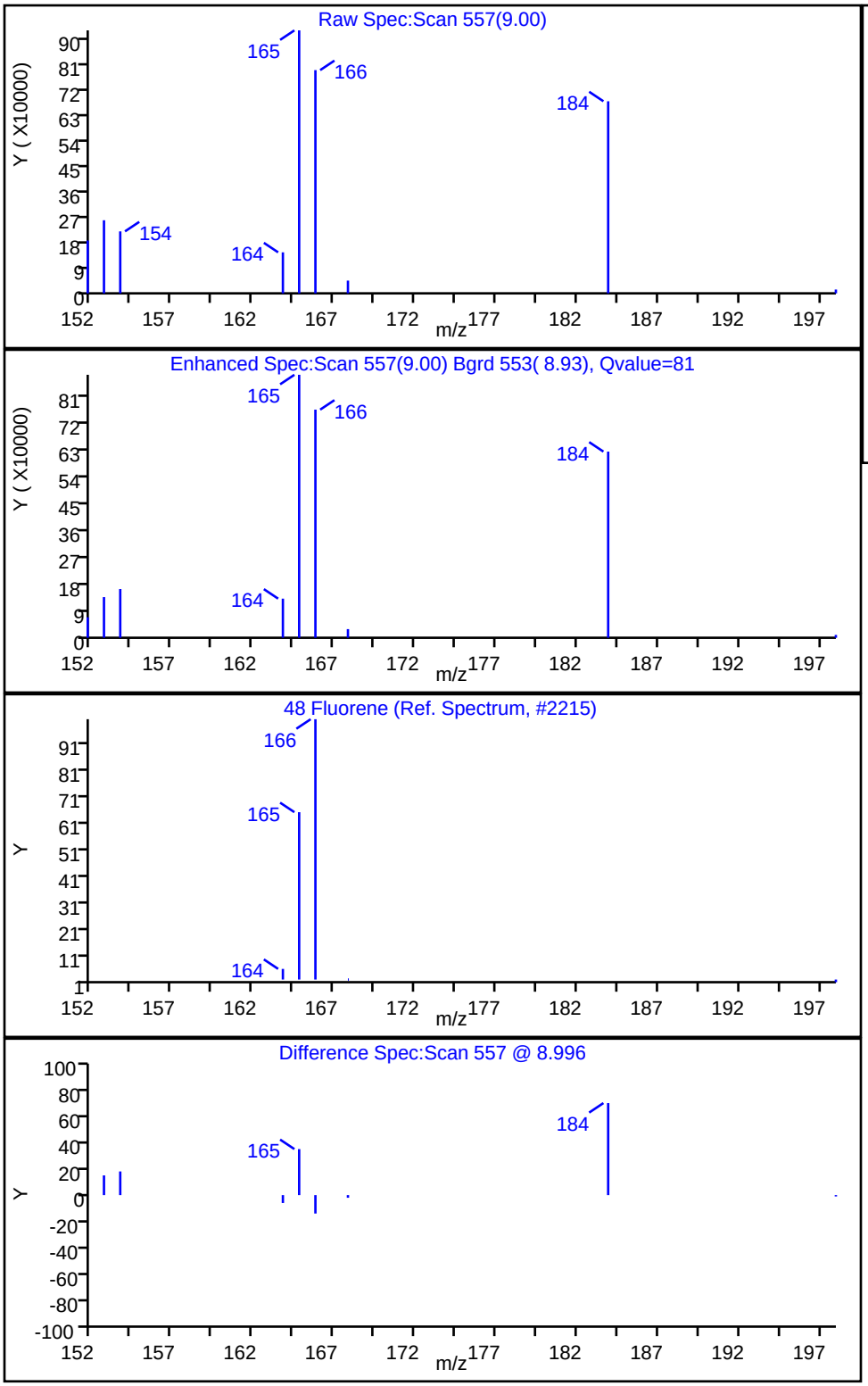
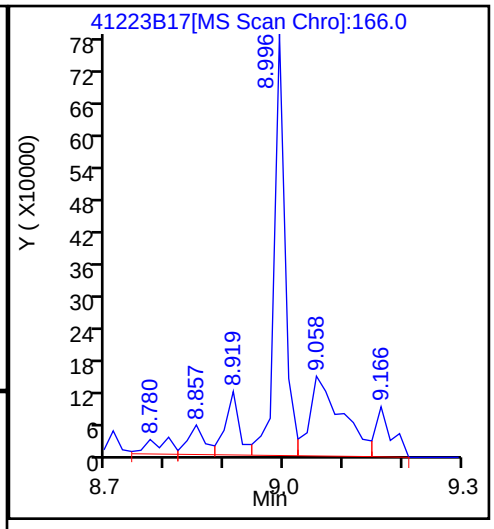
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene





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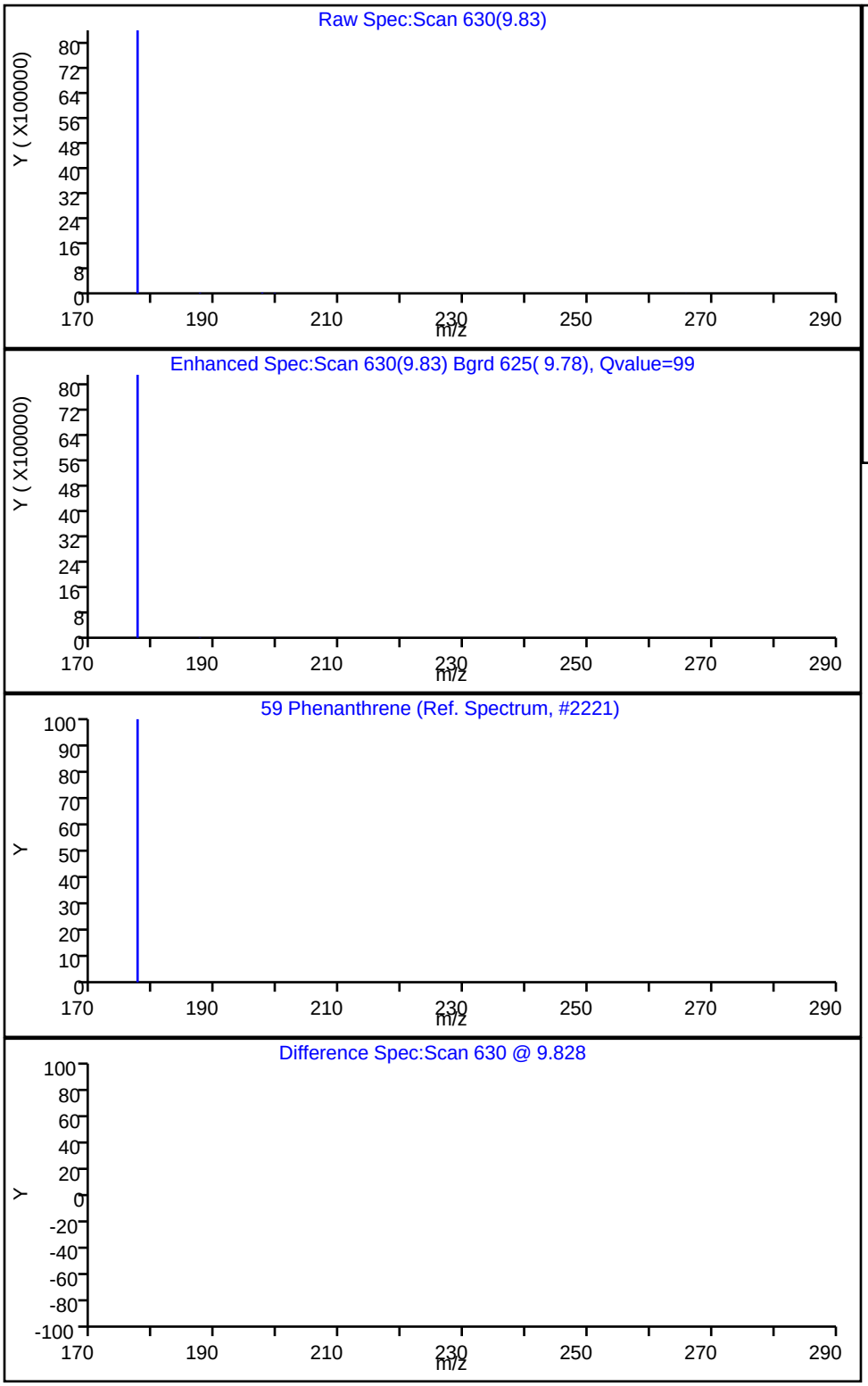
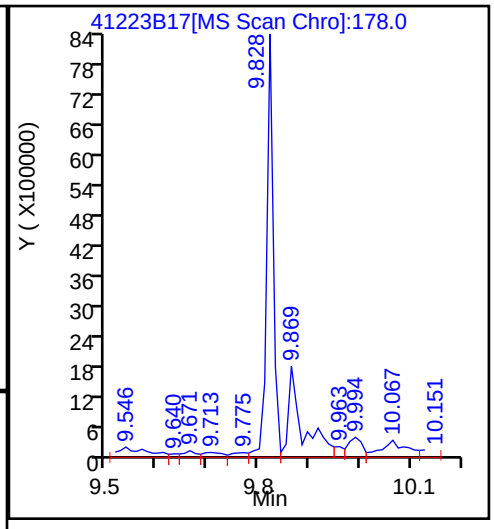
Client ID:	F6R24RX	Lab ID:	QL12004-005
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene





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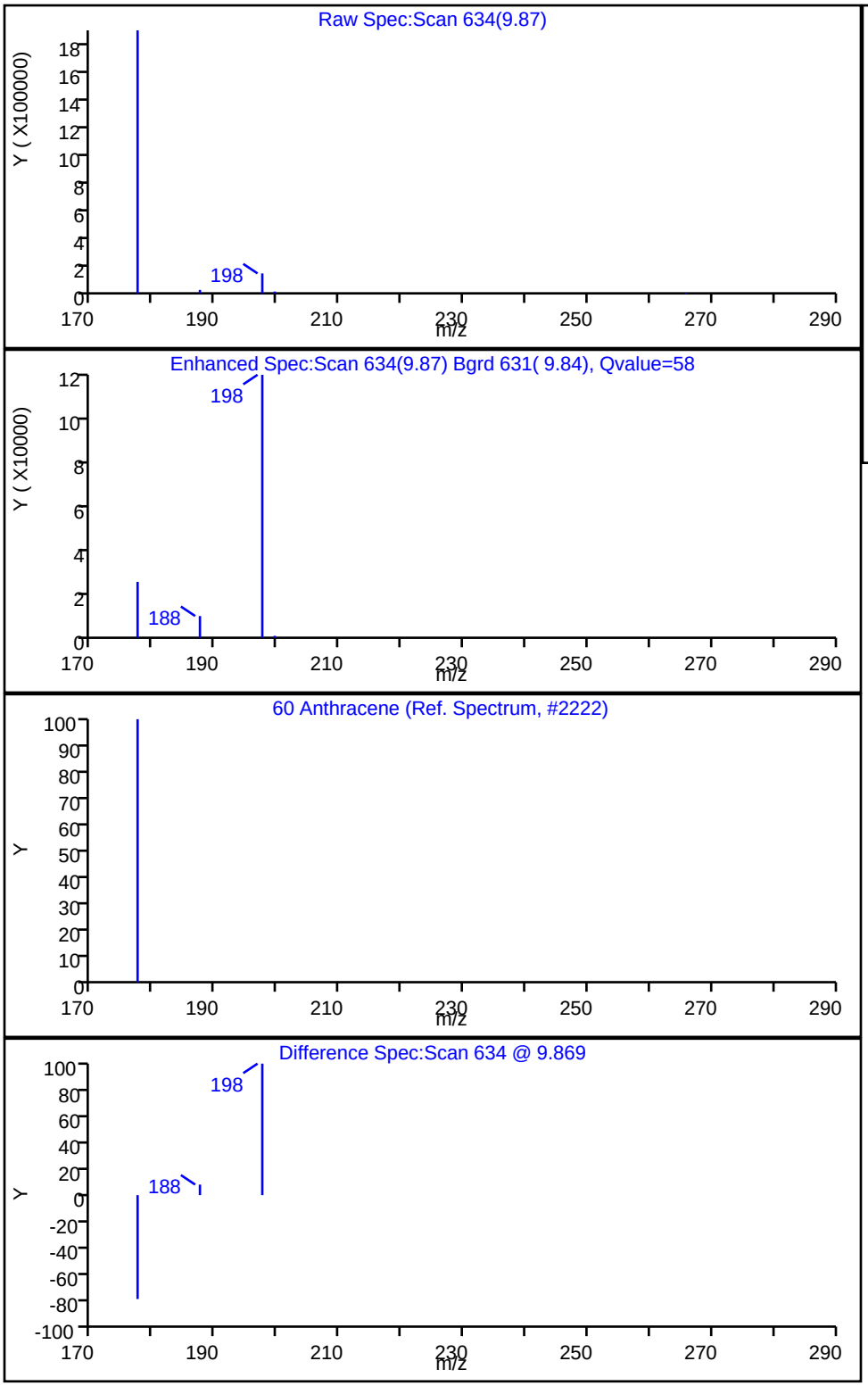
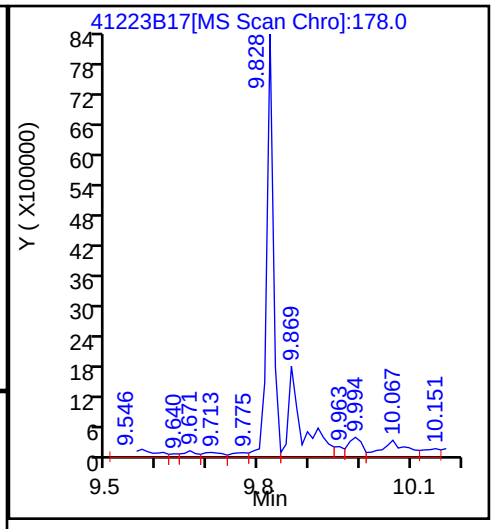
Injection Date:	23-Dec-2015 16:54:30	Inst. ID:	msd4.i
Client ID:	F6R24RX	Lab ID:	QL12004-005
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

60 Anthracene





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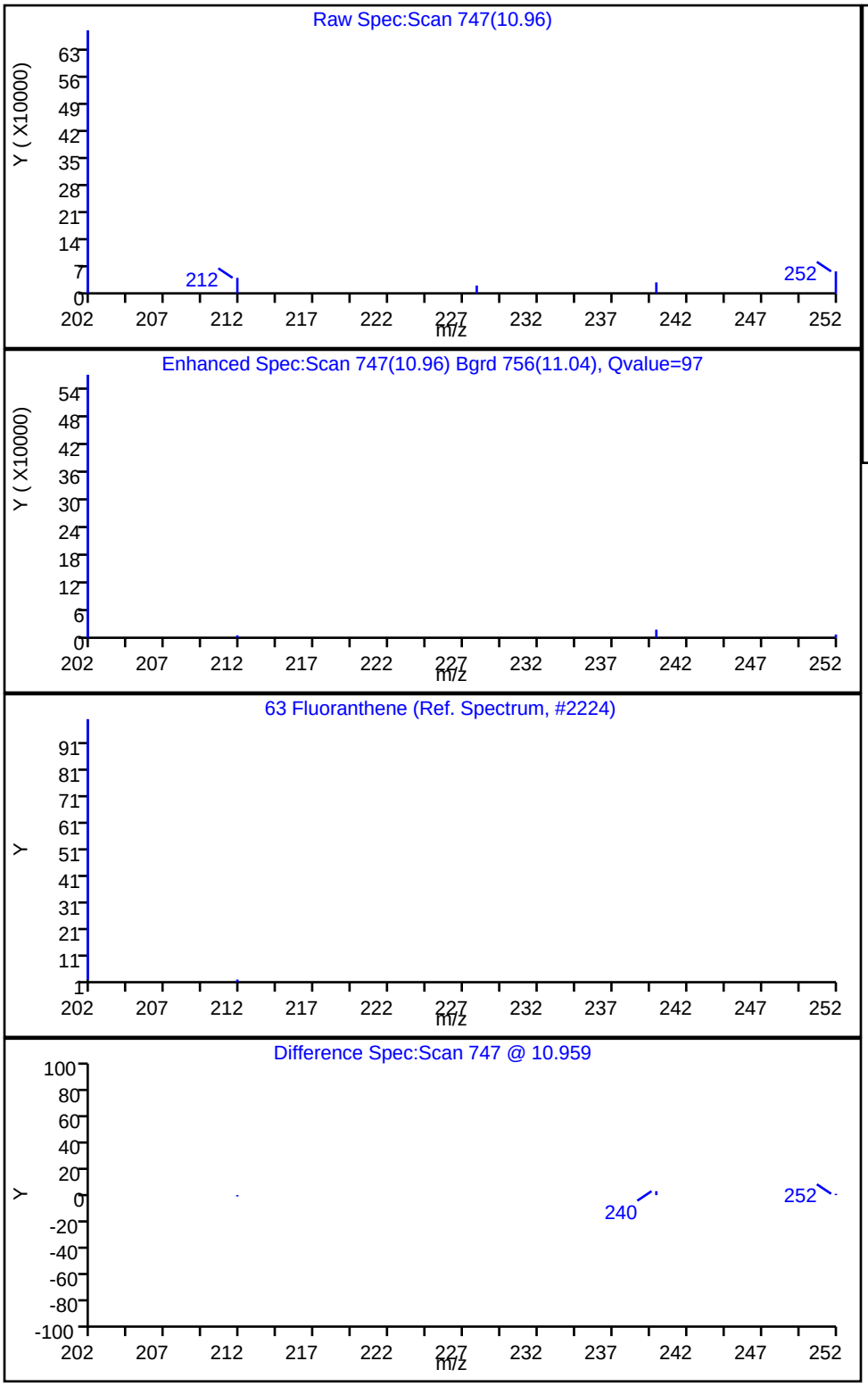
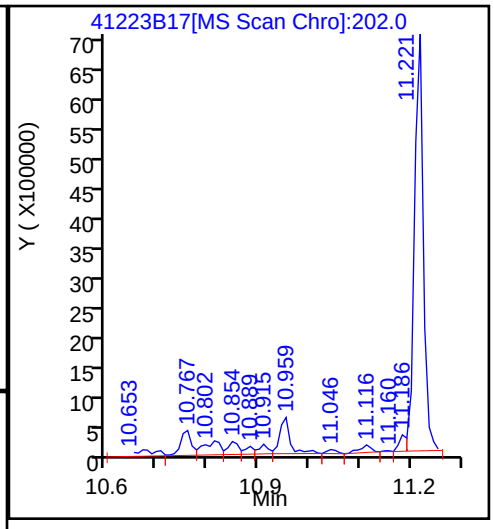
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

63 Fluoranthene





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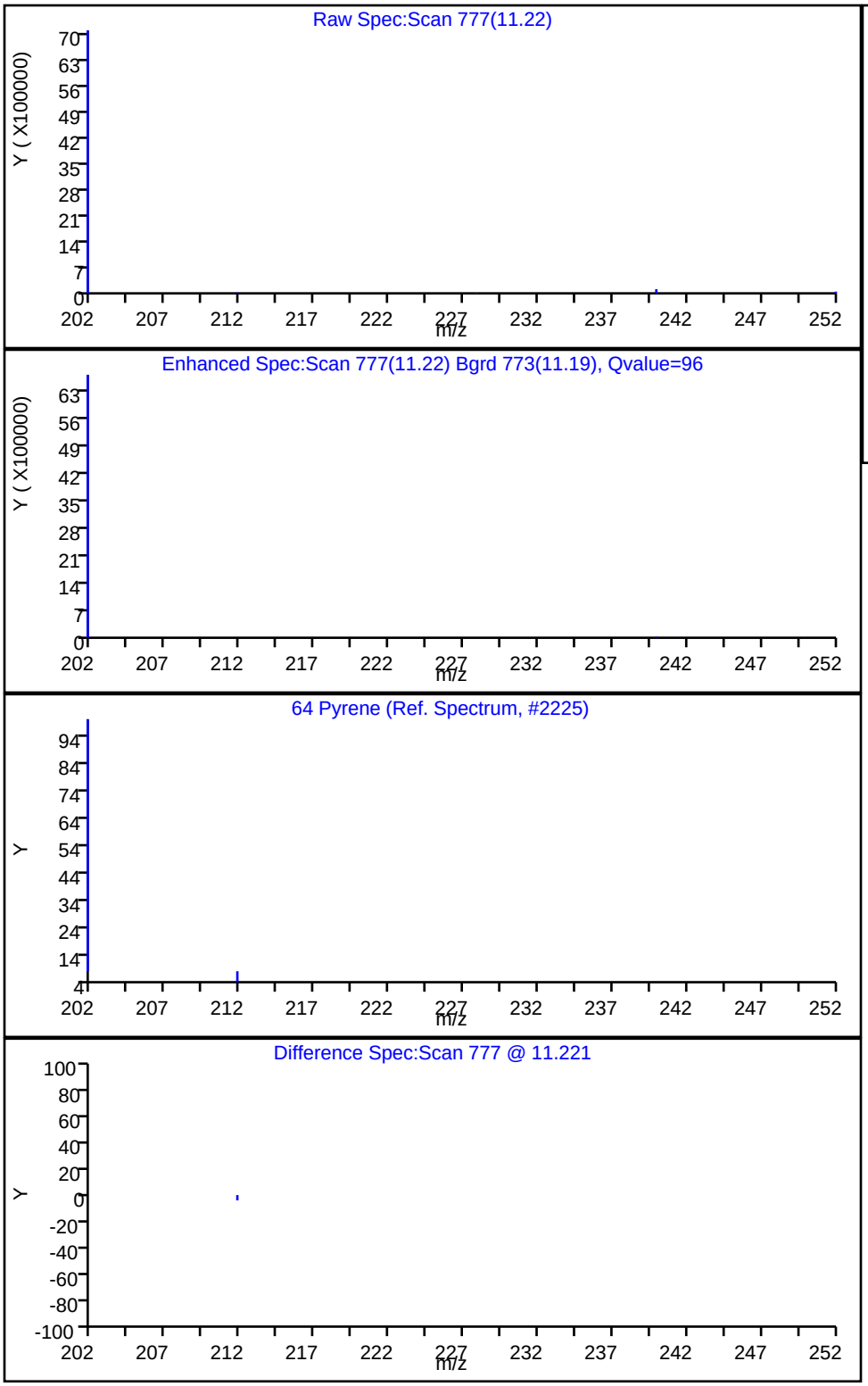
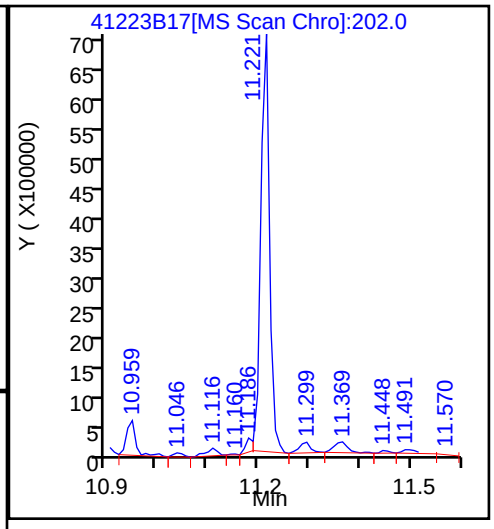
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

64 Pyrene





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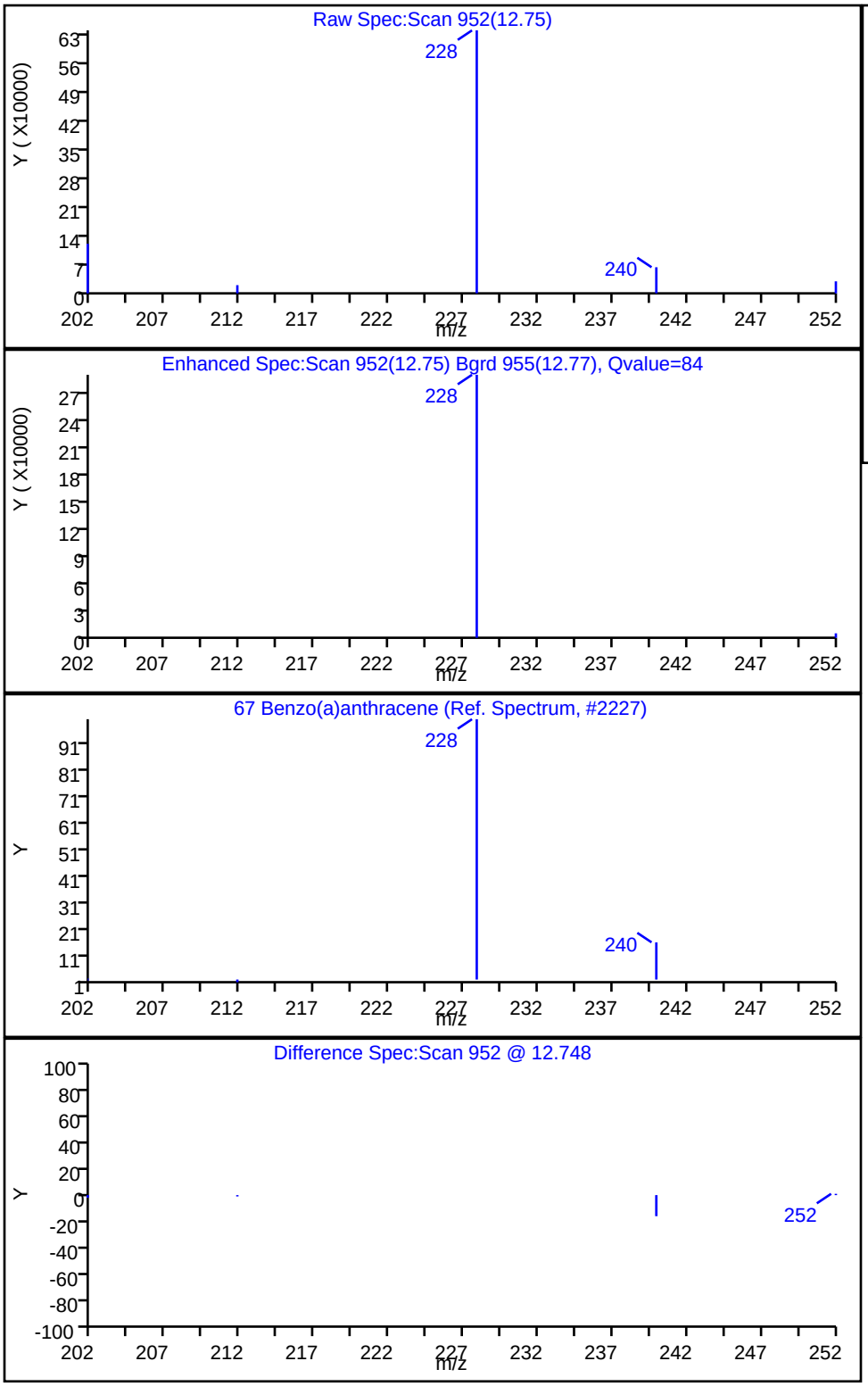
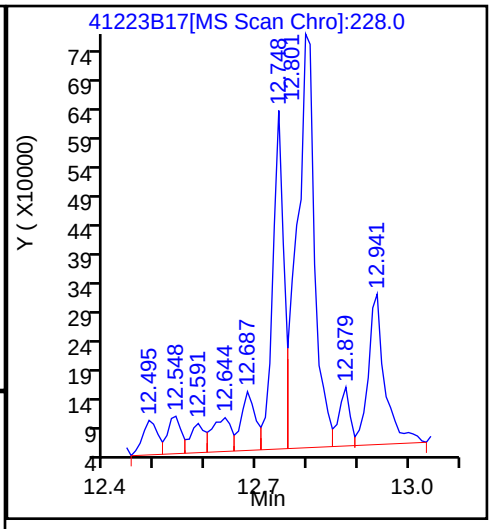
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

67 Benzo(a)anthracene





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Shealy Environmental Services

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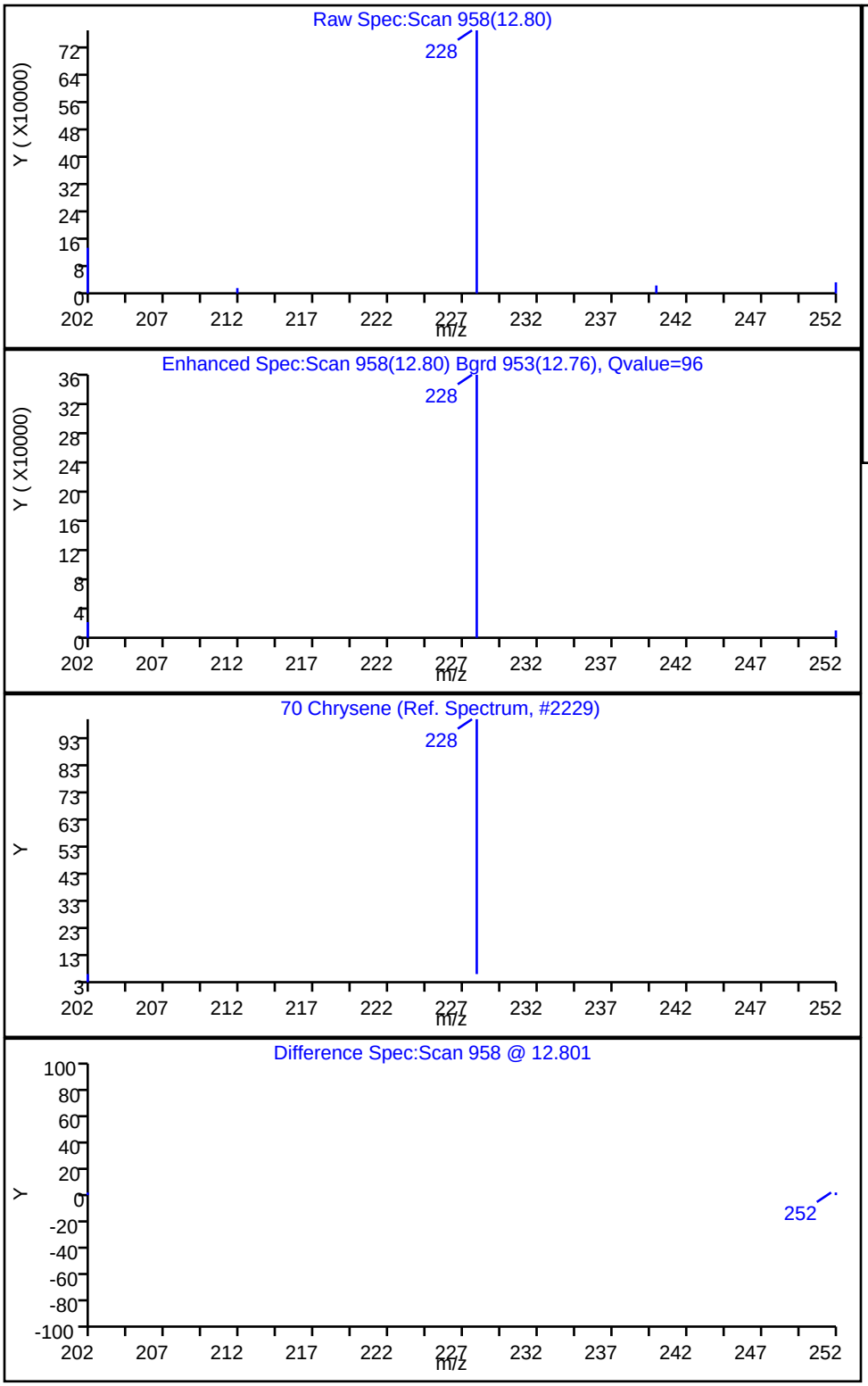
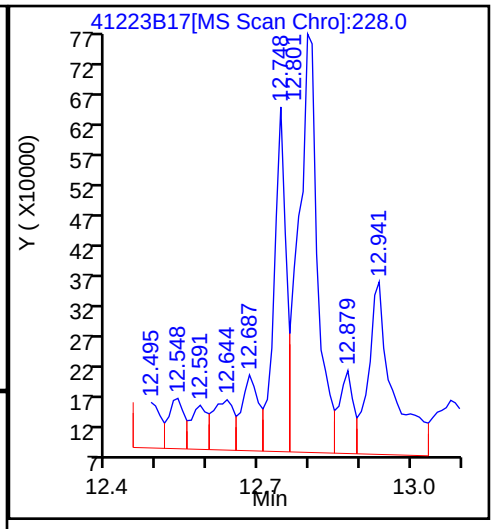
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene





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Shealy Environmental Services

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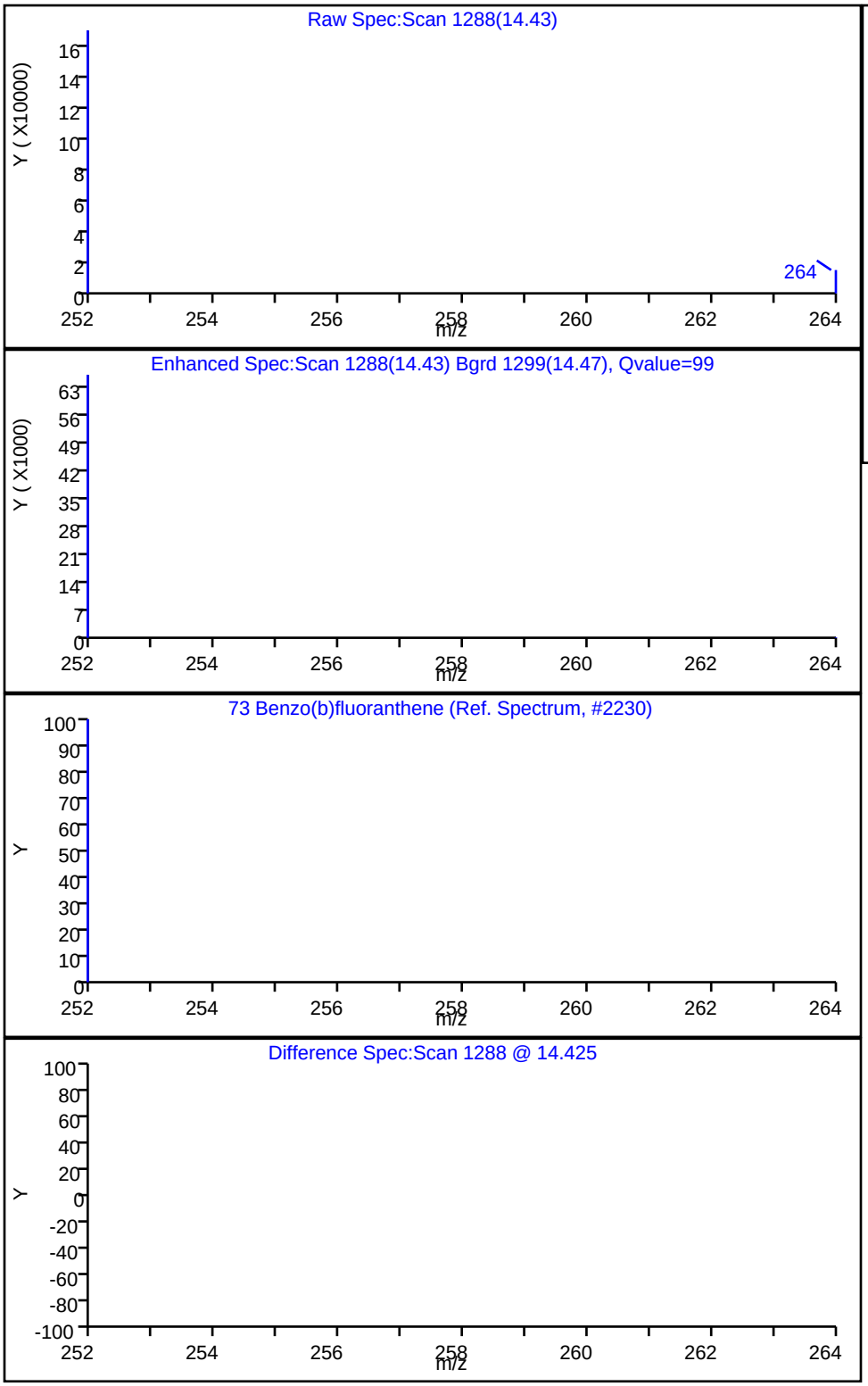
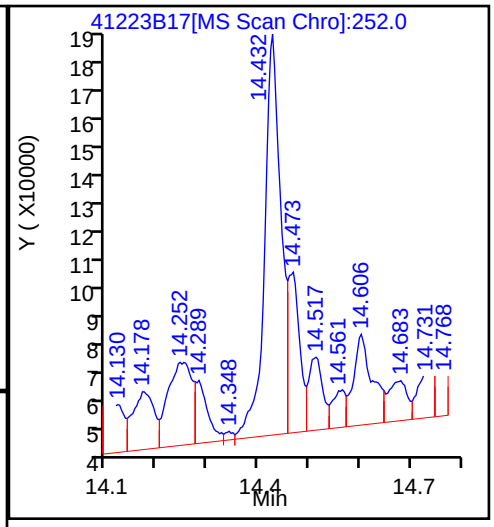
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

73 Benzo(b)fluoranthene





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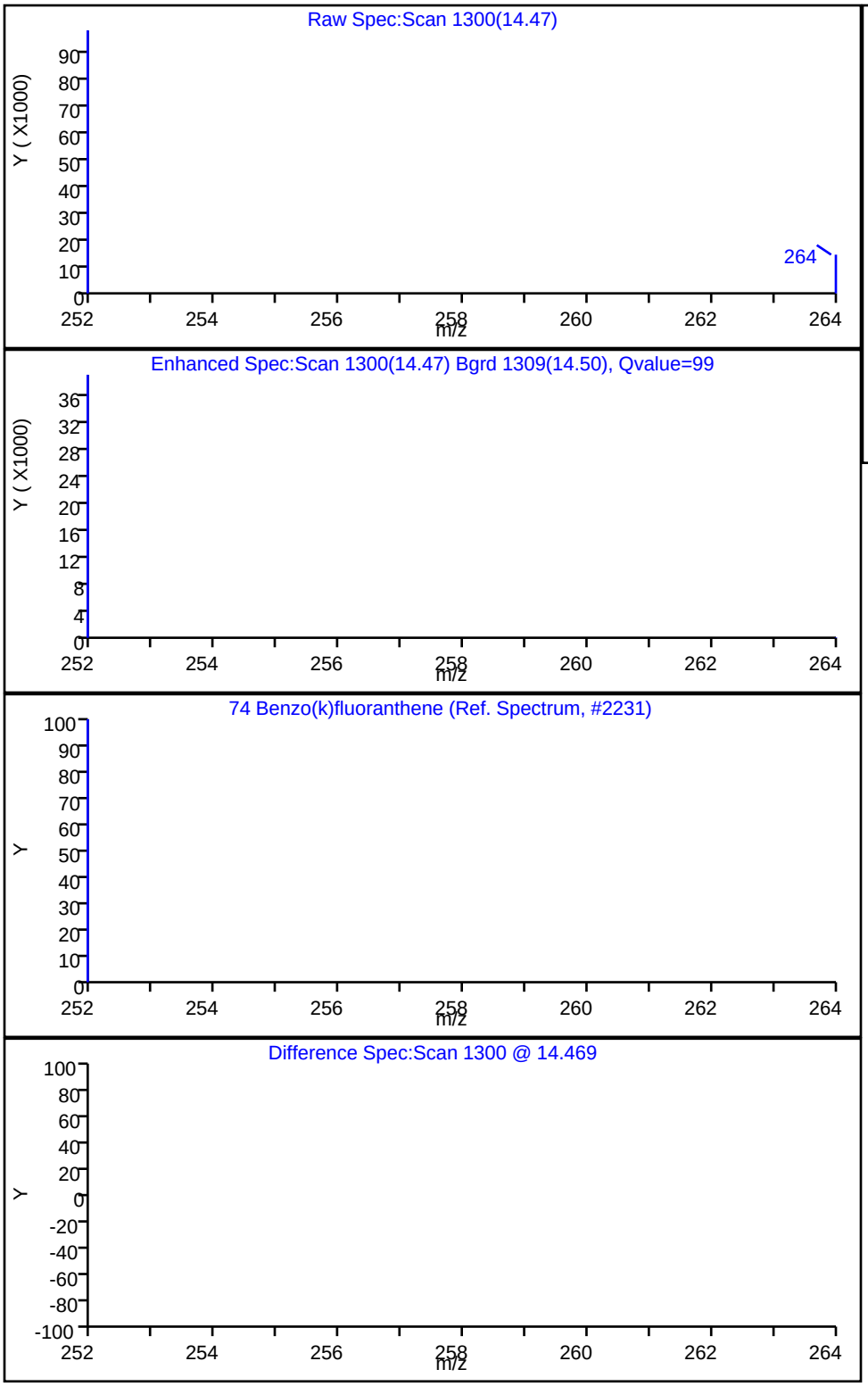
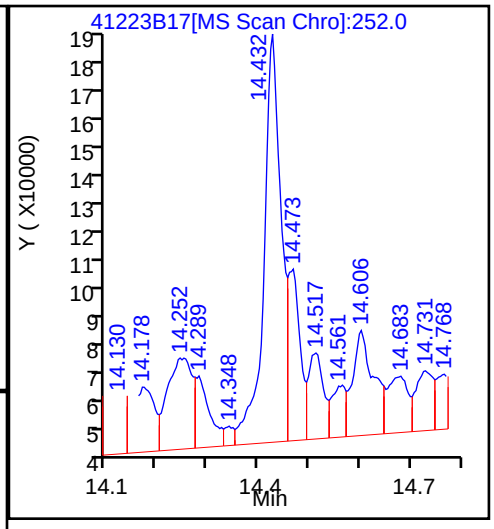
Client ID:	F6R24RX	Lab ID:	QL12004-005
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

74 Benzo(k)fluoranthene





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Shealy Environmental Services

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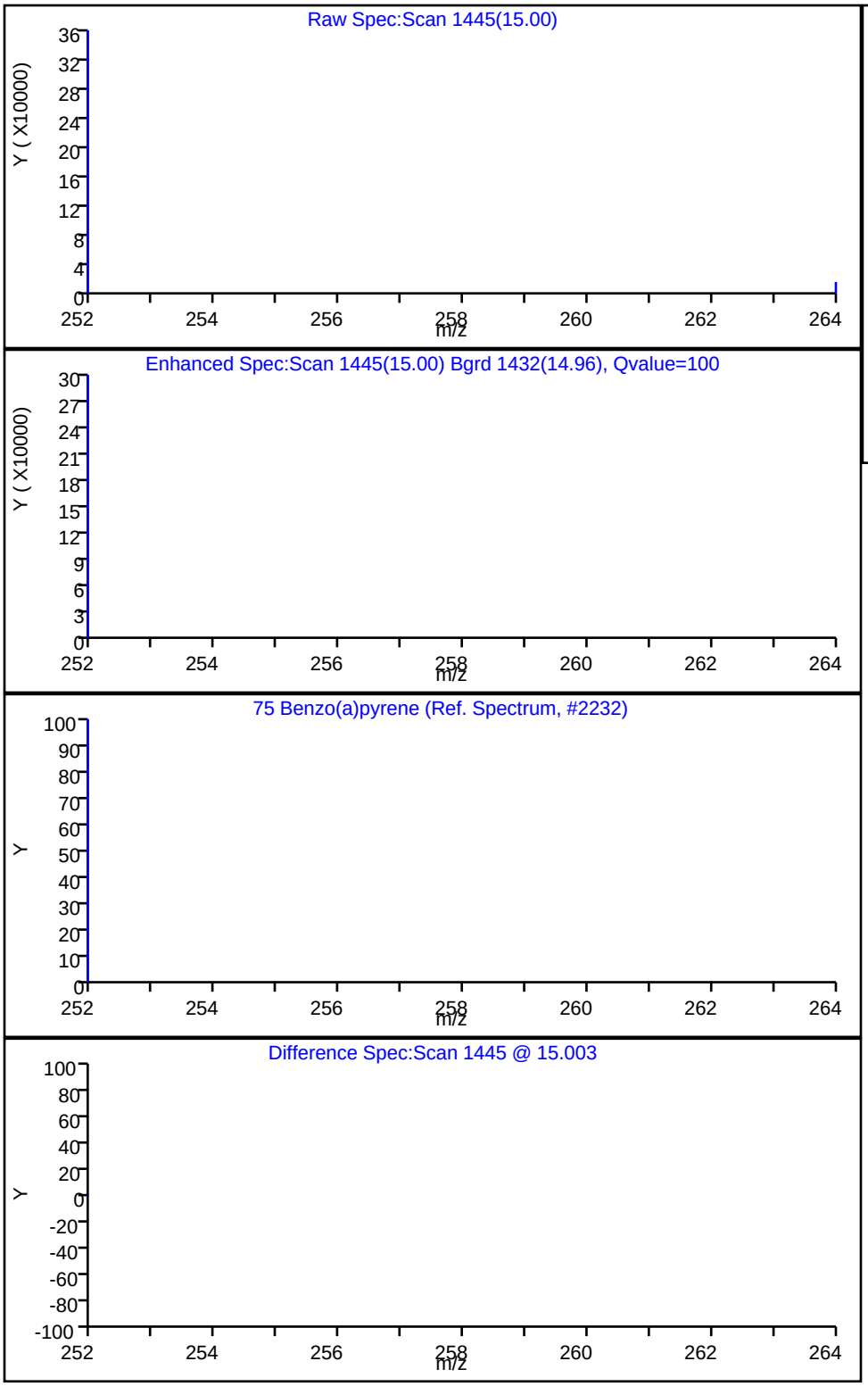
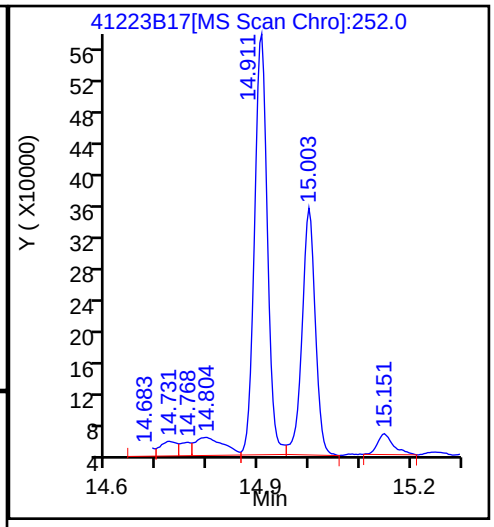
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

75 Benzo(a)pyrene





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Shealy Environmental Services

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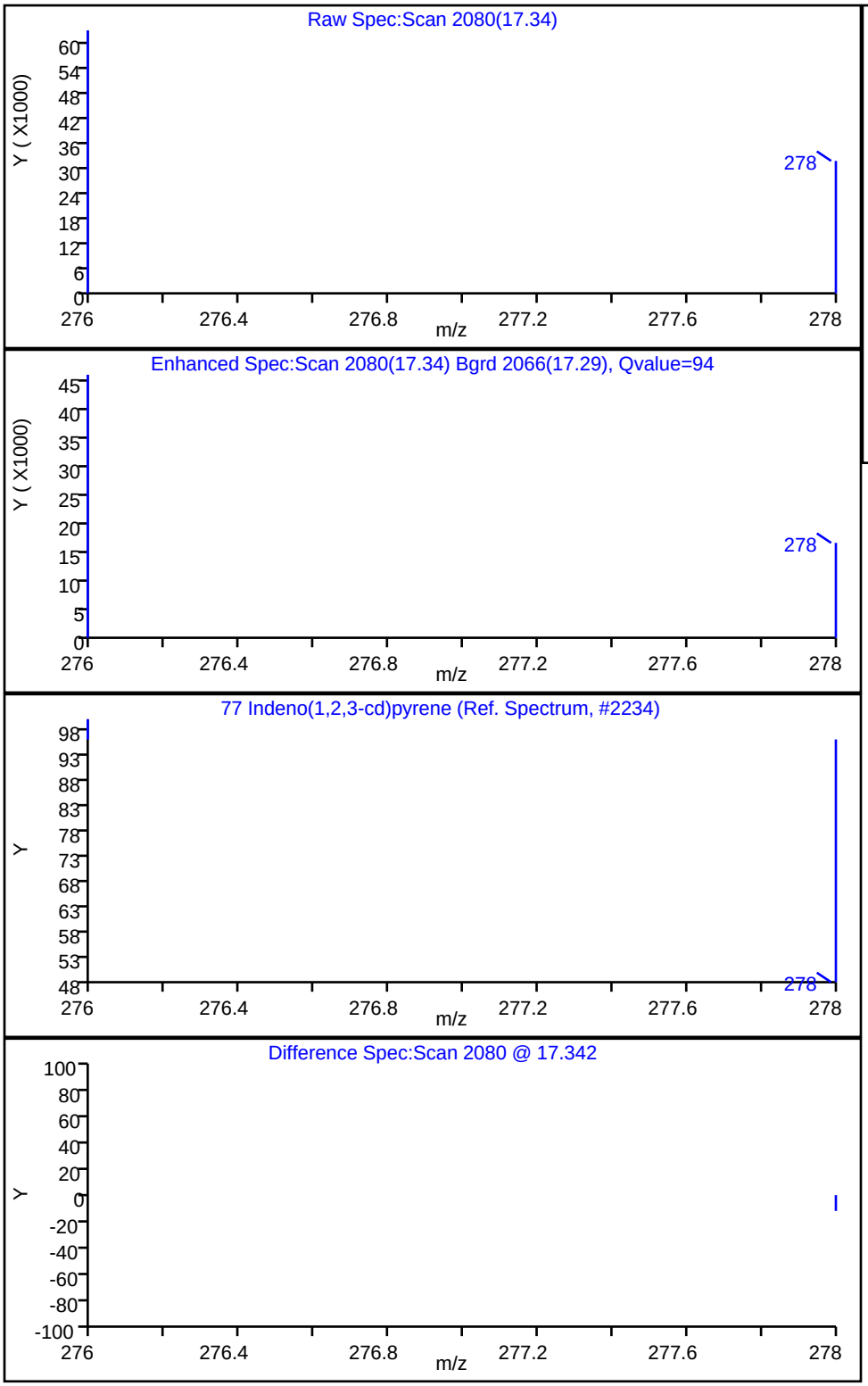
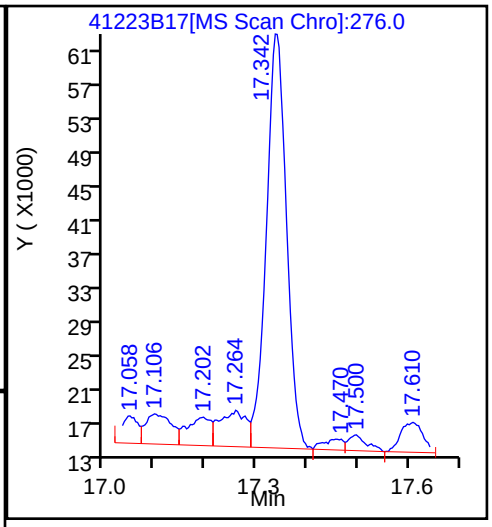
Client ID:	F6R24RX	Lab ID:	QL12004-005
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

77 Indeno(1,2,3-cd)pyrene





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Shealy Environmental Services

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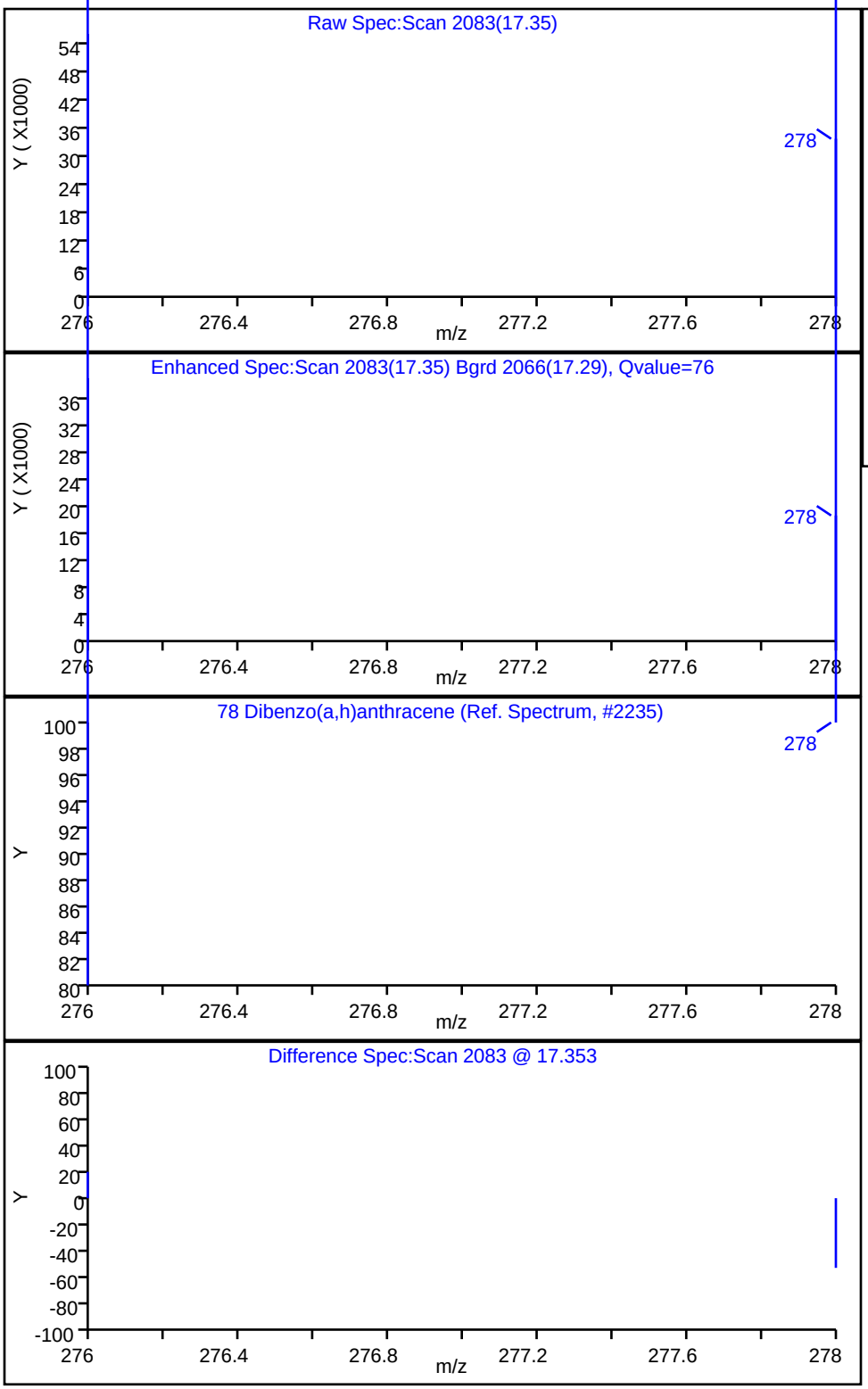
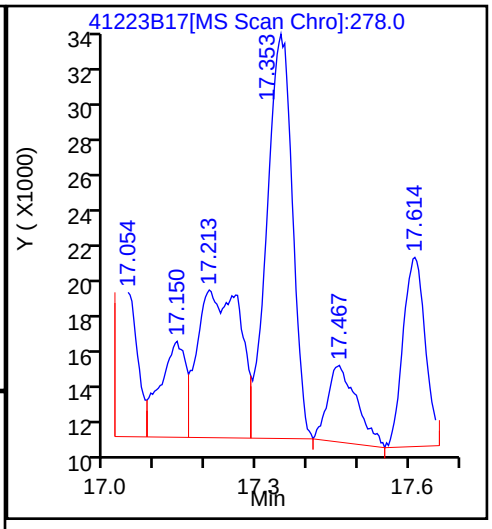
Client ID:	F6R24RX	Lab ID:	QL12004-005
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

78 Dibenzo(a,h)anthracene





Report Date: 04-Jan-2016 13:32:24 AIM Revision: 1.0 26-May-2015 13:41:26

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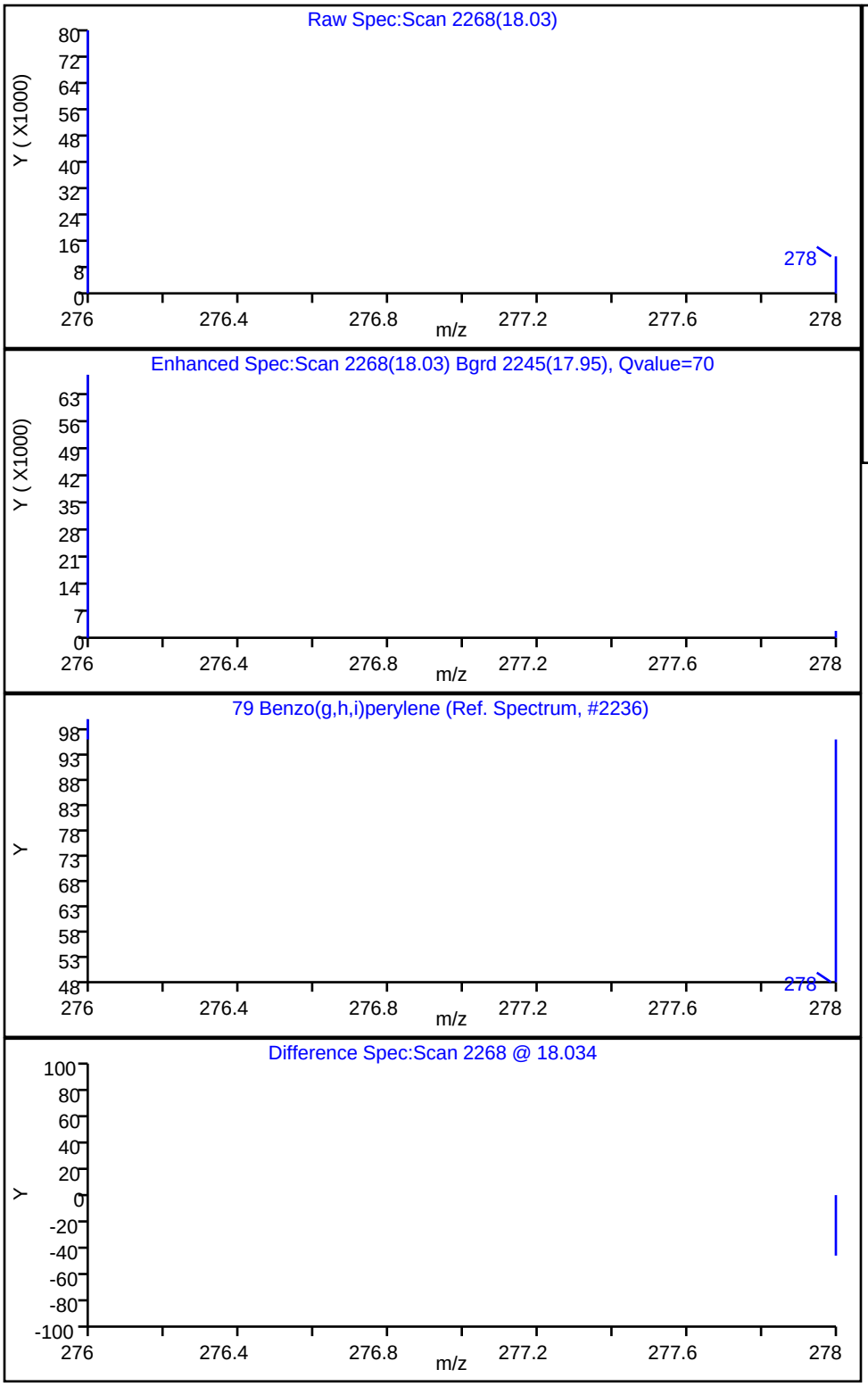
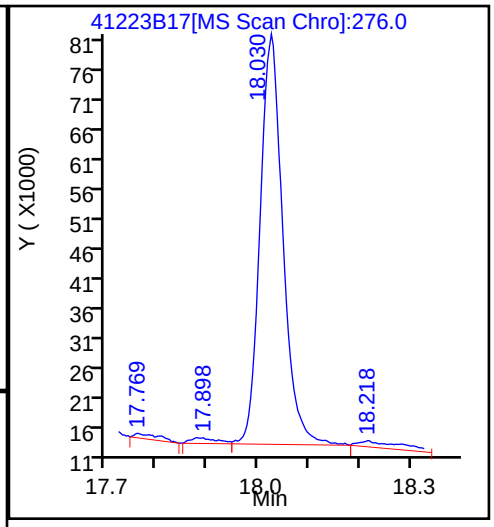
Injection Date:	23-Dec-2015 16:54:30	Inst. ID:	msd4.i
Client ID:	F6R24RX	Lab ID:	QL12004-005
Sample Info:	4122315B, QL12004-005		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

79 Benzo(g,h,i)perylene





FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R25

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-006
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 4122110
% Solids: 84.4
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	40	U
91-20-3	Naphthalene	960	B
91-57-6	2-Methylnaphthalene	1400	B
208-96-8	Acenaphthylene	40	U
83-32-9	Acenaphthene	40	U
86-73-7	Fluorene	510	
87-86-5	Pentachlorophenol	78	U
85-01-8	Phenanthrene	1500	
120-12-7	Anthracene	40	U
206-44-0	Fluoranthene	120	
129-00-0	Pyrene	270	
56-55-3	Benzo(a)anthracene	75	
218-01-9	Chrysene	230	
205-99-2	Benzo(b)fluoranthene	80	
207-08-9	Benzo(k)fluoranthene	21	J
50-32-8	Benzo(a)pyrene	43	
193-39-5	Indeno(1,2,3-cd)pyrene	8.8	J
53-70-3	Dibenzo(a,h)anthracene	8.6	J
191-24-2	Benzo(g,h,i)perylene	19	J
132-64-9	Dibenzofuran	220	
118-74-1	Hexachlorobenzene	40	U
87-68-3	Hexachlorobutadiene	78	U
111-44-4	bis(2-Chloroethyl)ether	78	U
108-60-1	2,2'-Oxybis(1-chloropropane)	78	U
621-64-7	N-Nitrosodi-n-propylamine	40	U
67-72-1	Hexachloroethane	78	U
98-95-3	Nitrobenzene	78	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R25

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-006
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 4122110
% Solids: 84.4
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	78	U
88-06-2	2,4,6-Trichlorophenol	78	U
92-52-4	1,1'-Biphenyl	40	U
606-20-2	2,6-Dinitrotoluene	40	U
51-28-5	2,4-Dinitrophenol	780	U
121-14-2	2,4-Dinitrotoluene	40	U
534-52-1	4,6-Dinitro-2-methylphenol	78	U
95-94-3	1,2,4,5-Tetrachlorobenzene	78	U
1912-24-9	Atrazine	78	U
91-94-1	3,3'-Dichlorobenzidine	78	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Lab Sample ID:	QL12004-006	Client Sample ID:	F6R25
Injection Date:	21-Dec-2015 12:30:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, QL12004-006		
Misc. Info:	92513 20X		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544.m		
Method Date:	04-Jan-2016 15:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	8
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.200	Weight of sample extracted (g)
M	15.600	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	21-Dec-2015 14:28:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.831	3.762	0.069	175	0.000948	0.74403	e
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.727		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.771		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	128600	0.40000	313.86	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.186		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.290		ND			
15 Hexachloroethane	117.0		6.436		ND			
$ 16 Nitrobenzene-d5	128.0		6.457		ND			
17 Nitrobenzene	77.0		6.467		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.908	6.926	-0.018	25470	0.08517	66.832	eR
* 23 Naphthalene-d8	136.0	7.066	7.057	0.009	517842	0.40000	313.86	M
24 Naphthalene	128.0	7.074	7.075	-0.001	1636987	1.2189	956.40	
25 4-Chloroaniline	127.0		7.075		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0		7.615		ND			
29 2-Methylnaphthalene	142.0	7.656	7.646	0.010	1428669	1.8016	1413.65	
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.317		ND			
38 Acenaphthylene	152.0		8.425		ND			
* 41 Acenaphthene-d10	164.0	8.548	8.533	0.015	362256	0.40000	313.86	MI

Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122110.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.657		ND			
45 Dibenzofuran	168.0	8.718	8.718	0.000	519935	0.28630	224.65	M
48 Fluorene	166.0	9.012	8.996	0.016	833738	0.65077	510.63	M
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0		9.484		ND			
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.817	9.807	0.010	680319	0.40000	313.86	I
59 Phenanthrene	178.0	9.838	9.828	0.010	3623231	1.9555	1534.43	
60 Anthracene	178.0		9.880		ND			
$ 116 Flouranthene-d10	212.0		10.941		ND			
63 Fluoranthene	202.0	10.967	10.959	0.008	309273	0.15381	120.69	
64 Pyrene	202.0	11.229	11.221	0.008	588041	0.34964	274.35	
68 3,3'-Dichlorobenzidine	252.0		12.661		ND			
67 Benzo(a)anthracene	228.0	12.766	12.748	0.018	146014	0.09589	75.240	
* 69 Chrysene-d12	240.0	12.783	12.766	0.017	613408	0.40000	313.86	I
70 Chrysene	228.0	12.818	12.810	0.008	442187	0.29256	229.56	M
73 Benzo(b)fluoranthene	252.0	14.451	14.429	0.022	123686	0.10220	80.194	
74 Benzo(k)fluoranthene	252.0	14.488	14.473	0.015	31667	0.02632	20.652	e
75 Benzo(a)pyrene	252.0	15.025	15.000	0.025	60617	0.05471	42.929	
* 76 Perylene-d12	264.0	15.125	15.103	0.022	401600	0.40000	313.86	
77 Indeno(1,2,3-cd)pyrene	276.0	17.367	17.345	0.022	14002	0.01122	8.8061	e
78 Dibenzo(a,h)anthracene	278.0	17.378	17.360	0.018	11847	0.01091	8.5618	e
79 Benzo(g,h,i)perylene	276.0	18.063	18.030	0.033	25534	0.02442	19.162	e

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

R - Spike/Surrogte Fails %Recovery Test

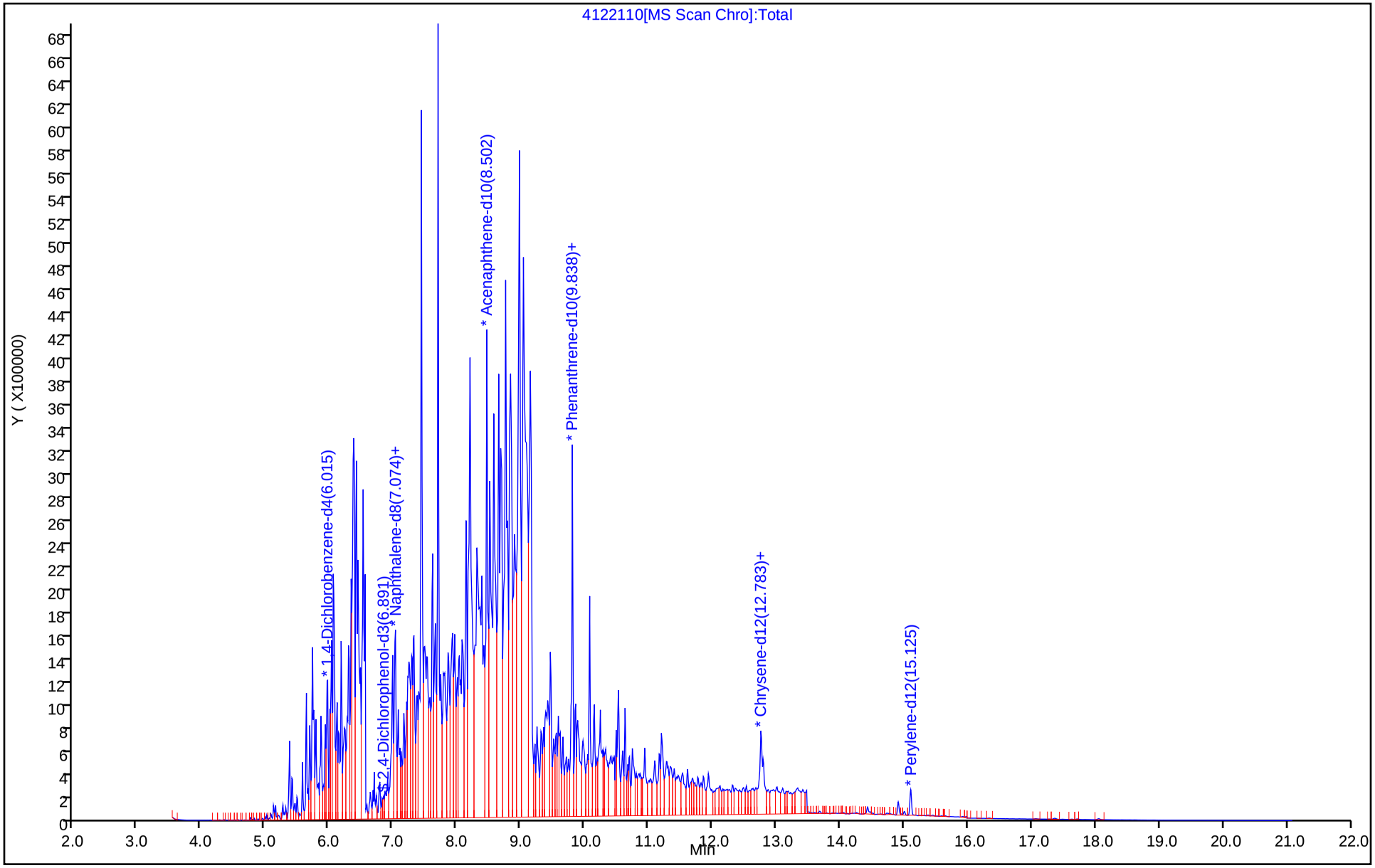
I - Istd Fails Area Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D				
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R25	Lab ID:	QL12004-006		
Sample Info:	4122115, QL12004-006				
Injection Vol.	2.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



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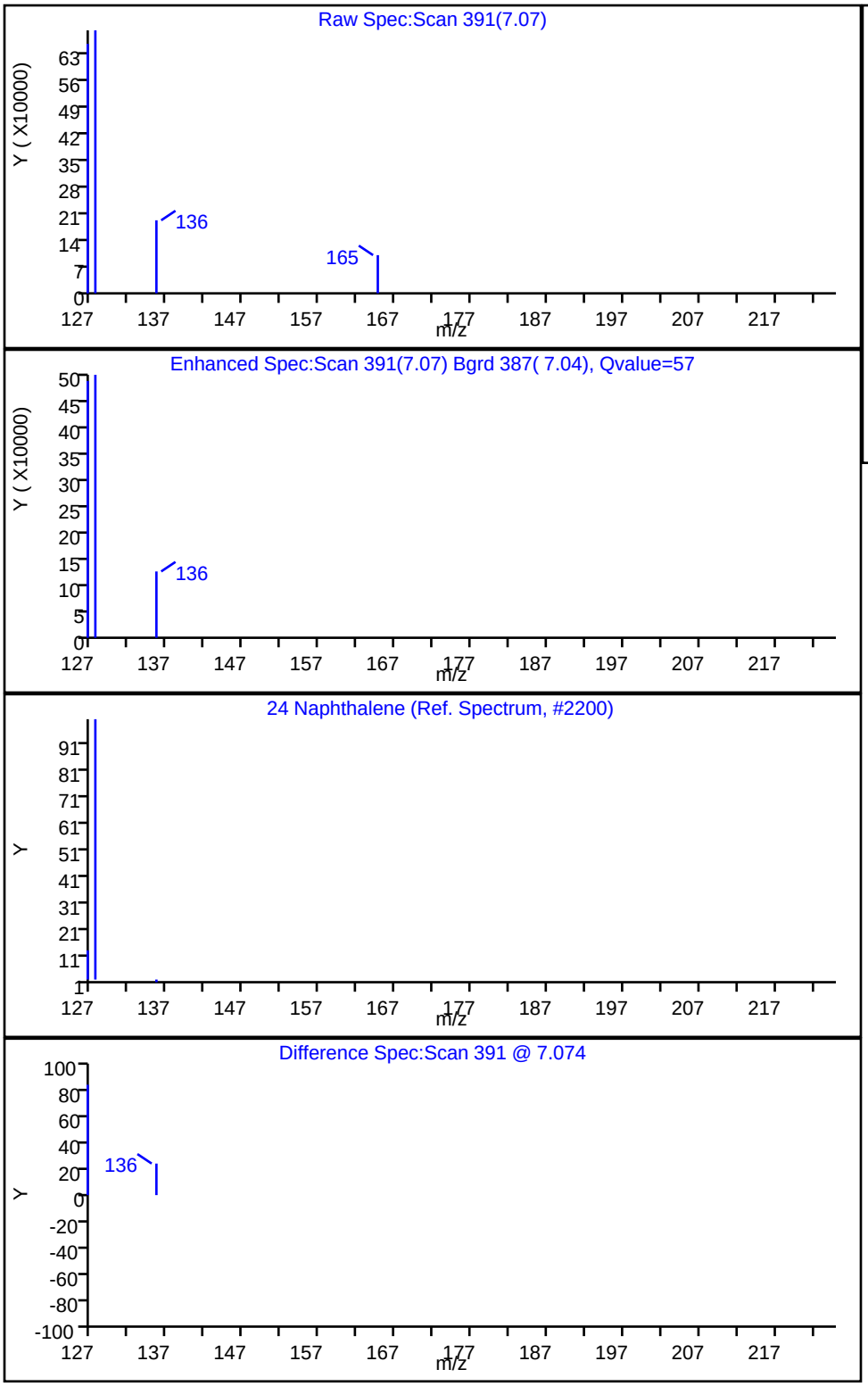
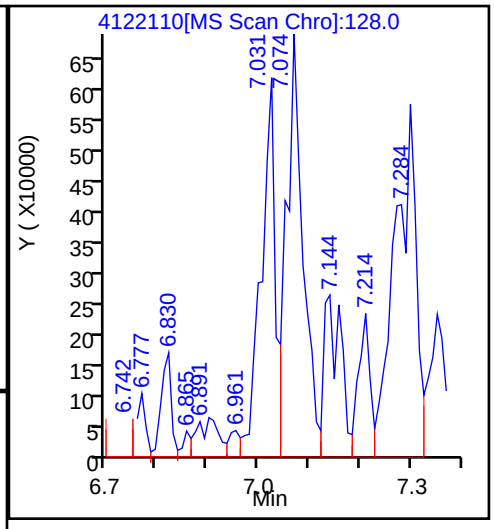
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene





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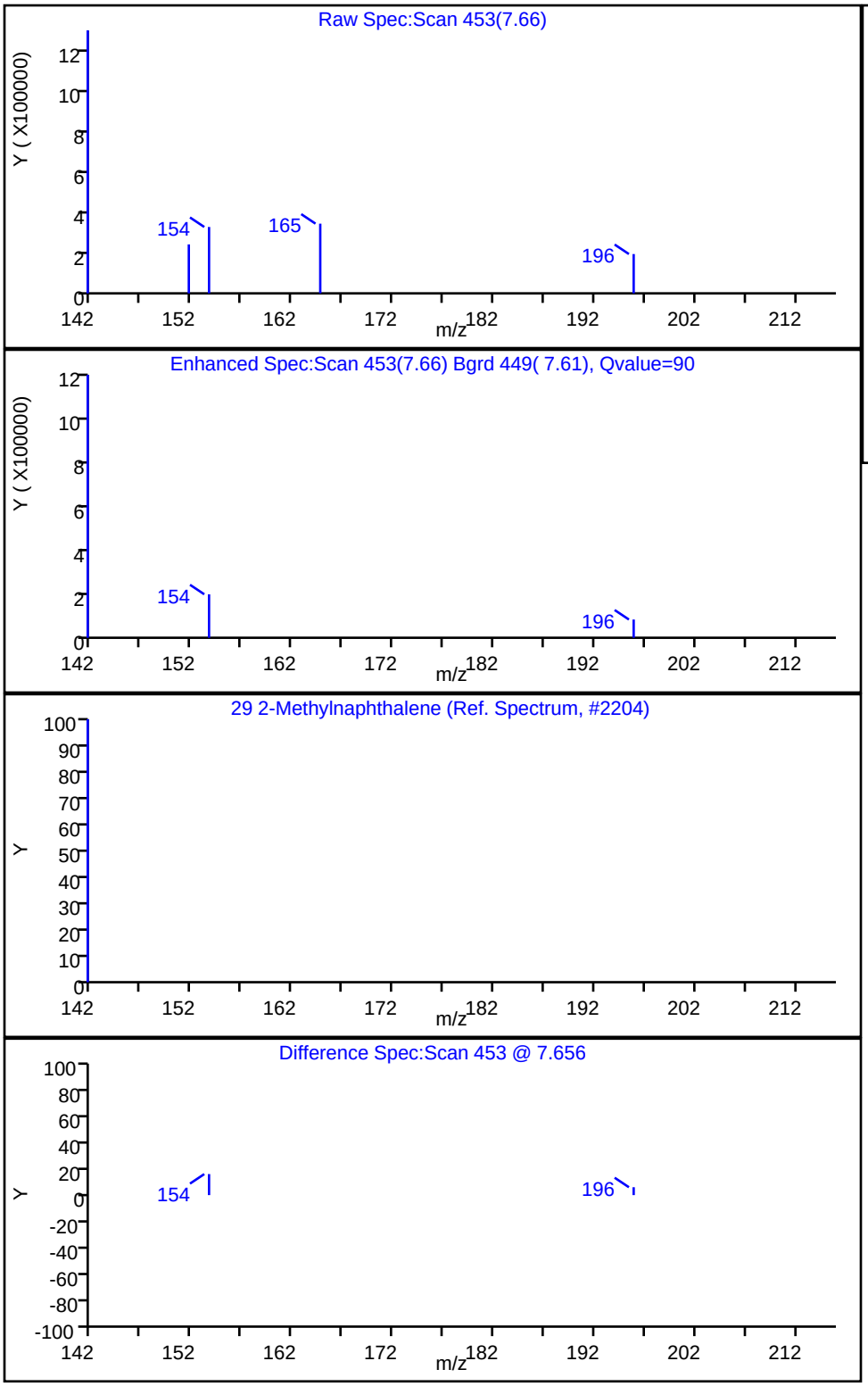
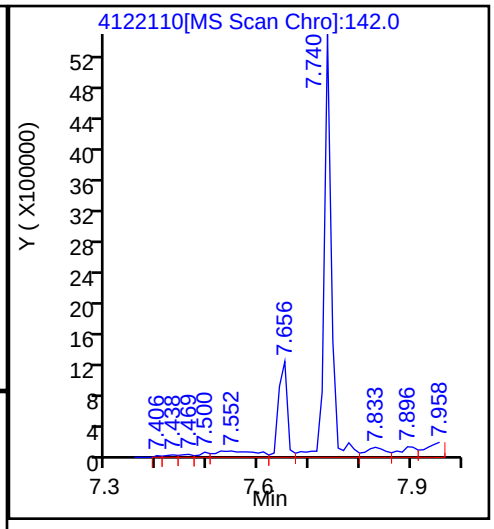
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene





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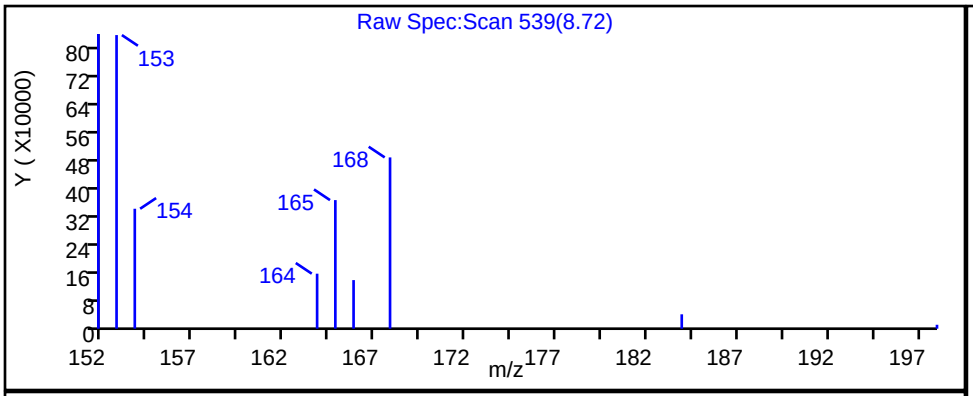
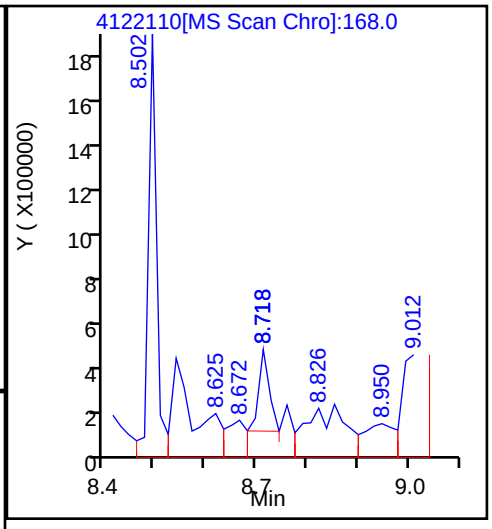
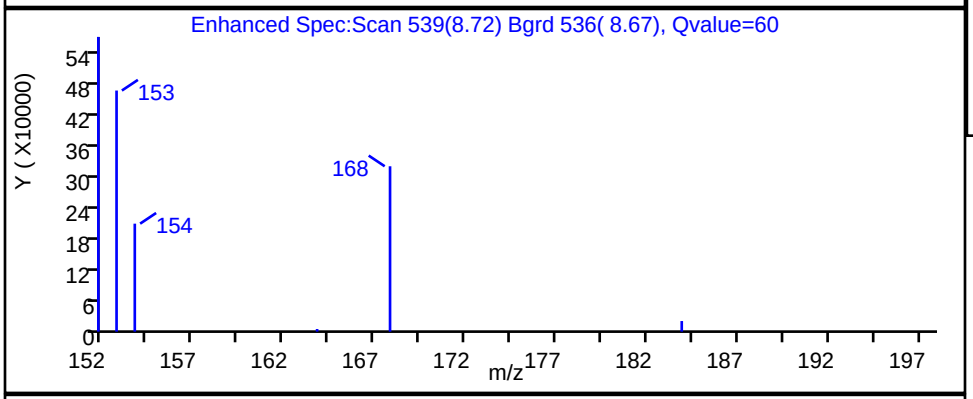
Shealy Environmental Services

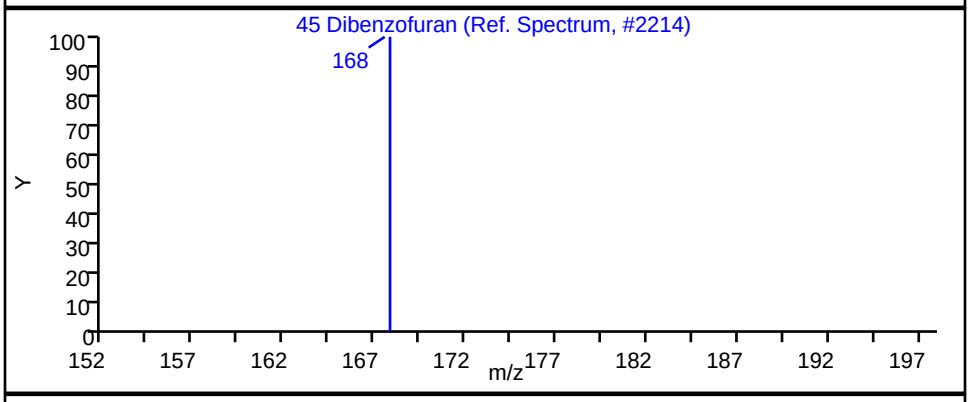
Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

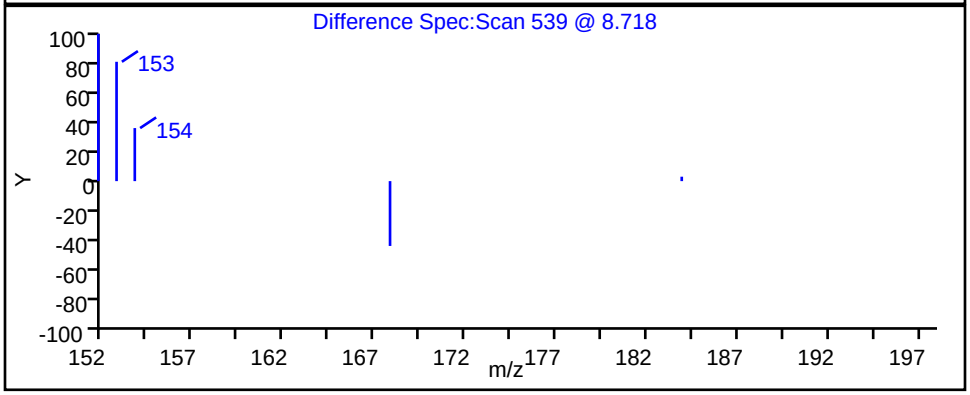
45 Dibenzofuran











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Shealy Environmental Services

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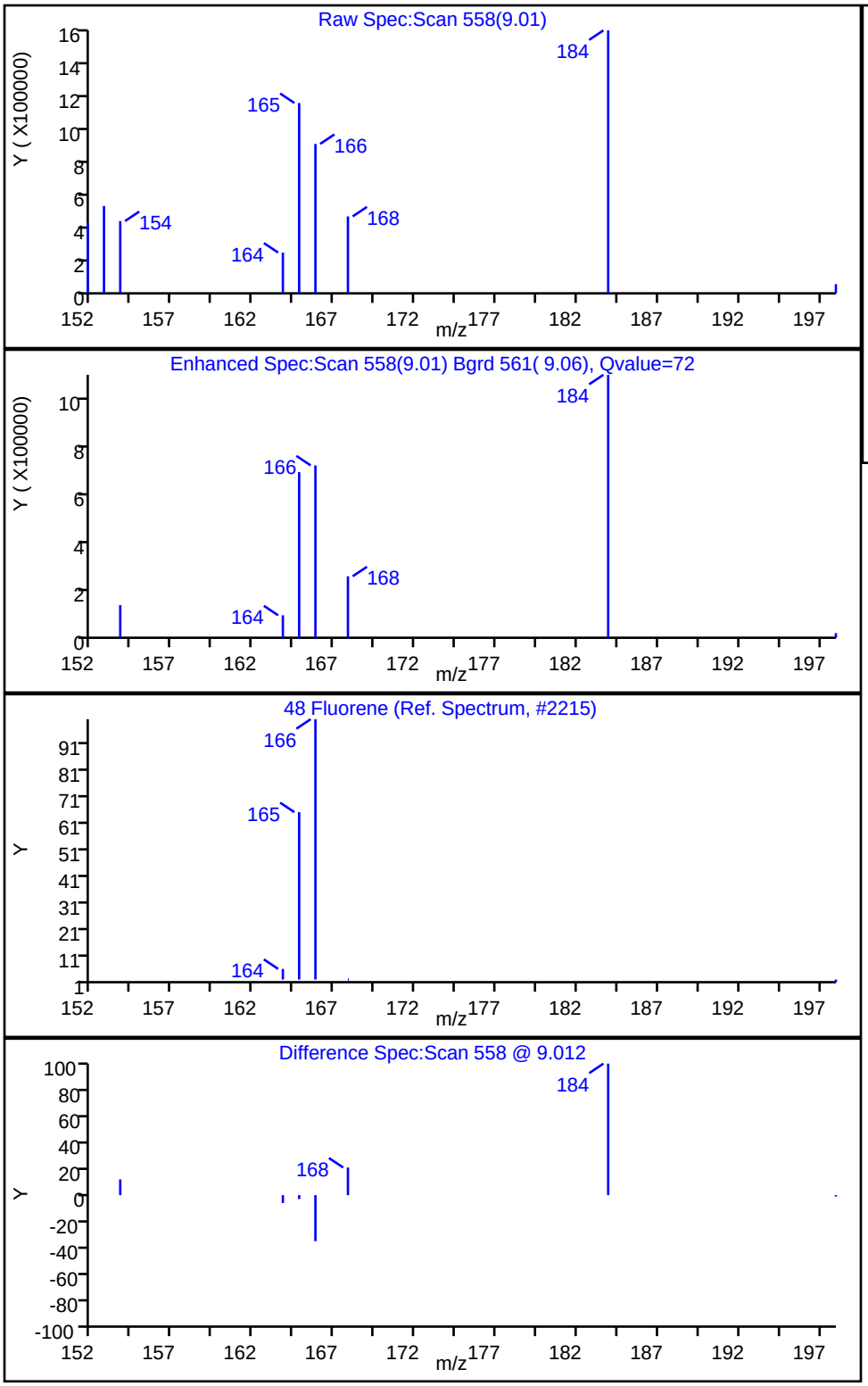
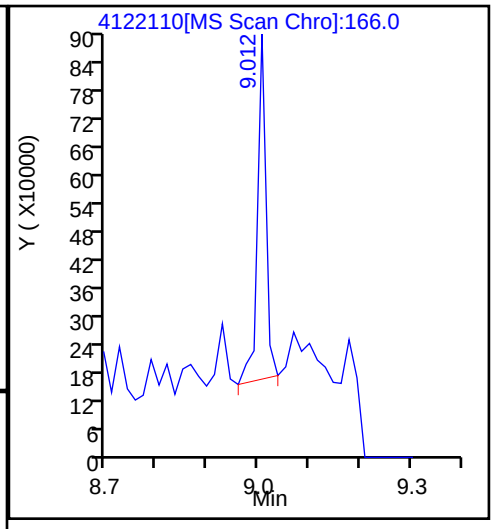
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene





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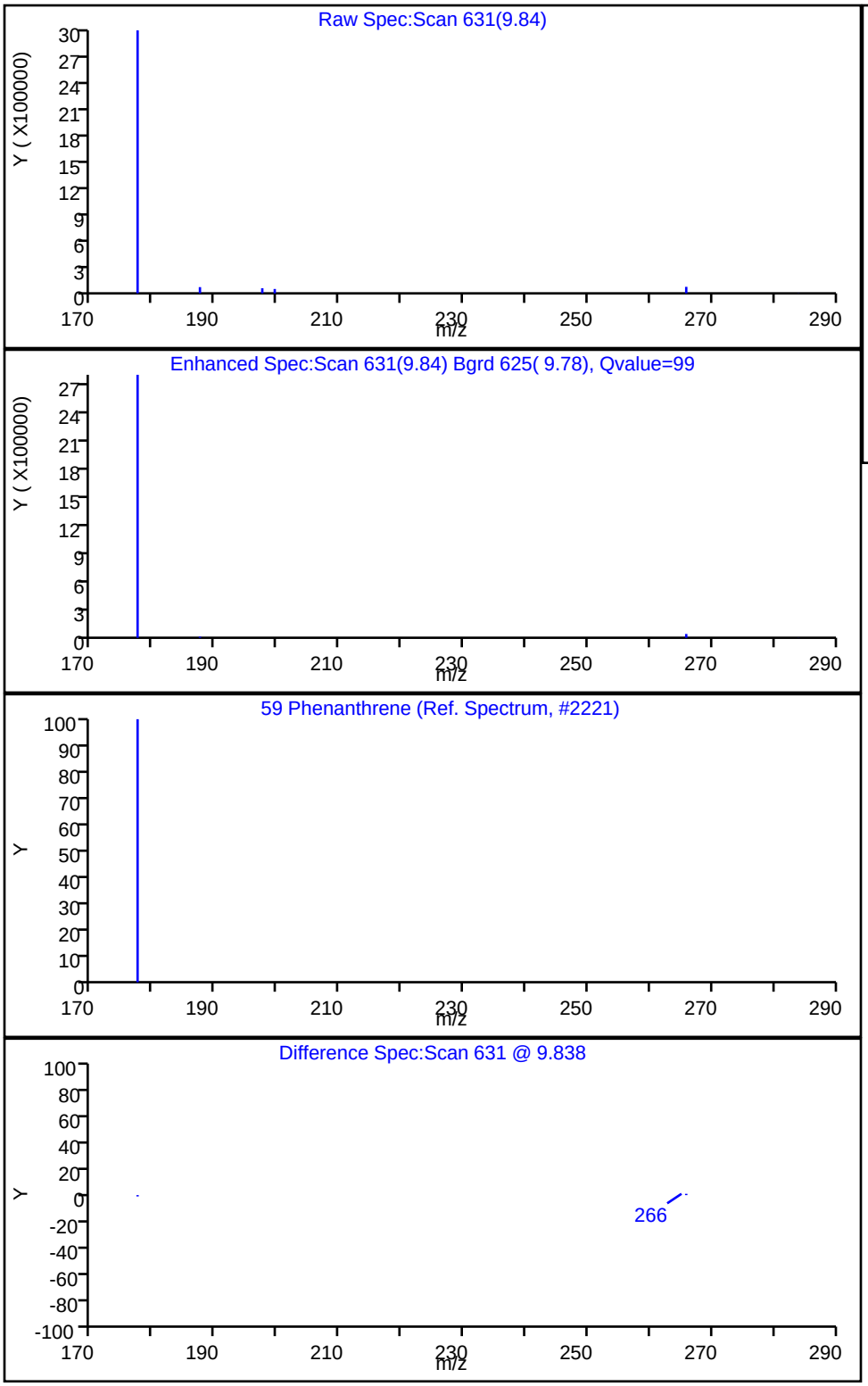
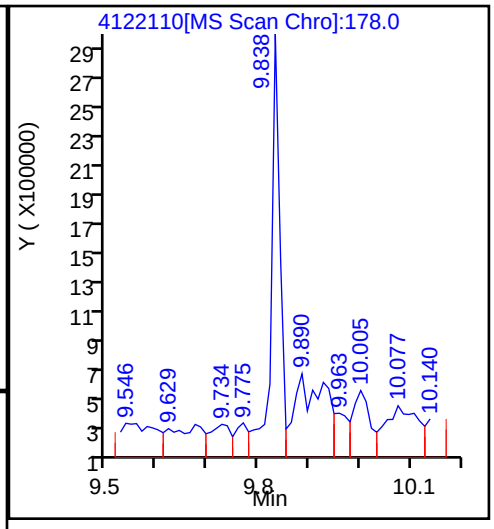
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene





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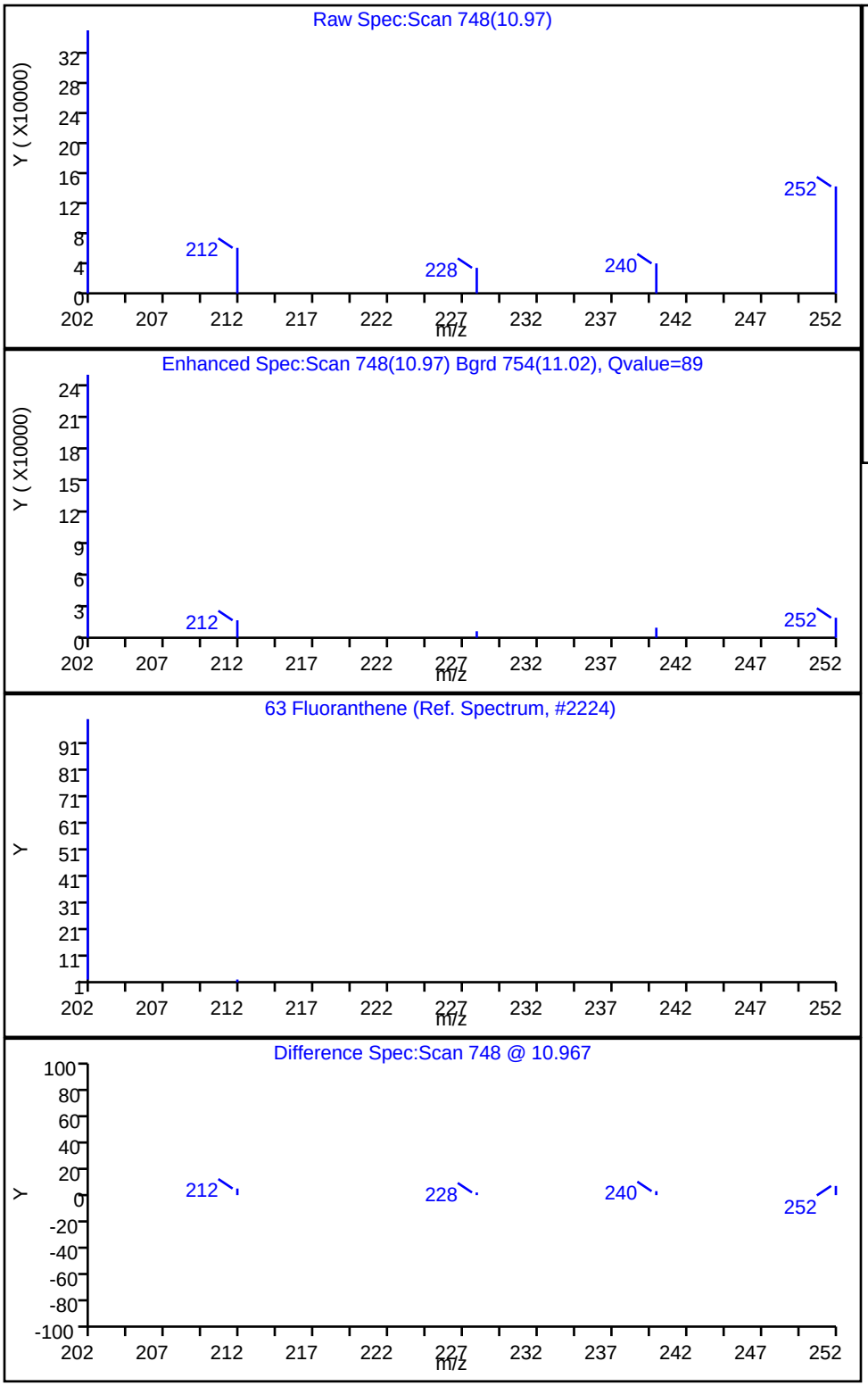
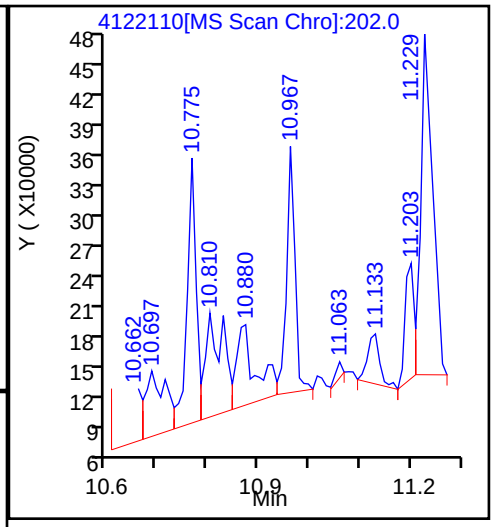
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

63 Fluoranthene



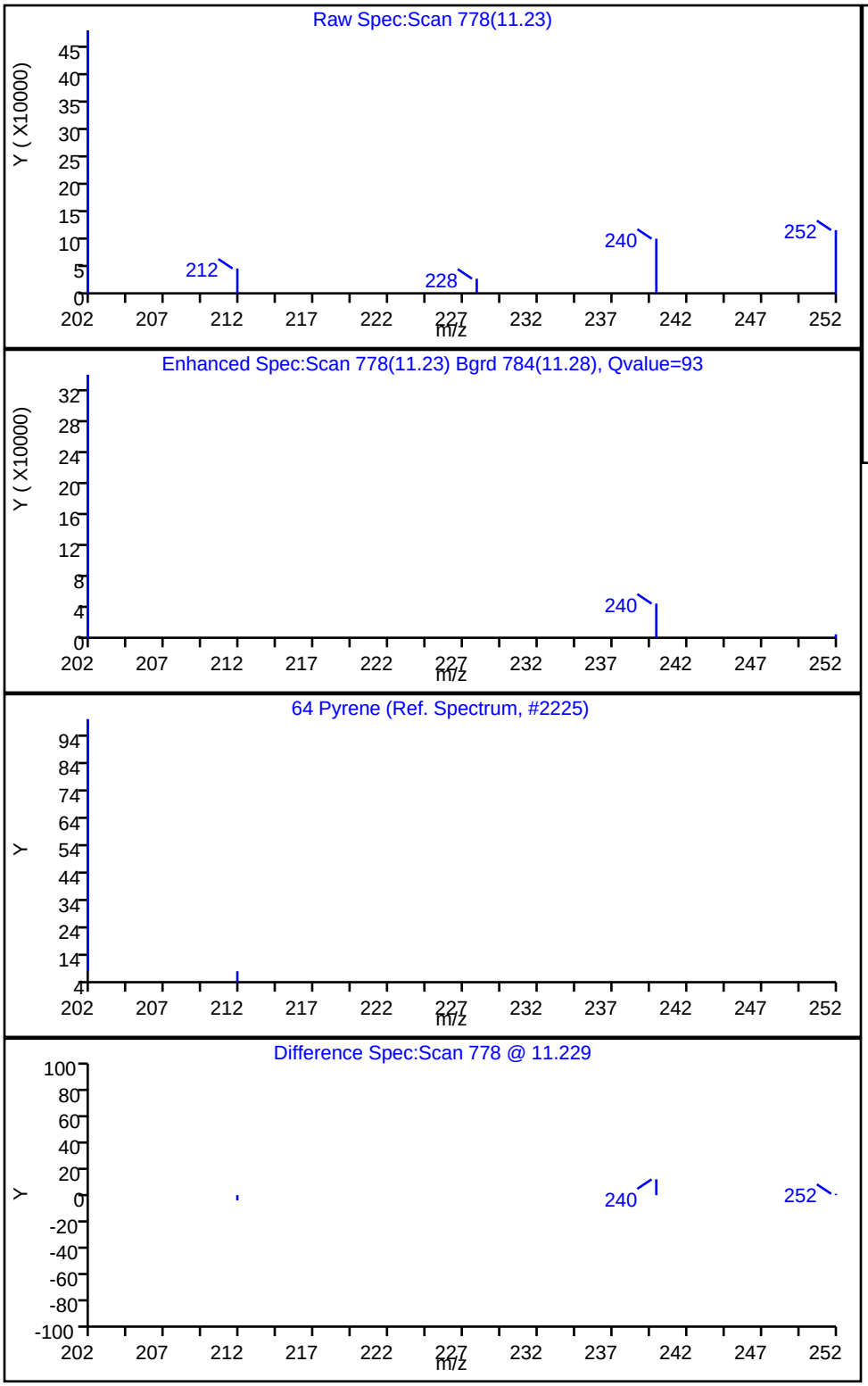


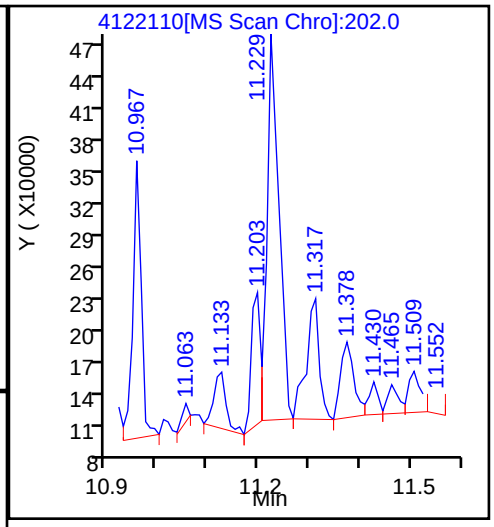
Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

64 Pyrene





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Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
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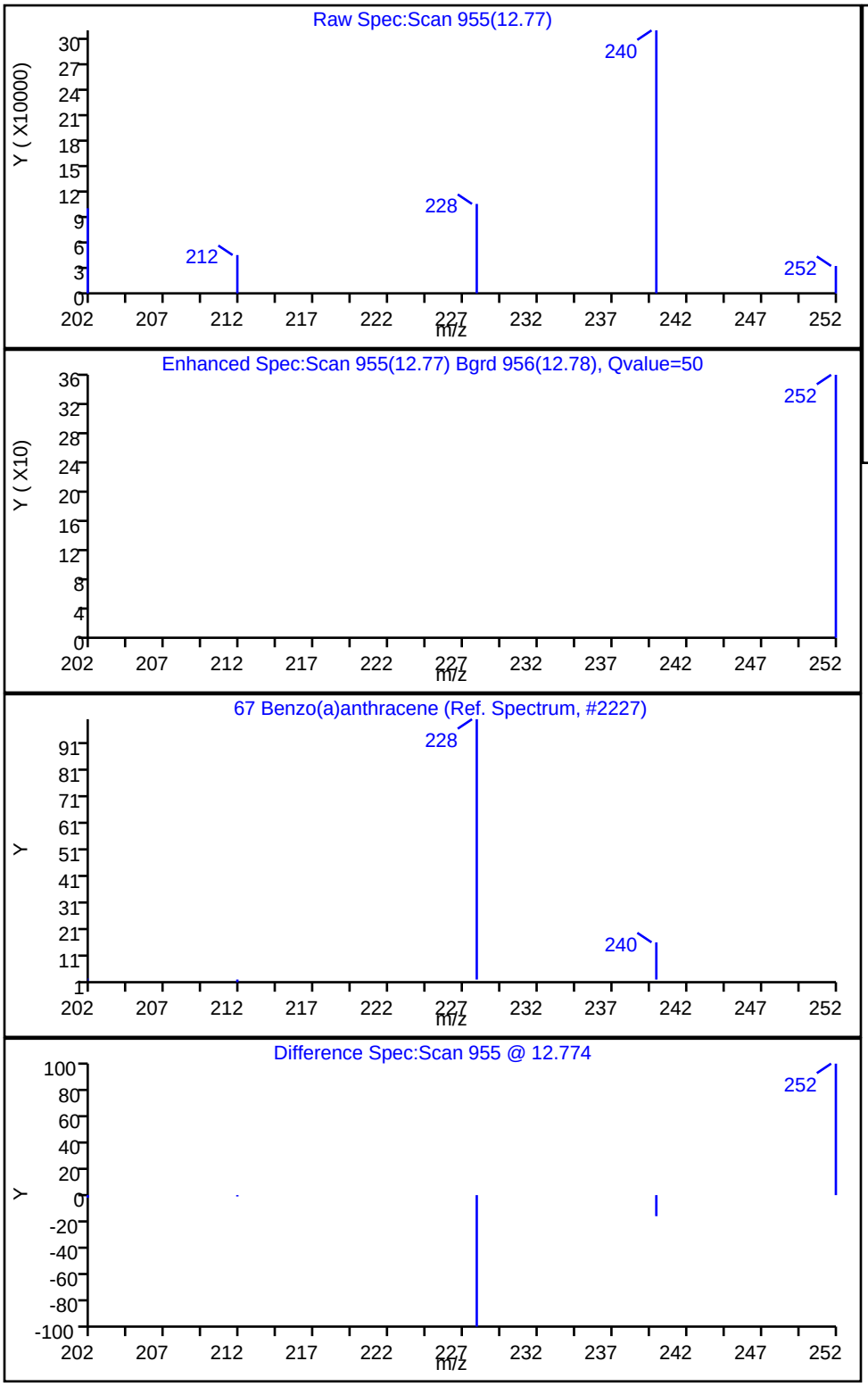
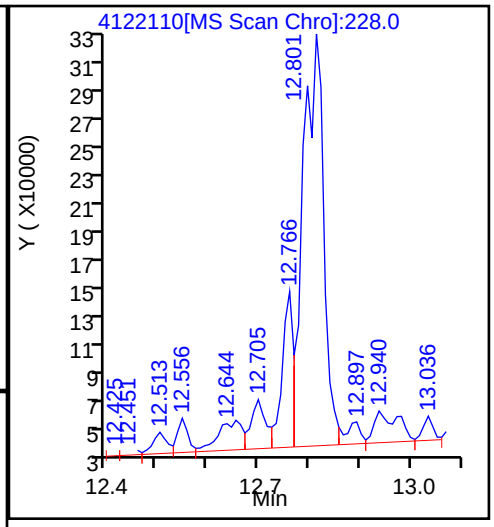
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

67 Benzo(a)anthracene





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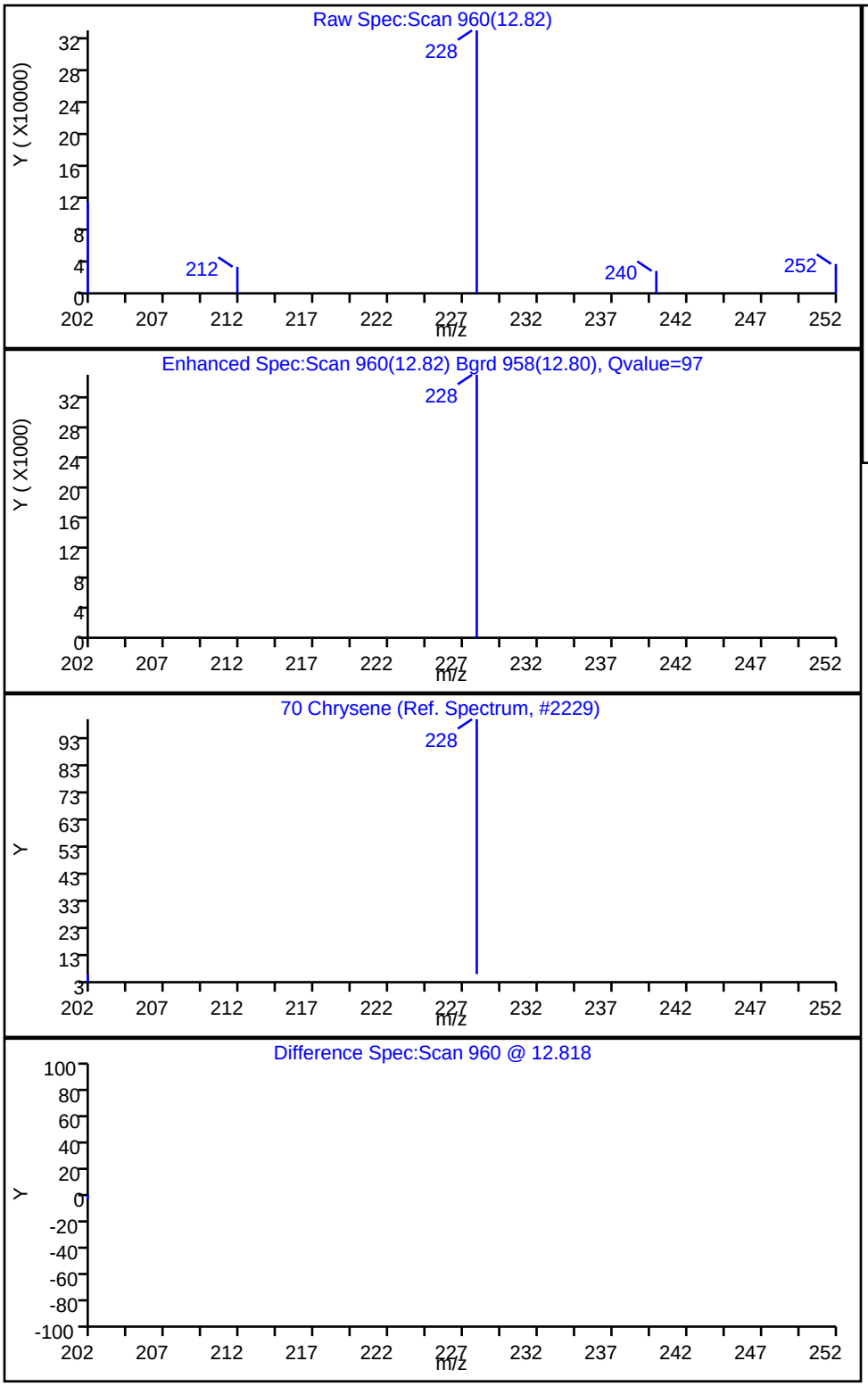
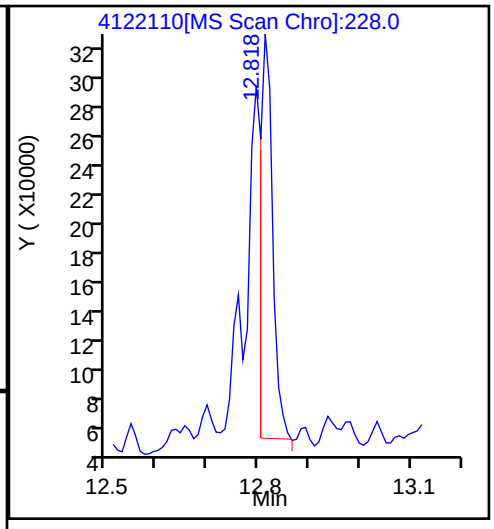
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene



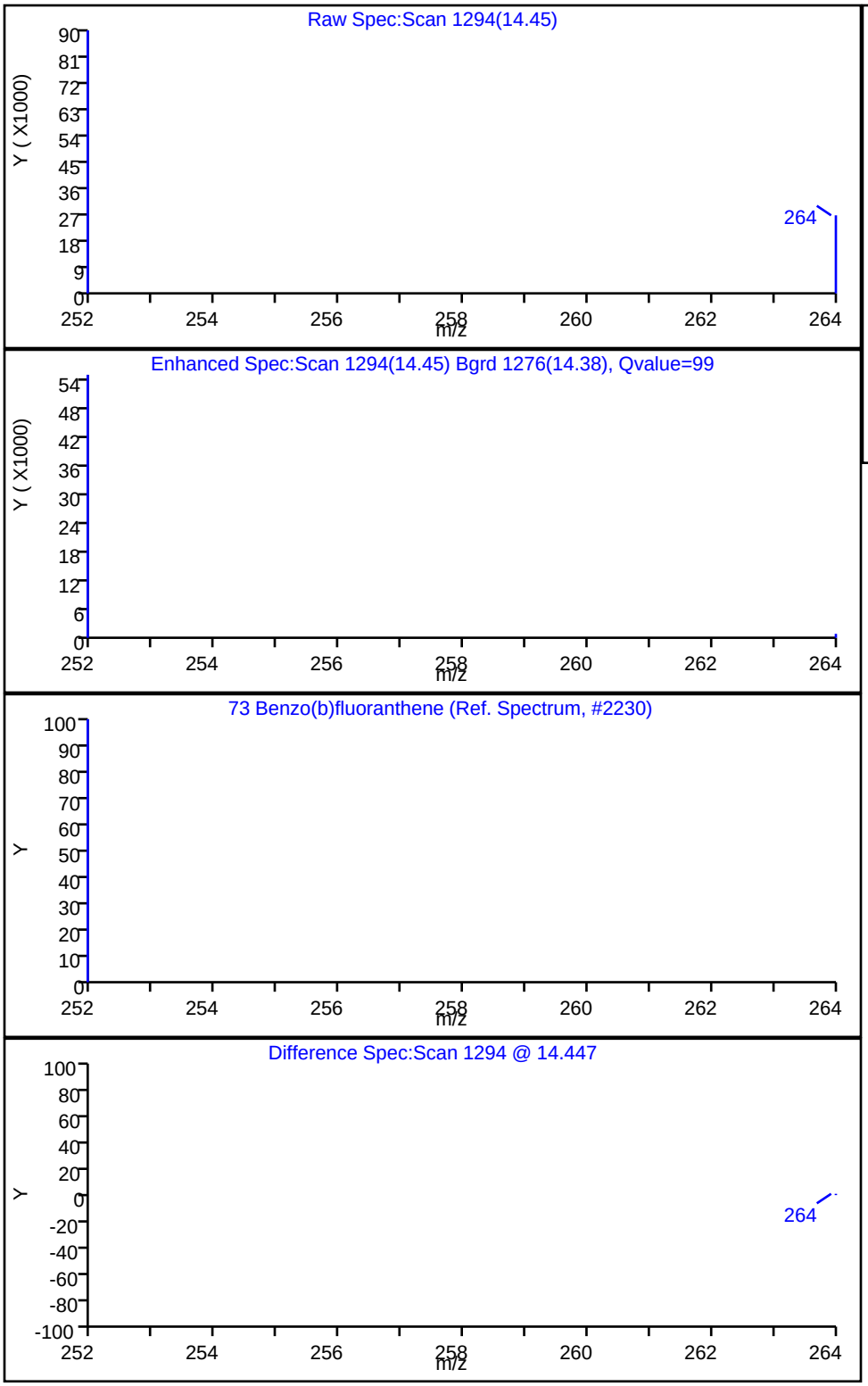


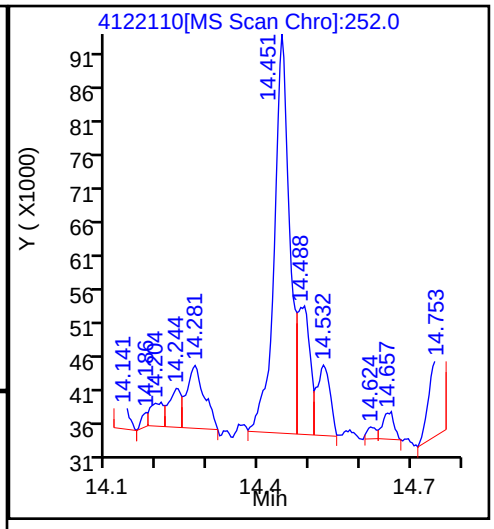
Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

73 Benzo(b)fluoranthene



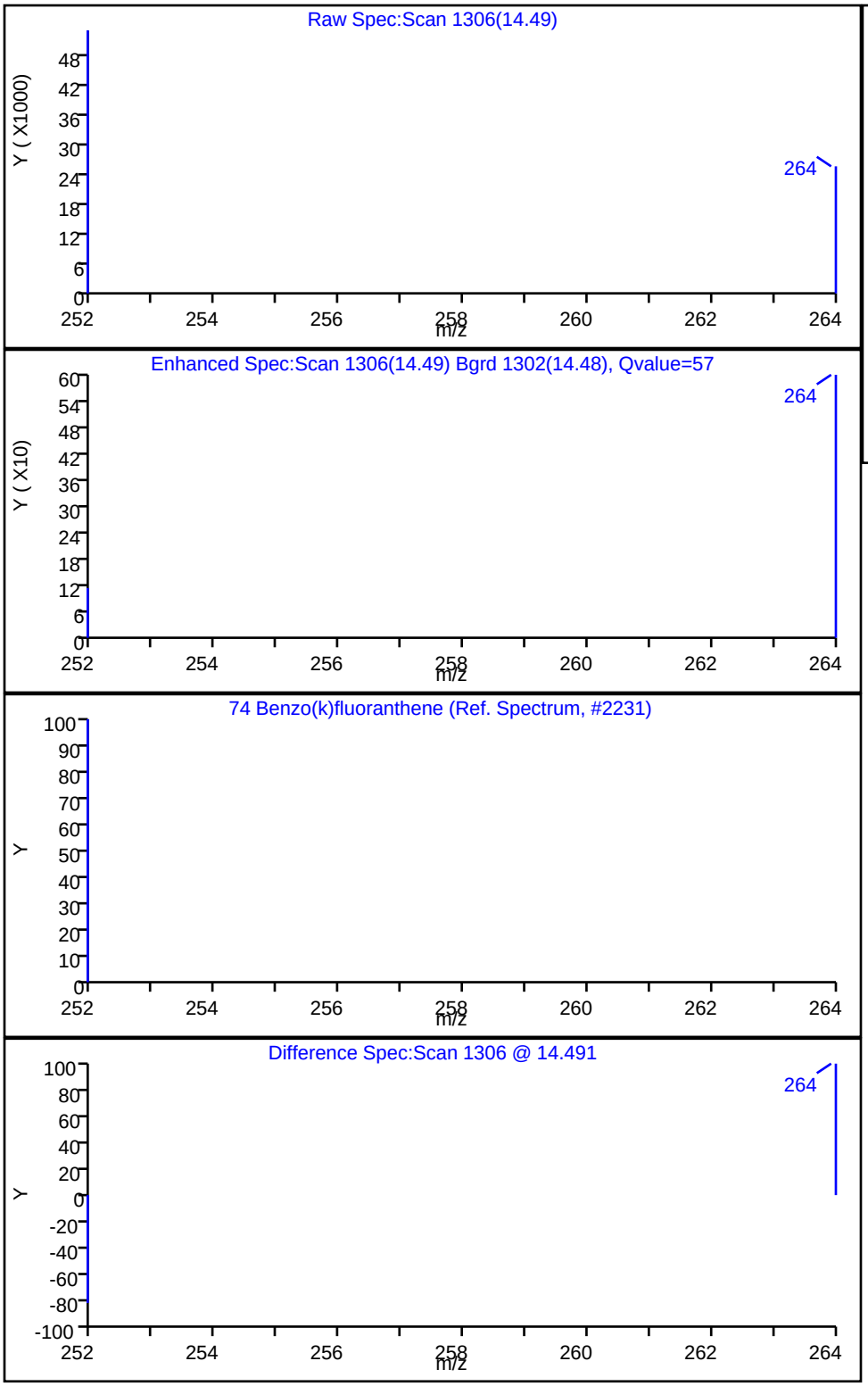


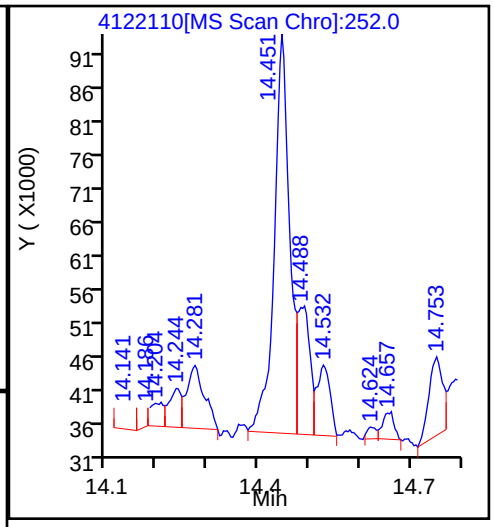
Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

74 Benzo(k)fluoranthene



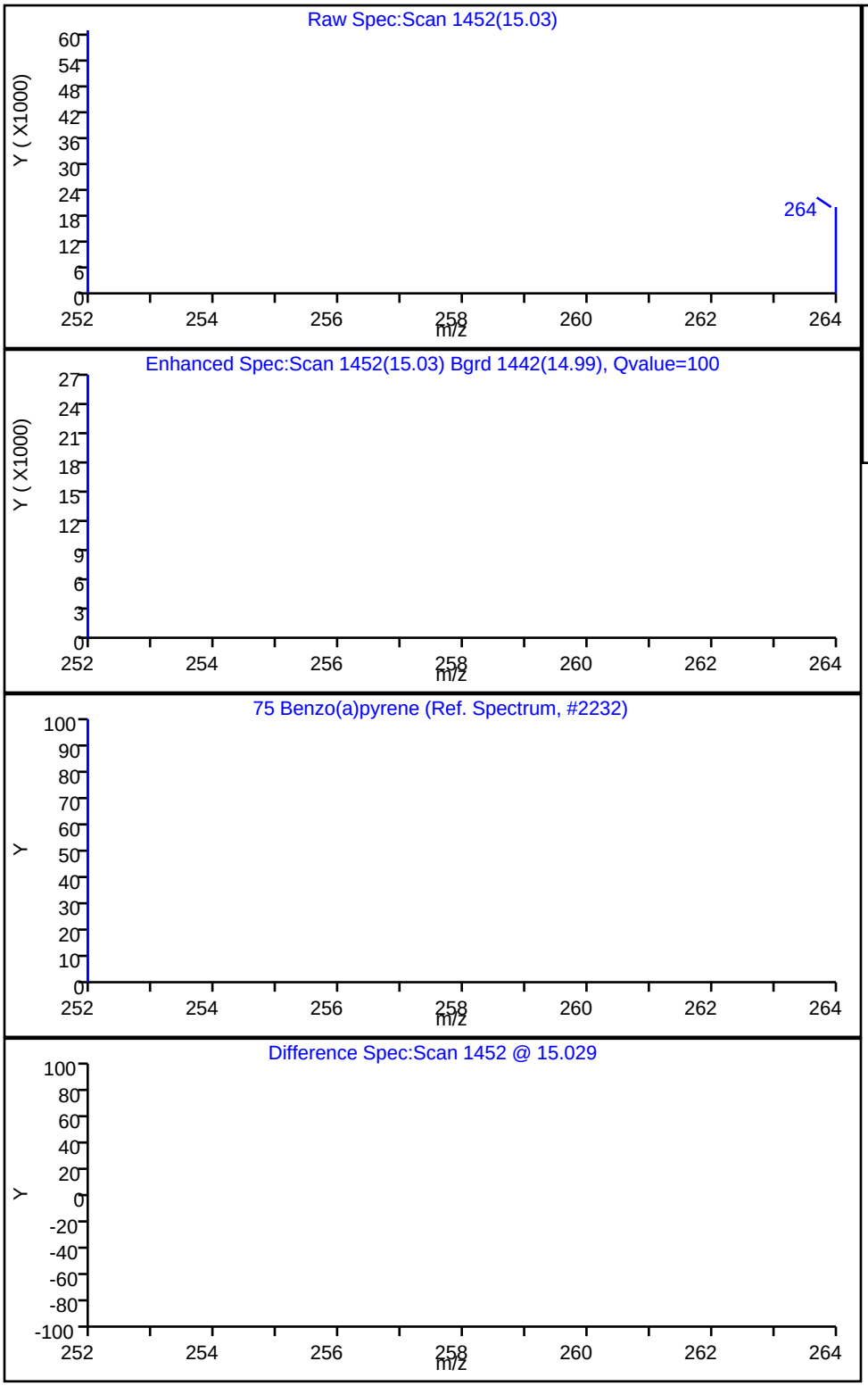


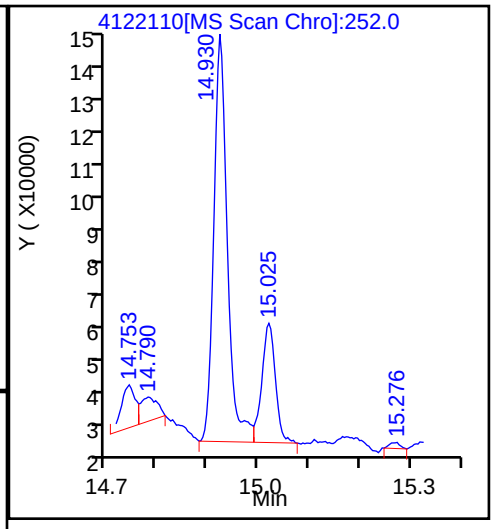
Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

75 Benzo(a)pyrene



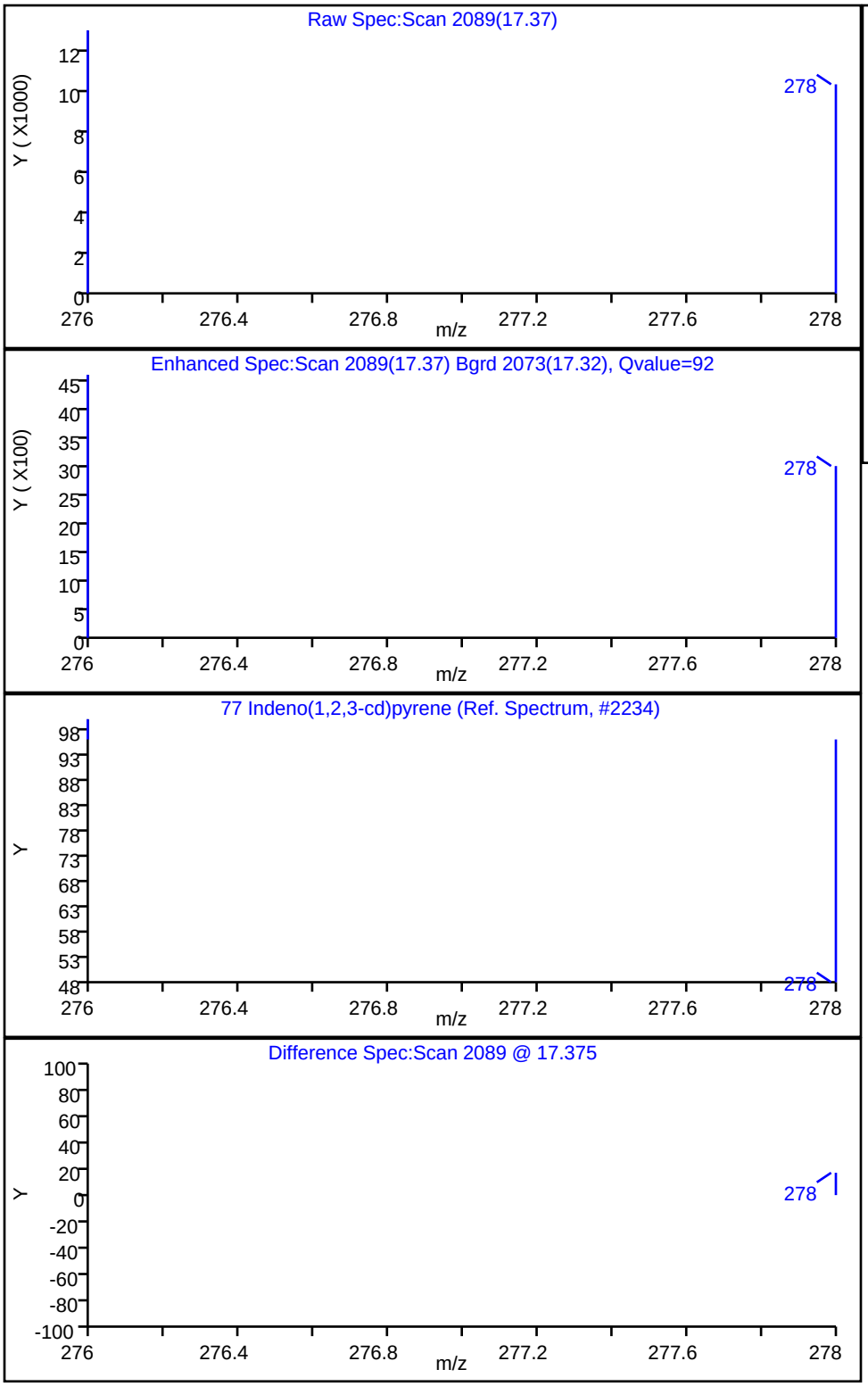


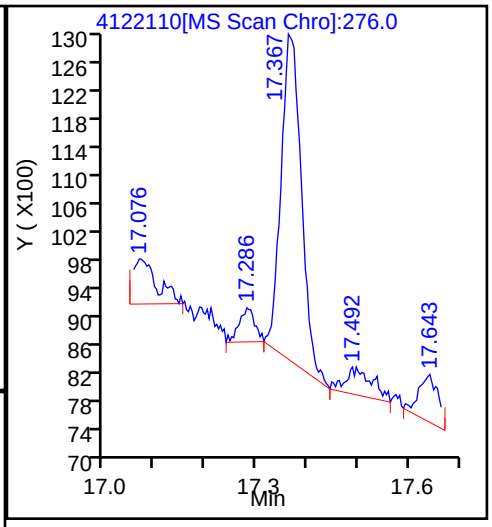
Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

77 Indeno(1,2,3-cd)pyrene



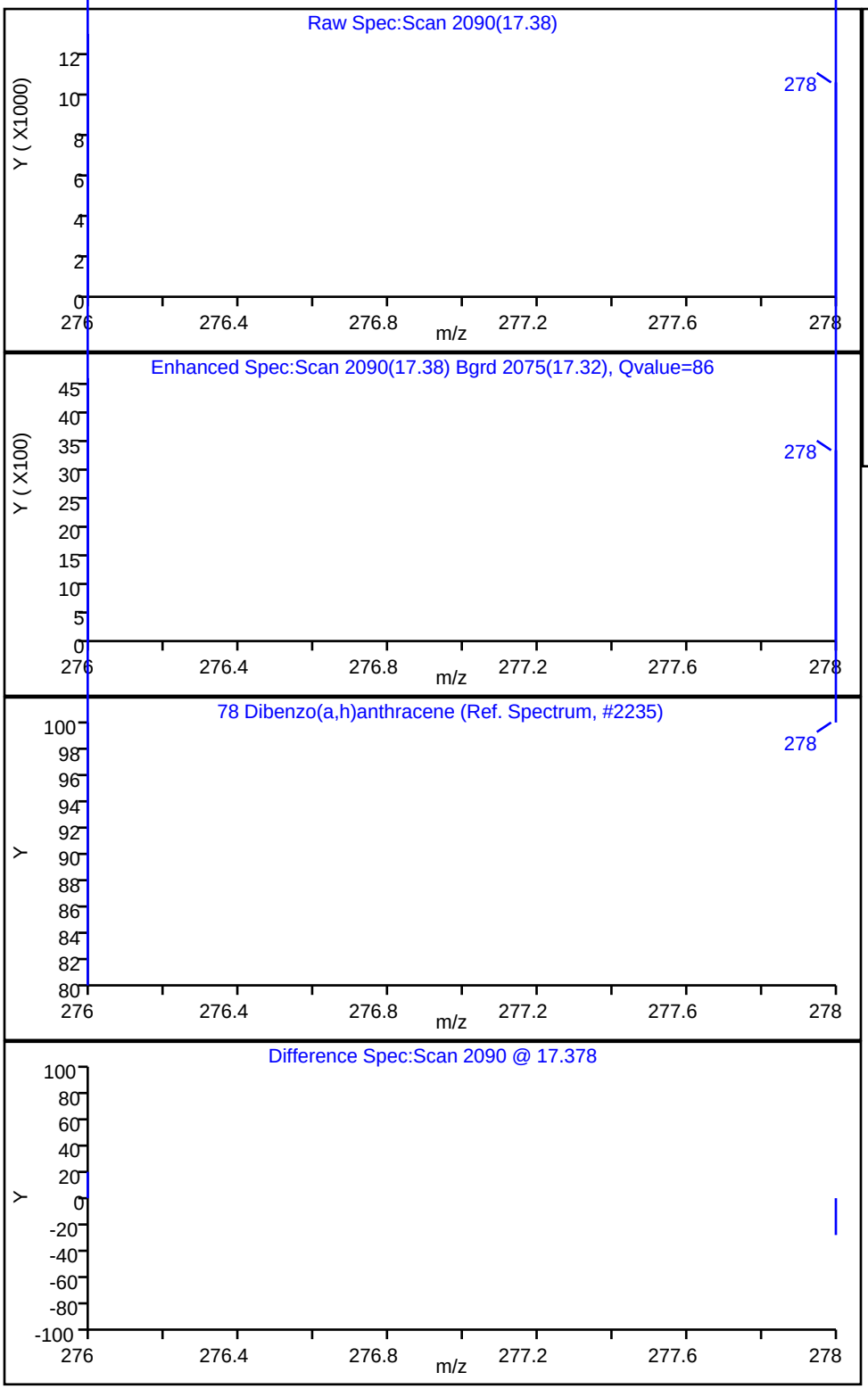


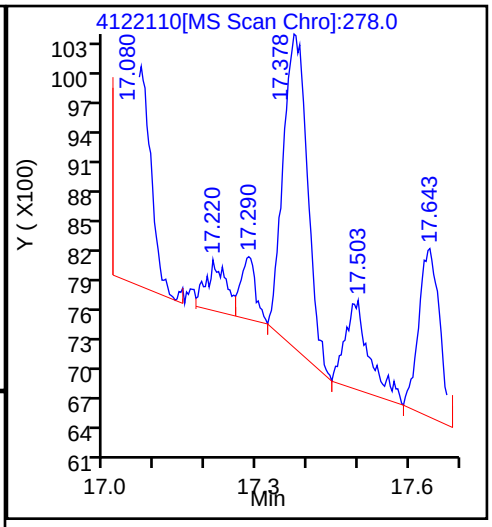
Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

78 Dibenzo(a,h)anthracene



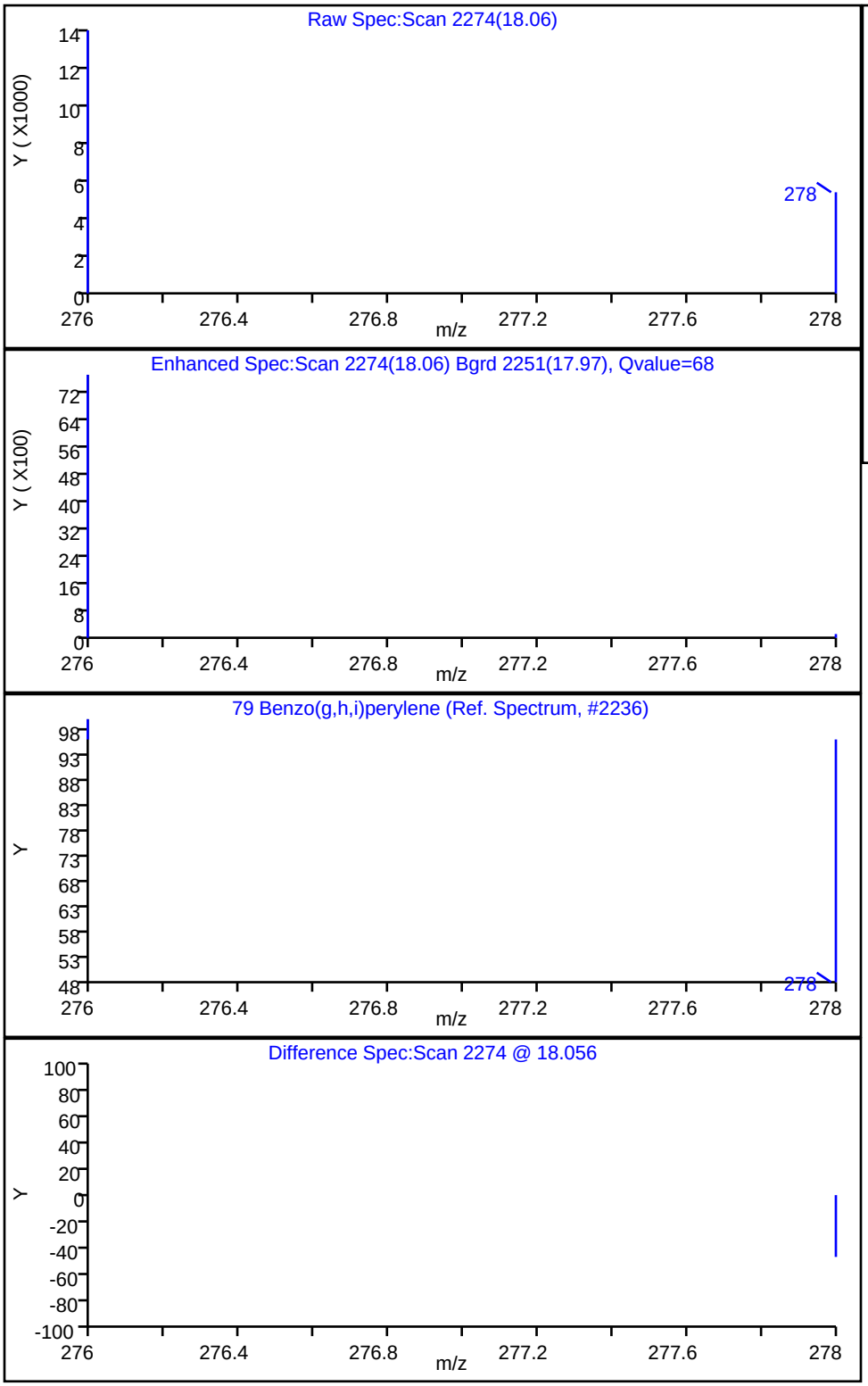


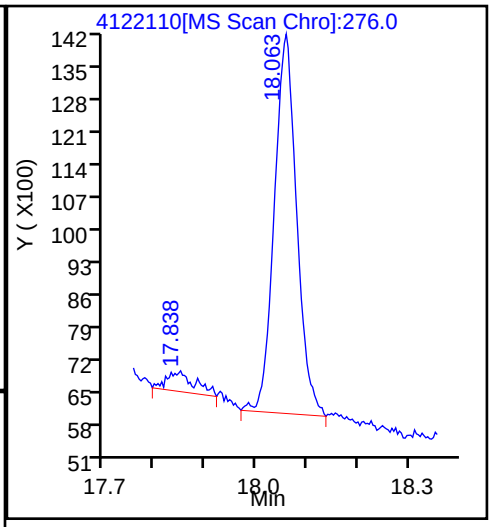
Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

79 Benzo(g,h,i)perylene





Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

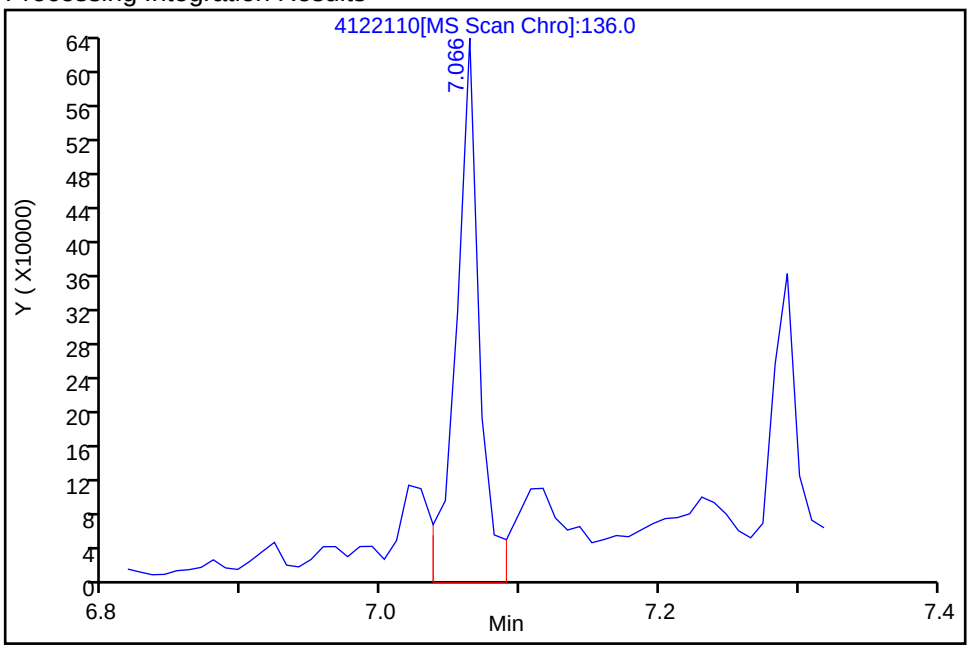
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 23 Naphthalene-d8, CAS: 1146-65-2

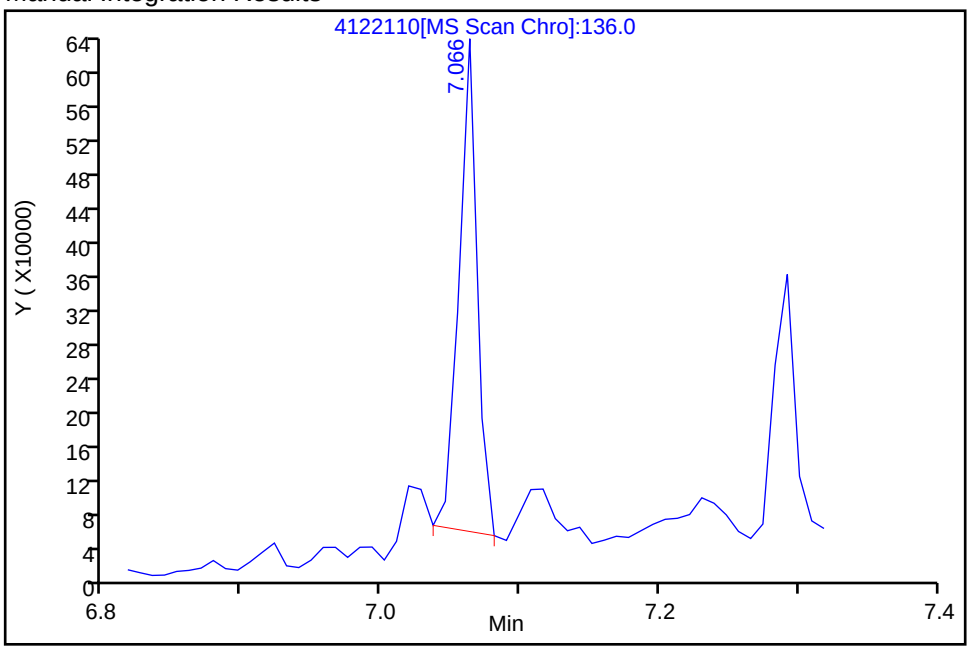
Processing Integration Results

RT: 7.066
Area: 762499
Conc: 156.93
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 7.066
Area: 517842
Conc: 313.86
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:26:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

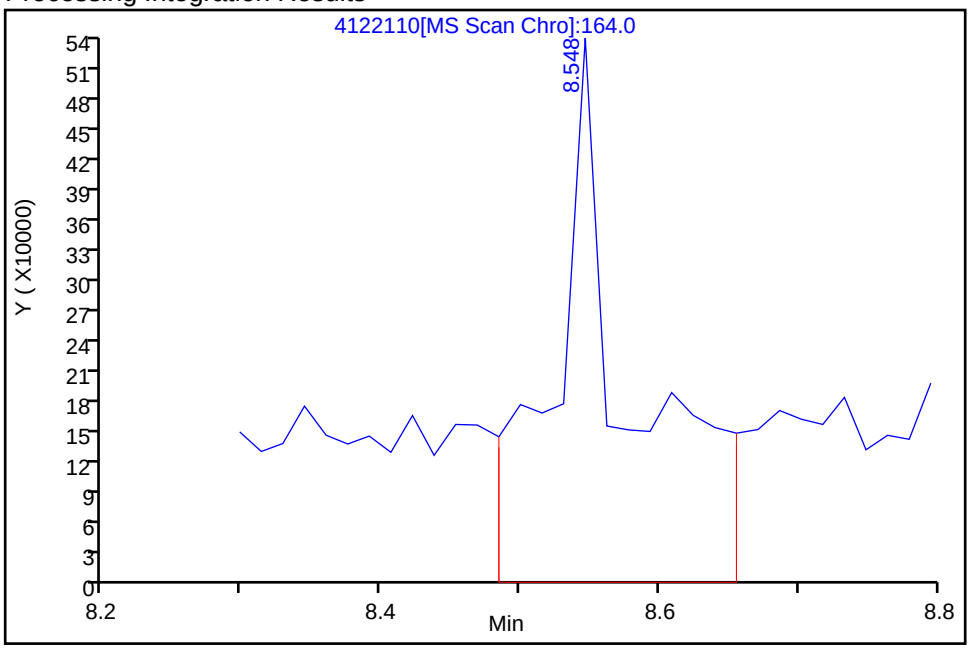
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 41 Acenaphthene-d10, CAS: 15067-26-2

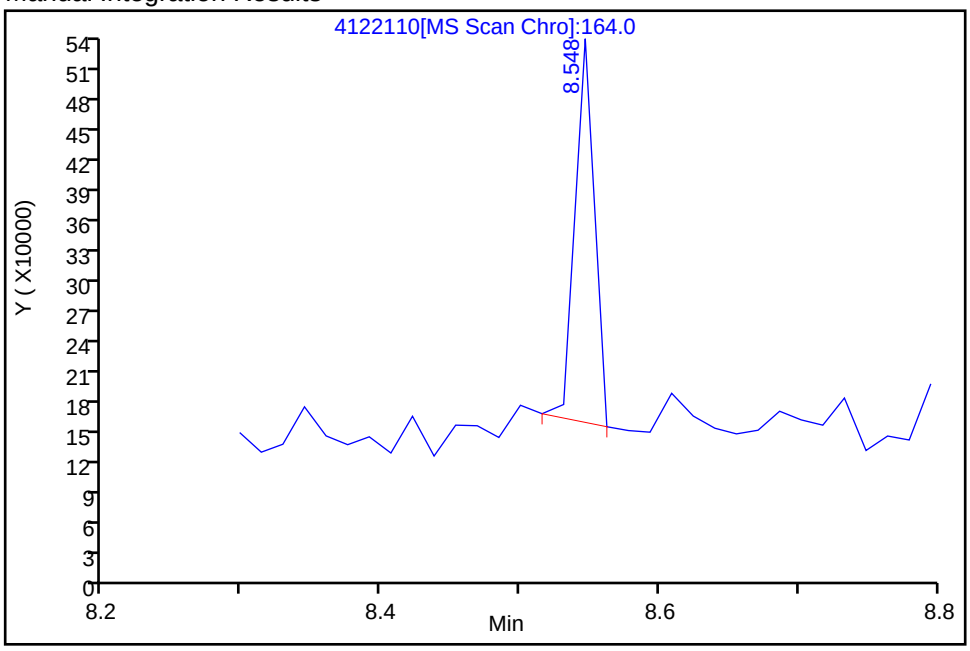
Processing Integration Results

RT: 8.548
Area: 1719241
Conc: 156.93
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 8.548
Area: 362256
Conc: 313.86
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:26:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

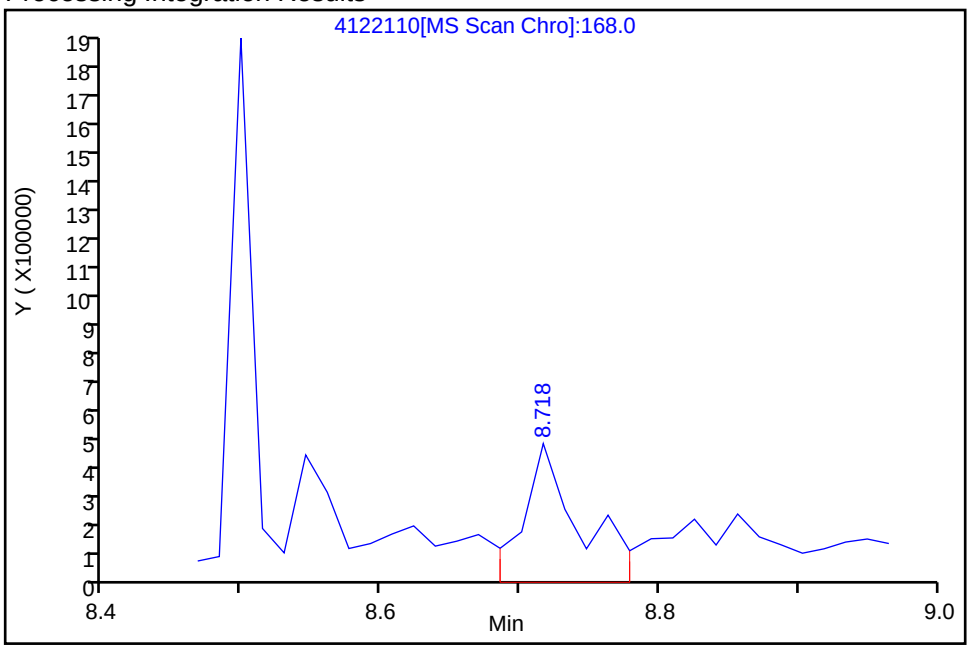
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

45 Dibenzofuran, CAS: 132-64-9

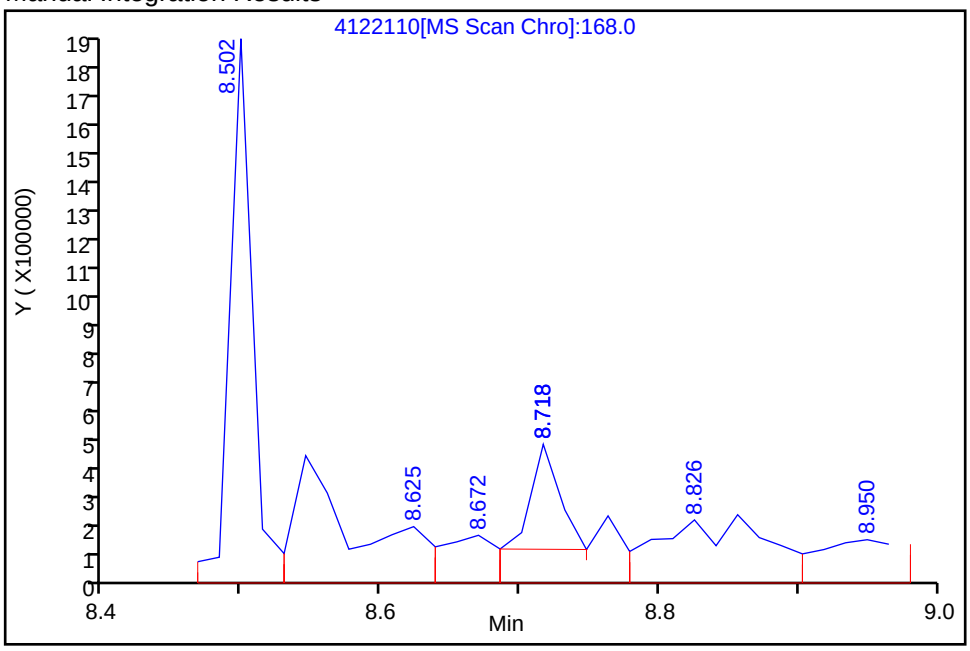
Processing Integration Results

RT:	8.718
Area:	1100921
Conc:	50.114
Conc Units:	ug/Kg
Conc:	



Manual Integration Results

RT:	8.718
Area:	519935
Conc:	224.65
Conc Units:	ug/Kg



Data Editor: rbh, 22-Dec-2015 15:38:30

Audit Action: Mint

Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

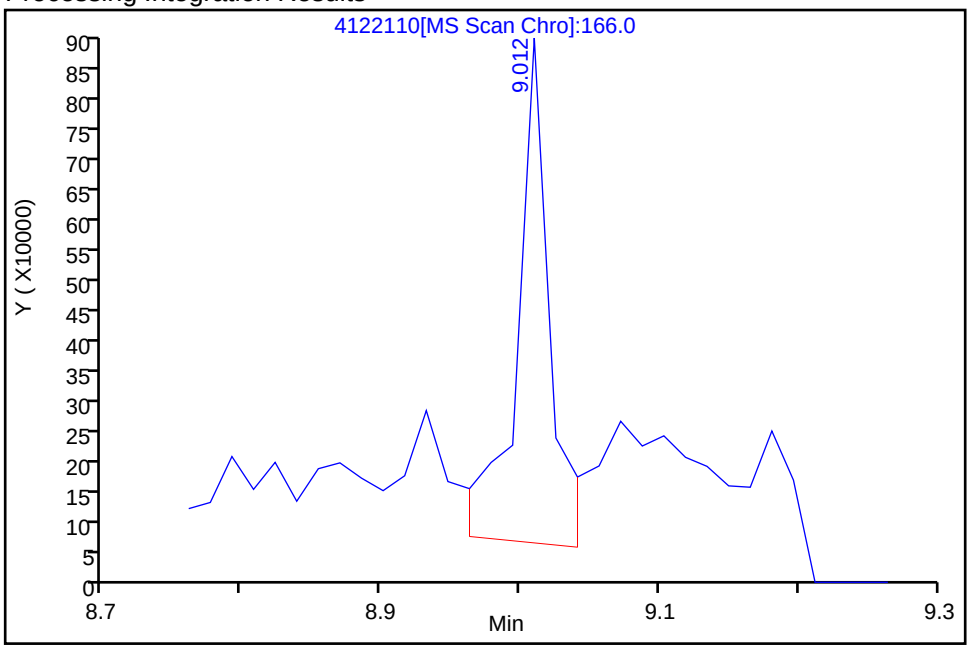
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene, CAS: 86-73-7

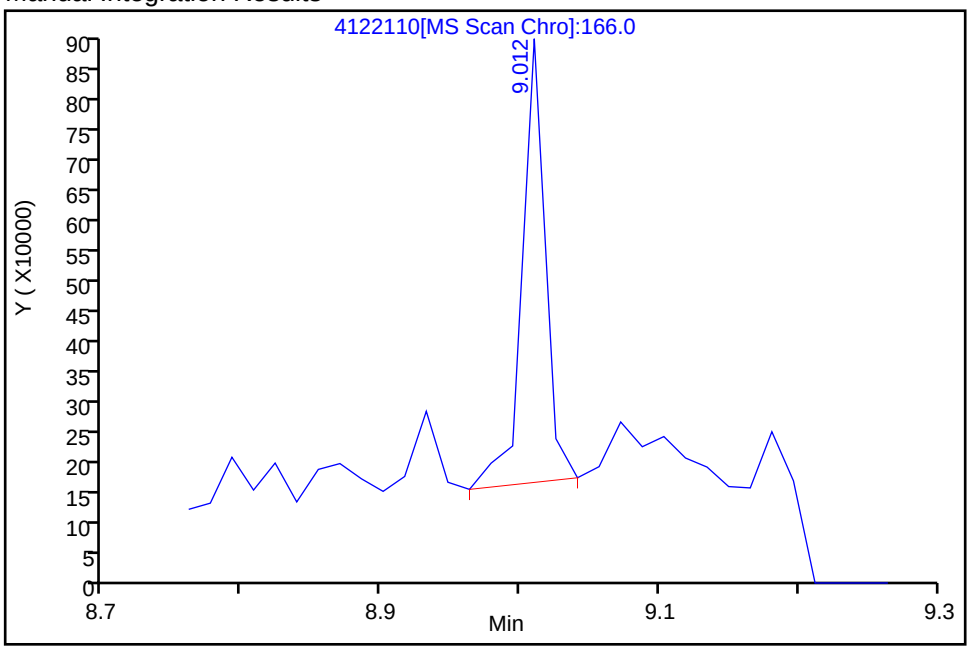
Processing Integration Results

RT: 9.012
Area: 1095450
Conc: 70.684
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 9.012
Area: 833738
Conc: 510.63
Conc Units: ug/Kg



Data Editor: rbh, 22-Dec-2015 15:39:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:15:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

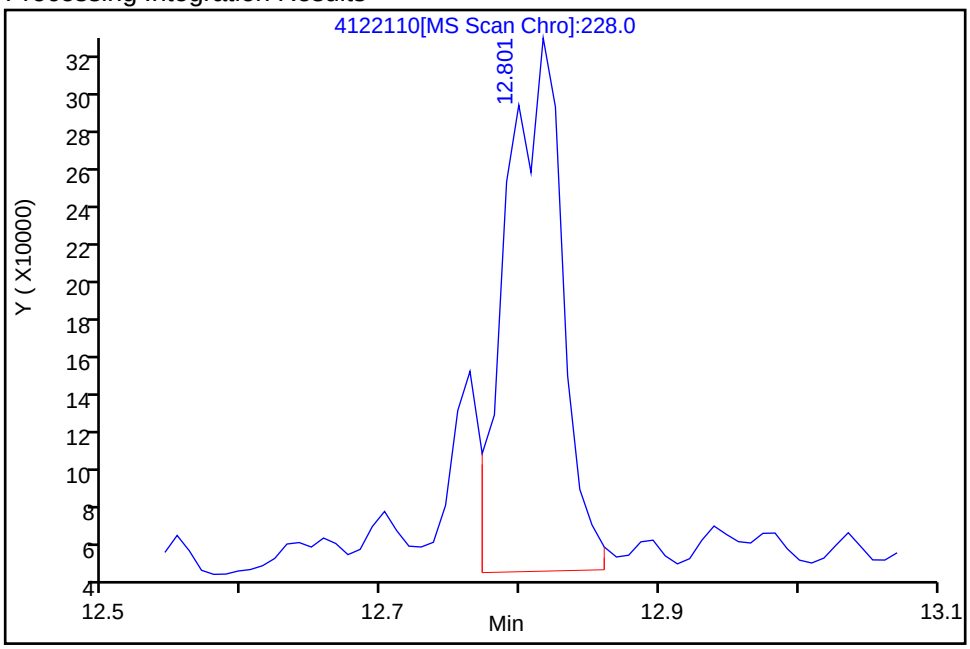
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122110.D		
Injection Date:	21-Dec-2015 12:30:30	Inst. ID:	msd4.i
Client ID:	F6R25	Lab ID:	QL12004-006
Sample Info:	4122115, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene, CAS: 218-01-9

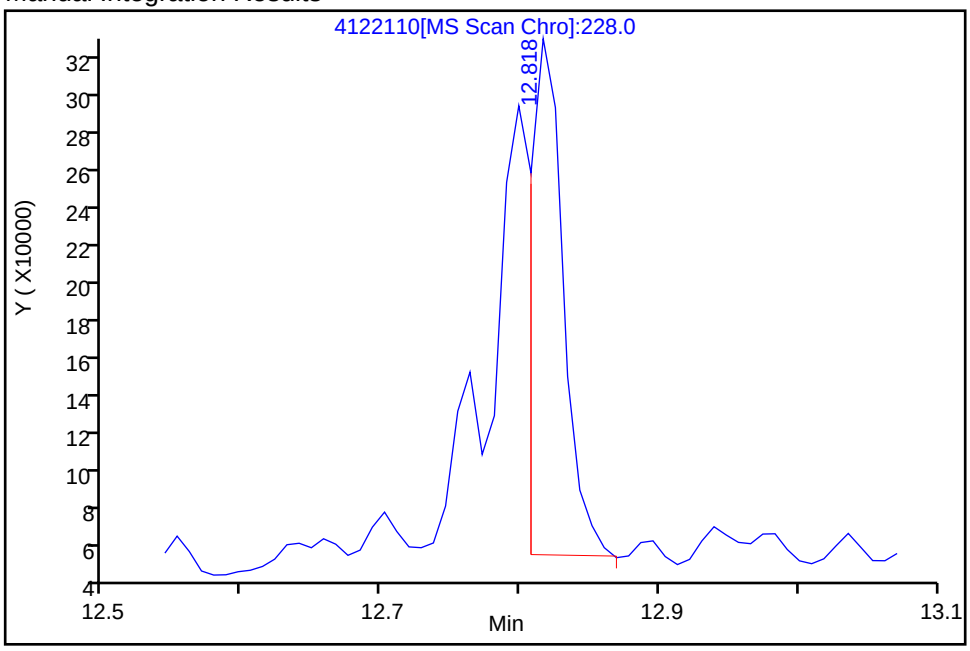
Processing Integration Results

RT: 12.801
Area: 727934
Conc: 188.95
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 12.818
Area: 442187
Conc: 229.56
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:28:30
Audit Action: Mint
Audit Reason: SP

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R25RE

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-006
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 41222B03
% Solids: 84.4
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	40	U
91-20-3	Naphthalene	740	B
91-57-6	2-Methylnaphthalene	1100	B
208-96-8	Acenaphthylene	40	U
83-32-9	Acenaphthene	40	U
86-73-7	Fluorene	590	
87-86-5	Pentachlorophenol	78	U
85-01-8	Phenanthrene	1900	
120-12-7	Anthracene	40	U
206-44-0	Fluoranthene	220	
129-00-0	Pyrene	350	
56-55-3	Benzo(a)anthracene	82	
218-01-9	Chrysene	220	
205-99-2	Benzo(b)fluoranthene	79	
207-08-9	Benzo(k)fluoranthene	24	J
50-32-8	Benzo(a)pyrene	48	
193-39-5	Indeno(1,2,3-cd)pyrene	12	J
53-70-3	Dibenzo(a,h)anthracene	40	U
191-24-2	Benzo(g,h,i)perylene	30	J
132-64-9	Dibenzofuran	250	
118-74-1	Hexachlorobenzene	40	U
87-68-3	Hexachlorobutadiene	78	U
111-44-4	bis(2-Chloroethyl)ether	78	U
108-60-1	2,2'-Oxybis(1-chloropropane)	78	U
621-64-7	N-Nitrosodi-n-propylamine	40	U
67-72-1	Hexachloroethane	78	U
98-95-3	Nitrobenzene	78	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R25RE

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-006
Sample wt/vol: 30.2 (g/mL) g
Lab File ID: 41222B03
% Solids: 84.4
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/22/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	78	U
88-06-2	2,4,6-Trichlorophenol	78	U
92-52-4	1,1'-Biphenyl	40	U
606-20-2	2,6-Dinitrotoluene	40	U
51-28-5	2,4-Dinitrophenol	780	U
121-14-2	2,4-Dinitrotoluene	40	U
534-52-1	4,6-Dinitro-2-methylphenol	78	U
95-94-3	1,2,4,5-Tetrachlorobenzene	78	U
1912-24-9	Atrazine	78	U
91-94-1	3,3'-Dichlorobenzidine	78	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B03.D		
Lab Sample ID:	QL12004-006	Client Sample ID:	F6R25RE
Injection Date:	22-Dec-2015 10:39:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122215B, QL12004-006		
Misc. Info:	92513 20X		
Method:	\\Organics\HH\chem\msd4.i\4122215B.b\SIM2544.m		
Method Date:	04-Jan-2016 15:15:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	1
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.200	Weight of sample extracted (g)
M	15.600	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 14:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.744	3.761	-0.017	1083	0.007424	5.8254	e
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.727		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.770		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.024	-0.009	101647	0.40000	313.86	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.184		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.288		ND			
15 Hexachloroethane	117.0		6.434		ND			
$ 16 Nitrobenzene-d5	128.0		6.455		ND			
17 Nitrobenzene	77.0		6.476		ND			
$ 96 2,4-Dichlorophenol-d3	165.0		6.926		ND			
* 23 Naphthalene-d8	136.0	7.066	7.057	0.009	658289	0.40000	313.86	
24 Naphthalene	128.0	7.057	7.074	-0.017	1600821	0.93764	735.73	
25 4-Chloroaniline	127.0		7.074		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0		7.615		ND			
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	1363597	1.3527	1061.39	
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.031		ND			
39 2,6-Dinitrotoluene	165.0		8.316		ND			
38 Acenaphthylene	152.0		8.425		ND			
* 41 Acenaphthene-d10	164.0	8.548	8.533	0.015	332889	0.40000	313.86	MI

Report Date: 04-Jan-2016 15:16:09 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122215B.b\41222B03.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0	8.718	8.718	0.000	530447	0.31785	249.41	M
48 Fluorene	166.0	9.012	9.012	0.000	880249	0.74769	586.68	M
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0		9.484		ND			
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0		9.650		ND			
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	512117	0.40000	313.86	
59 Phenanthrene	178.0	9.838	9.827	0.011	3418219	2.4508	1923.06	
60 Anthracene	178.0		9.879		ND			
$ 116 Flouranthene-d10	212.0		10.941		ND			
63 Fluoranthene	202.0	10.967	10.959	0.008	429940	0.28405	222.88	
64 Pyrene	202.0	11.229	11.221	0.008	652571	0.44760	351.21	
68 3,3'-Dichlorobenzidine	252.0		12.661		ND			
67 Benzo(a)anthracene	228.0	12.766	12.748	0.018	137550	0.10420	81.765	
* 69 Chrysene-d12	240.0	12.783	12.766	0.017	531739	0.40000	313.86	
70 Chrysene	228.0	12.818	12.809	0.009	374031	0.28547	224.00	M
73 Benzo(b)fluoranthene	252.0	14.447	14.432	0.015	128827	0.10131	79.493	
74 Benzo(k)fluoranthene	252.0	14.491	14.476	0.015	37992	0.03005	23.580	e
75 Benzo(a)pyrene	252.0	15.025	15.003	0.022	71174	0.06114	47.971	
* 76 Perylene-d12	264.0	15.121	15.103	0.018	421981	0.40000	313.86	
77 Indeno(1,2,3-cd)pyrene	276.0	17.375	17.353	0.023	20655	0.01576	12.363	e
78 Dibenzo(a,h)anthracene	278.0		17.367		ND			
79 Benzo(g,h,i)perylene	276.0	18.063	18.037	0.026	41421	0.03770	29.584	e

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

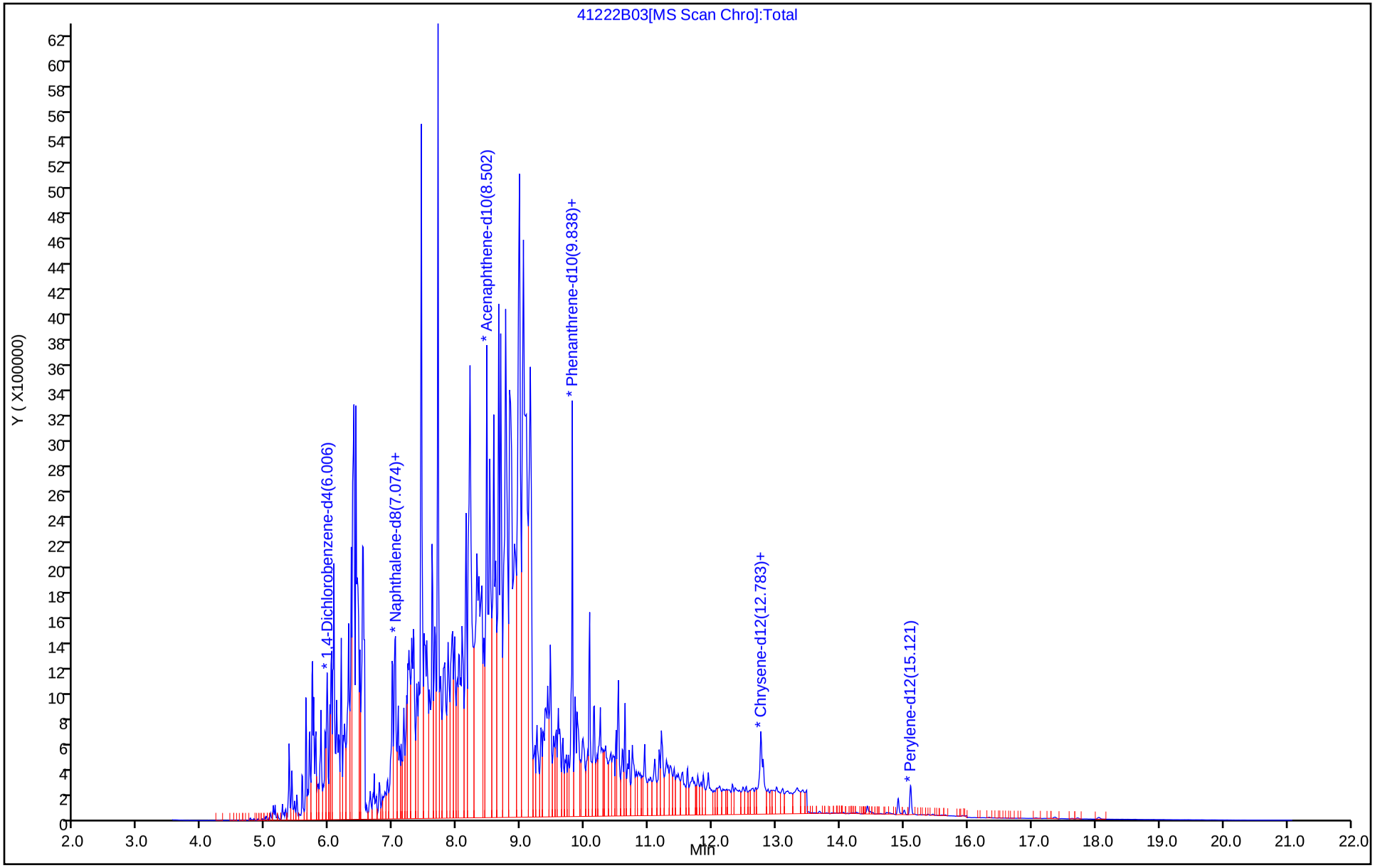
I - Istd Fails Area Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B03.D				
Injection Date:	22-Dec-2015 10:39:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R25RE	Lab ID:	QL12004-006		
Sample Info:	4122215B, QL12004-006				
Injection Vol.	2.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



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Shealy Environmental Services

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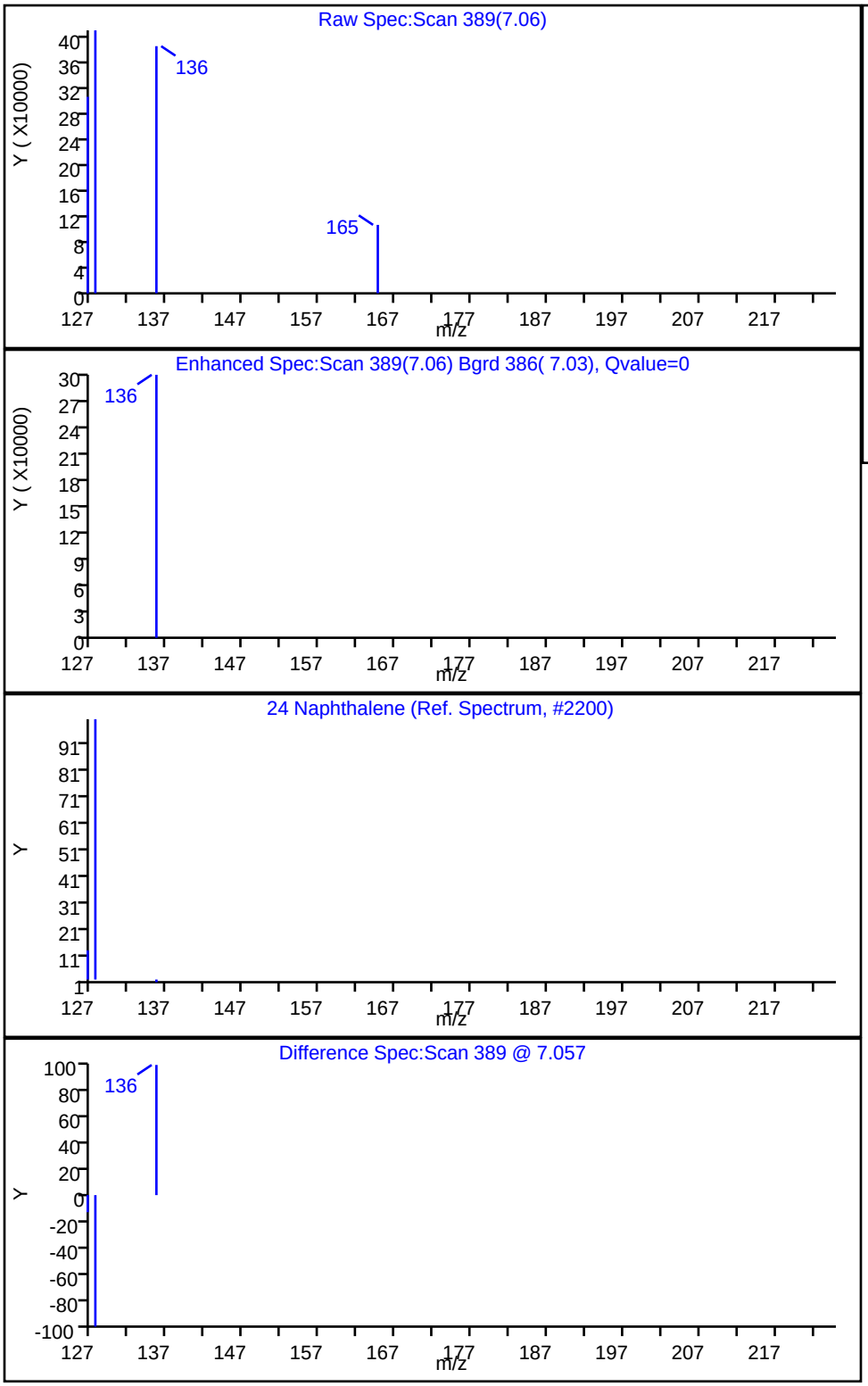
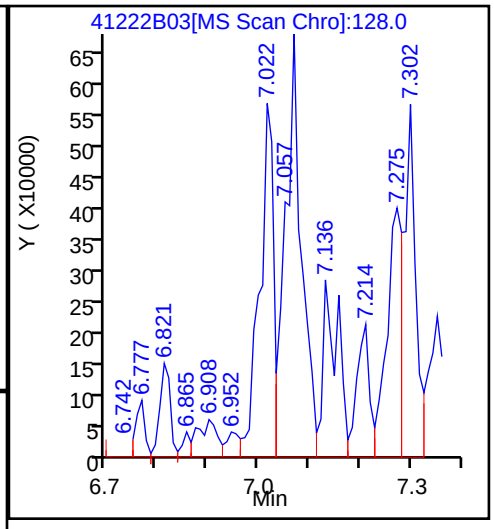
Injection Date:	22-Dec-2015 10:39:30	Inst. ID:	msd4.i
Client ID:	F6R25RE	Lab ID:	QL12004-006
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene





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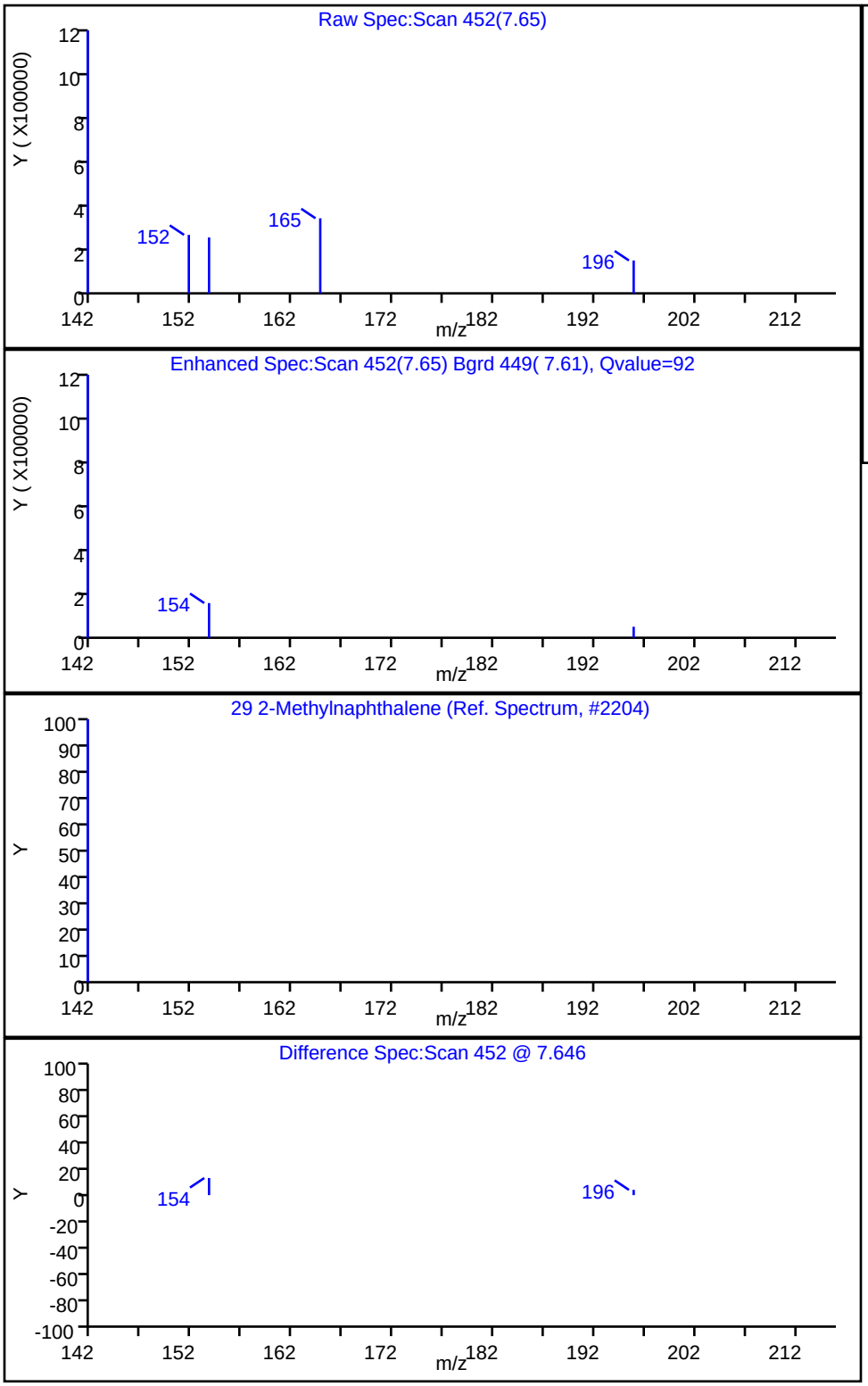
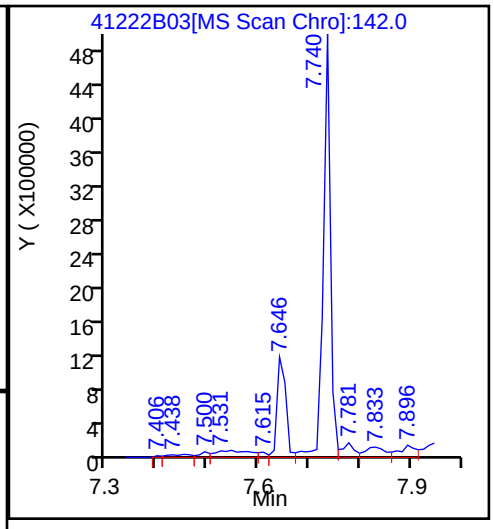
Client ID:	F6R25RE	Lab ID:	QL12004-006
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene





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Shealy Environmental Services

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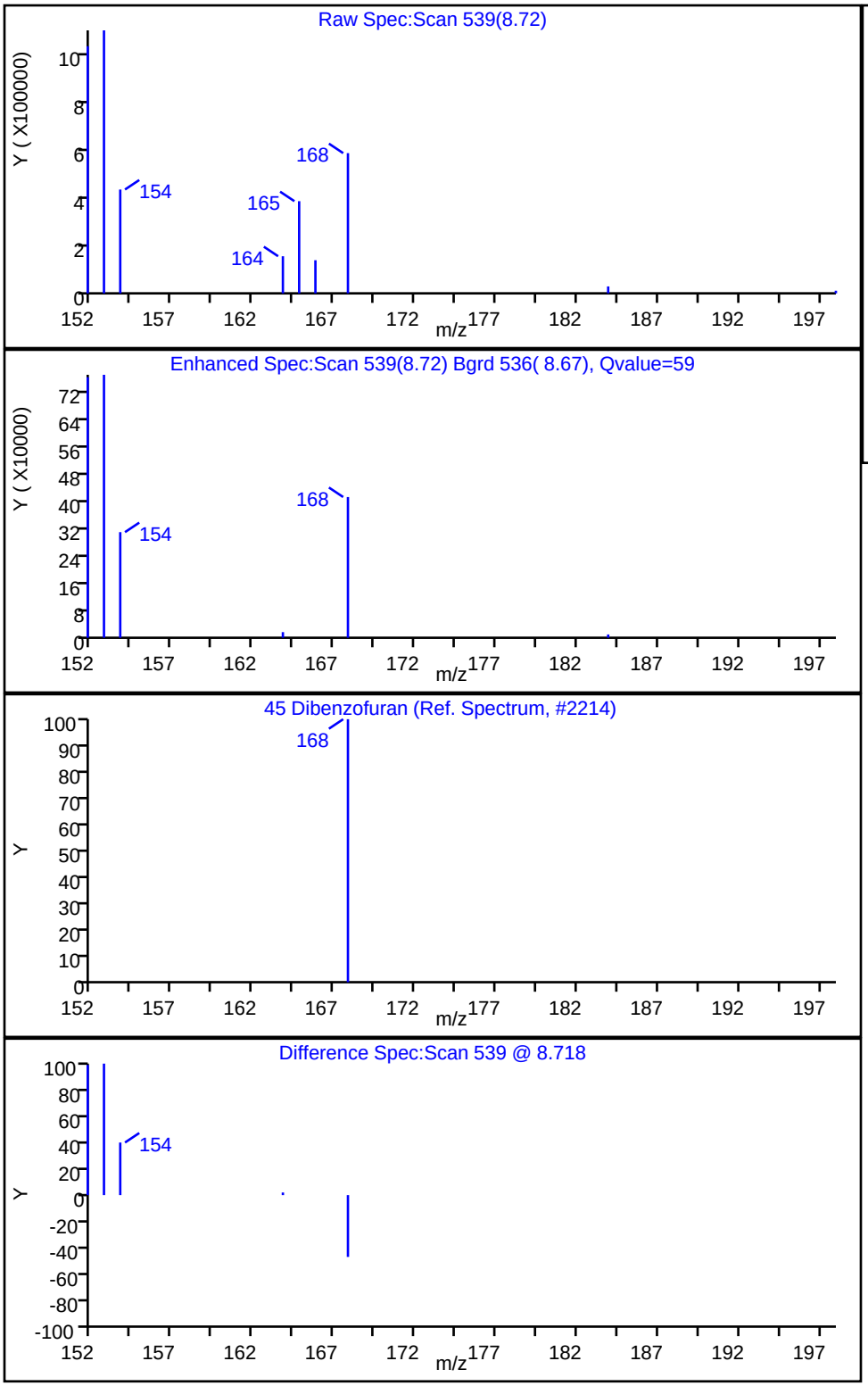
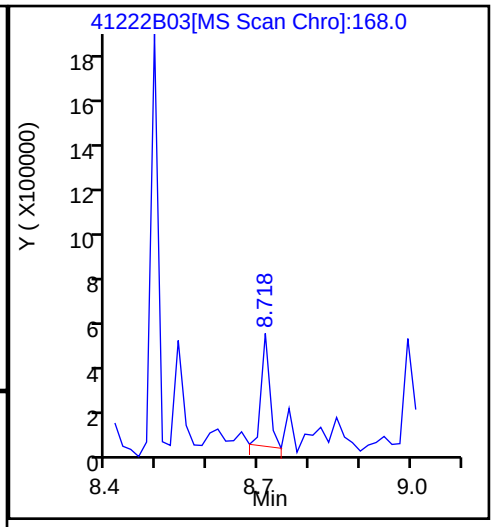
Client ID:	F6R25RE	Lab ID:	QL12004-006
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

45 Dibenzofuran





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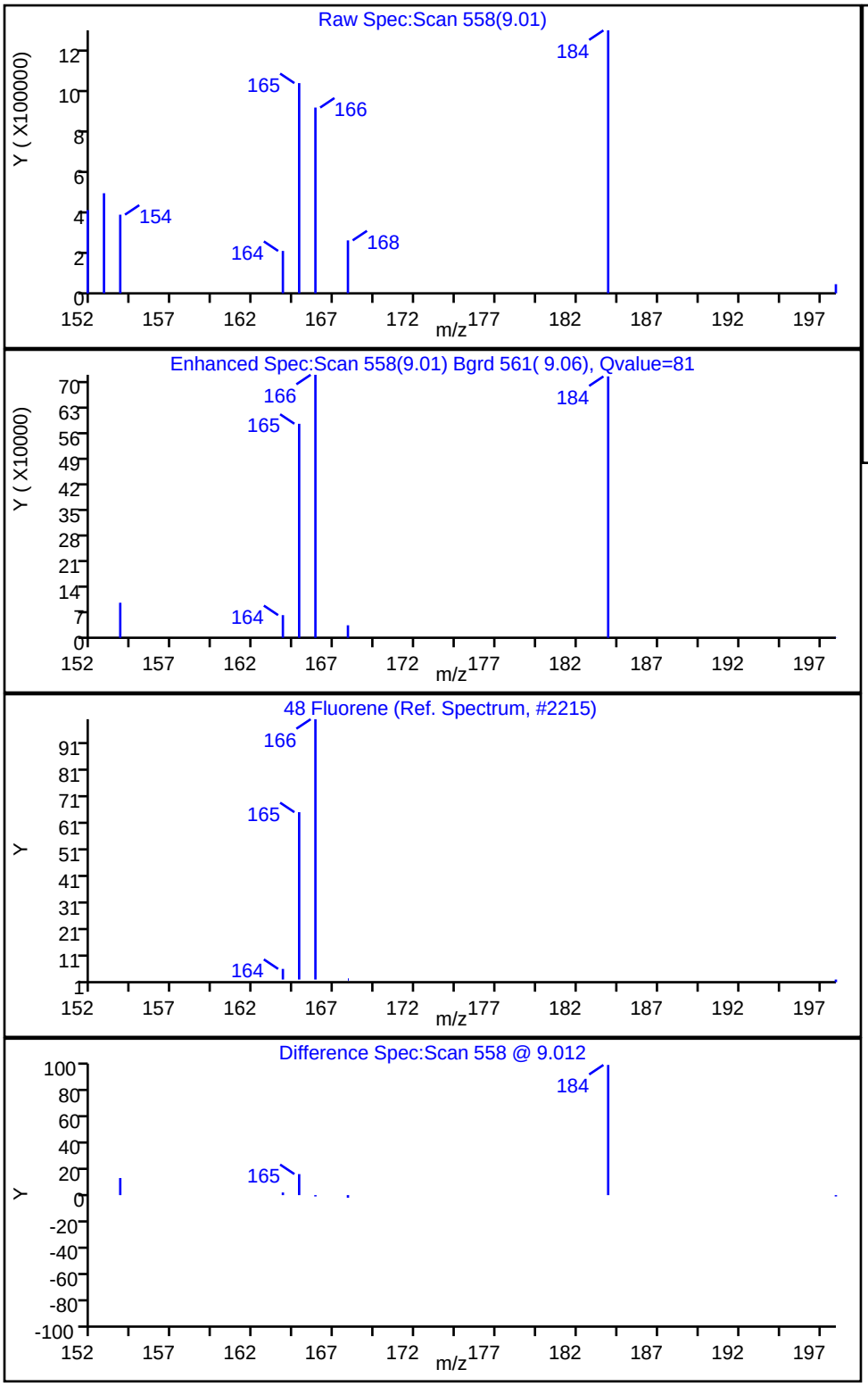
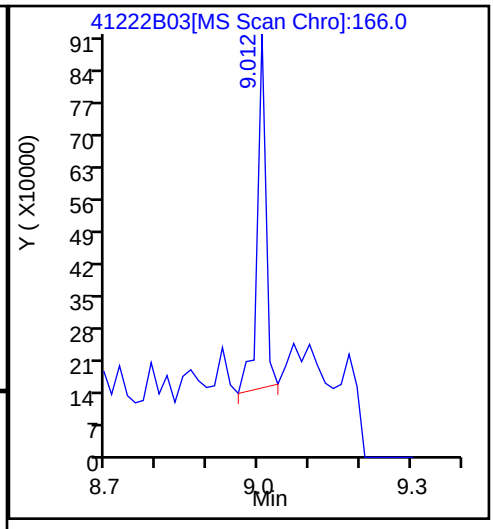
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene





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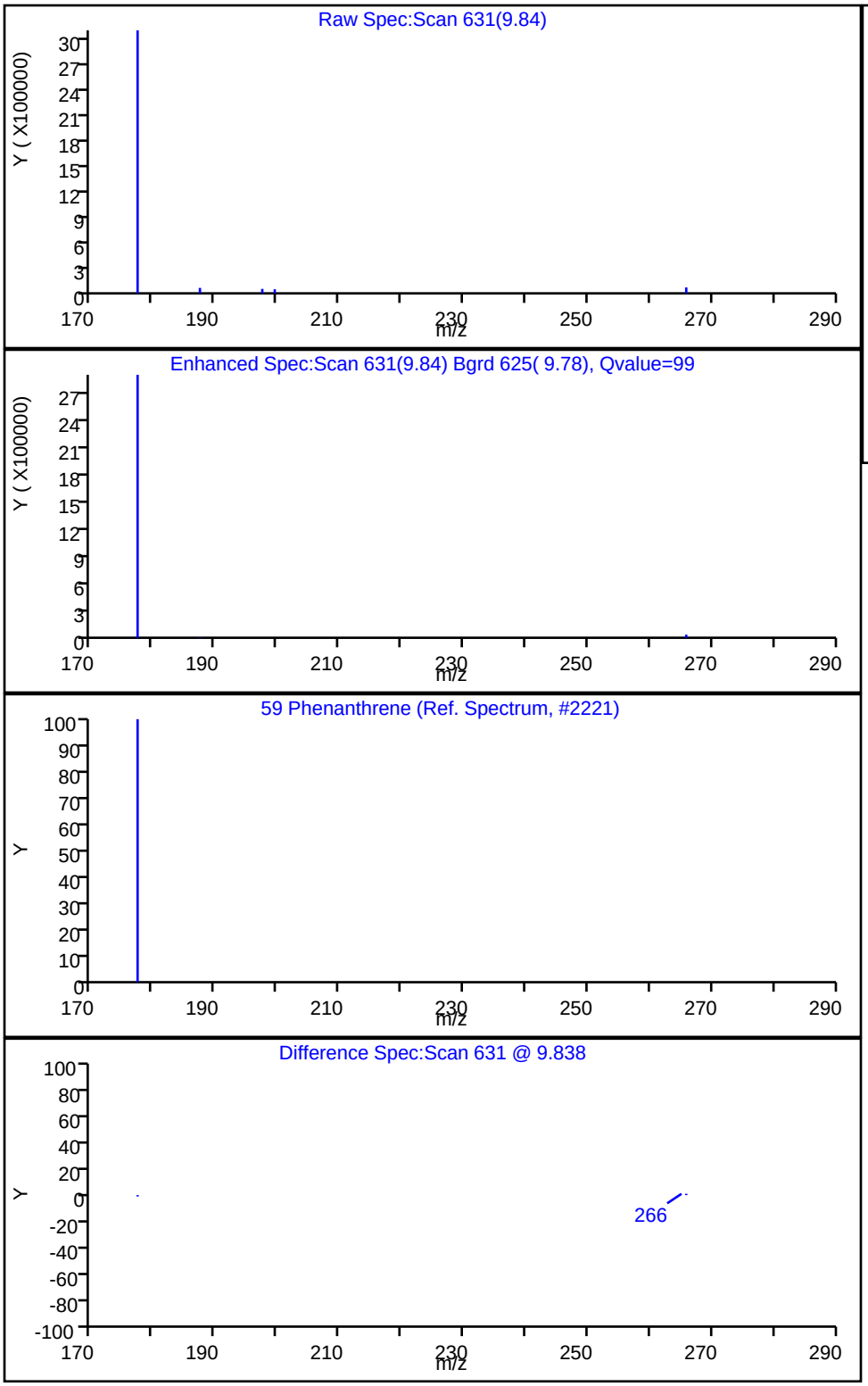
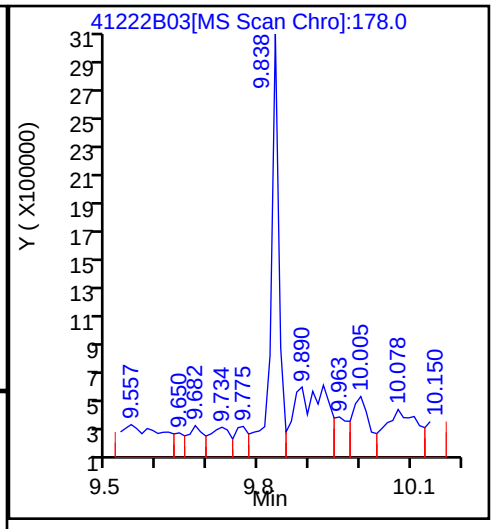
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene





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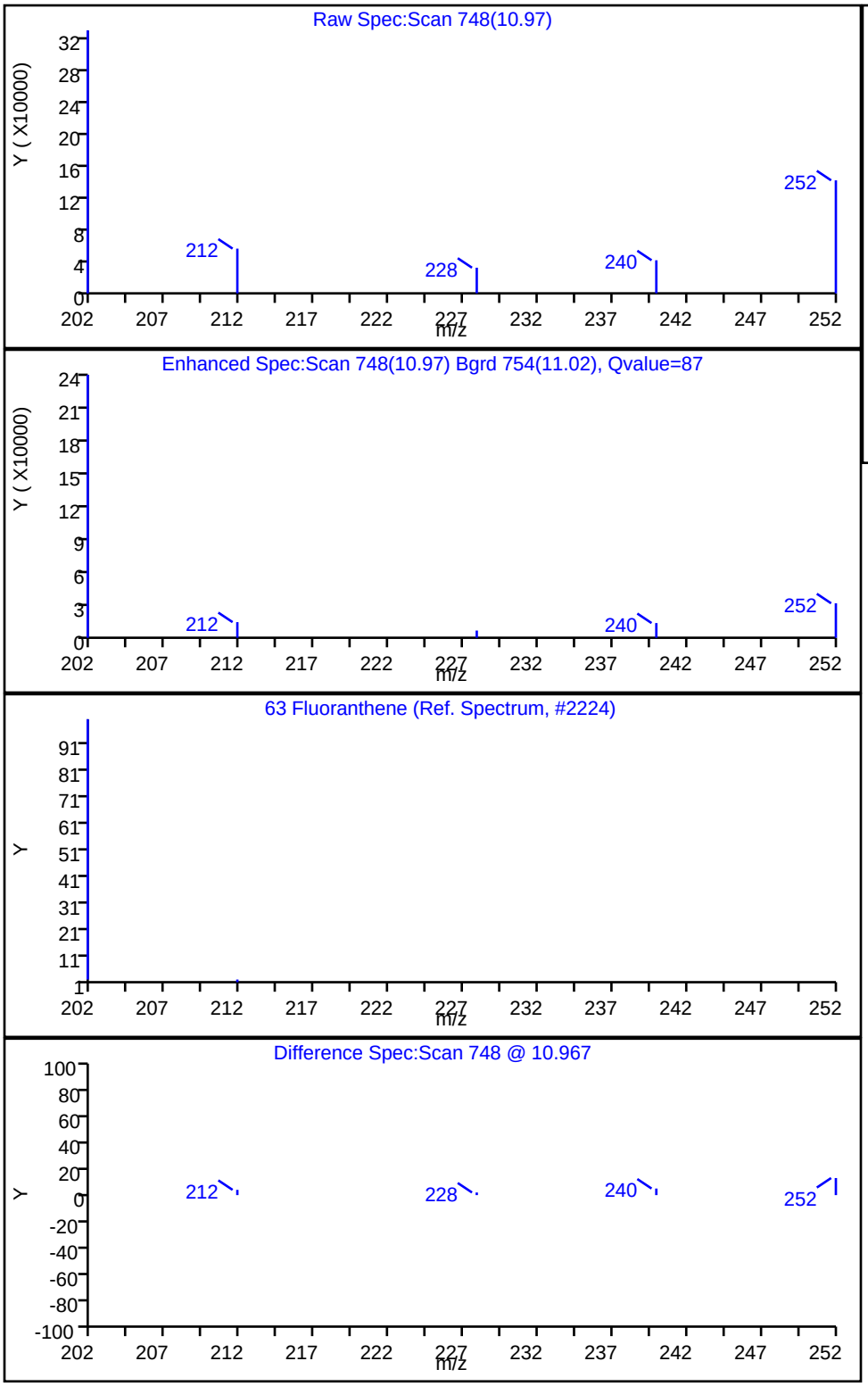
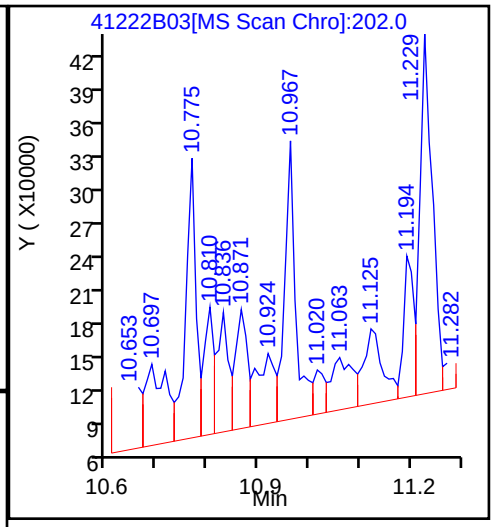
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

63 Fluoranthene





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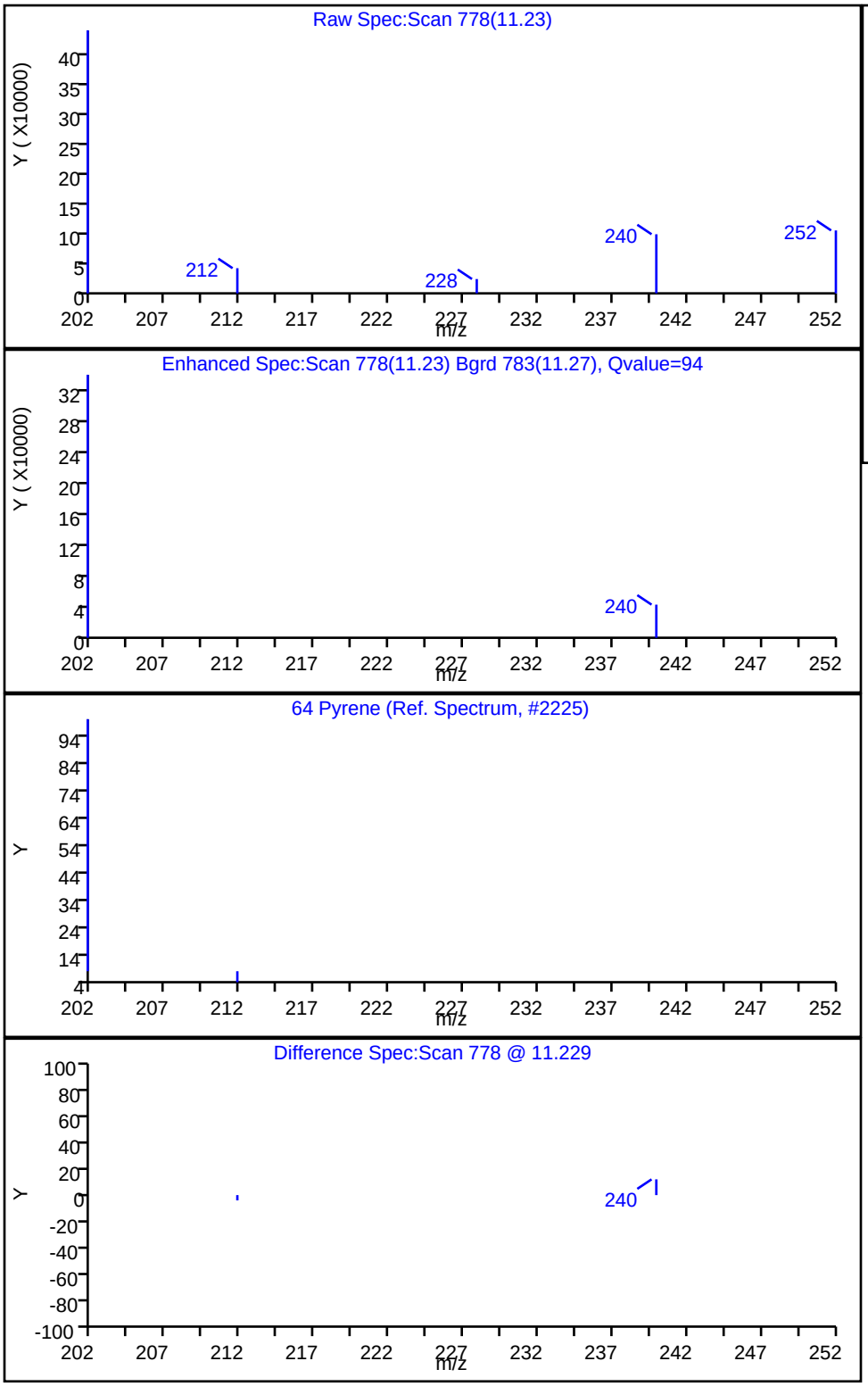
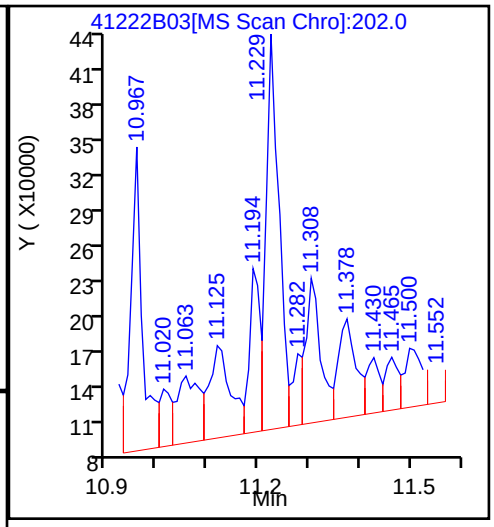
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

64 Pyrene





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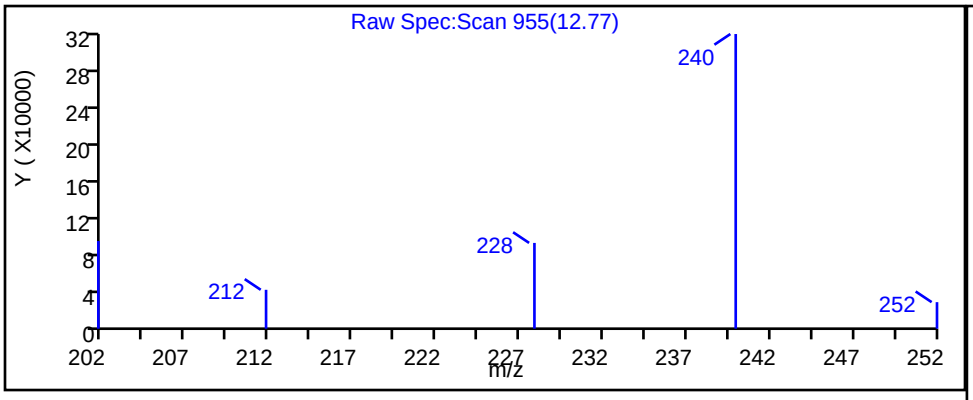
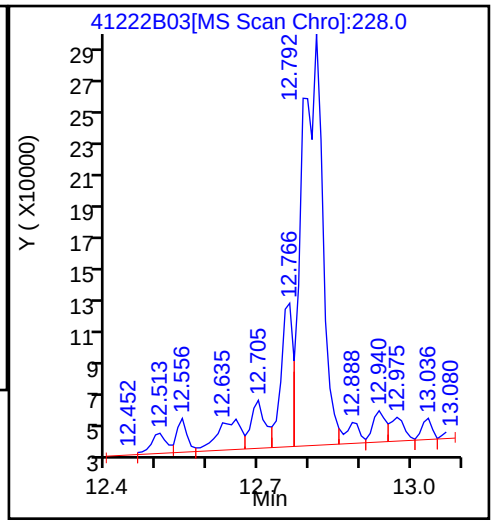
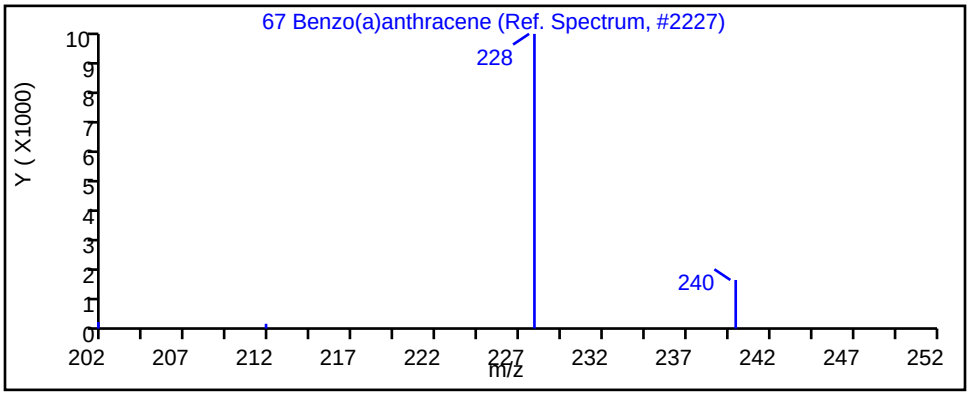
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

67 Benzo(a)anthracene







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Shealy Environmental Services

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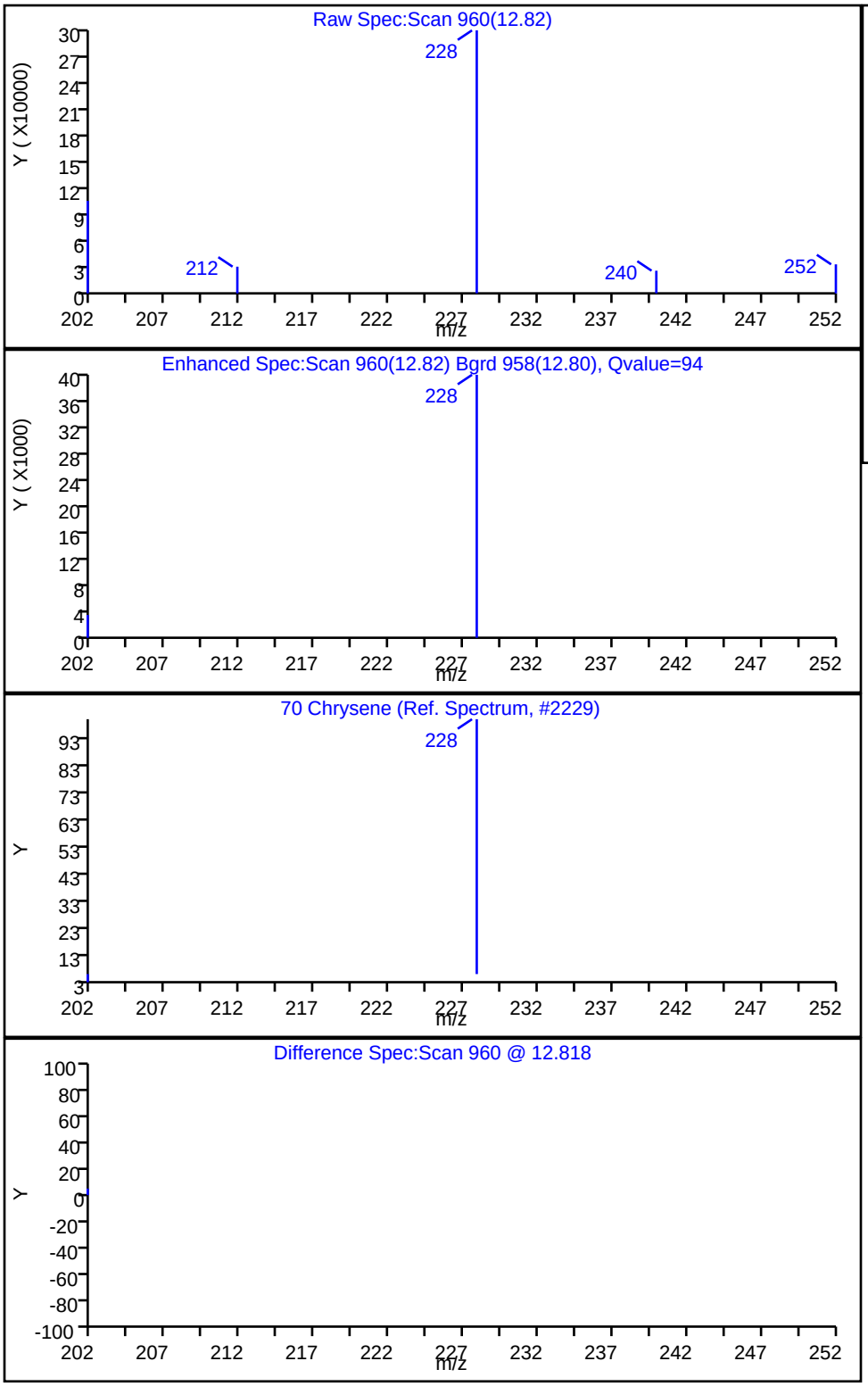
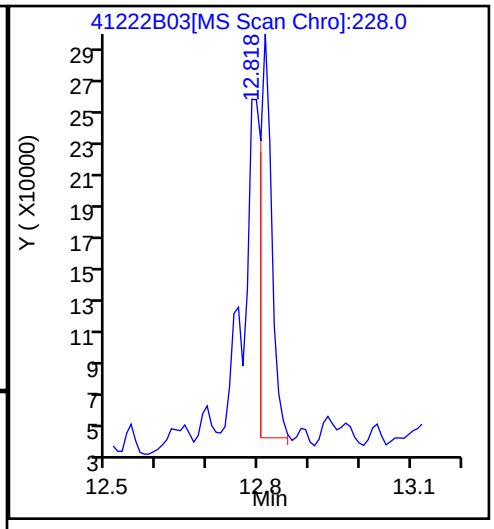
Injection Date:	22-Dec-2015 10:39:30	Inst. ID:	msd4.i
Client ID:	F6R25RE	Lab ID:	QL12004-006
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene





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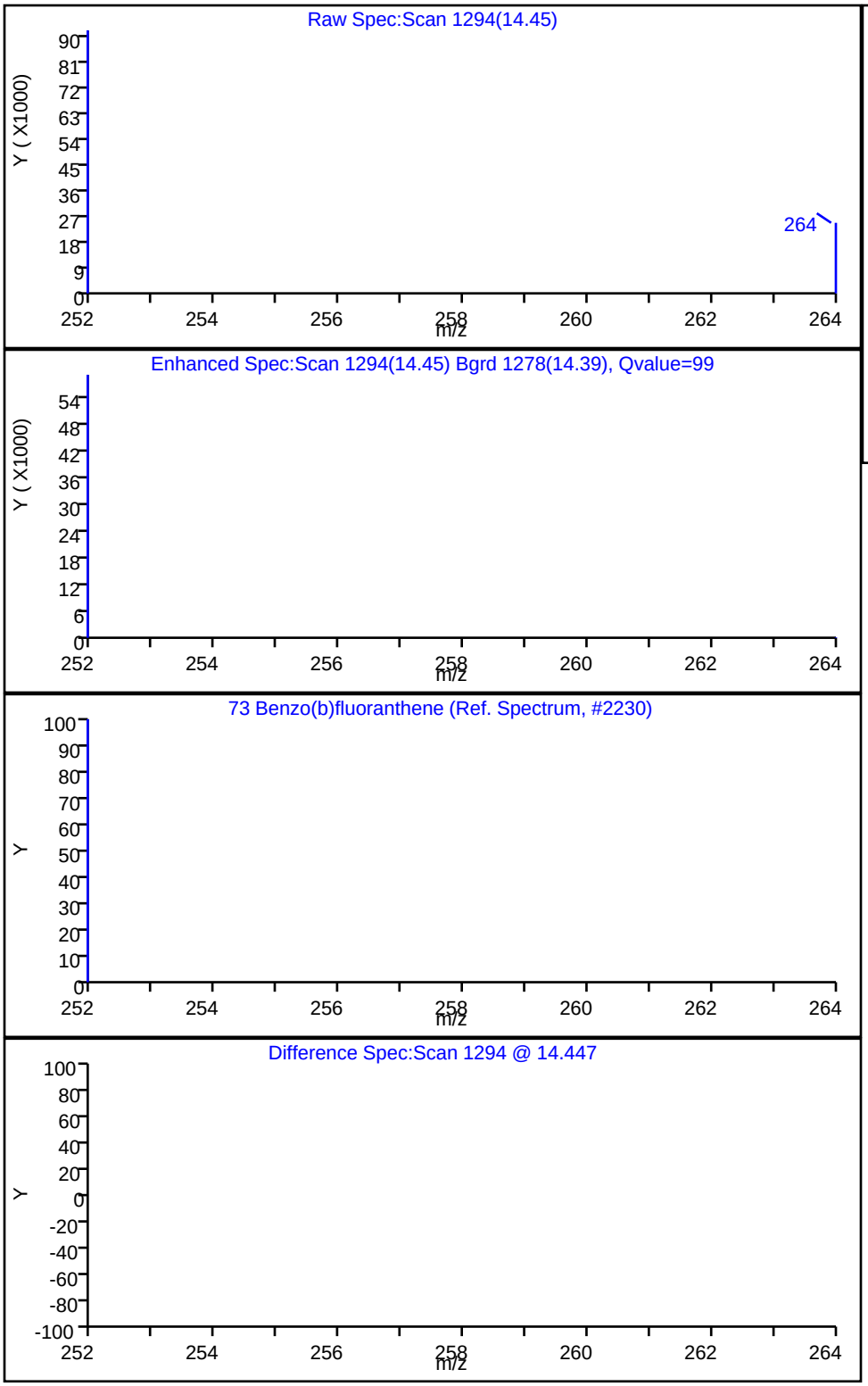
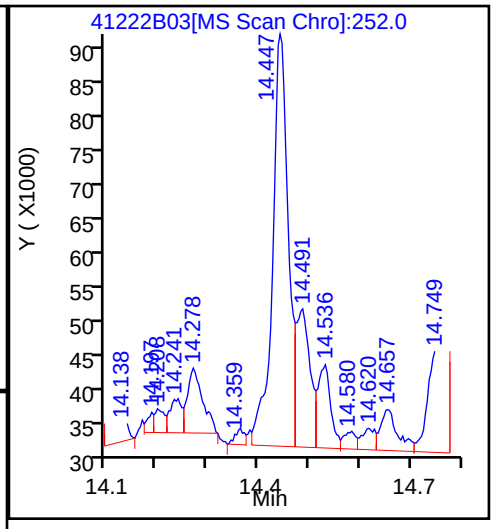
Client ID:	F6R25RE	Lab ID:	QL12004-006
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

73 Benzo(b)fluoranthene





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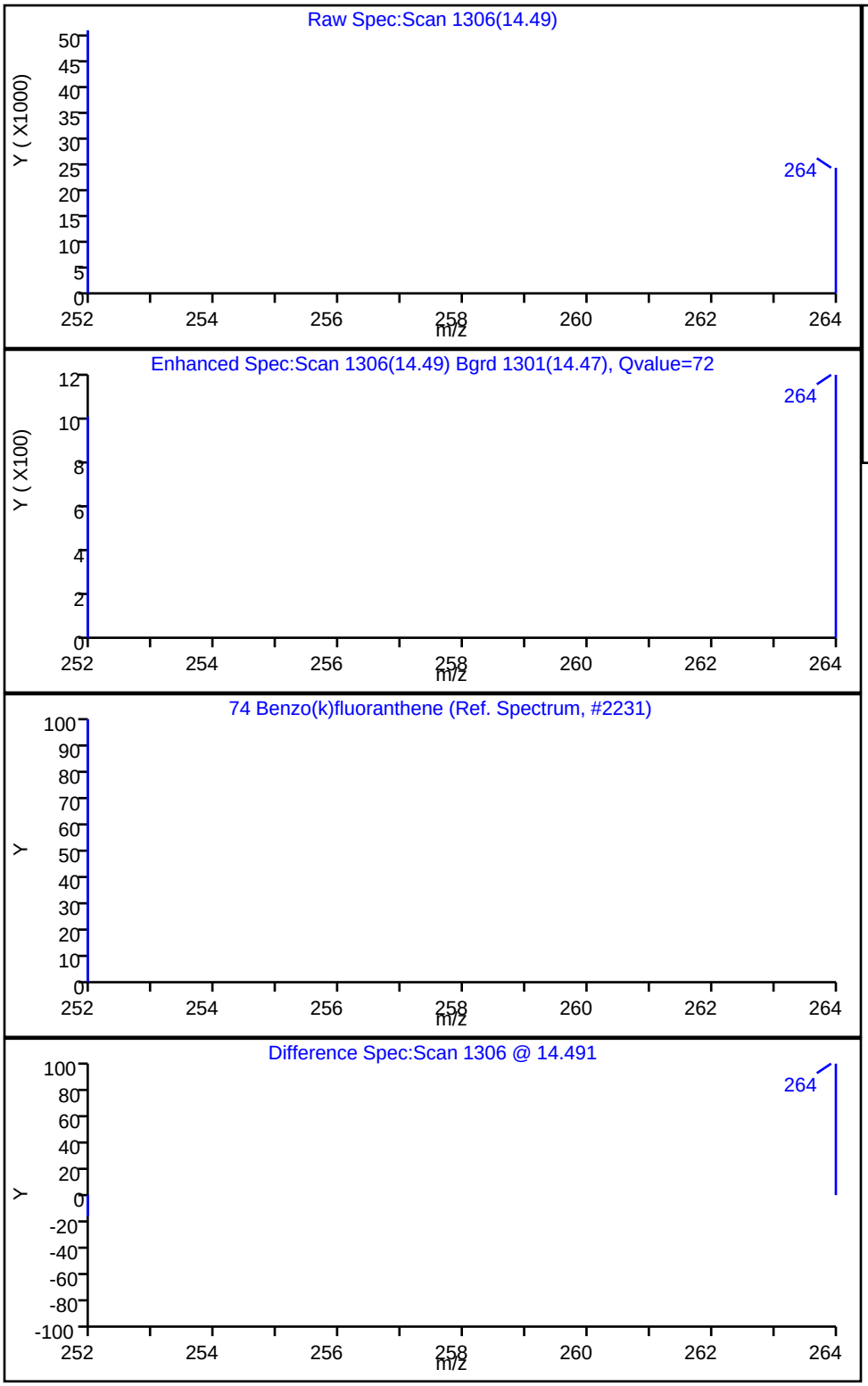
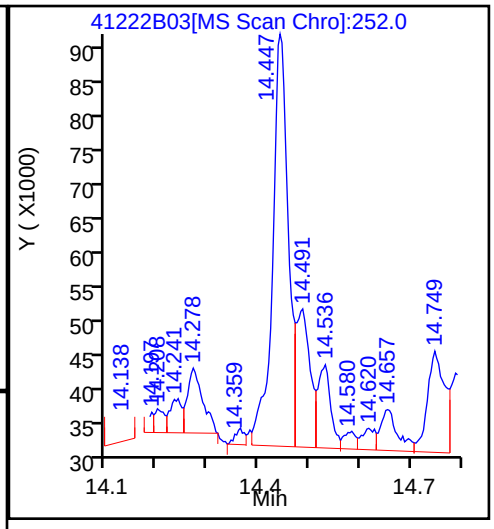
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

74 Benzo(k)fluoranthene





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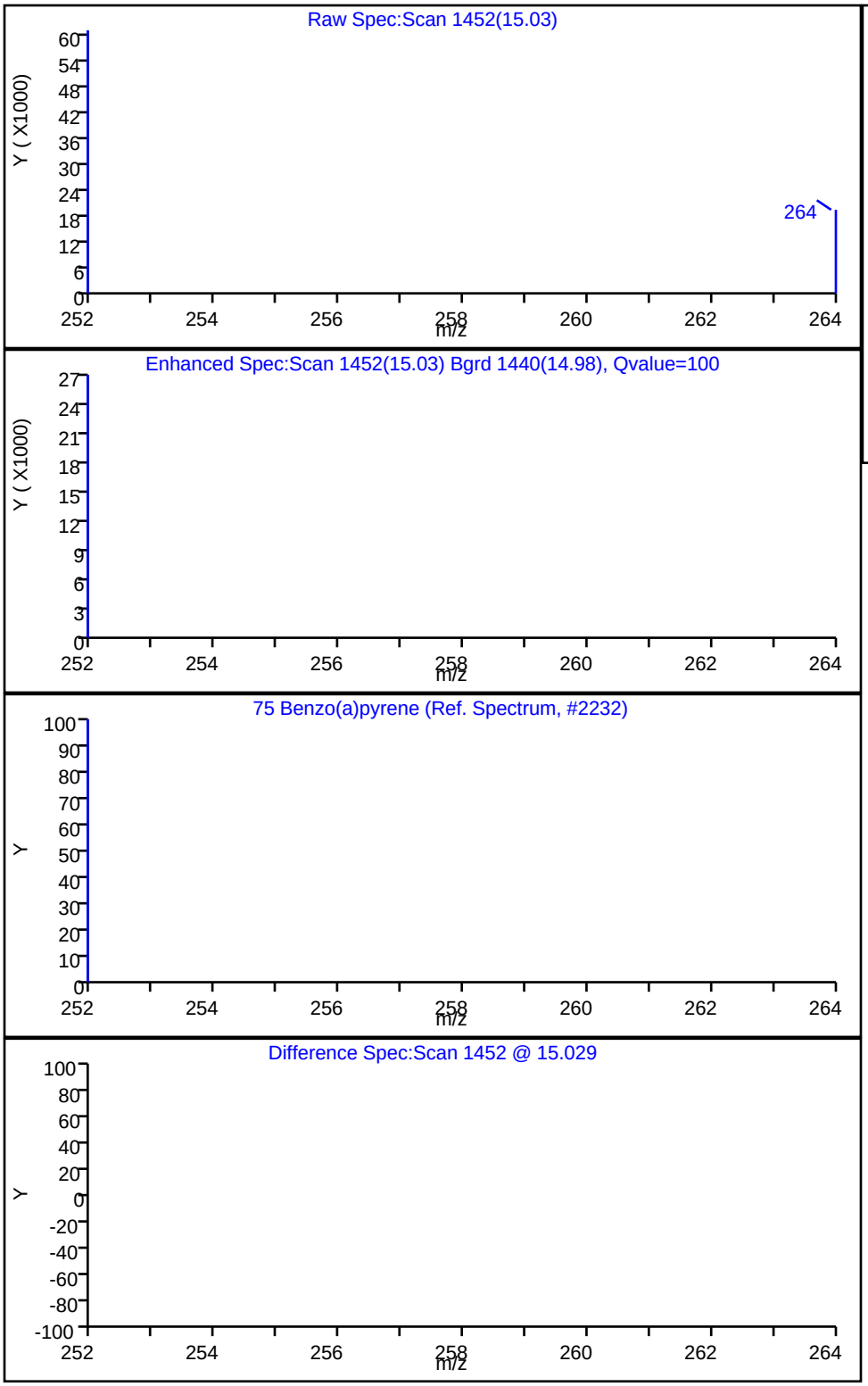
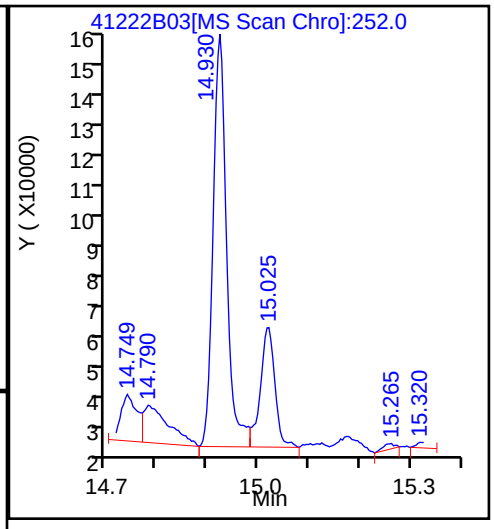
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

75 Benzo(a)pyrene





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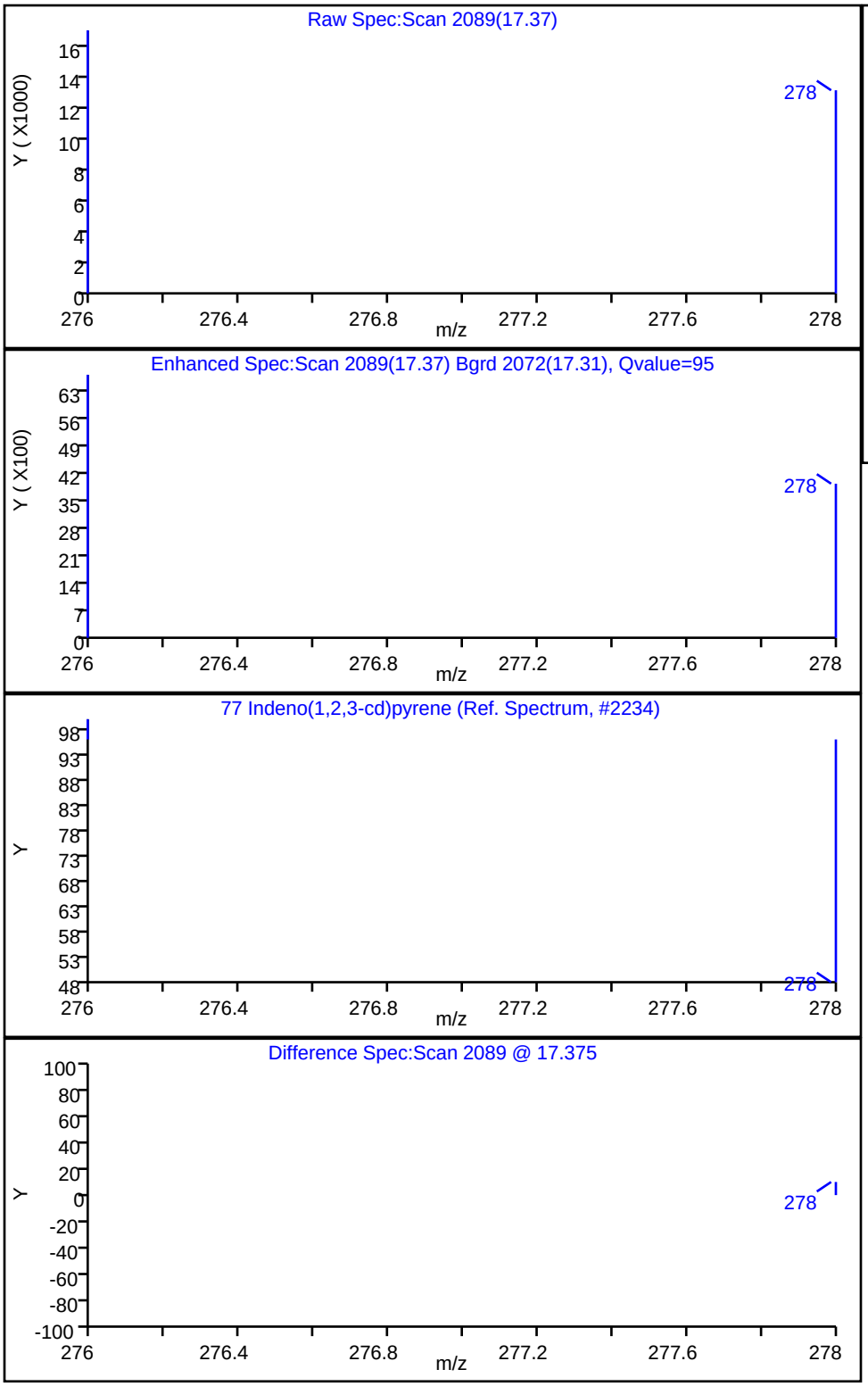
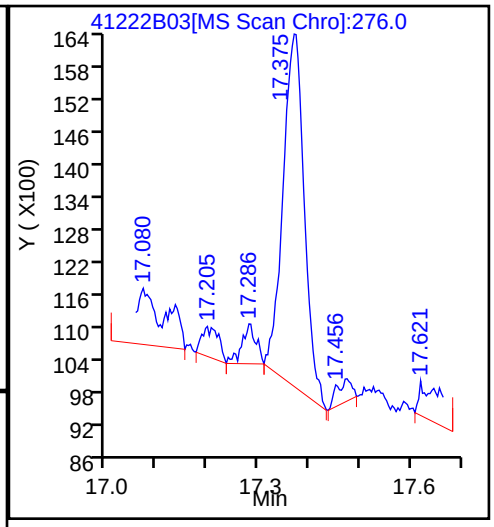
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

77 Indeno(1,2,3-cd)pyrene





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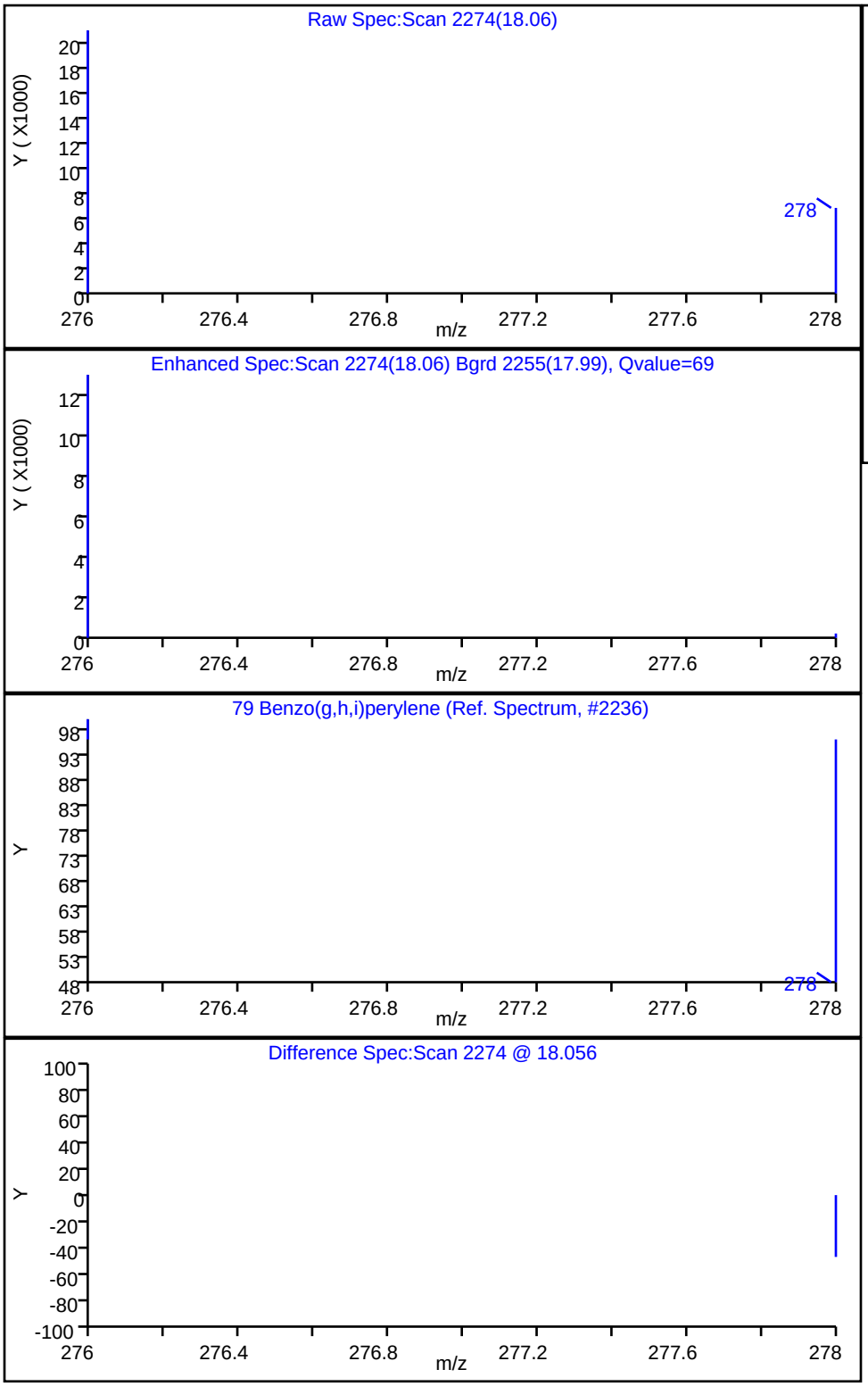
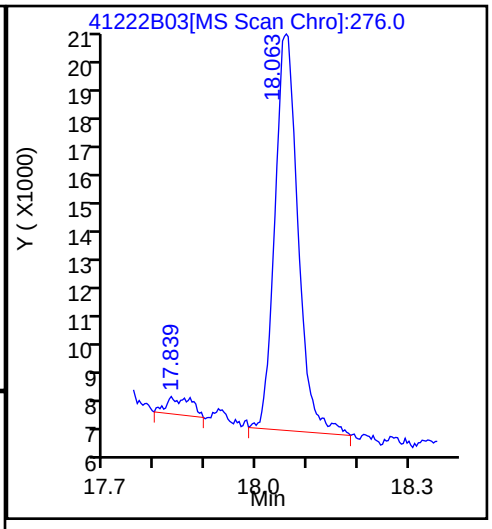
Client ID:	F6R25RE	Lab ID:	QL12004-006
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

79 Benzo(g,h,i)perylene





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Shealy Environmental Services

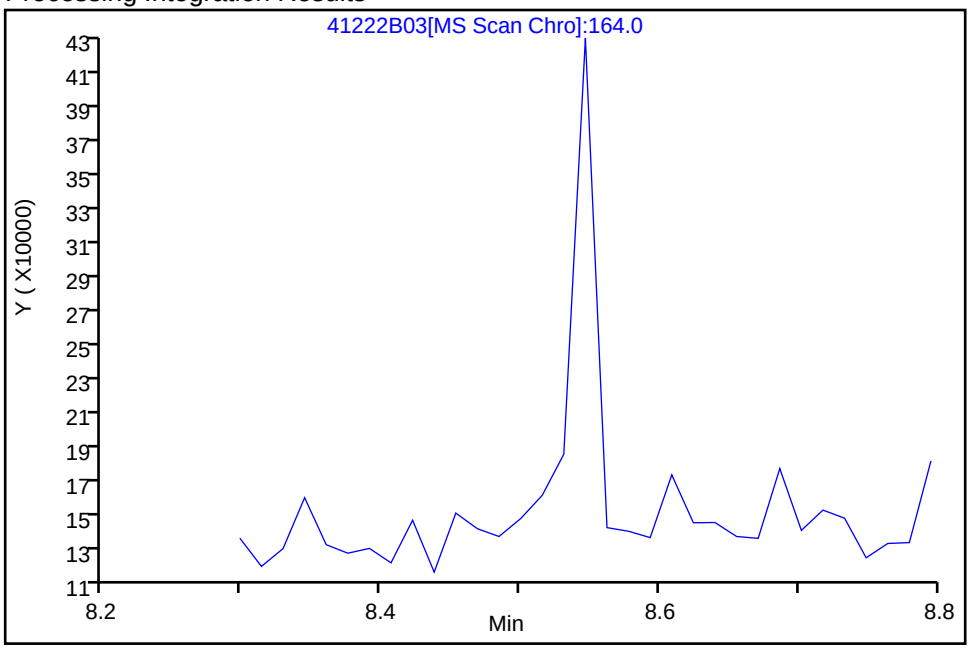
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B03.D		
Injection Date:	22-Dec-2015 10:39:30	Inst. ID:	msd4.i
Client ID:	F6R25RE	Lab ID:	QL12004-006
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 41 Acenaphthene-d10, CAS: 15067-26-2

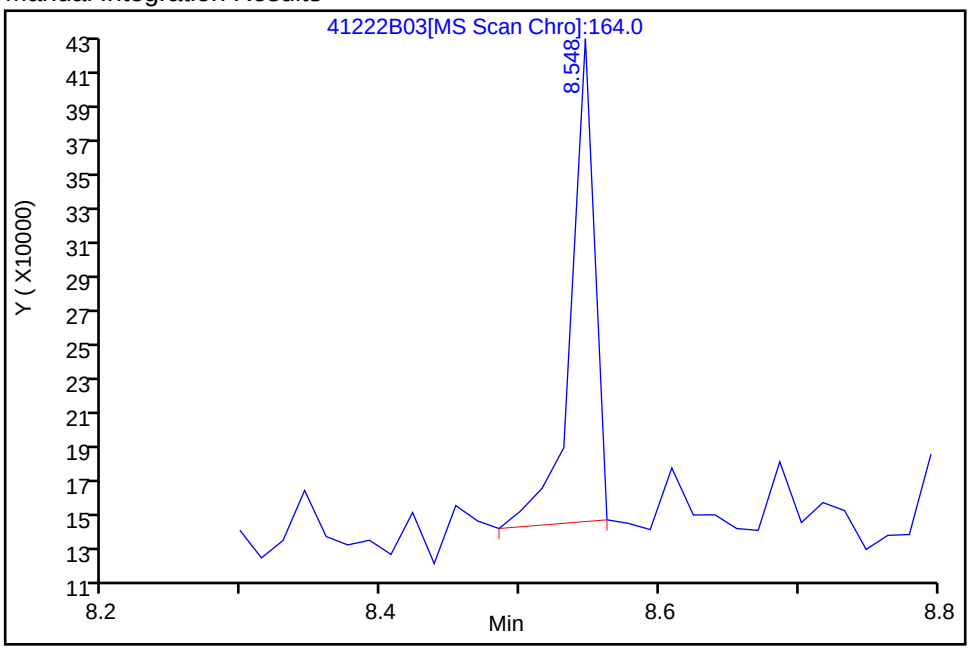
Processing Integration Results

Not Detected
8.533



Manual Integration Results

RT:	8.548
Area:	332889
Conc:	313.86
Conc Units:	ug/Kg



Data Editor: rbh, 22-Dec-2015 11:02:30
Audit Action: Mint
Audit Reason: MA

Report Date: 04-Jan-2016 15:16:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

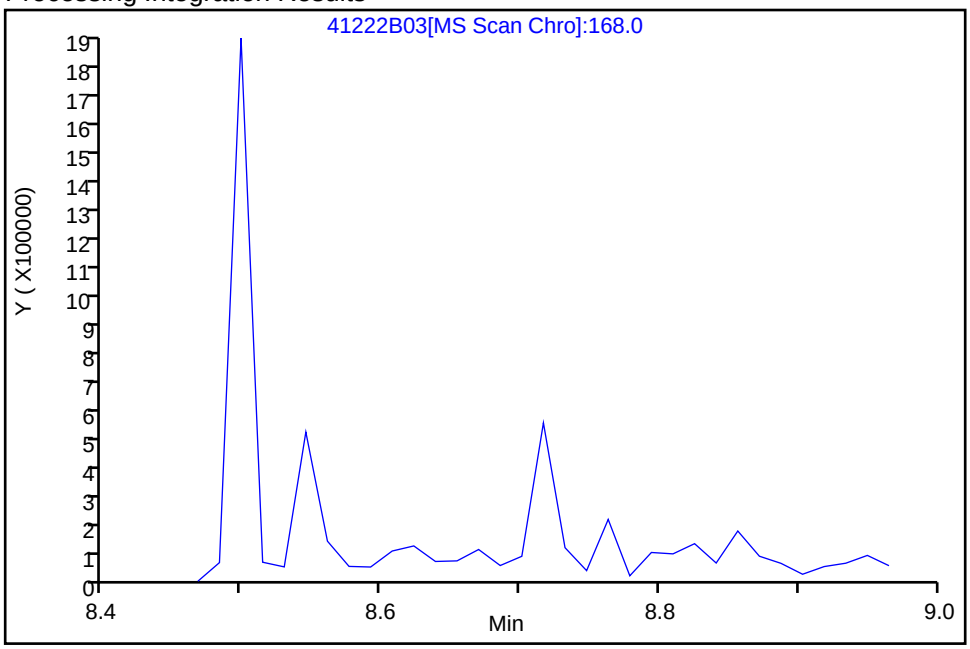
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B03.D		
Injection Date:	22-Dec-2015 10:39:30	Inst. ID:	msd4.i
Client ID:	F6R25RE	Lab ID:	QL12004-006
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

45 Dibenzofuran, CAS: 132-64-9

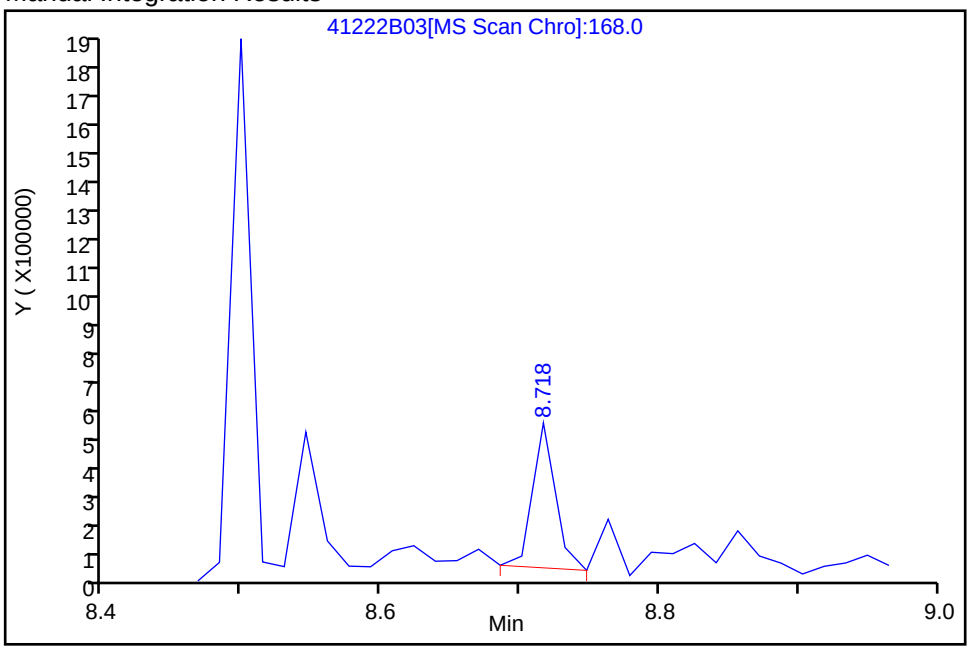
Not Detected
8.718

Processing Integration Results



Manual Integration Results

RT:	8.718
Area:	530447
Conc:	249.41
Conc Units:	ug/Kg



Data Editor: rbh, 22-Dec-2015 14:57:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:16:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

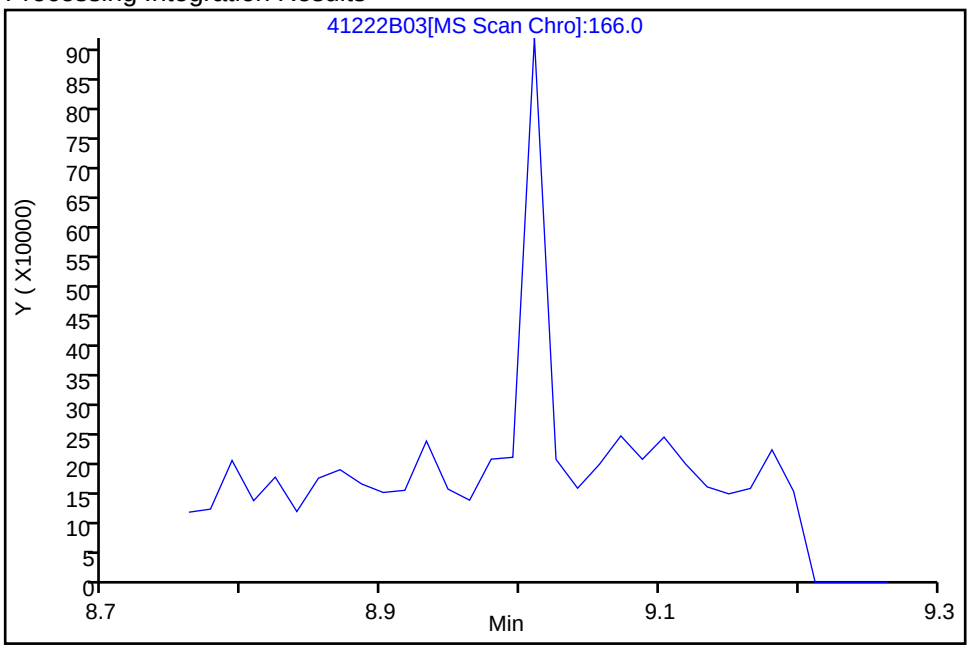
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B03.D		
Injection Date:	22-Dec-2015 10:39:30	Inst. ID:	msd4.i
Client ID:	F6R25RE	Lab ID:	QL12004-006
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene, CAS: 86-73-7

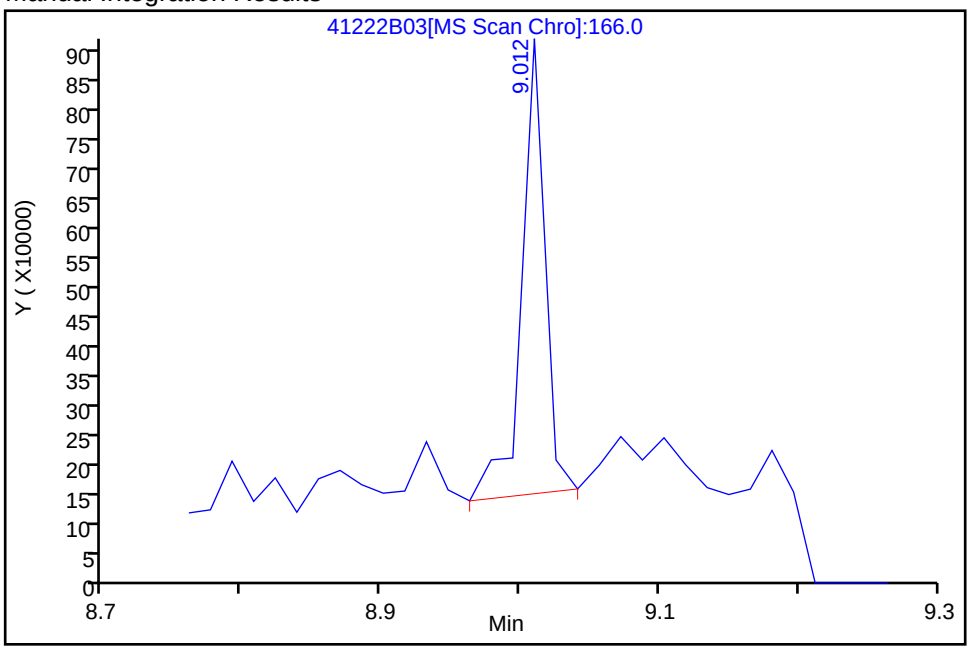
Not Detected
9.012

Processing Integration Results



Manual Integration Results

RT:	9.012
Area:	880249
Conc:	586.68
Conc Units:	ug/Kg



Data Editor: rbh, 22-Dec-2015 14:57:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:16:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

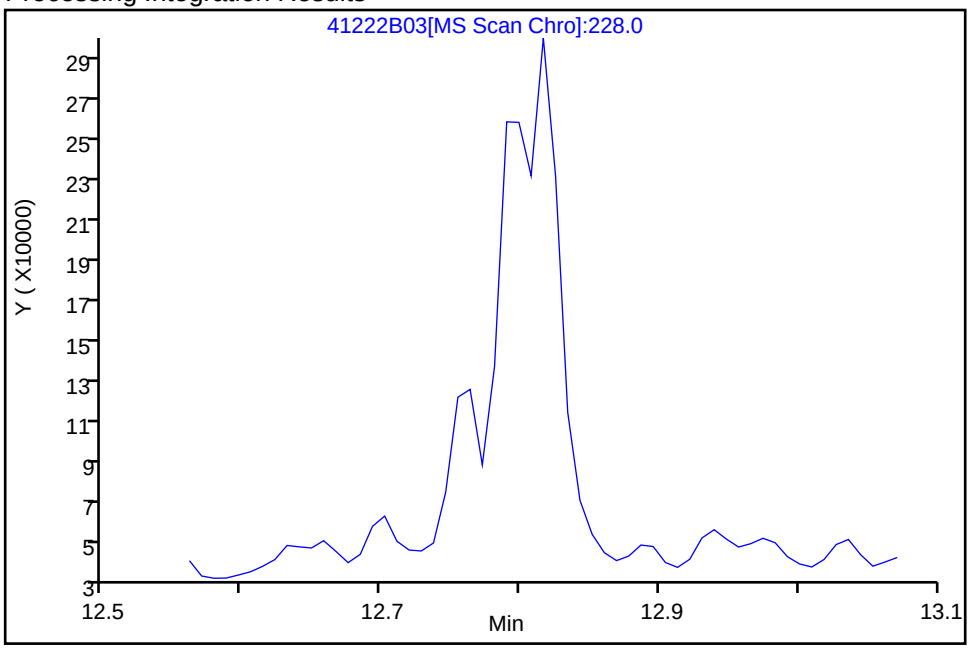
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B03.D		
Injection Date:	22-Dec-2015 10:39:30	Inst. ID:	msd4.i
Client ID:	F6R25RE	Lab ID:	QL12004-006
Sample Info:	4122215B, QL12004-006		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene, CAS: 218-01-9

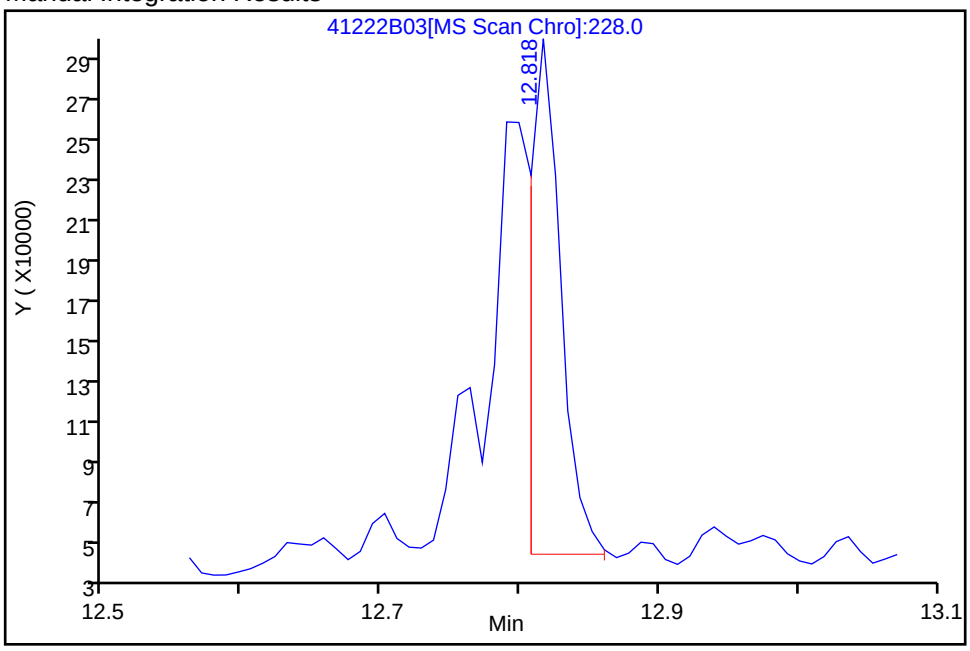
Not Detected
12.809

Processing Integration Results



Manual Integration Results

RT:	12.818
Area:	374031
Conc:	224.00
Conc Units:	ug/Kg



Data Editor: rbh, 22-Dec-2015 14:58:30
Audit Action: Mint
Audit Reason: SP

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R26

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-007
Sample wt/vol: 30.1 (g/mL) g
Lab File ID: 4122111
% Solids: 86.3
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	39	U
91-20-3	Naphthalene	630	B
91-57-6	2-Methylnaphthalene	5200	E B
208-96-8	Acenaphthylene	39	U
83-32-9	Acenaphthene	39	U
86-73-7	Fluorene	430	
87-86-5	Pentachlorophenol	76	U
85-01-8	Phenanthrene	910	
120-12-7	Anthracene	39	U
206-44-0	Fluoranthene	120	
129-00-0	Pyrene	280	
56-55-3	Benzo(a)anthracene	56	
218-01-9	Chrysene	150	
205-99-2	Benzo(b)fluoranthene	48	
207-08-9	Benzo(k)fluoranthene	11	J
50-32-8	Benzo(a)pyrene	37	J
193-39-5	Indeno(1,2,3-cd)pyrene	39	U
53-70-3	Dibenzo(a,h)anthracene	39	U
191-24-2	Benzo(g,h,i)perylene	15	J
132-64-9	Dibenzofuran	310	
118-74-1	Hexachlorobenzene	39	U
87-68-3	Hexachlorobutadiene	76	U
111-44-4	bis(2-Chloroethyl)ether	76	U
108-60-1	2,2'-Oxybis(1-chloropropane)	76	U
621-64-7	N-Nitrosodi-n-propylamine	39	U
67-72-1	Hexachloroethane	76	U
98-95-3	Nitrobenzene	76	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R26

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-007
Sample wt/vol: 30.1 (g/mL) g
Lab File ID: 4122111
% Solids: 86.3
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	76	U
88-06-2	2,4,6-Trichlorophenol	76	U
92-52-4	1,1'-Biphenyl	39	U
606-20-2	2,6-Dinitrotoluene	39	U
51-28-5	2,4-Dinitrophenol	760	U
121-14-2	2,4-Dinitrotoluene	39	U
534-52-1	4,6-Dinitro-2-methylphenol	76	U
95-94-3	1,2,4,5-Tetrachlorobenzene	76	U
1912-24-9	Atrazine	76	U
91-94-1	3,3'-Dichlorobenzidine	76	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Lab Sample ID:	QL12004-007	Client Sample ID:	F6R26
Injection Date:	21-Dec-2015 12:56:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, QL12004-007		
Misc. Info:	92513 20X		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544.m		
Method Date:	04-Jan-2016 15:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	9
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.100	Weight of sample extracted (g)
M	13.700	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	21-Dec-2015 14:32:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.761	3.762	-0.001	333	0.001639	1.2621	e
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.727		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.771		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	141555	0.40000	307.97	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.186		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.290		ND			
15 Hexachloroethane	117.0		6.436		ND			
$ 16 Nitrobenzene-d5	128.0		6.457		ND			
17 Nitrobenzene	77.0		6.467		ND			
$ 96 2,4-Dichlorophenol-d3	165.0		6.926		ND			
* 23 Naphthalene-d8	136.0	7.065	7.057	0.008	812218	0.40000	307.97	I
24 Naphthalene	128.0	7.083	7.075	0.008	1727893	0.82027	631.55	M
25 4-Chloroaniline	127.0		7.075		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0		7.615		ND			
29 2-Methylnaphthalene	142.0	7.656	7.646	0.010	8422908	6.7720	5213.97	E
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.317		ND			
38 Acenaphthylene	152.0		8.425		ND			
* 41 Acenaphthene-d10	164.0	8.548	8.533	0.015	497674	0.40000	307.97	I

Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122111.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.657		ND			
45 Dibenzofuran	168.0	8.718	8.718	0.000	1011878	0.40557	312.26	
48 Fluorene	166.0	9.012	8.996	0.016	993222	0.56431	434.48	
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0		9.484		ND			
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.817	9.807	0.010	695828	0.40000	307.97	I
59 Phenanthrene	178.0	9.838	9.828	0.010	2239920	1.1820	910.05	M
60 Anthracene	178.0		9.880		ND			
$ 116 Flouranthene-d10	212.0		10.941		ND			
63 Fluoranthene	202.0	10.967	10.959	0.008	324889	0.15797	121.63	
64 Pyrene	202.0	11.229	11.221	0.008	634015	0.36148	278.32	
68 3,3'-Dichlorobenzidine	252.0		12.661		ND			
67 Benzo(a)anthracene	228.0	12.766	12.748	0.018	115822	0.07294	56.156	
* 69 Chrysene-d12	240.0	12.783	12.766	0.017	639694	0.40000	307.97	I
70 Chrysene	228.0	12.818	12.810	0.008	298392	0.18931	145.76	M
73 Benzo(b)fluoranthene	252.0	14.447	14.429	0.018	87101	0.06228	47.952	
74 Benzo(k)fluoranthene	252.0	14.487	14.473	0.014	20360	0.01464	11.274	e
75 Benzo(a)pyrene	252.0	15.021	15.000	0.021	61837	0.04830	37.185	e
* 76 Perylene-d12	264.0	15.121	15.103	0.018	464095	0.40000	307.97	
77 Indeno(1,2,3-cd)pyrene	276.0		17.345		ND			
78 Dibenzo(a,h)anthracene	278.0		17.360		ND			
79 Benzo(g,h,i)perylene	276.0	18.056	18.030	0.026	24144	0.01998	15.385	e

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

E - Compound Concentration Exceeds Max. Calibration Range

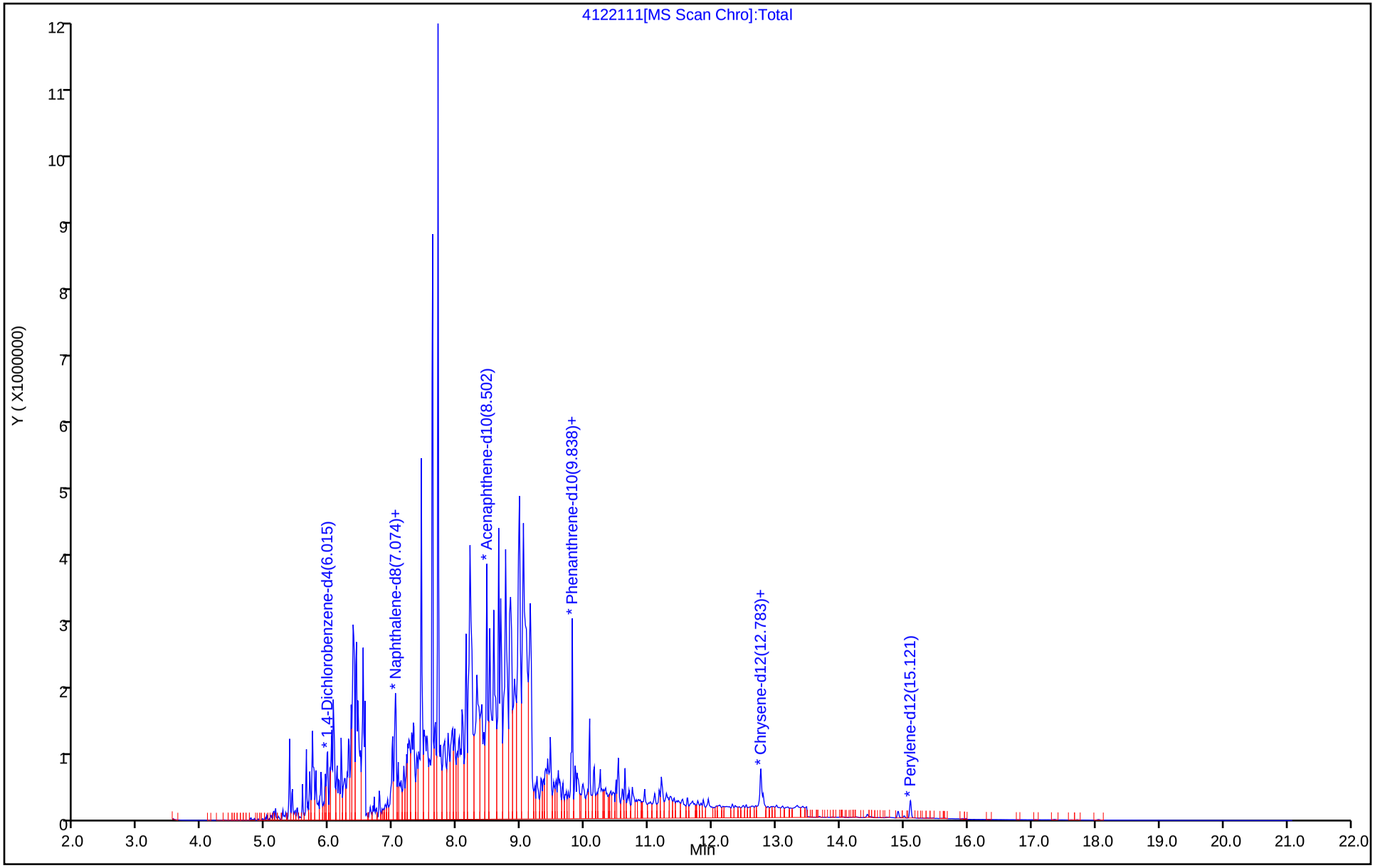
I - Istd Fails Area Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D				
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R26	Lab ID:	QL12004-007		
Sample Info:	4122115, QL12004-007				
Injection Vol.	2.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

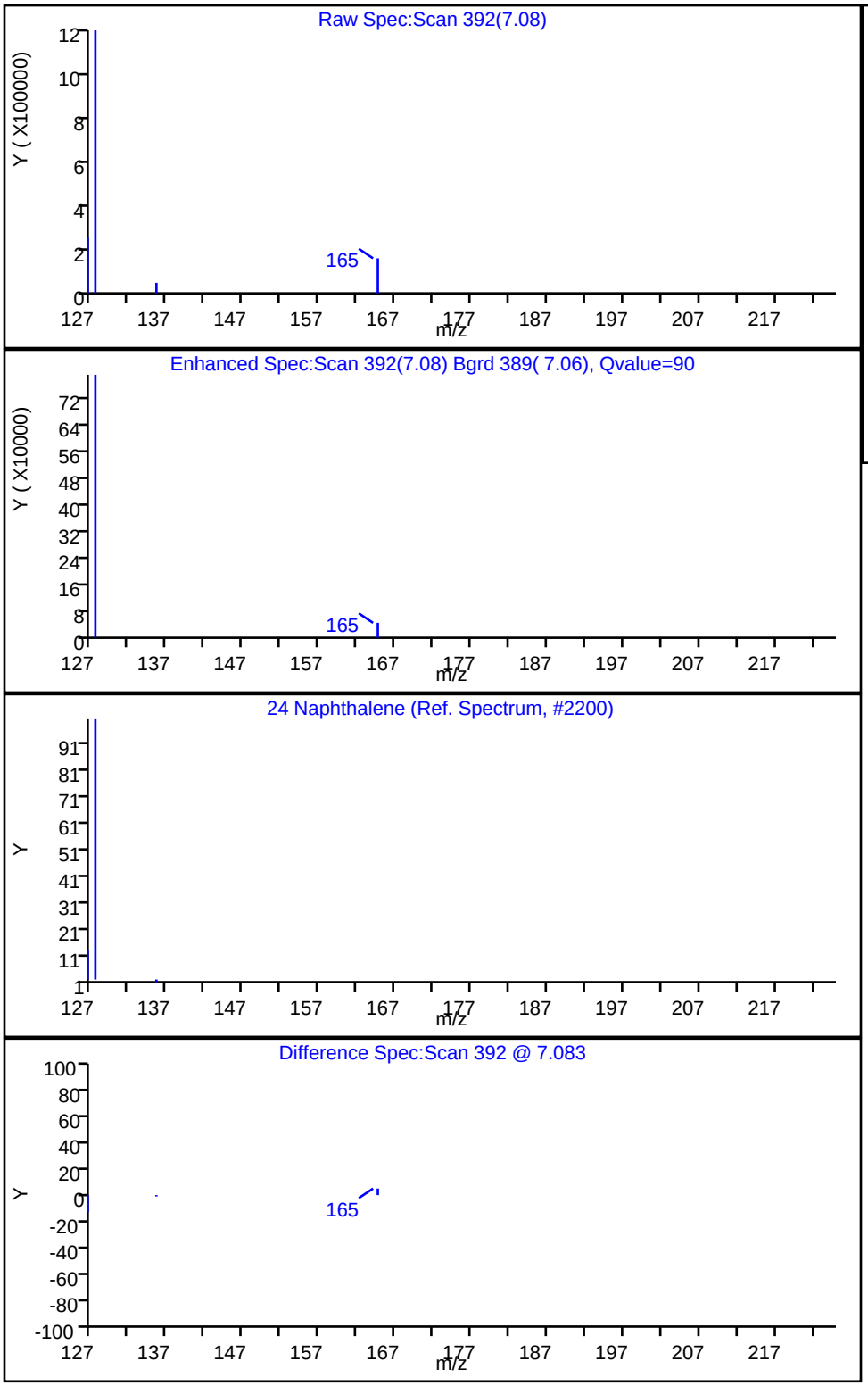


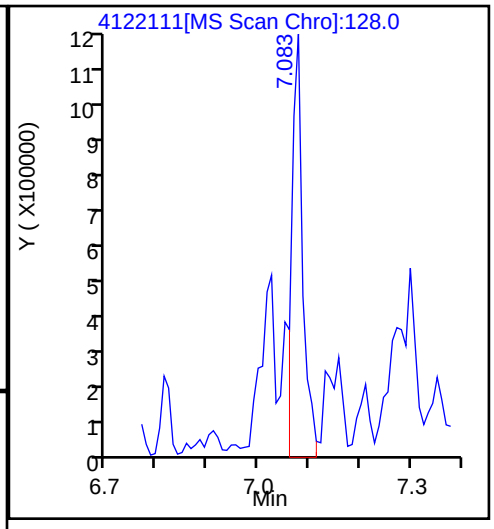
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene



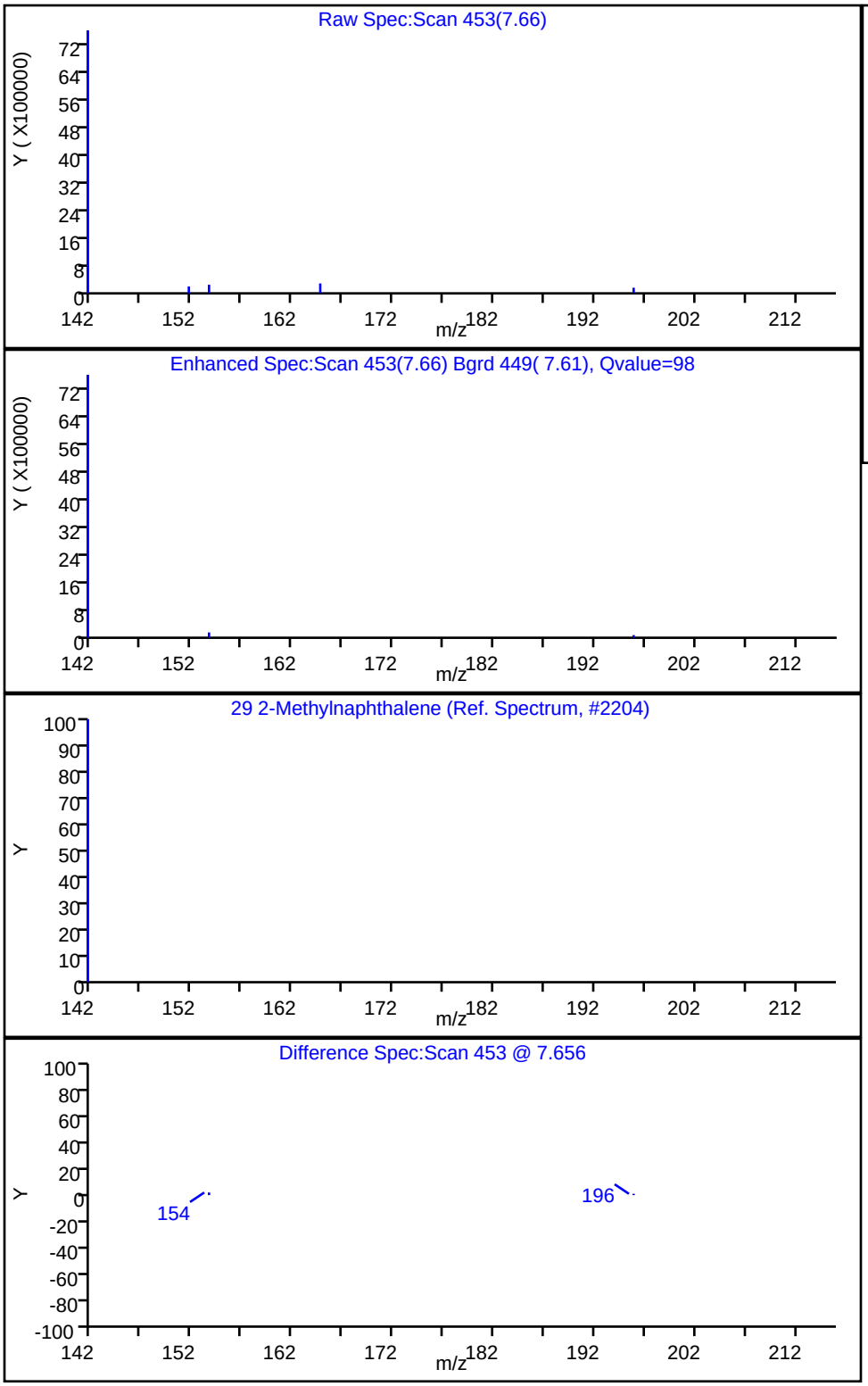


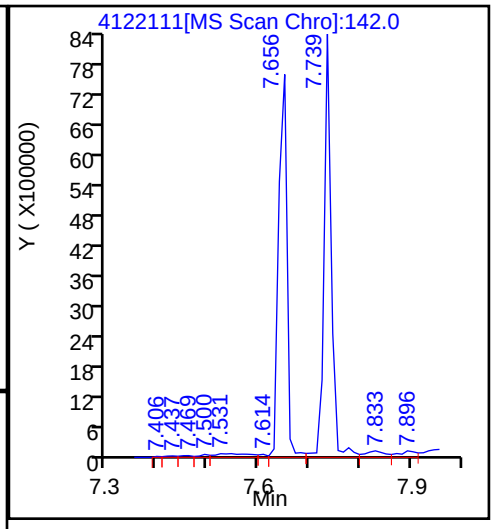
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene



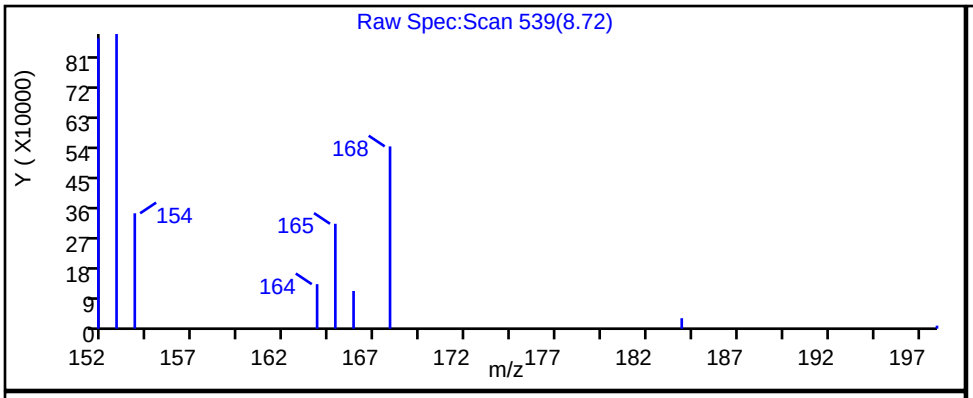


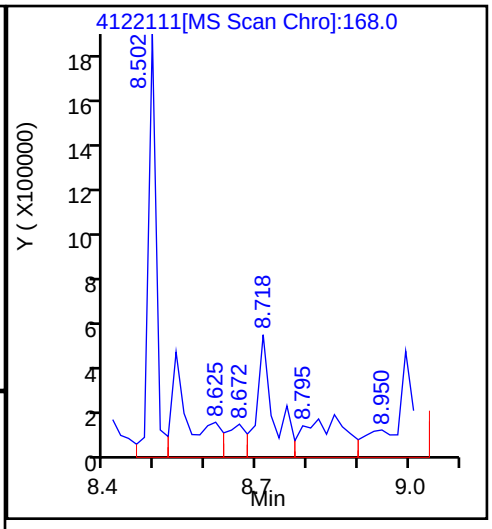
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

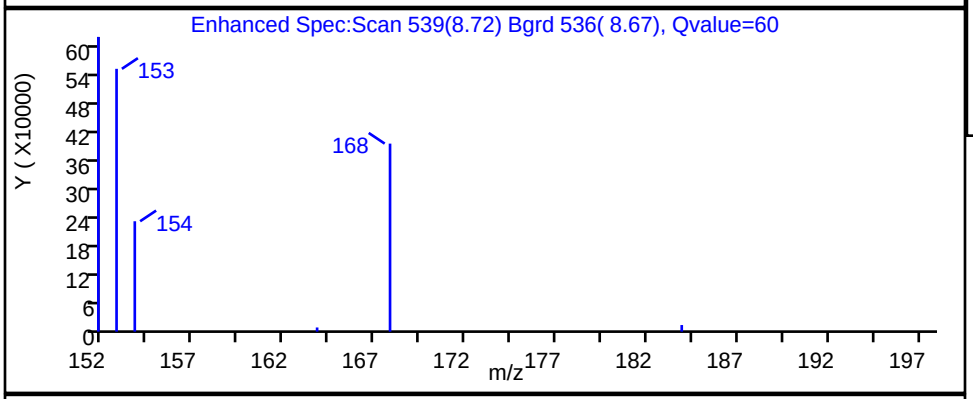
Shealy Environmental Services

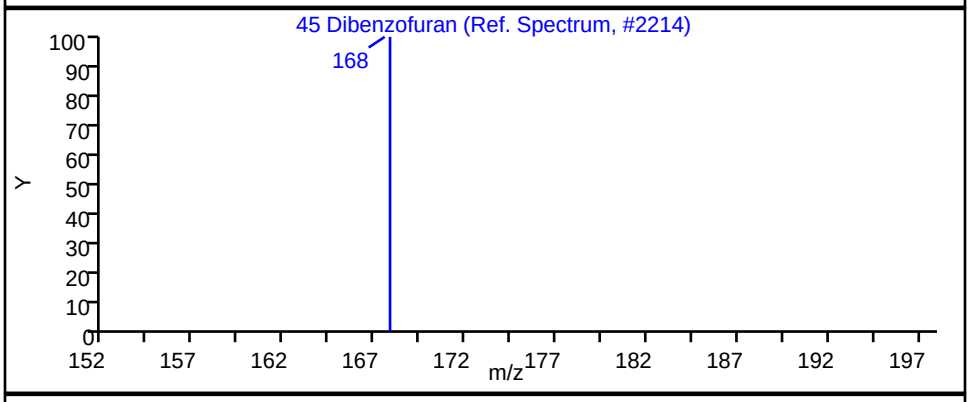
Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

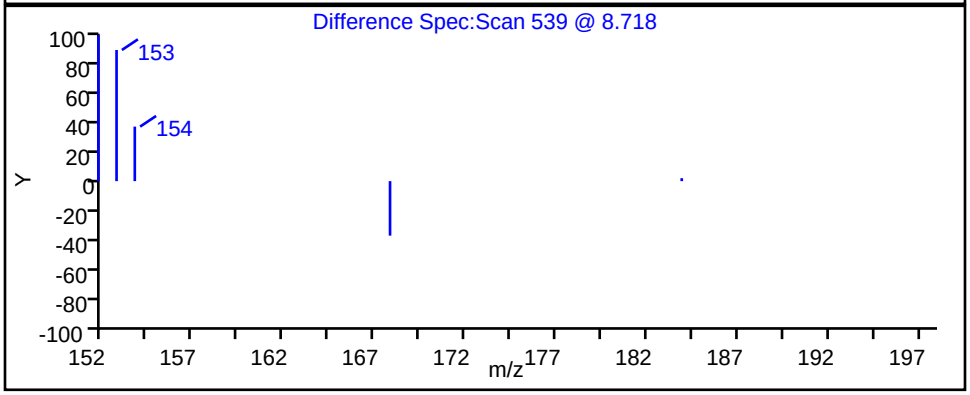
45 Dibenzofuran









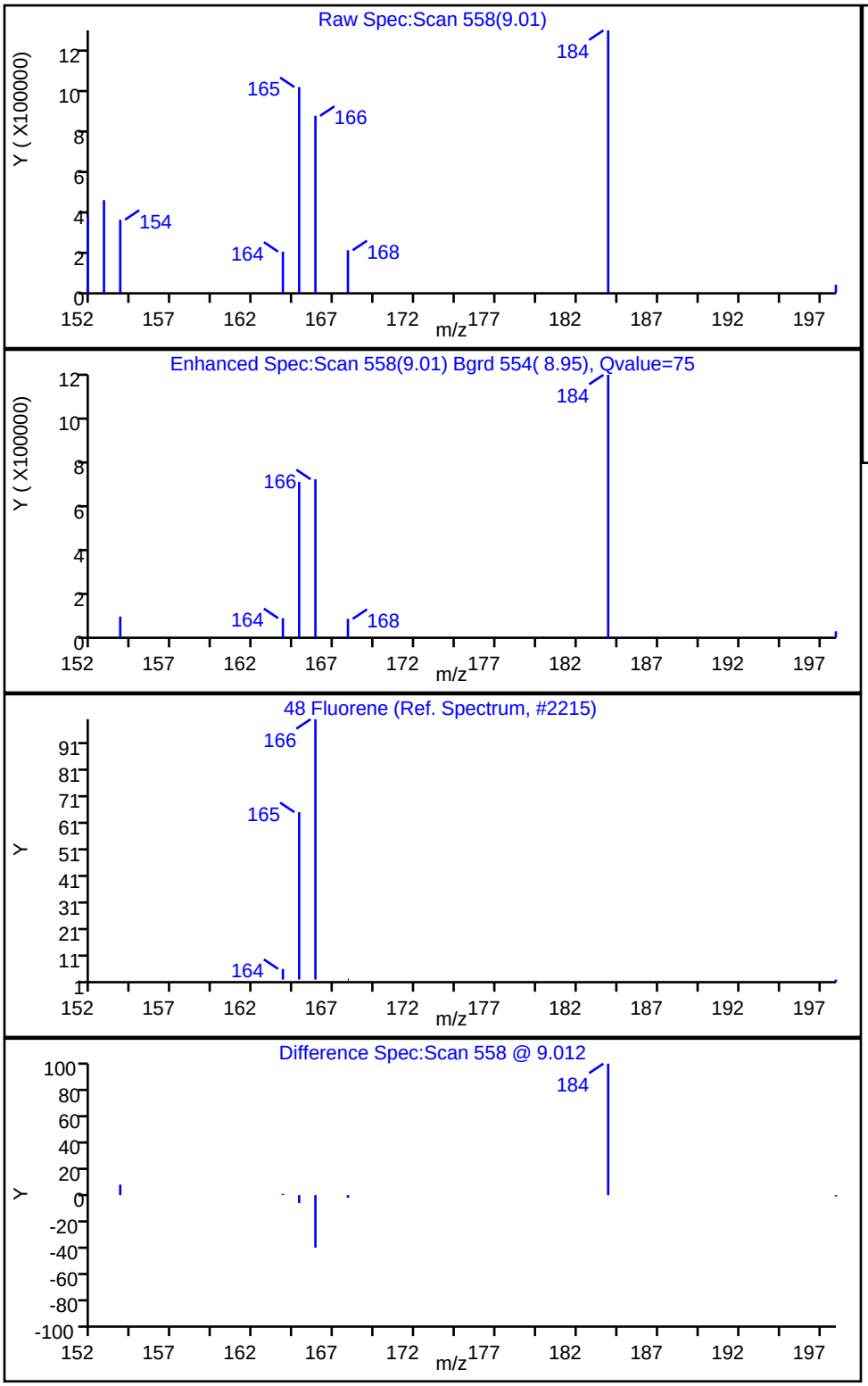


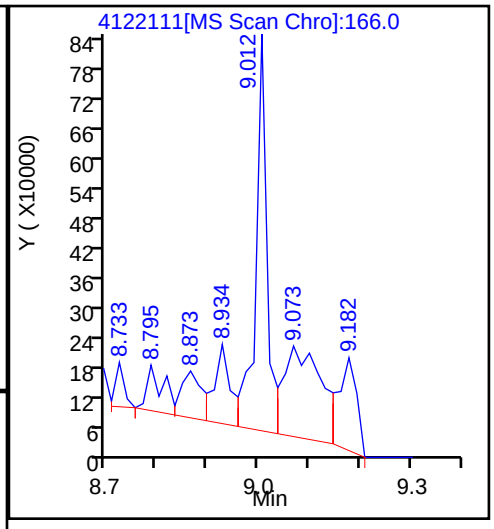
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene



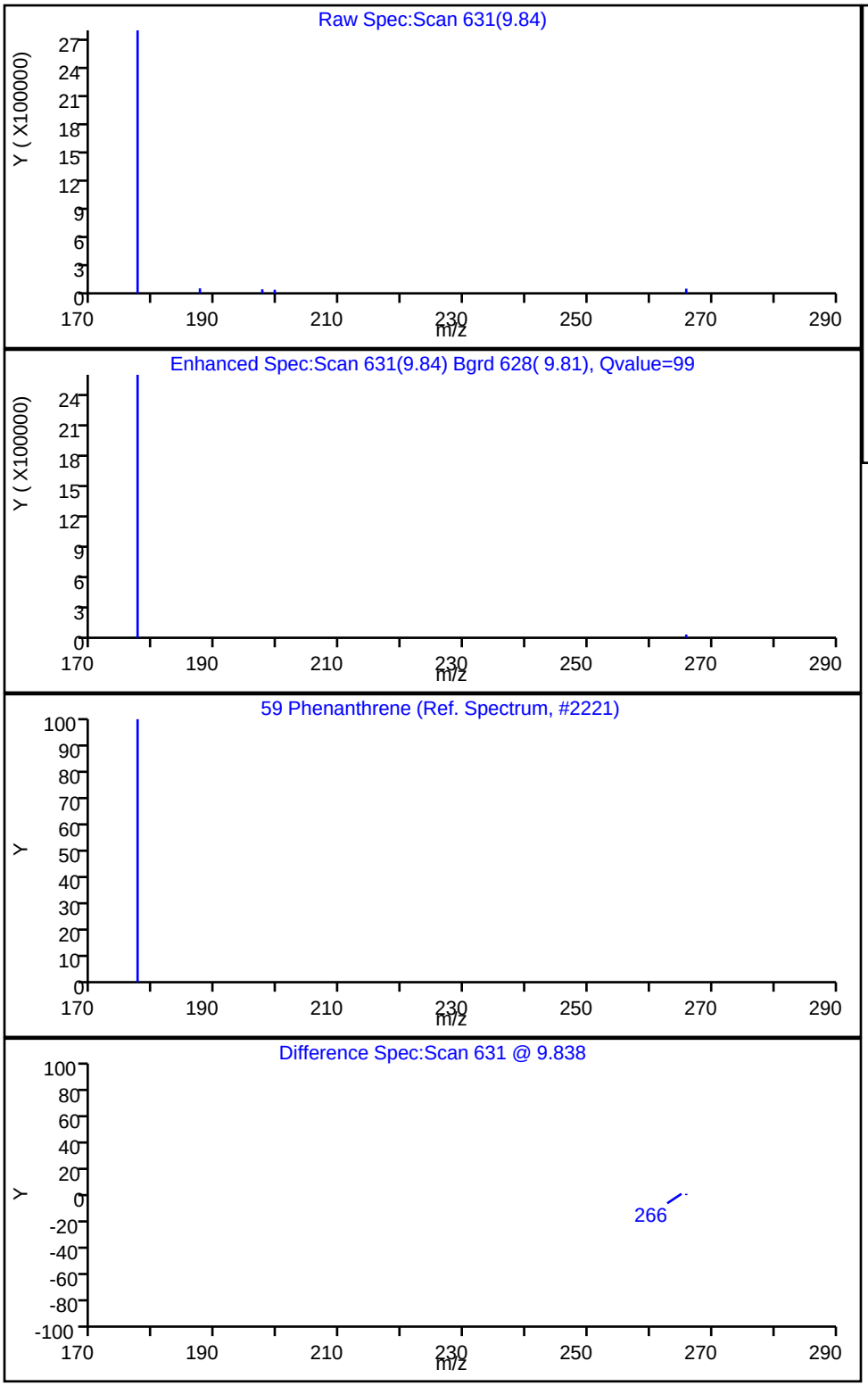


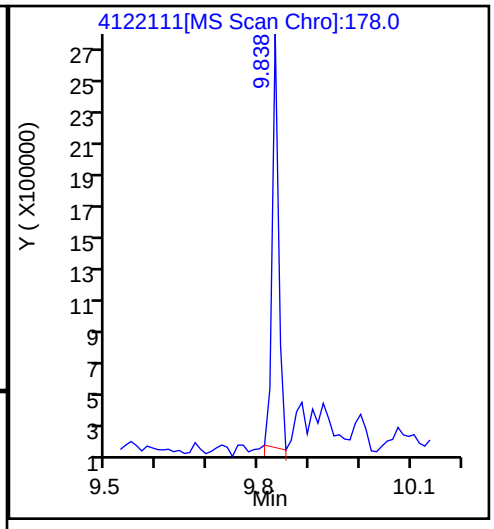
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene



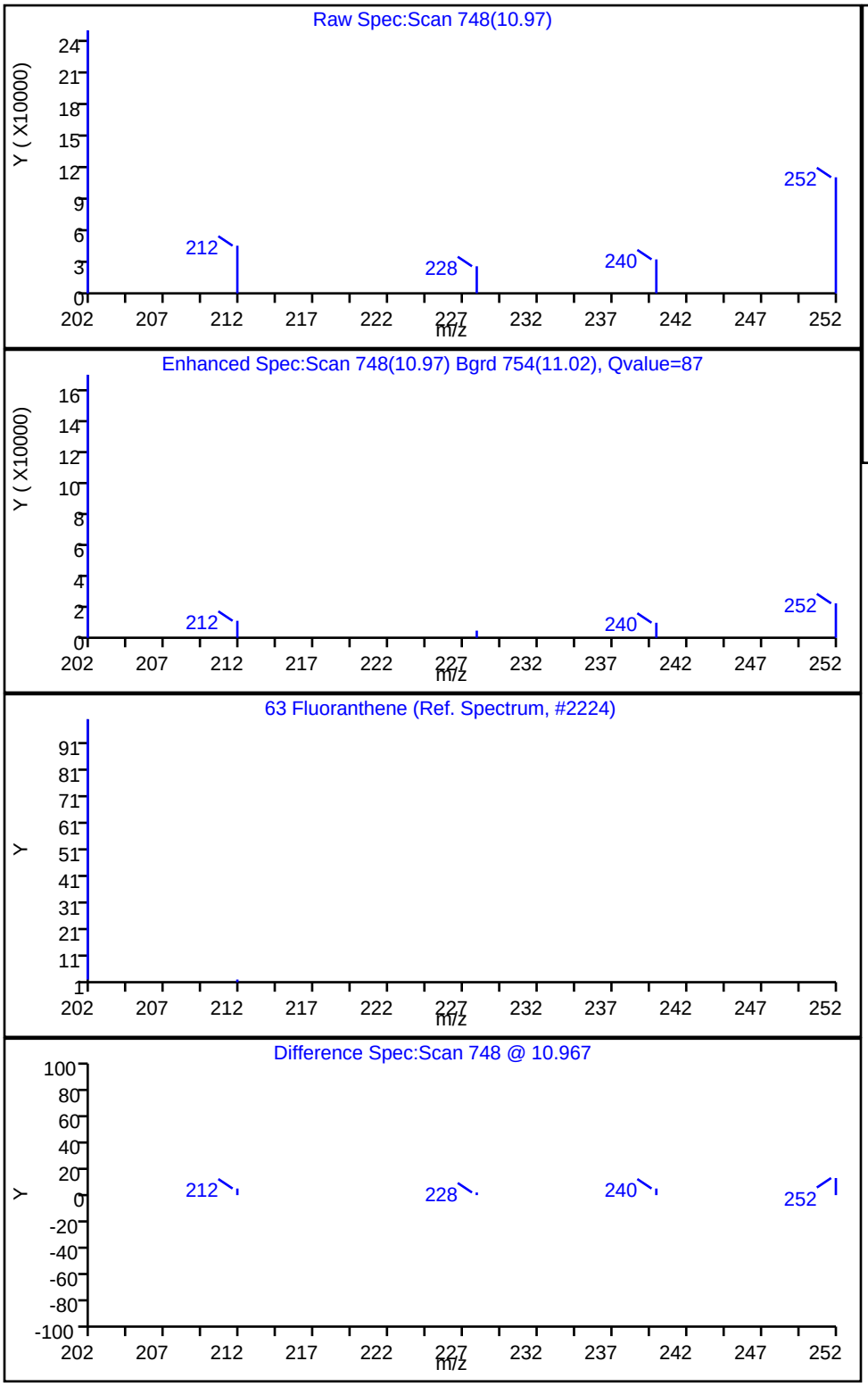


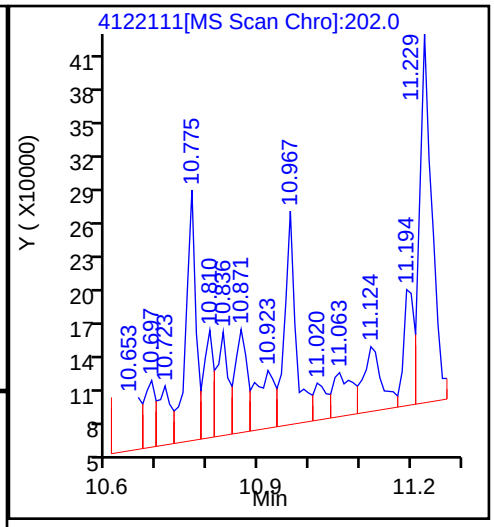
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

63 Fluoranthene



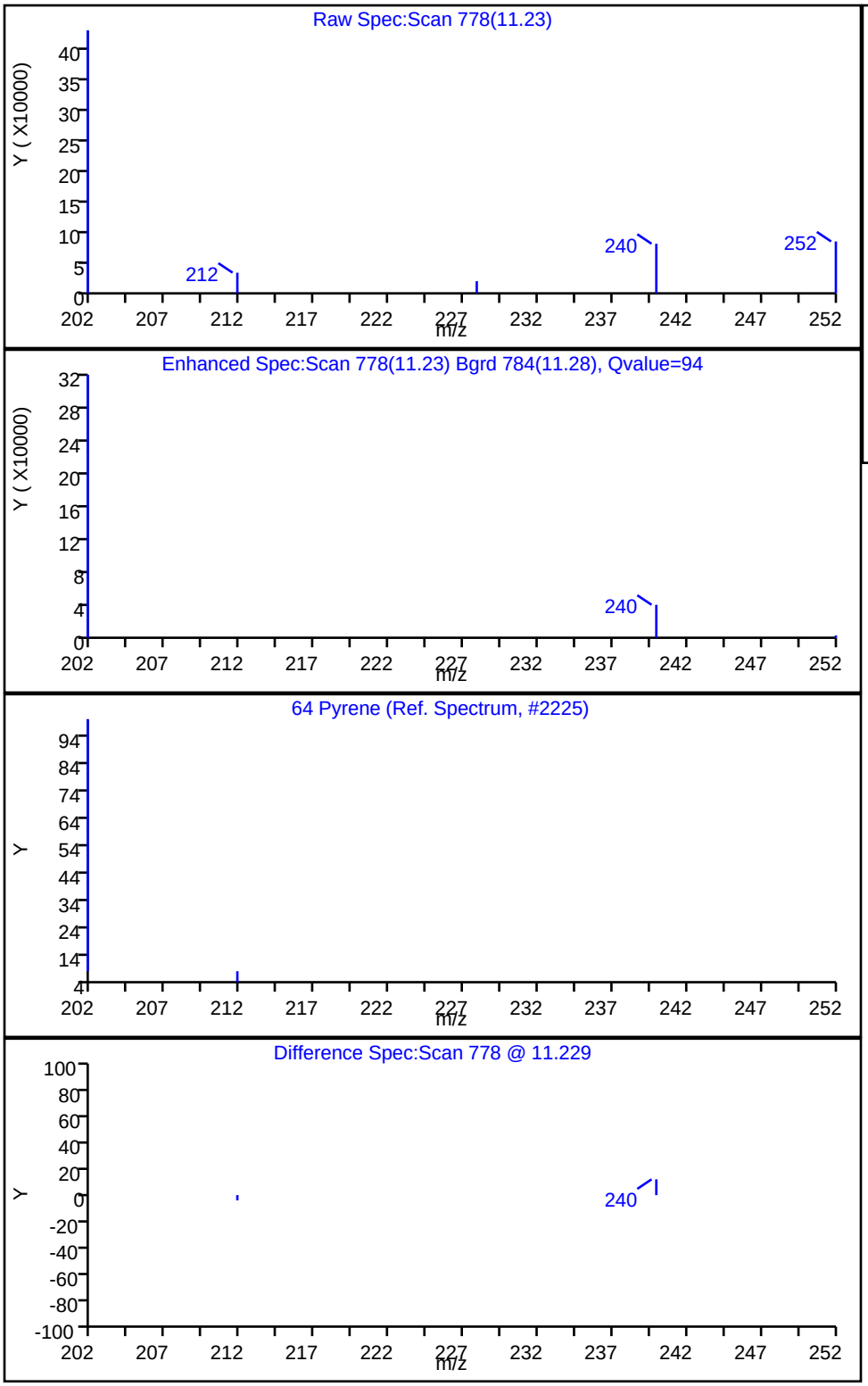


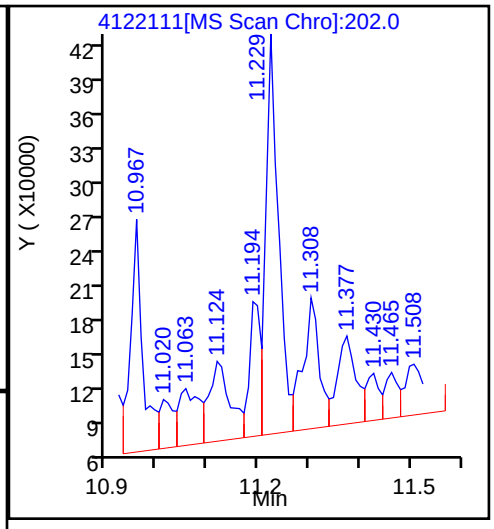
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

64 Pyrene



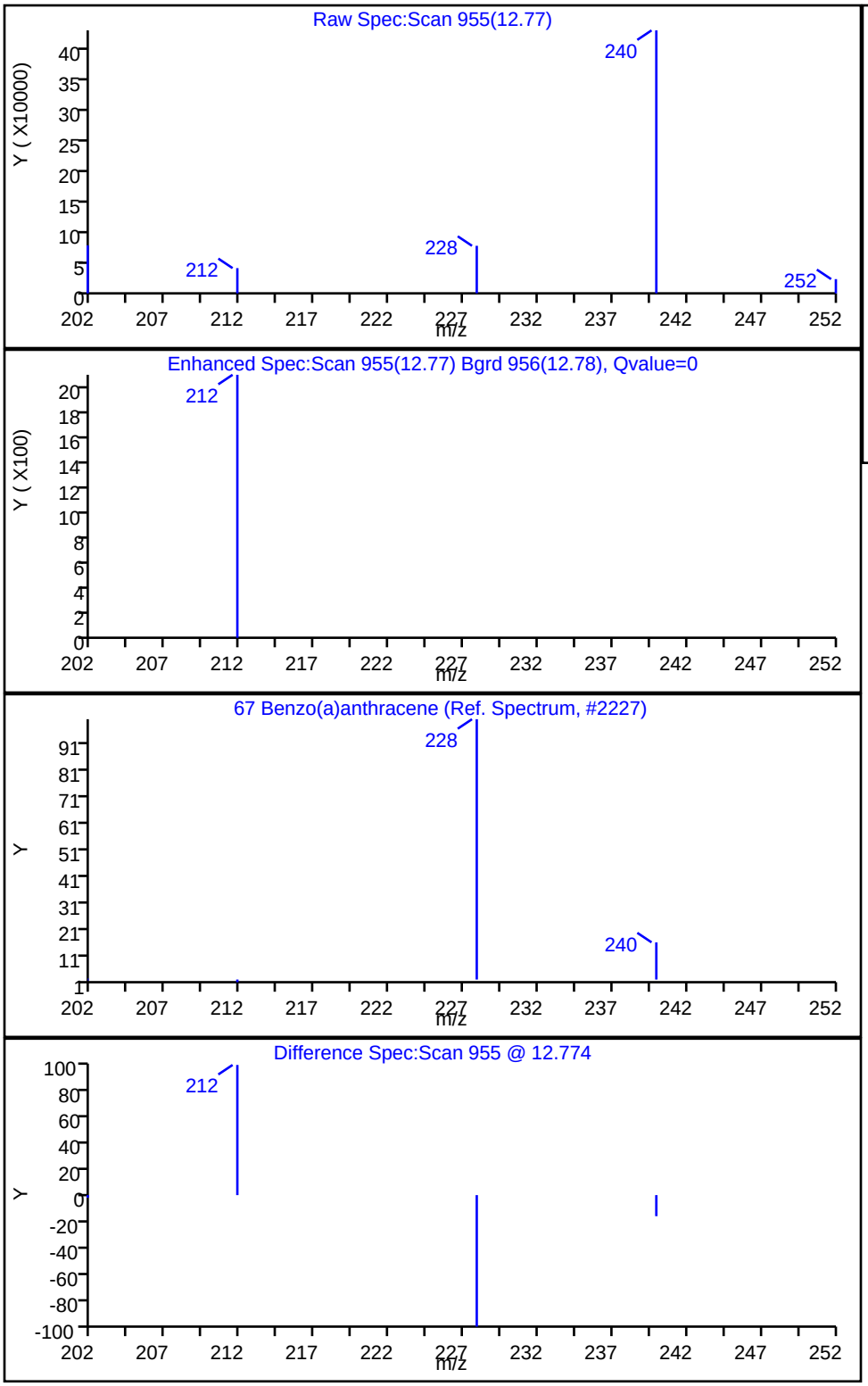


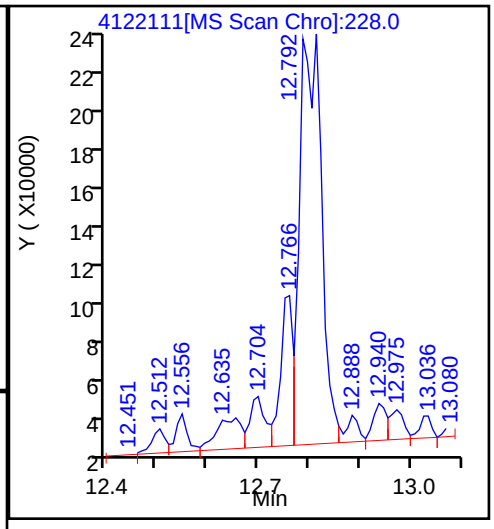
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

67 Benzo(a)anthracene



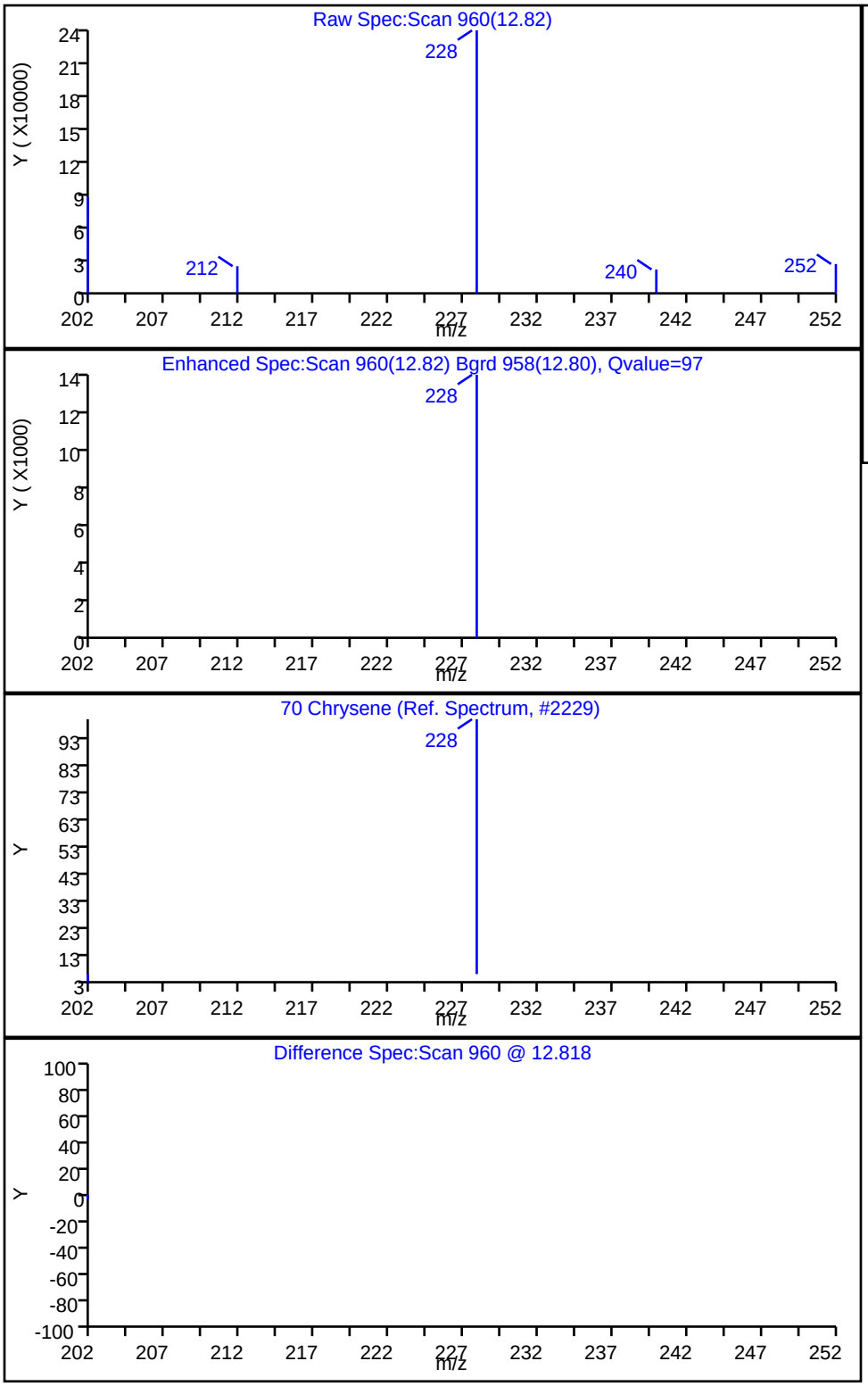


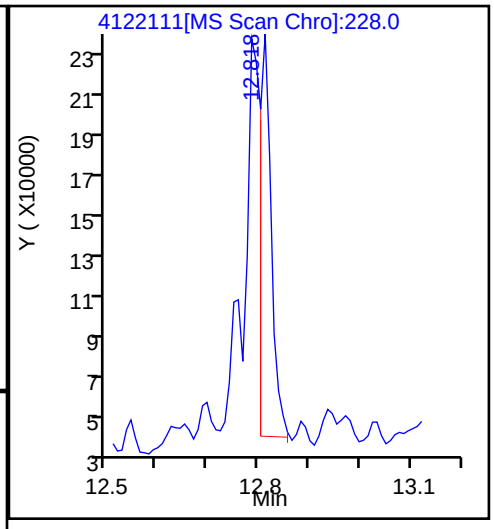
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene



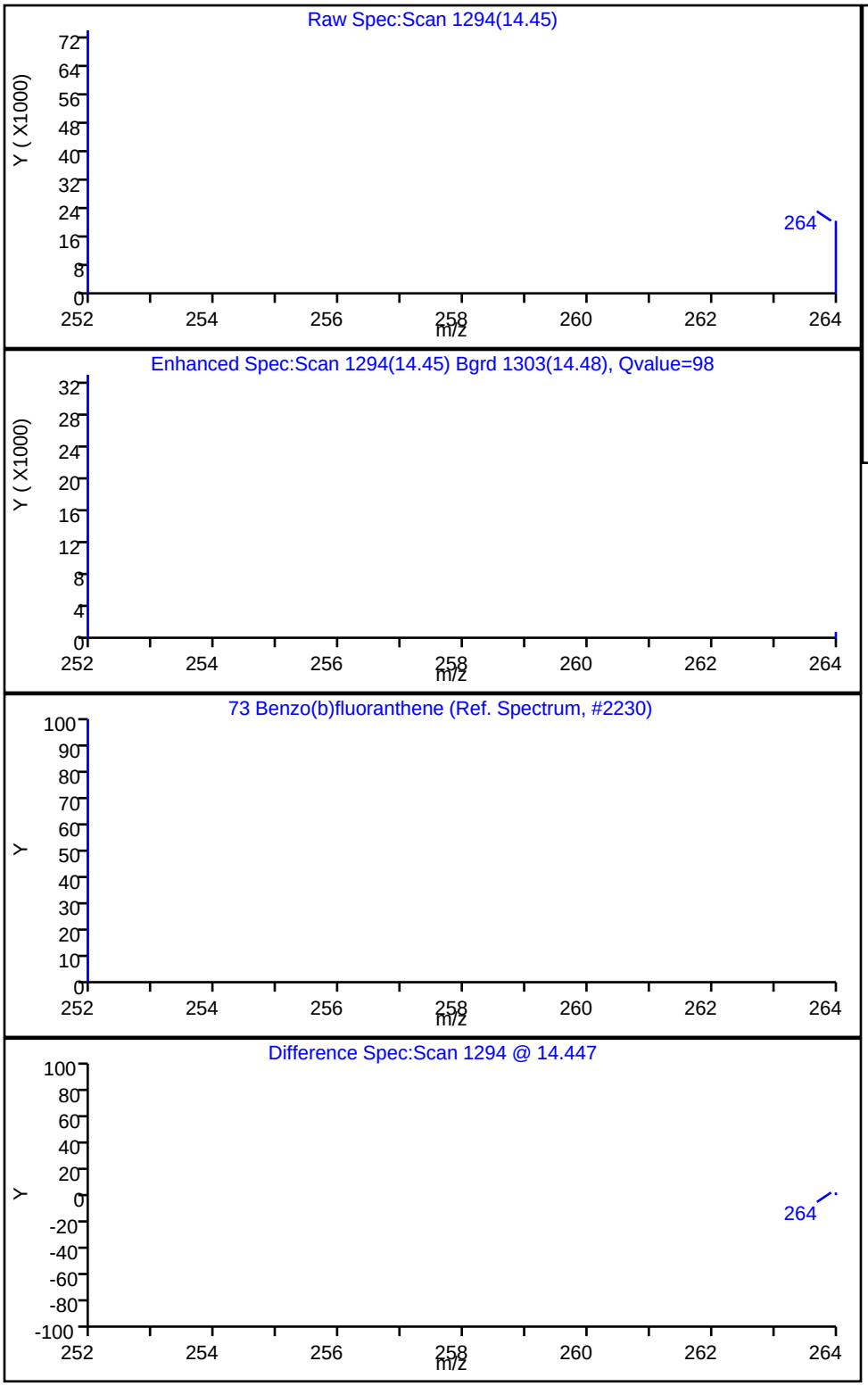


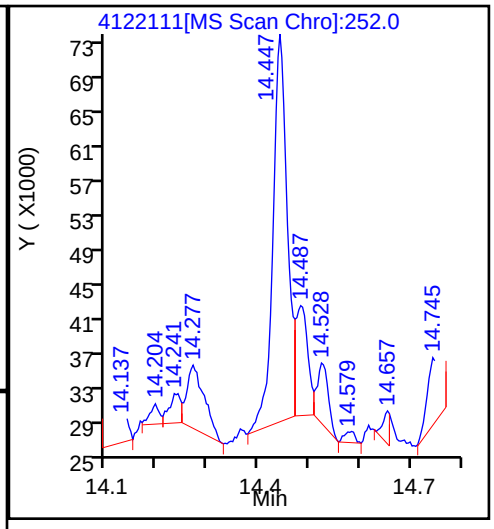
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

73 Benzo(b)fluoranthene



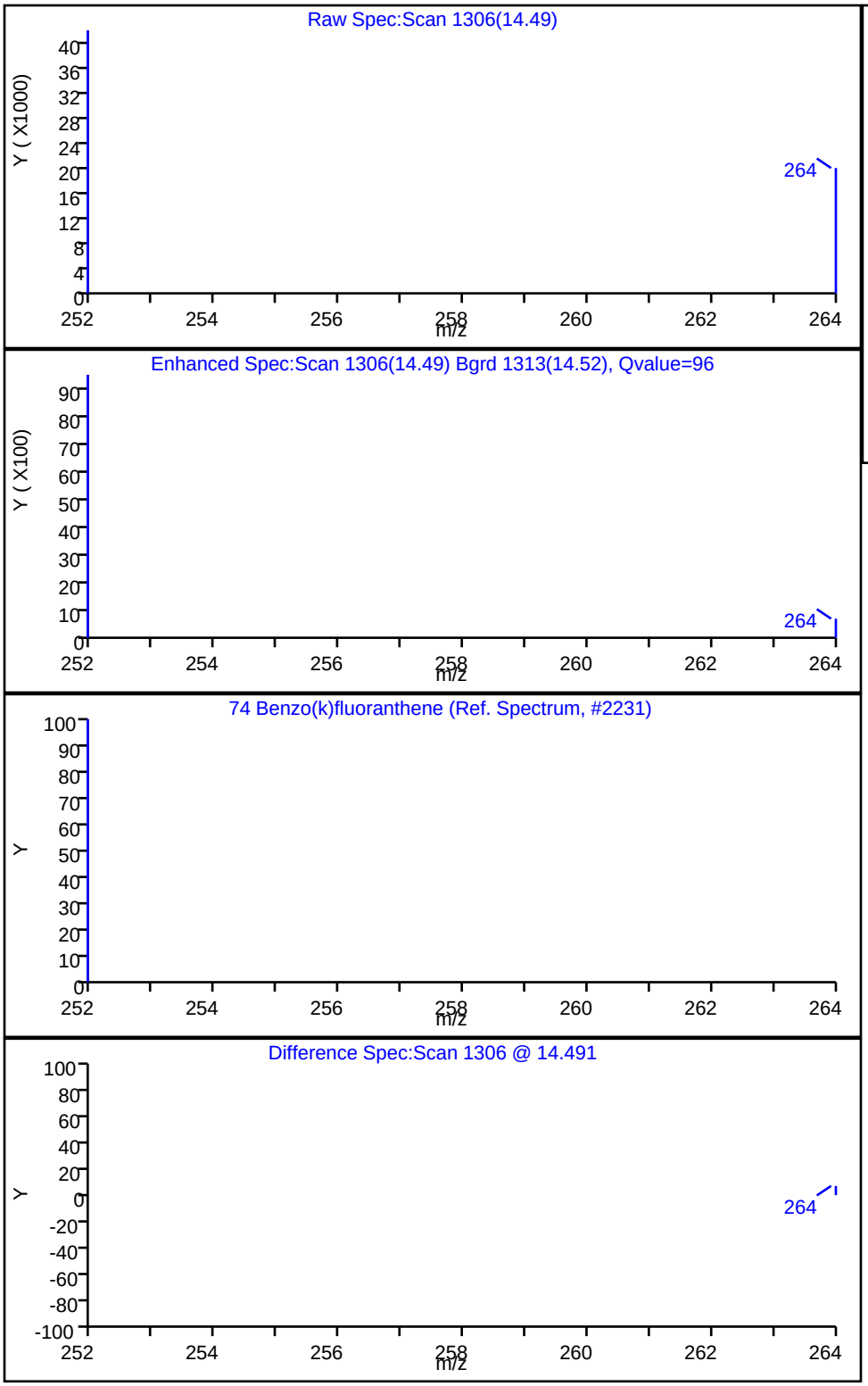


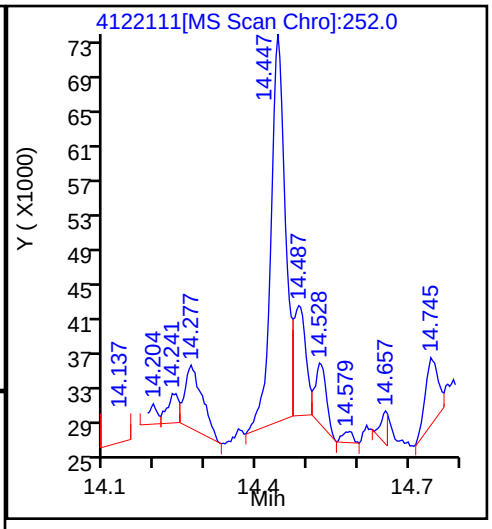
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

74 Benzo(k)fluoranthene



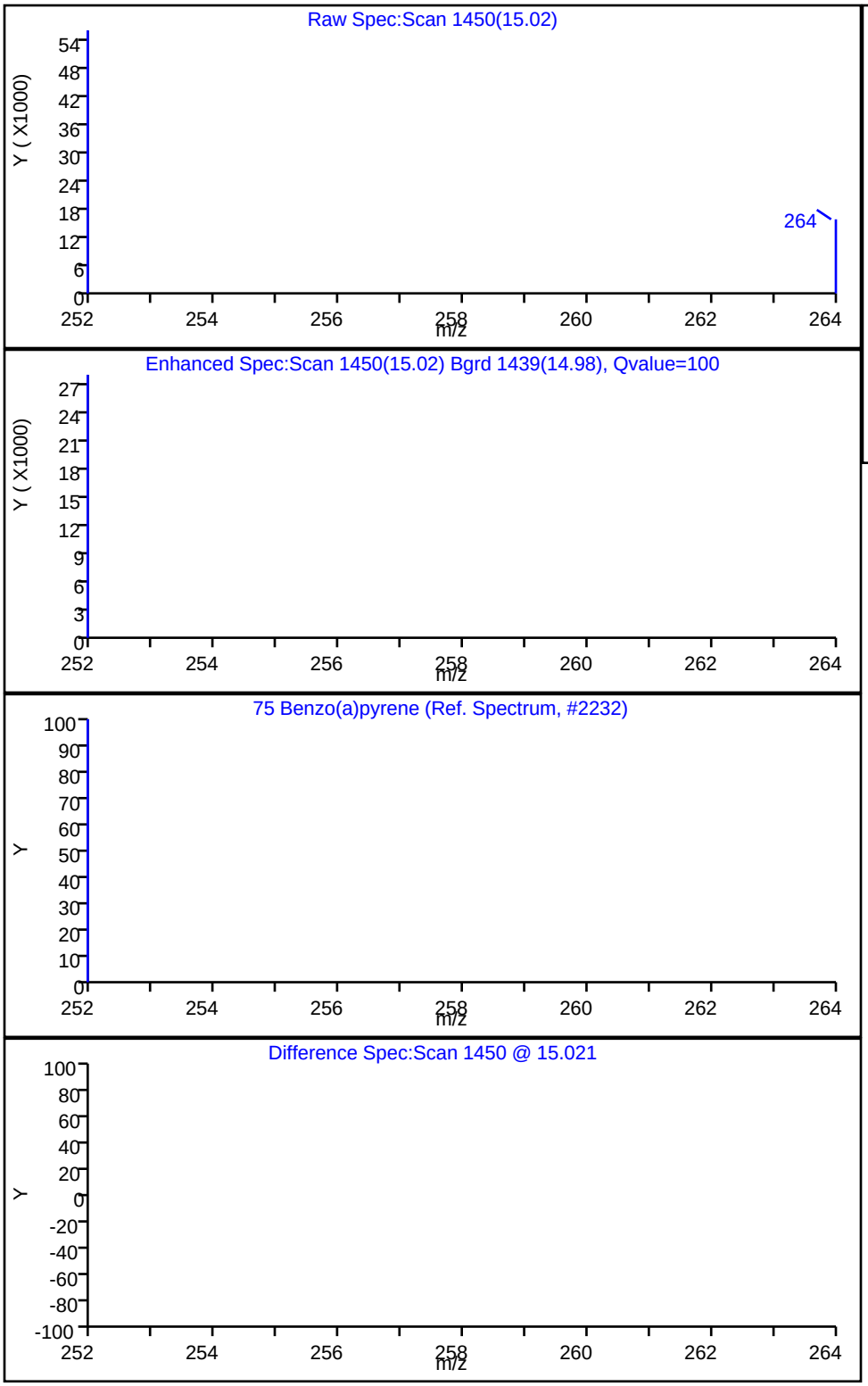


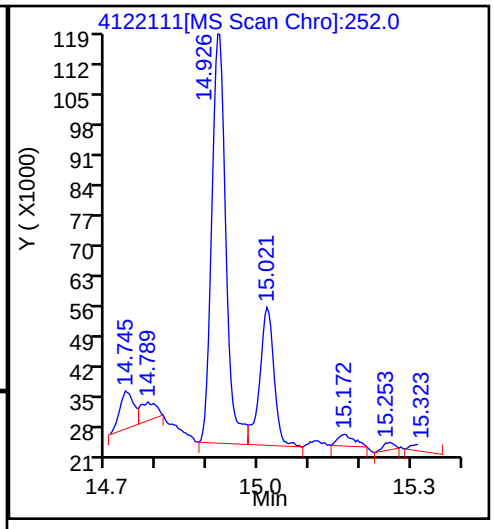
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

75 Benzo(a)pyrene



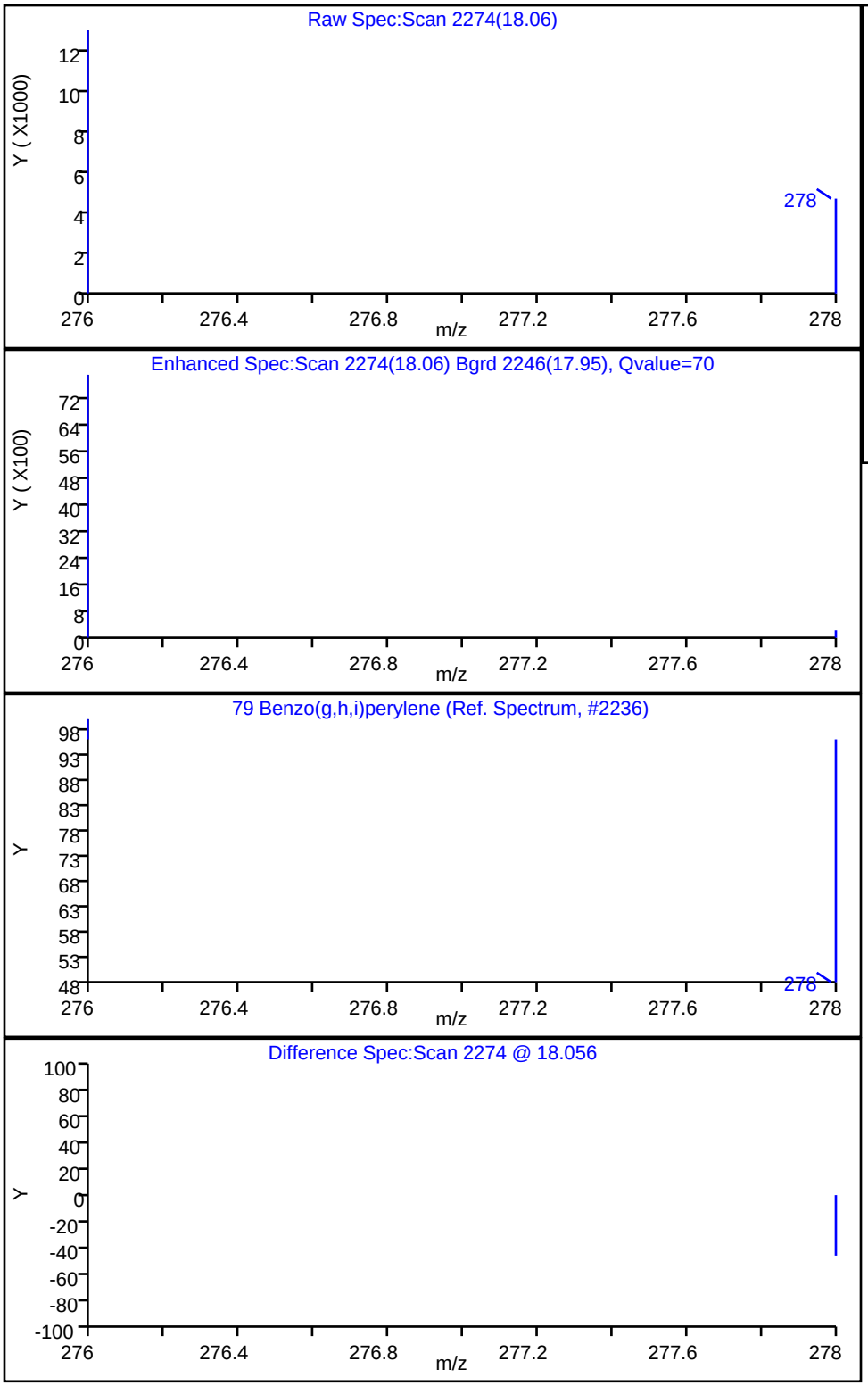


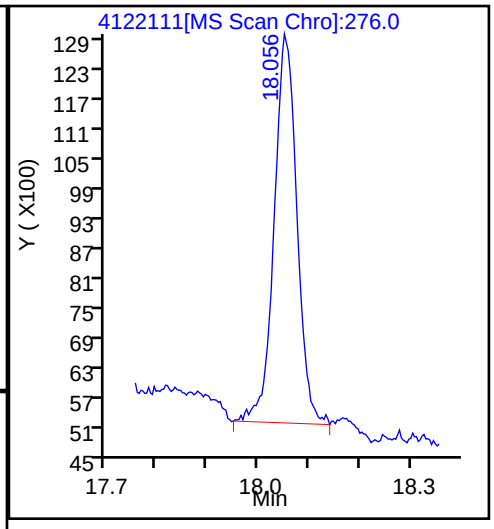
Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

79 Benzo(g,h,i)perylene





Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

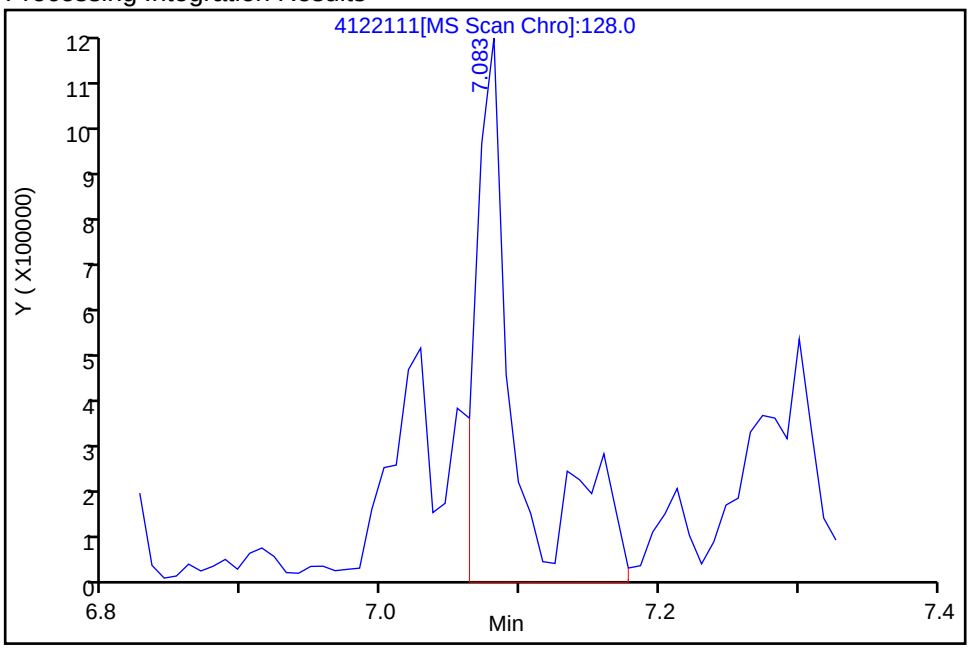
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene, CAS: 91-20-3

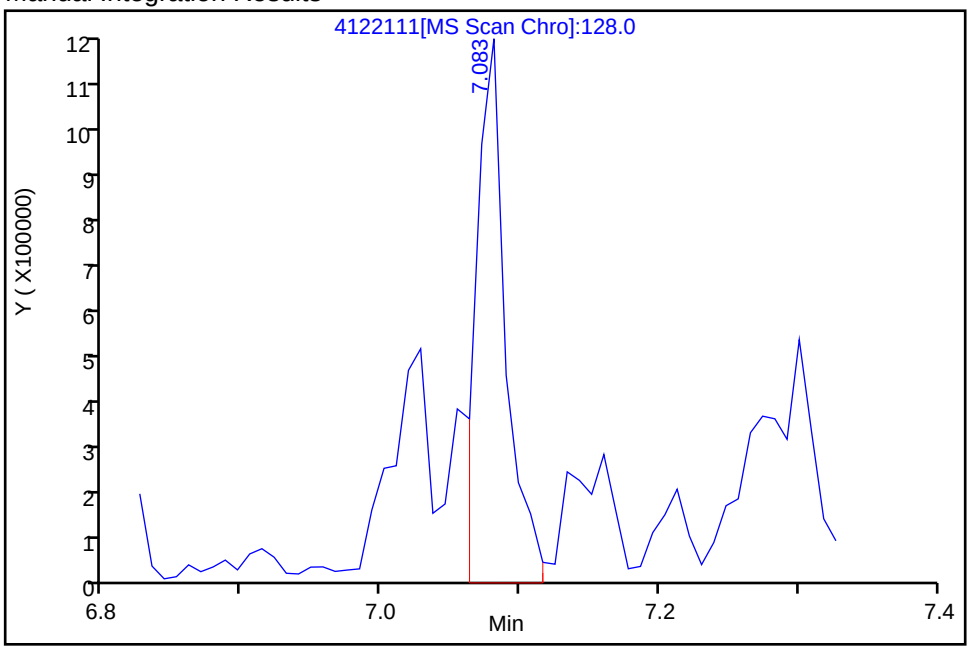
Processing Integration Results

RT:	7.083
Area:	2408839
Conc:	440.22
Conc Units:	ug/Kg
Conc:	



Manual Integration Results

RT:	7.083
Area:	1727893
Conc:	631.55
Conc Units:	ug/Kg



Data Editor: rbh, 21-Dec-2015 14:30:30

Audit Action: Mint

Audit Reason: SP

Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

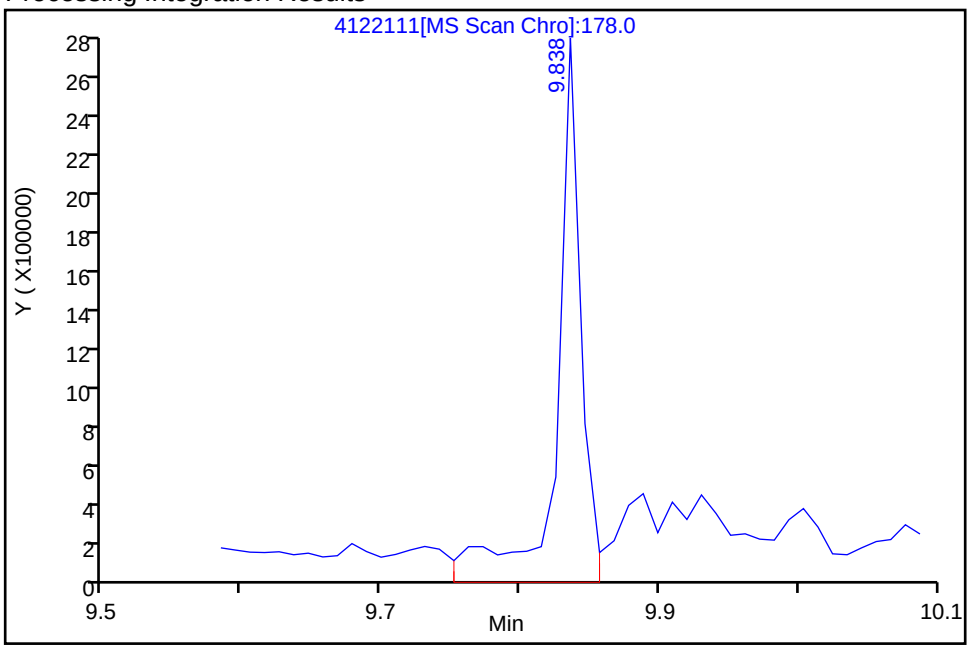
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene, CAS: 85-01-8

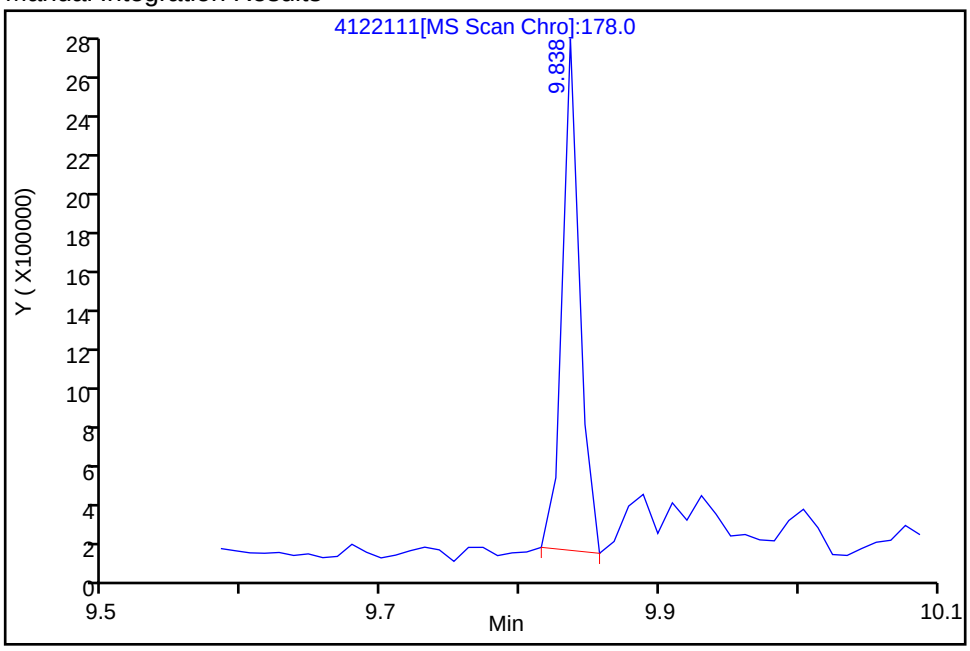
Processing Integration Results

RT: 9.838
Area: 3317038
Conc: 673.83
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 9.838
Area: 2239920
Conc: 910.05
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:31:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 15:26:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

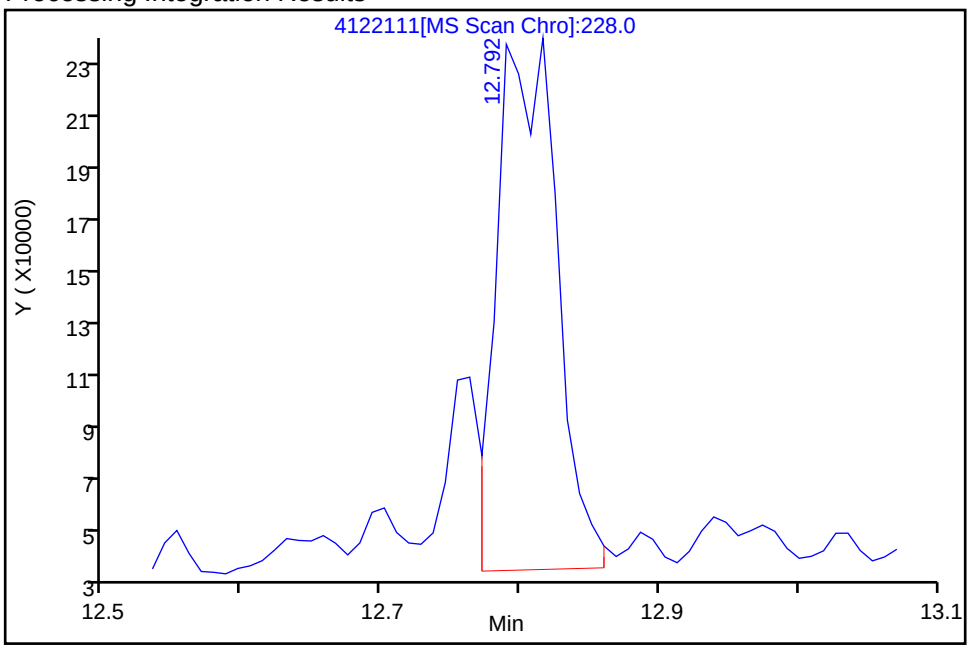
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122111.D		
Injection Date:	21-Dec-2015 12:56:30	Inst. ID:	msd4.i
Client ID:	F6R26	Lab ID:	QL12004-007
Sample Info:	4122115, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene, CAS: 218-01-9

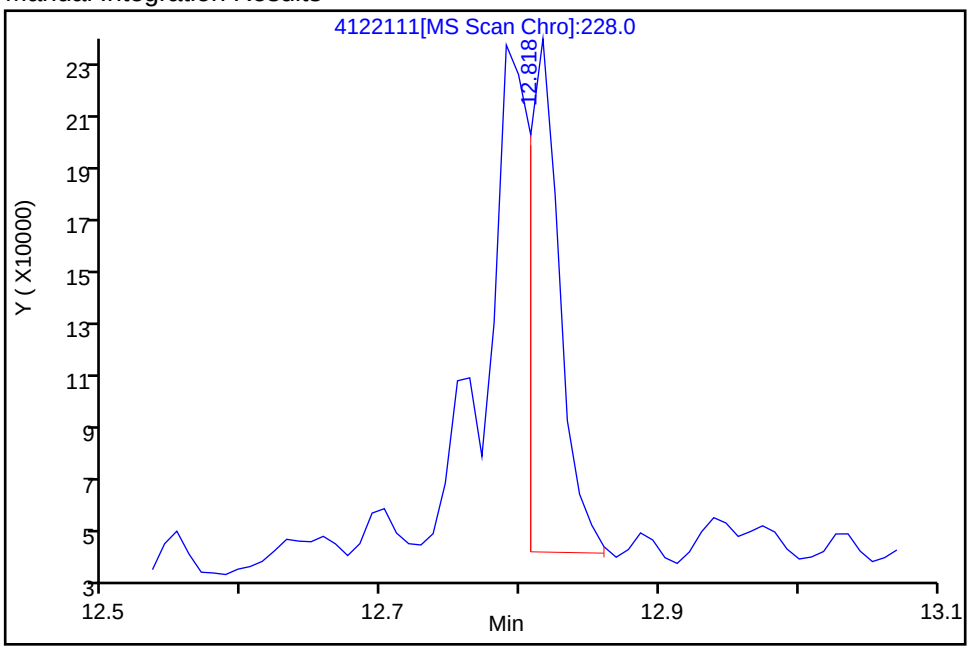
Processing Integration Results

RT: 12.792
Area: 555697
Conc: 135.72
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 12.818
Area: 298392
Conc: 145.76
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:32:30
Audit Action: Mint
Audit Reason: SP

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R26RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-007
Sample wt/vol: 1.00 (g/mL) g
Lab File ID: 41223B16
% Solids: 86.3
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/22/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 10.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	590	U
91-20-3	Naphthalene	4000	
91-57-6	2-Methylnaphthalene	15000	
208-96-8	Acenaphthylene	590	U
83-32-9	Acenaphthene	590	U
86-73-7	Fluorene	700	
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	1900	
120-12-7	Anthracene	320	J
206-44-0	Fluoranthene	140	J
129-00-0	Pyrene	250	J
56-55-3	Benzo(a)anthracene	62	J
218-01-9	Chrysene	210	J
205-99-2	Benzo(b)fluoranthene	90	J
207-08-9	Benzo(k)fluoranthene	44	J
50-32-8	Benzo(a)pyrene	57	J
193-39-5	Indeno(1,2,3-cd)pyrene	590	U
53-70-3	Dibenzo(a,h)anthracene	590	U
191-24-2	Benzo(g,h,i)perylene	140	J
132-64-9	Dibenzofuran	630	
118-74-1	Hexachlorobenzene	590	U
87-68-3	Hexachlorobutadiene	1100	U
111-44-4	bis(2-Chloroethyl)ether	1100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1100	U
621-64-7	N-Nitrosodi-n-propylamine	590	U
67-72-1	Hexachloroethane	1100	U
98-95-3	Nitrobenzene	1100	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R26RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: MED
Matrix: Soil
Lab Sample ID: QL12004-007
Sample wt/vol: 1.00 (g/mL) g
Lab File ID: 41223B16
% Solids: 86.3
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/22/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 10.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	1100	U
88-06-2	2,4,6-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	590	U
606-20-2	2,6-Dinitrotoluene	590	U
51-28-5	2,4-Dinitrophenol	11000	U
121-14-2	2,4-Dinitrotoluene	590	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1100	U
1912-24-9	Atrazine	1100	U
91-94-1	3,3'-Dichlorobenzidine	1100	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B16.D		
Lab Sample ID:	QL12004-007	Client Sample ID:	F6R26RX
Injection Date:	23-Dec-2015 16:27:30	Dil. Factor:	10.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122315B, QL12004-007		
Misc. Info:	92838 10X		
Method:	\\Organics\HH\chem\msd4.i\4122315B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	12
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	1.0000	Weight of sample extracted (g)
M	13.700	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 16:54:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.761	3.761	0.000	910	0.006590	76.363	e
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.727		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.762		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	96219	0.40000	4634.99	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.288		ND			
15 Hexachloroethane	117.0		6.434		ND			
$ 16 Nitrobenzene-d5	128.0		6.455		ND			
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.935	6.917	0.018	29581	0.10760	1246.86	R
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	476055	0.40000	4634.99	
24 Naphthalene	128.0	7.074	7.074	0.000	426007	0.34504	3998.15	
25 4-Chloroaniline	127.0		7.092		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	17655	0.02682	310.80	eMR
29 2-Methylnaphthalene	142.0	7.636	7.635	0.001	971449	1.3326	15441	
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.316		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	257295	0.40000	4634.99	M

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Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B16.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0	8.703	8.703	0.000	70229	0.05445	630.90	
48 Fluorene	166.0	8.996	8.996	0.000	54613	0.06002	695.45	M
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.473		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.807	9.807	0.000	378424	0.40000	4634.99	
59 Phenanthrene	178.0	9.827	9.827	0.000	173360	0.16821	1949.13	
60 Anthracene	178.0	9.869	9.869	0.000	28083	0.02805	324.99	eM
$ 116 Flouranthene-d10	212.0	10.933	10.932	0.001	19422	0.01946	225.55	eR
63 Fluoranthene	202.0	10.950	10.950	0.000	13528	0.01209	140.15	e
64 Pyrene	202.0	11.212	11.212	0.000	24783	0.02168	251.21	e
68 3,3'-Dichlorobenzidine	252.0		12.652		ND			
67 Benzo(a)anthracene	228.0	12.740	12.740	0.000	5500	0.005314	61.576	e
* 69 Chrysene-d12	240.0	12.757	12.757	0.000	416935	0.40000	4634.99	
70 Chrysene	228.0	12.801	12.801	0.000	18725	0.01823	211.20	eM
73 Benzo(b)fluoranthene	252.0	14.421	14.418	0.003	9493	0.007779	90.133	e
74 Benzo(k)fluoranthene	252.0	14.466	14.462	0.004	4626	0.003813	44.180	e
75 Benzo(a)pyrene	252.0	14.992	14.992	0.000	5475	0.004900	56.780	e
* 76 Perylene-d12	264.0	15.088	15.092	-0.004	404989	0.40000	4634.99	
77 Indeno(1,2,3-cd)pyrene	276.0		17.330		ND			
78 Dibenzo(a,h)anthracene	278.0		17.345		ND			
79 Benzo(g,h,i)perylene	276.0	18.015	18.015	0.000	12432	0.01179	136.62	e

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

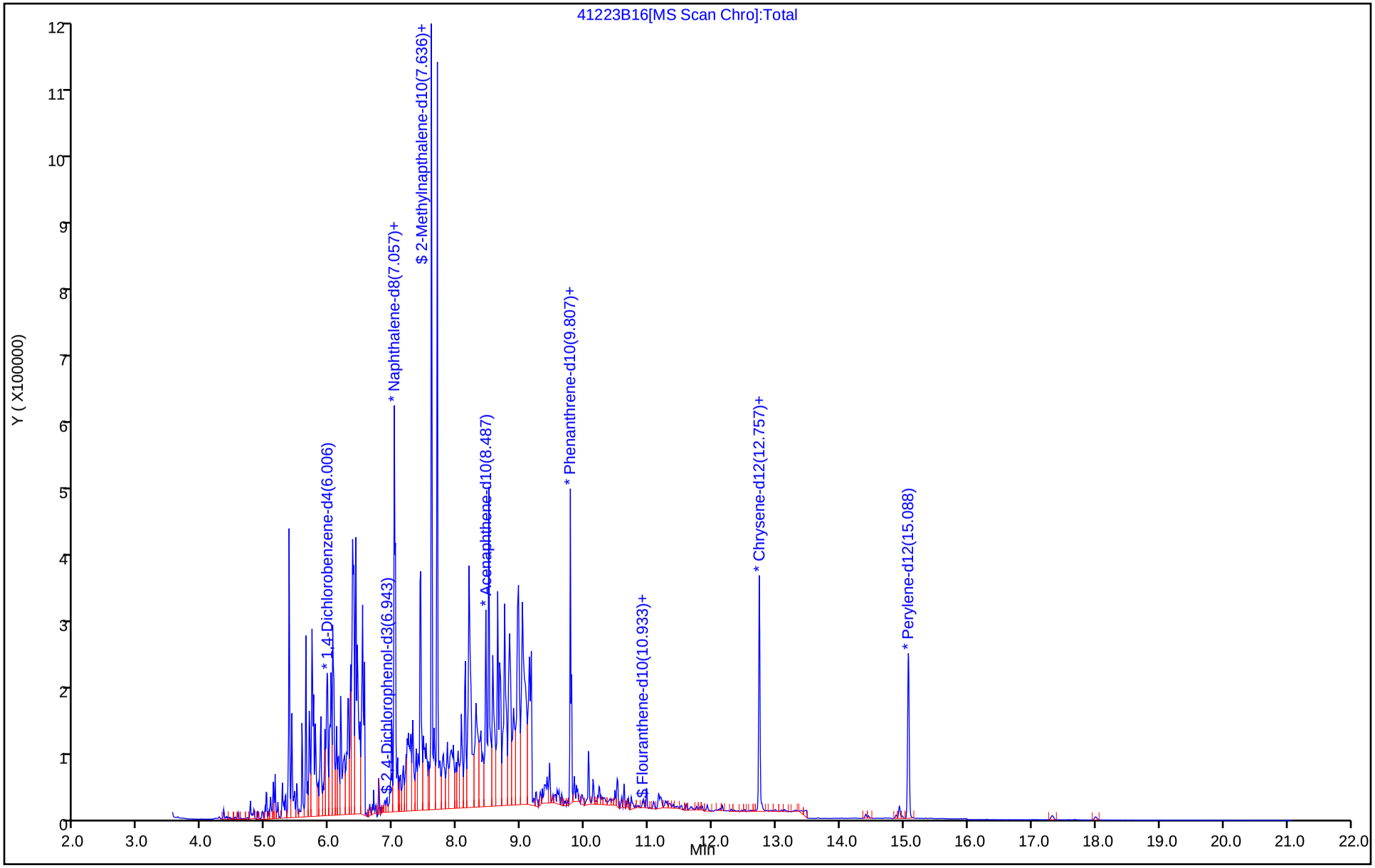
R - Spike/Surrogte Fails %Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B16.D				
Injection Date:	23-Dec-2015 16:27:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R26RX	Lab ID:	QL12004-007		
Sample Info:	4122315B, QL12004-007				
Injection Vol.	2.00 uL	Dil. Factor:	10.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



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Shealy Environmental Services

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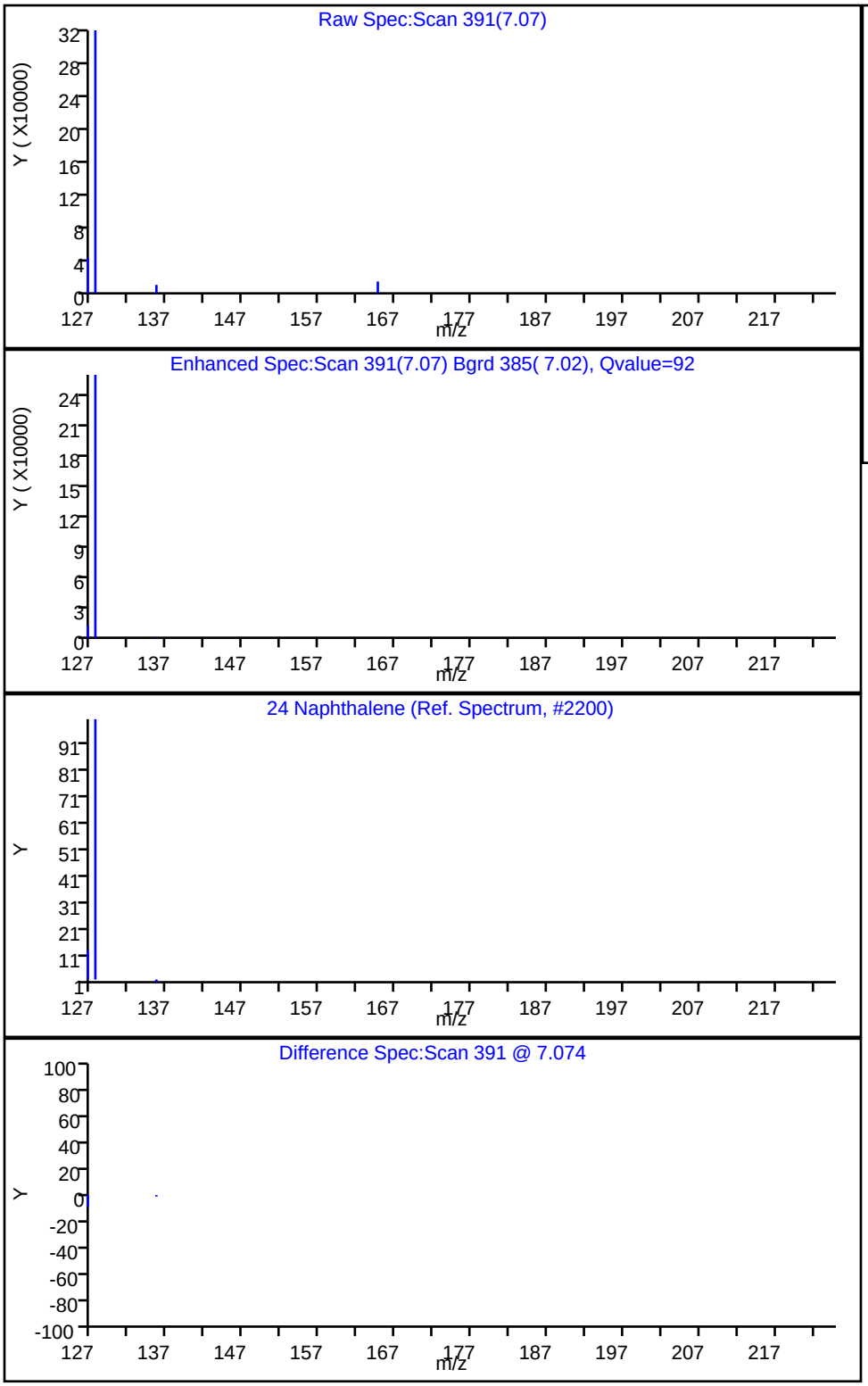
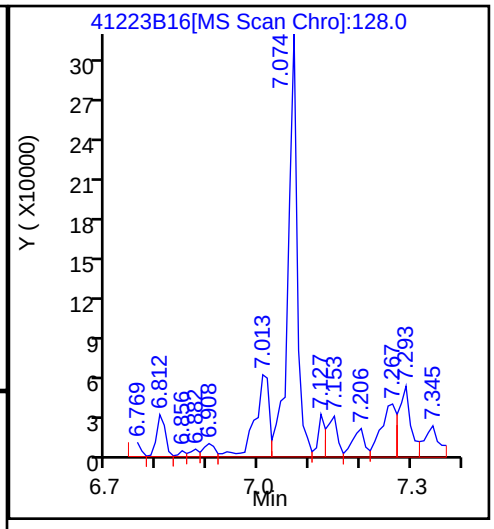
Client ID:	F6R26RX	Lab ID:	QL12004-007
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene





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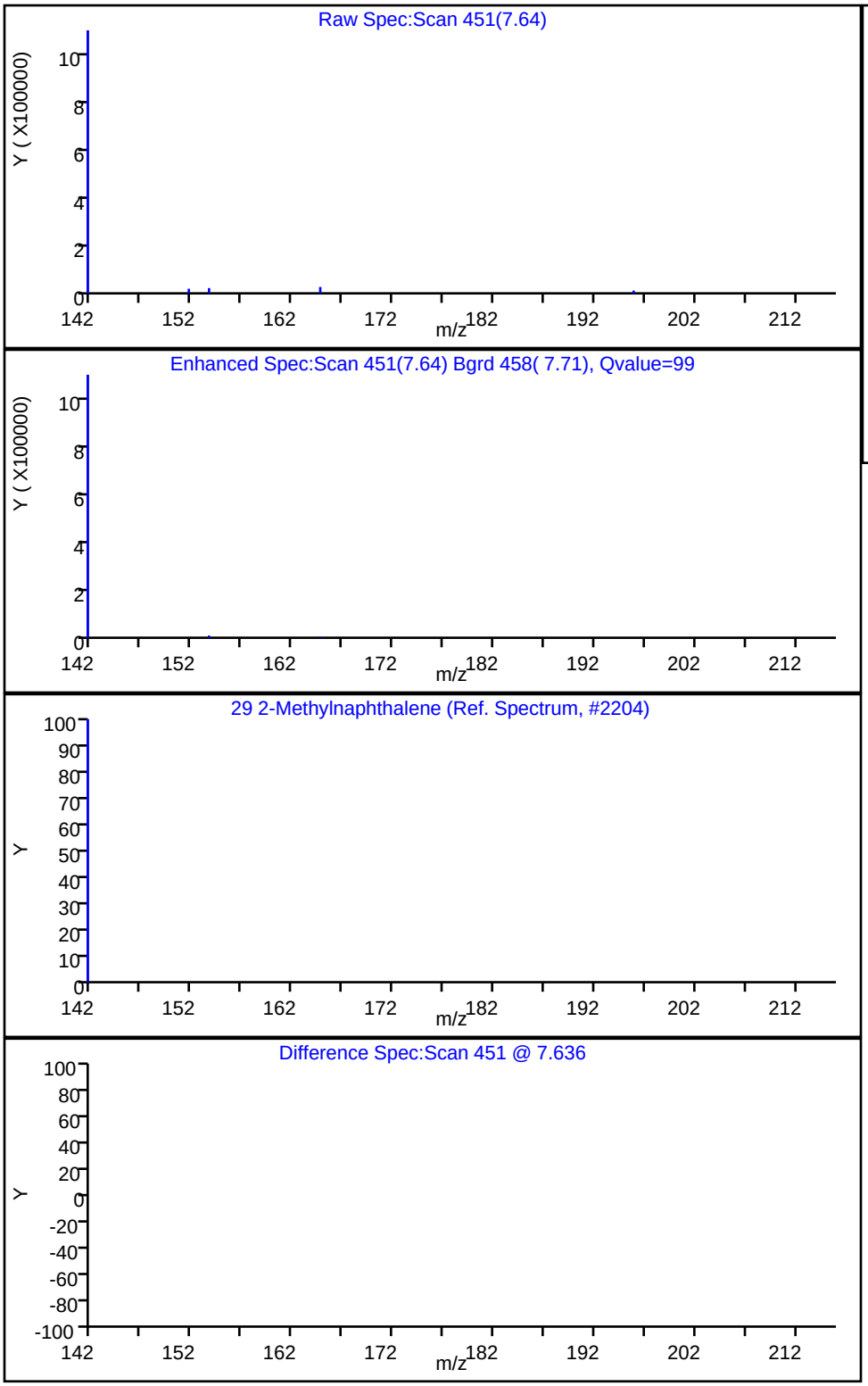
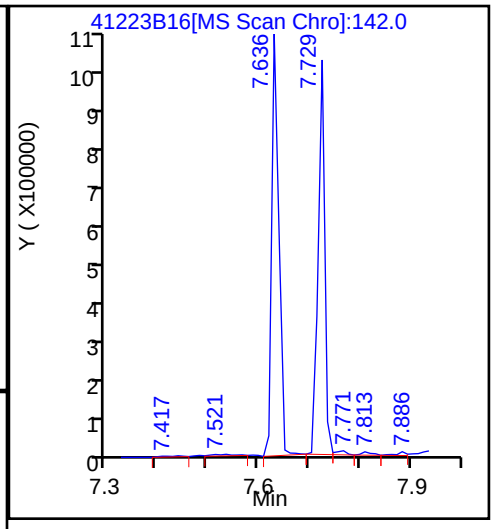
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene





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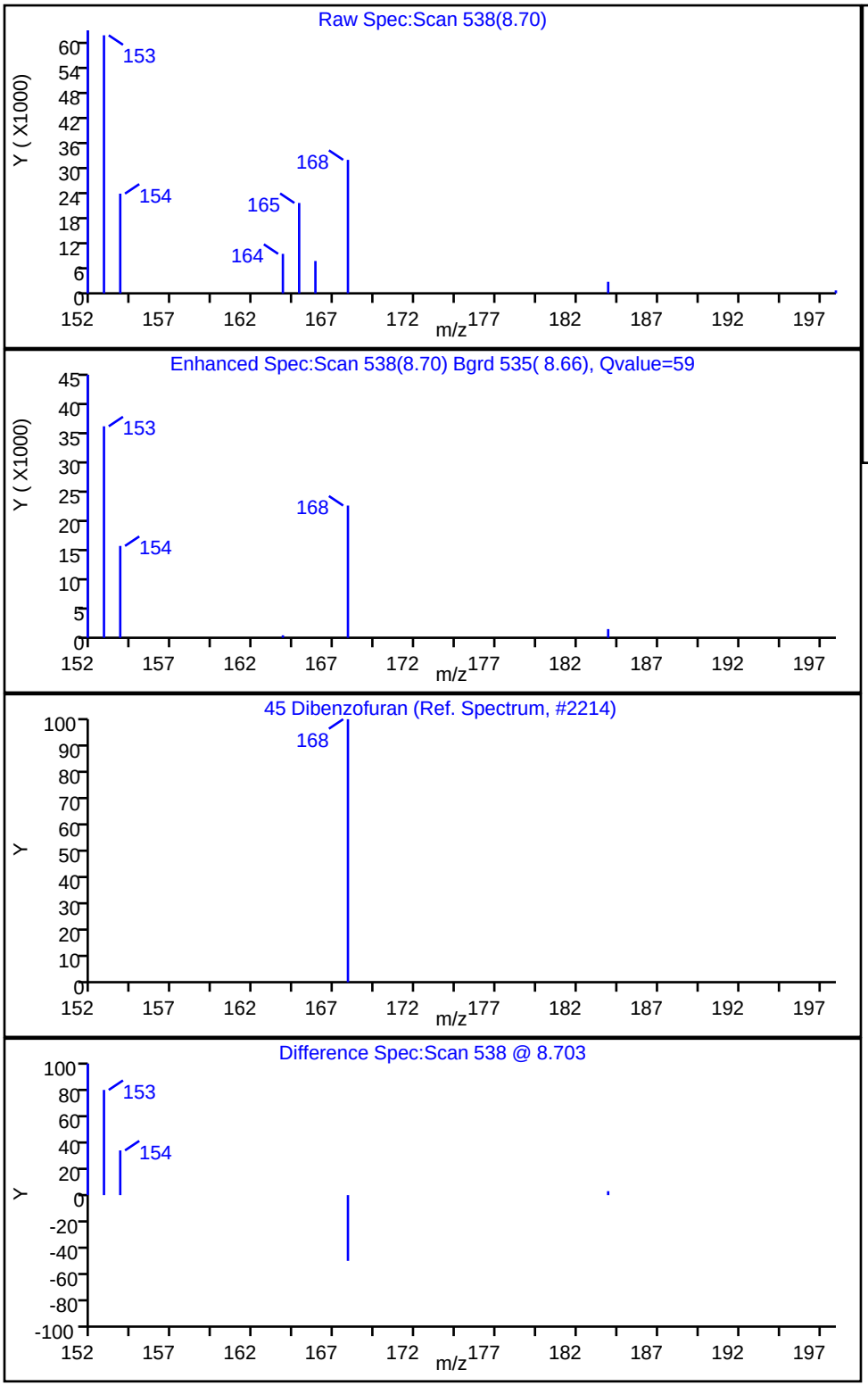
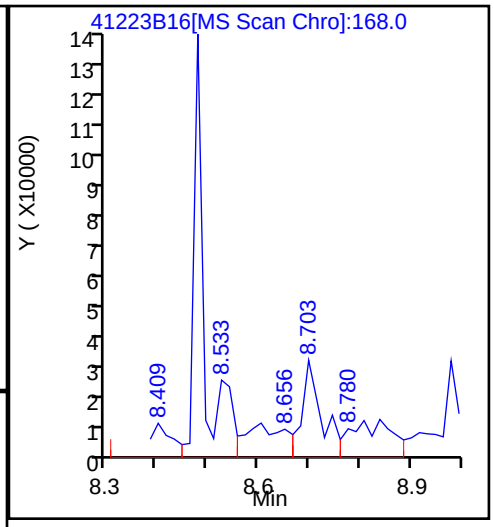
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

45 Dibenzofuran





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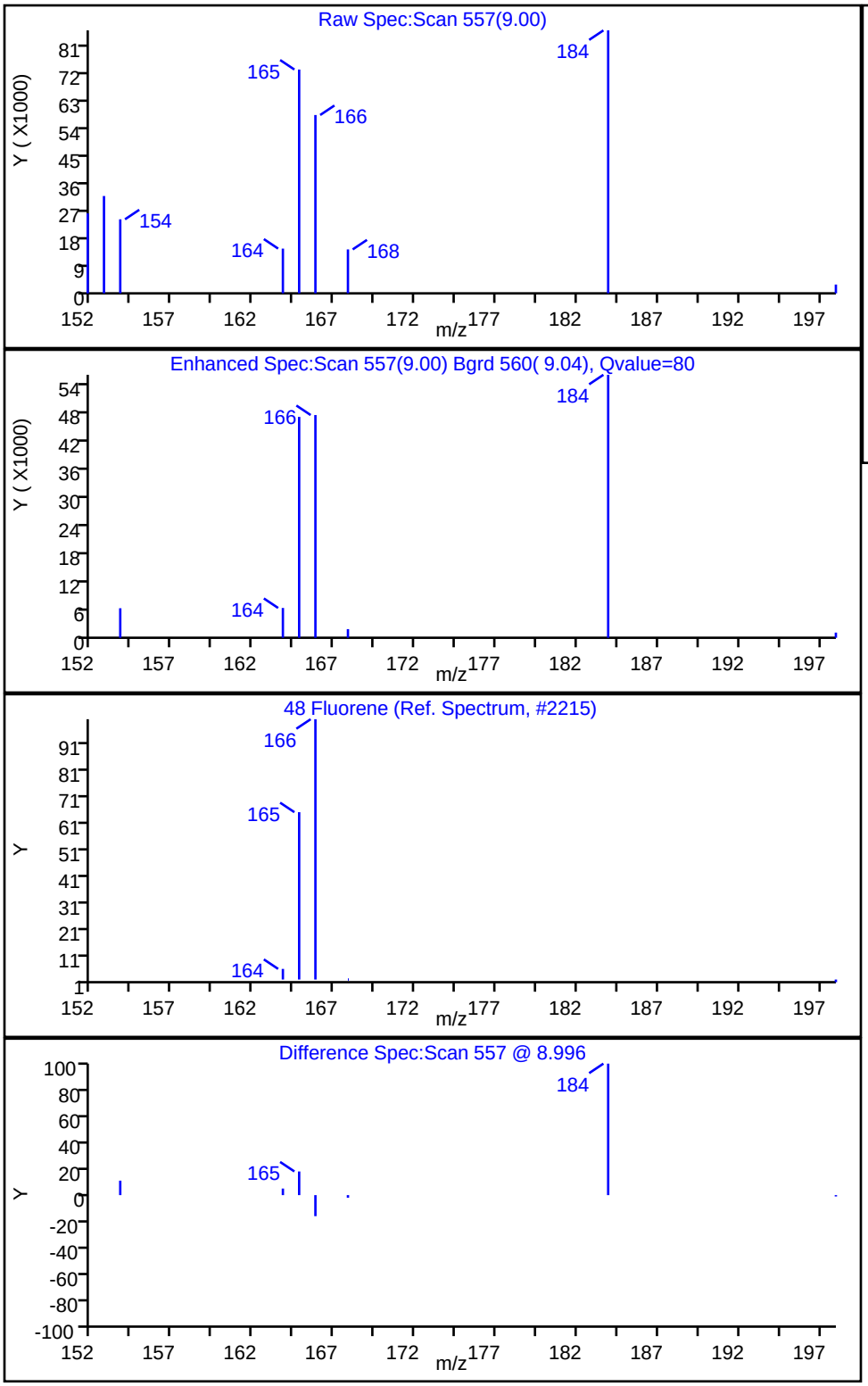
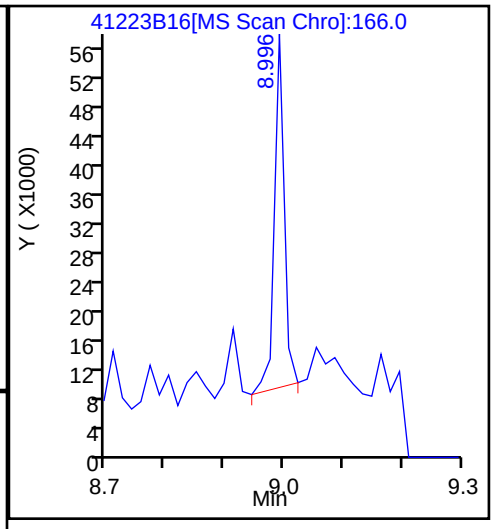
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene





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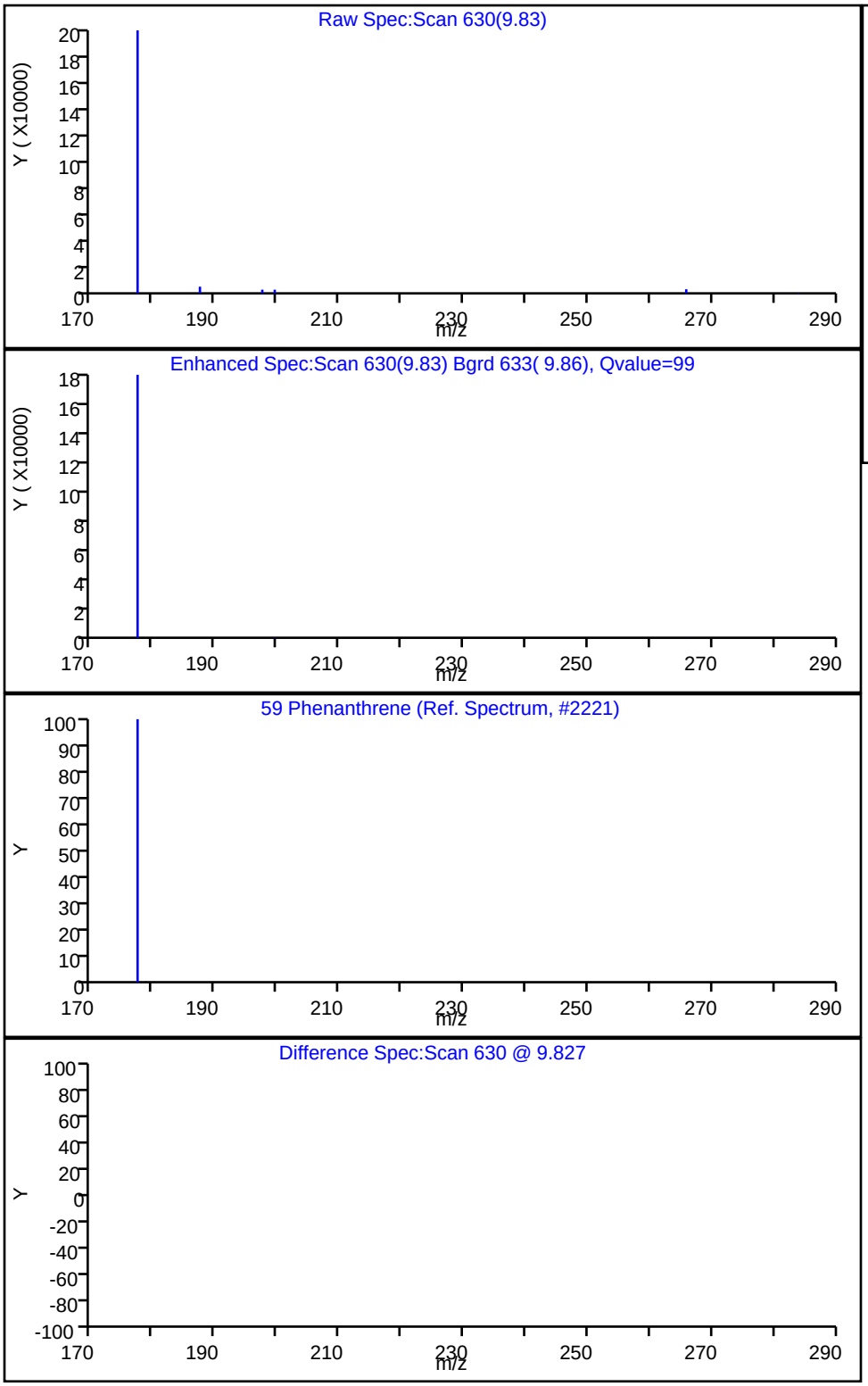
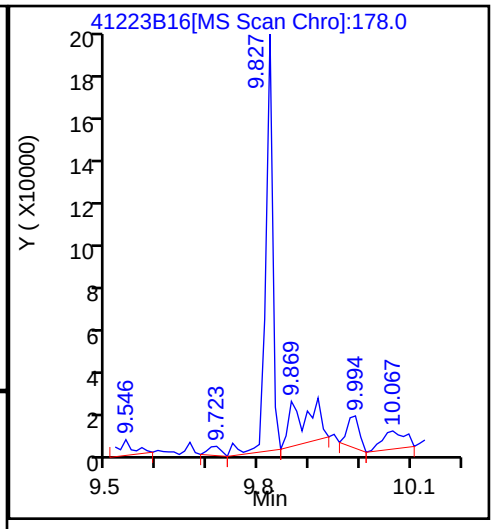
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene





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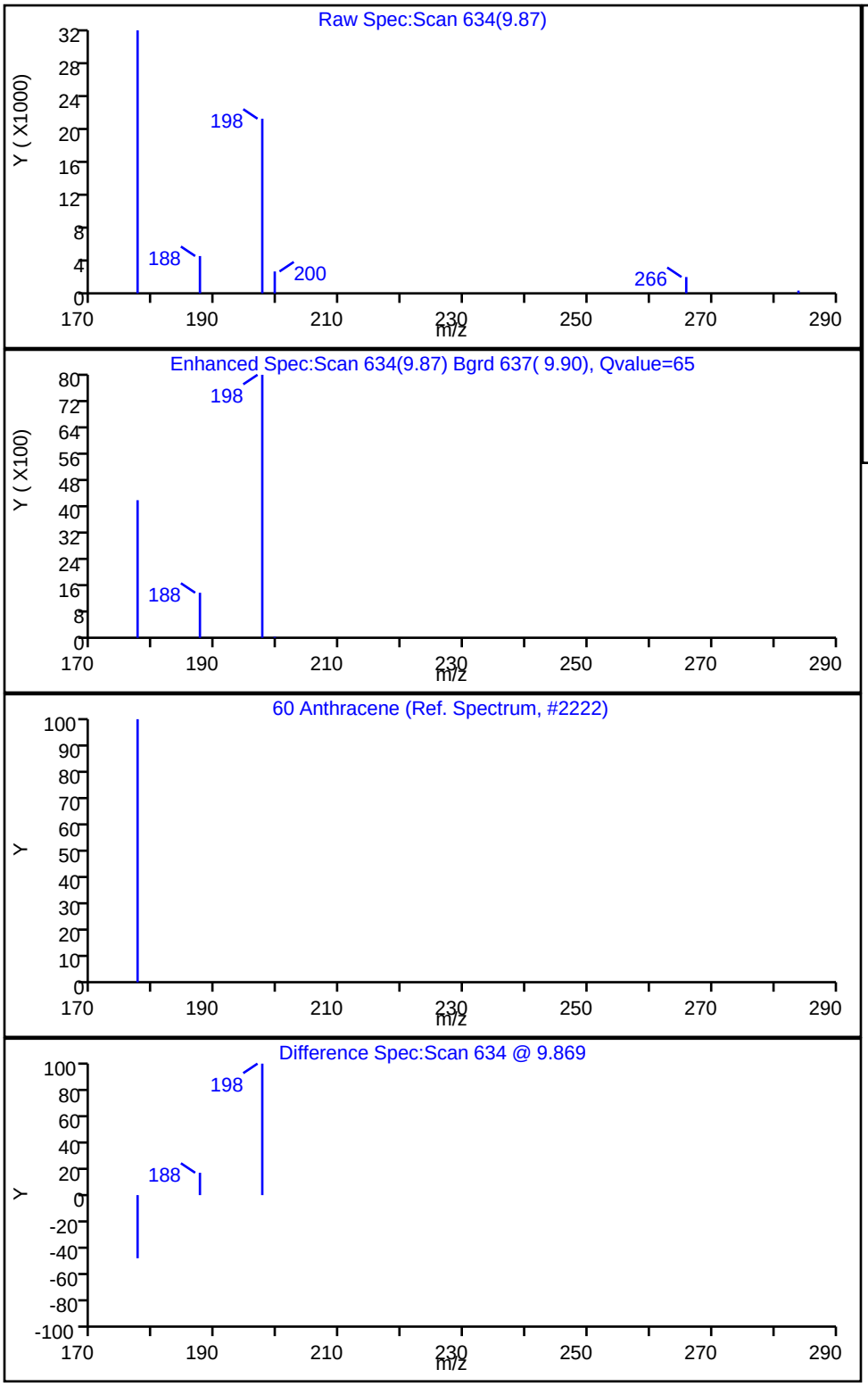
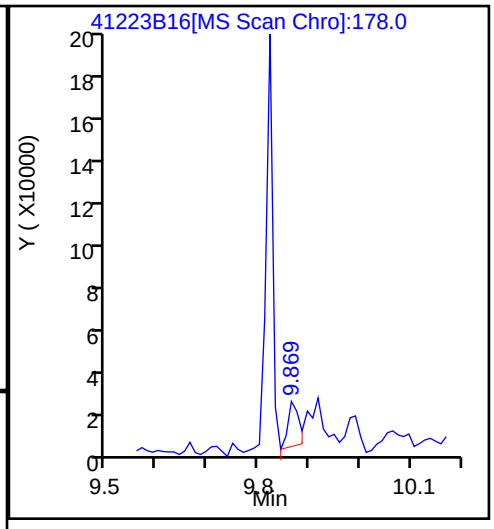
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

60 Anthracene





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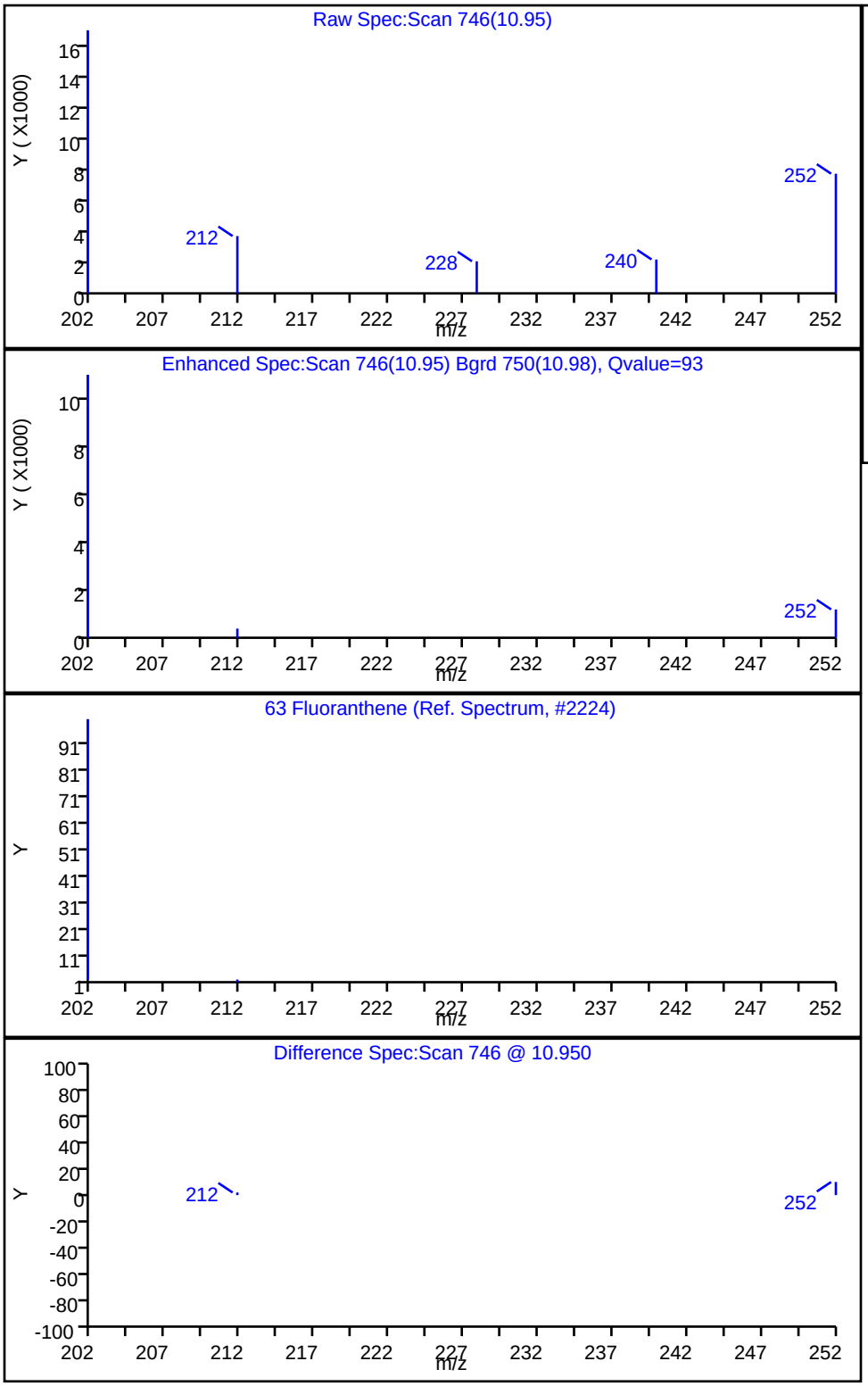
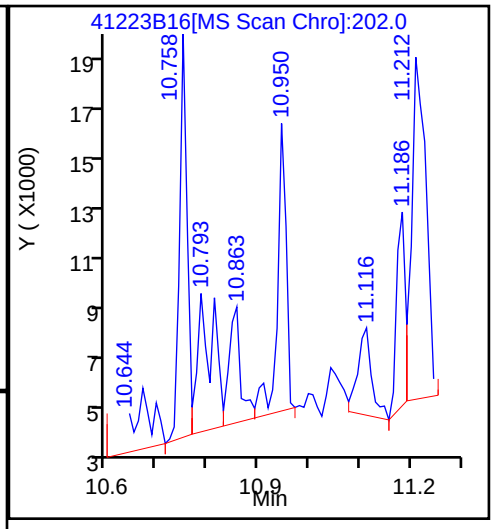
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

63 Fluoranthene





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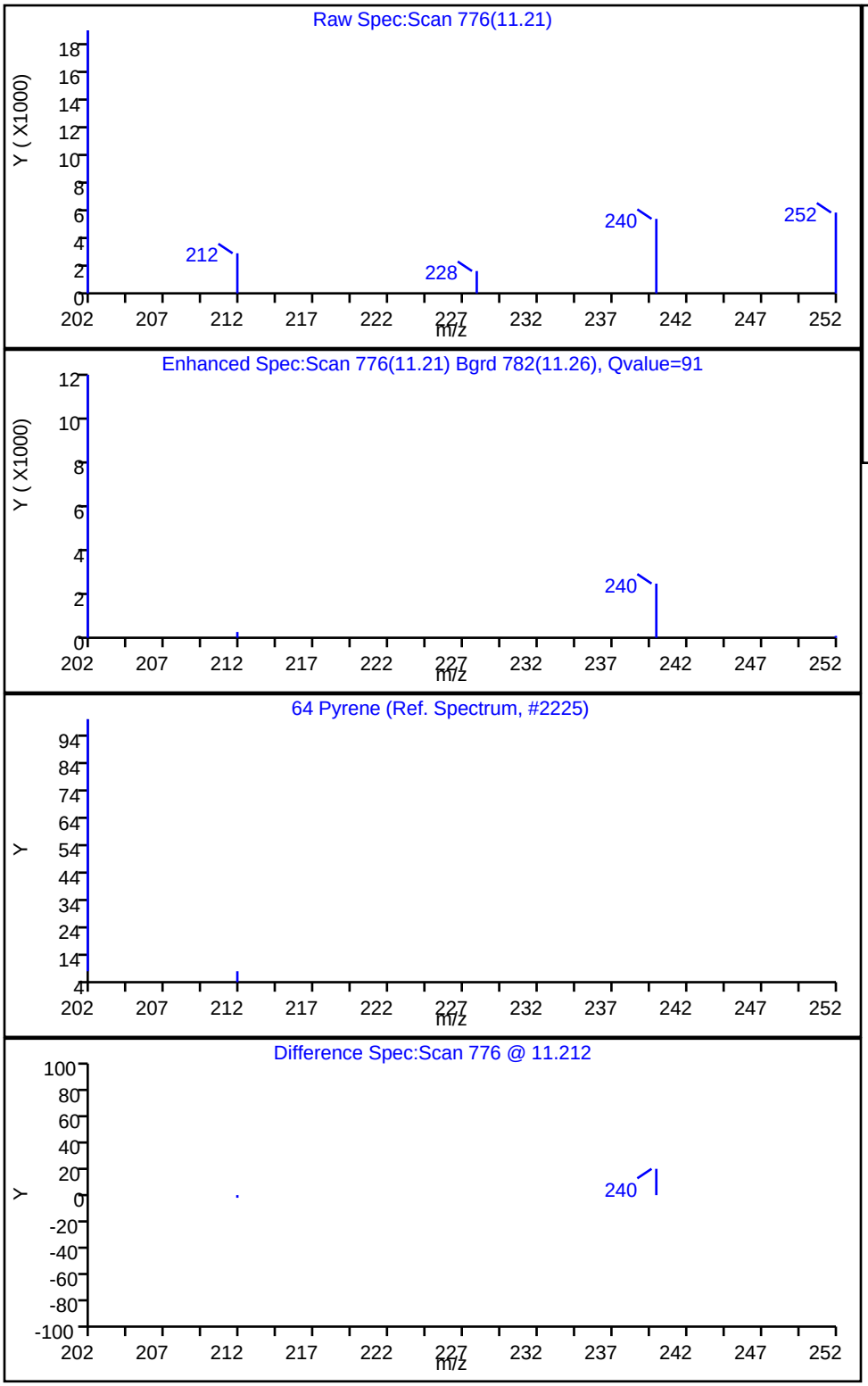
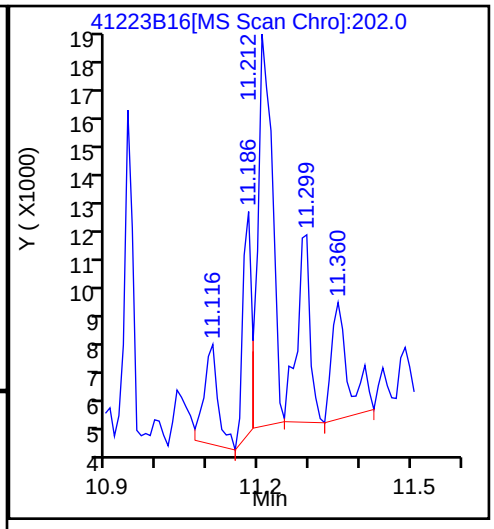
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

64 Pyrene





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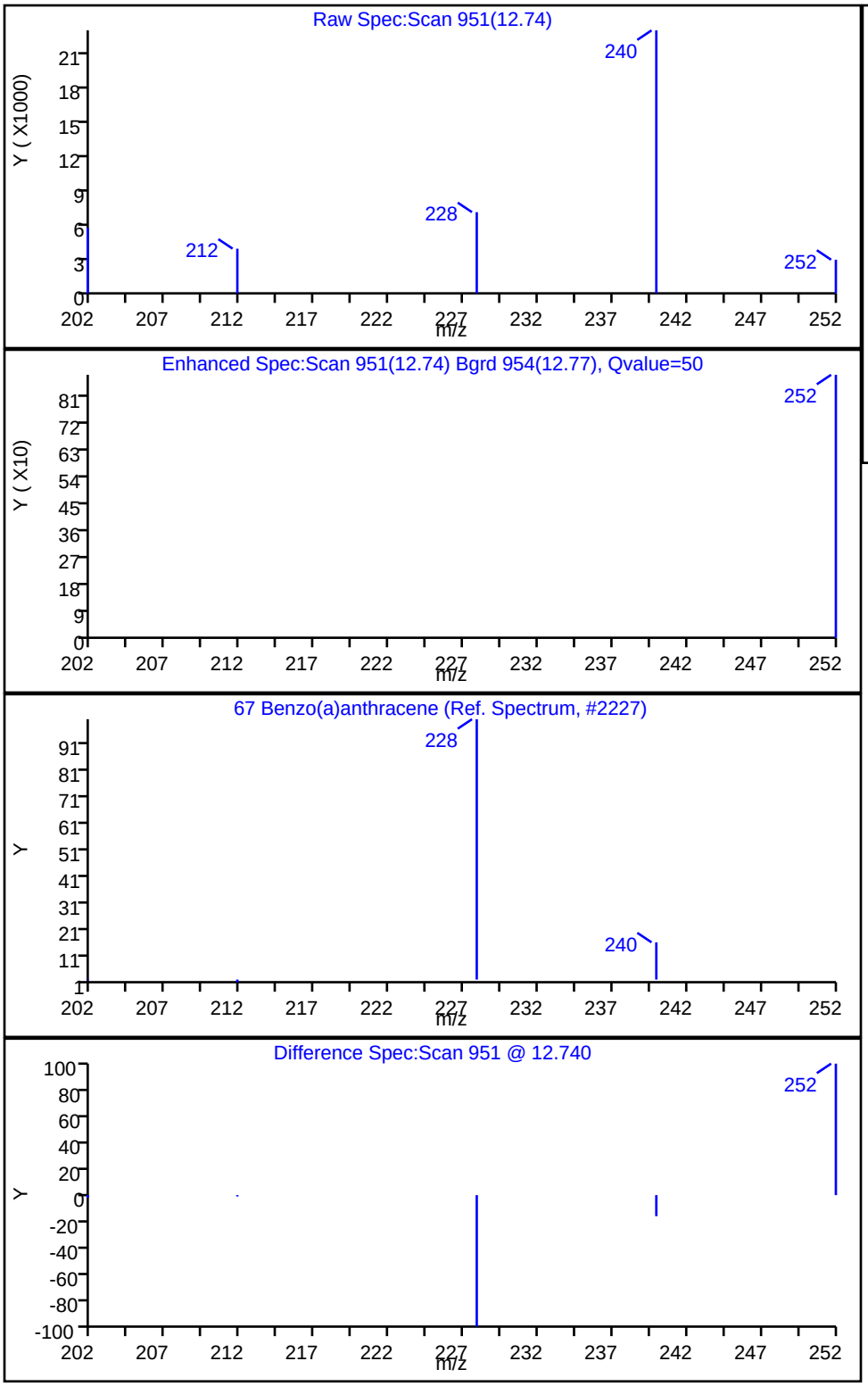
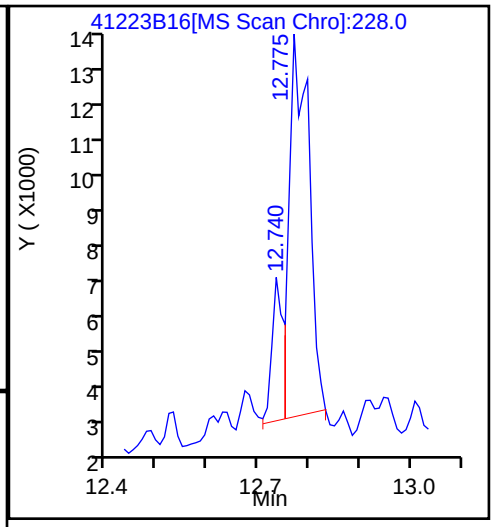
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

67 Benzo(a)anthracene





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Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B16.D		
Injection Date:	23-Dec-2015 16:27:30	Inst. ID:	msd4.i
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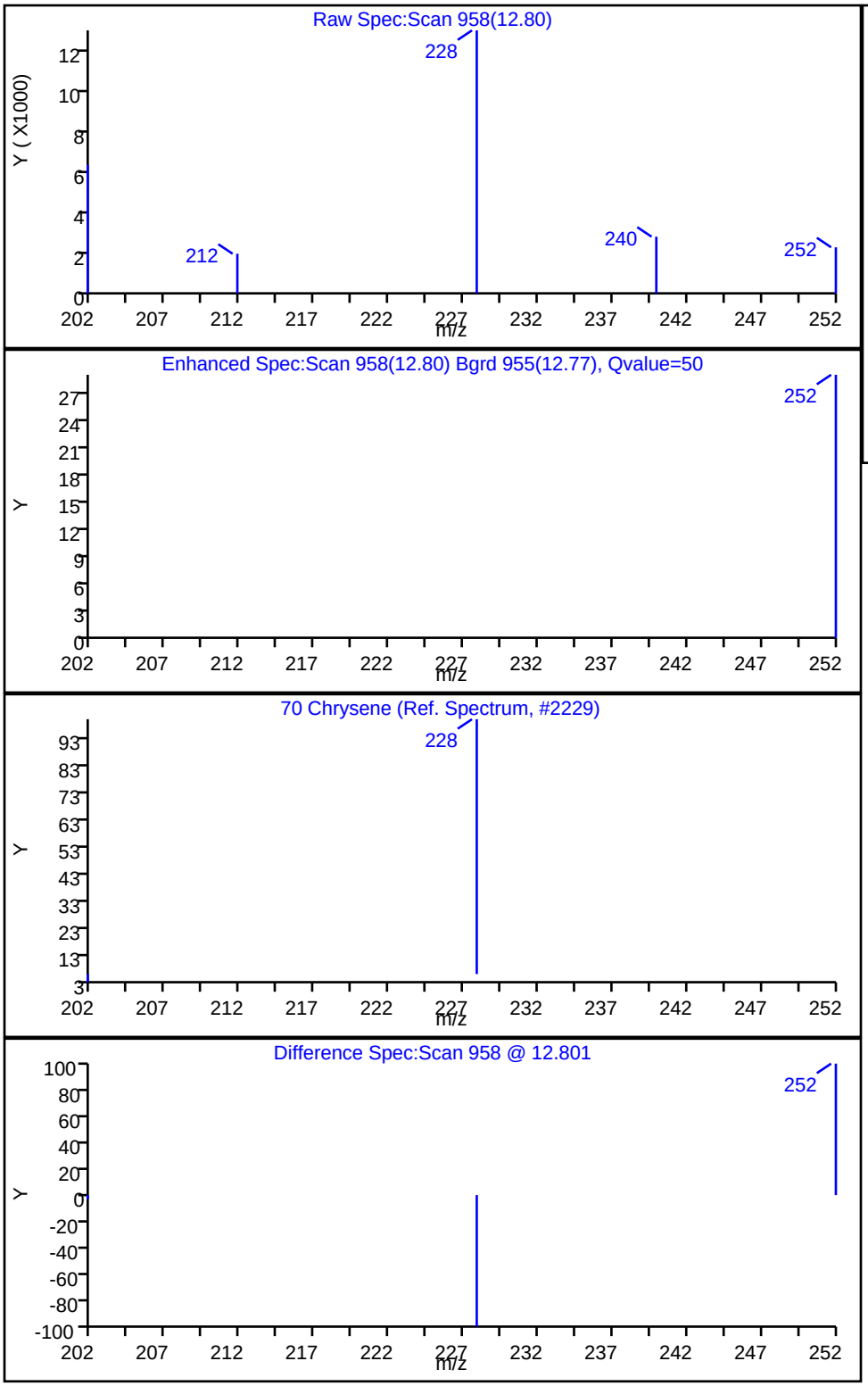
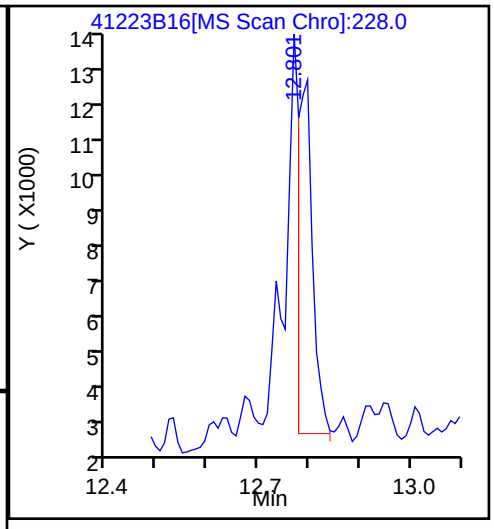
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene





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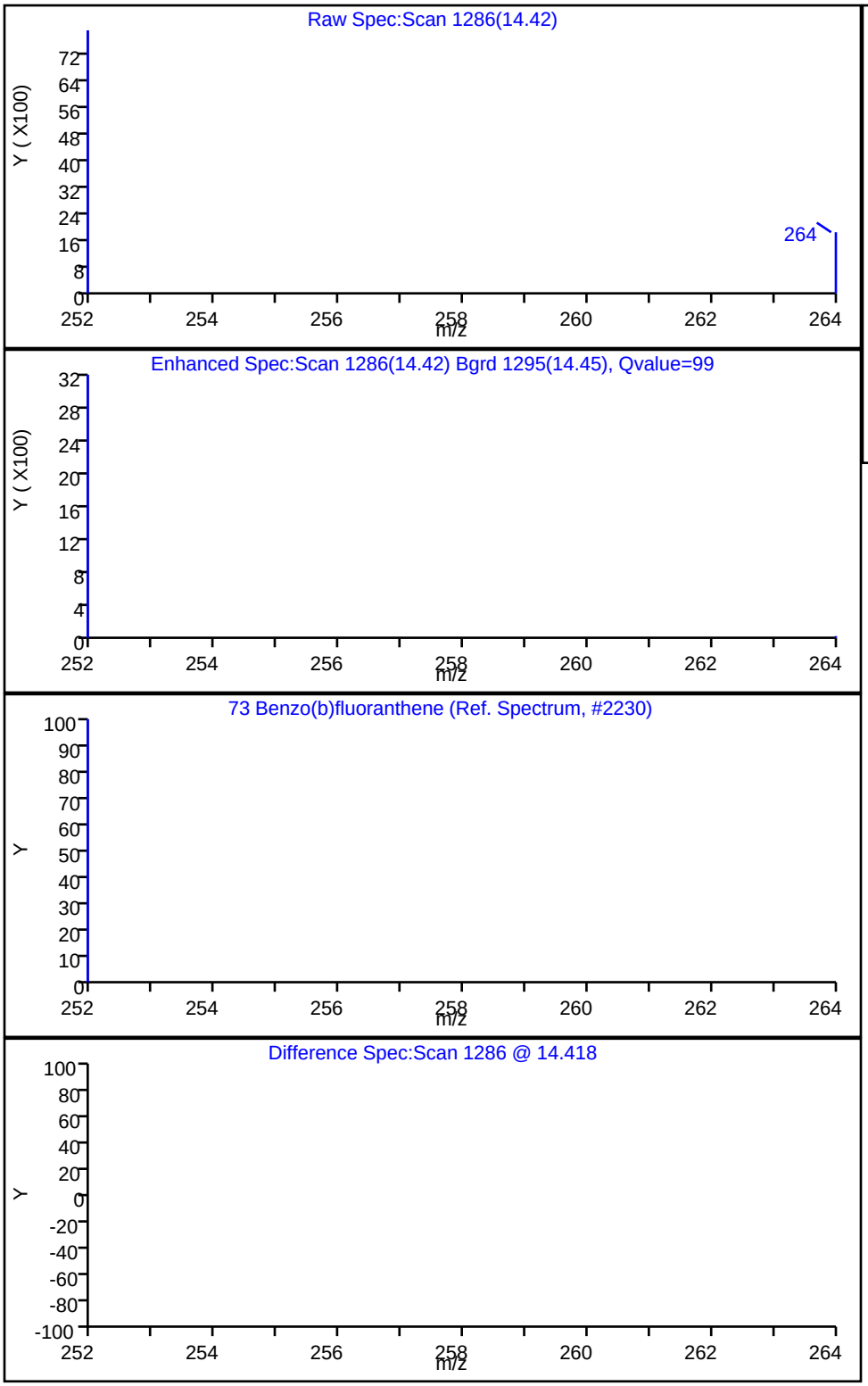
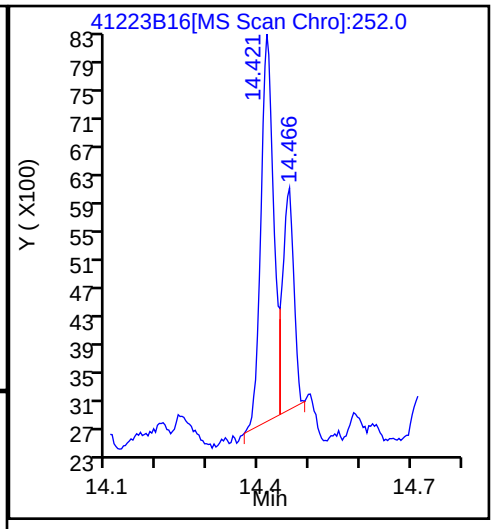
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

73 Benzo(b)fluoranthene





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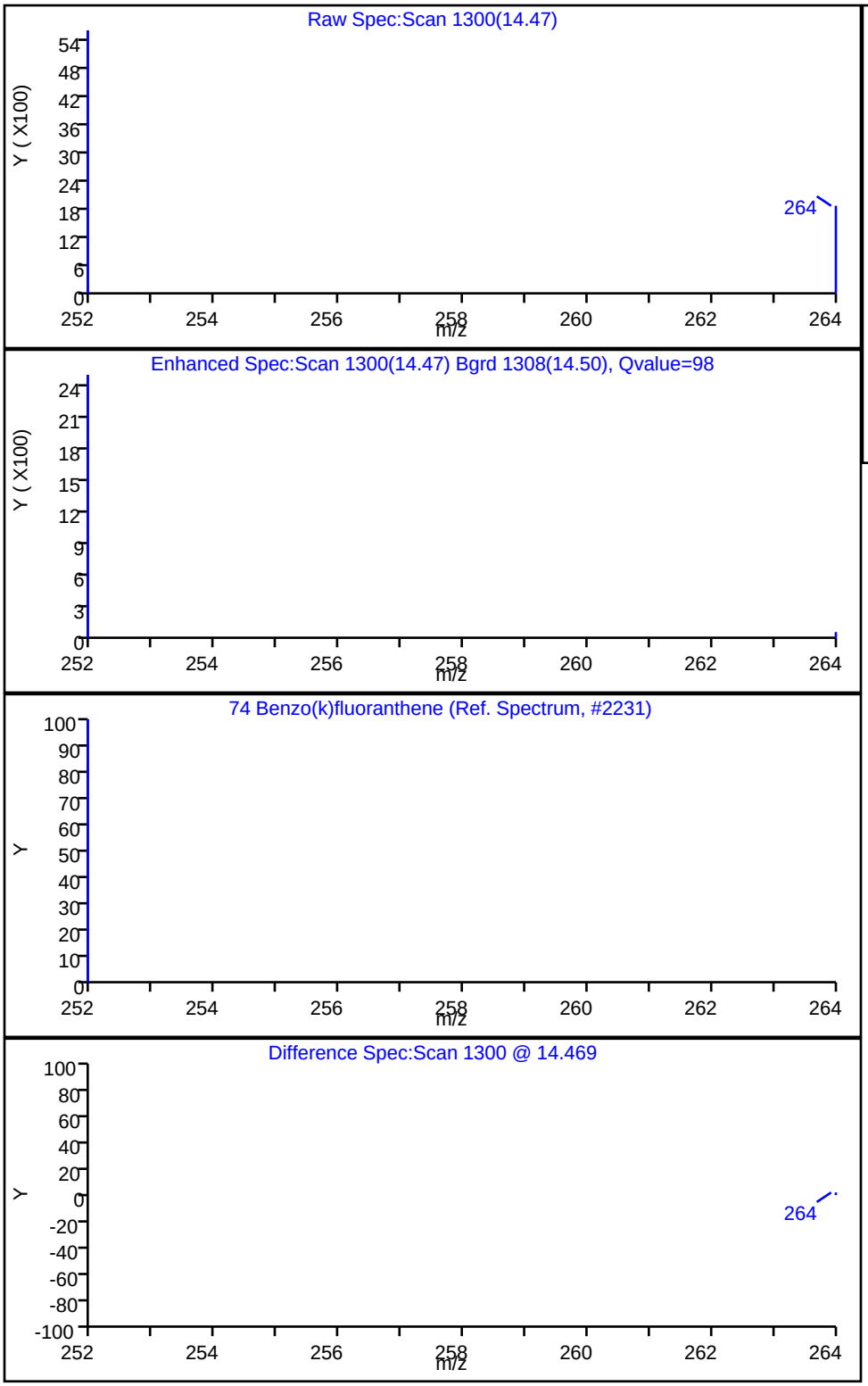
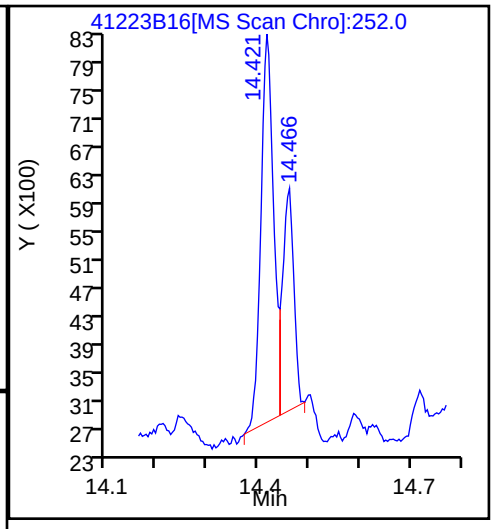
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

74 Benzo(k)fluoranthene





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Shealy Environmental Services

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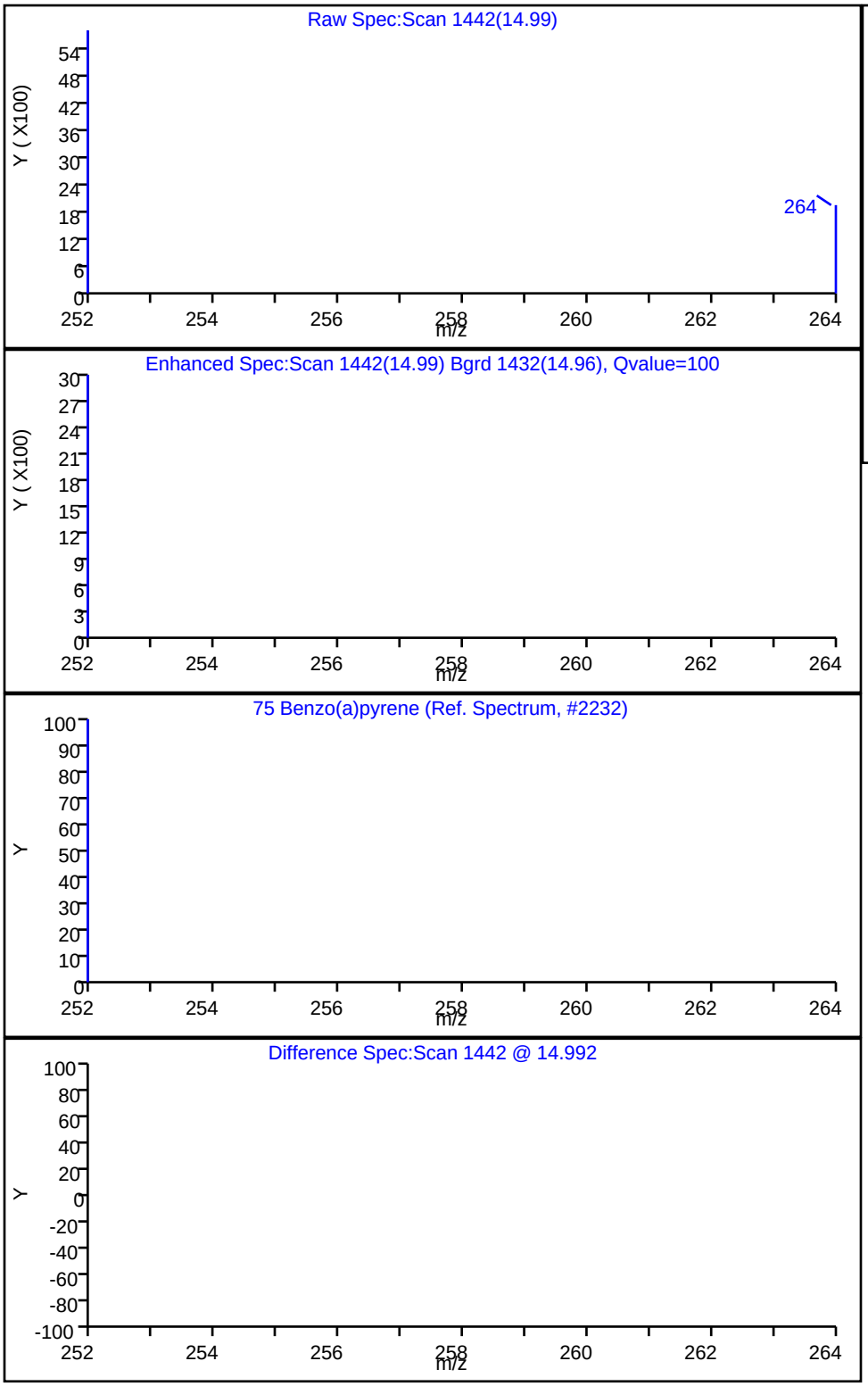
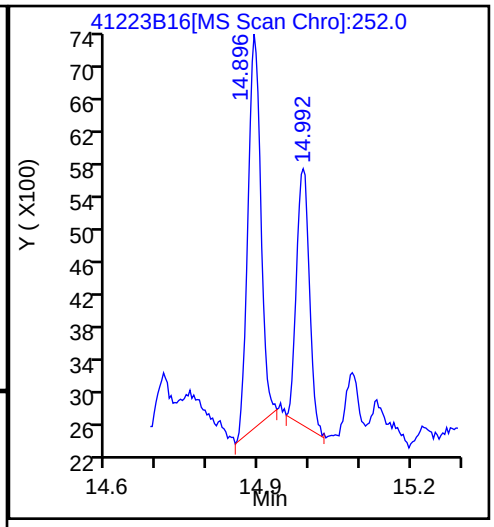
Client ID:	F6R26RX	Lab ID:	QL12004-007
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

75 Benzo(a)pyrene





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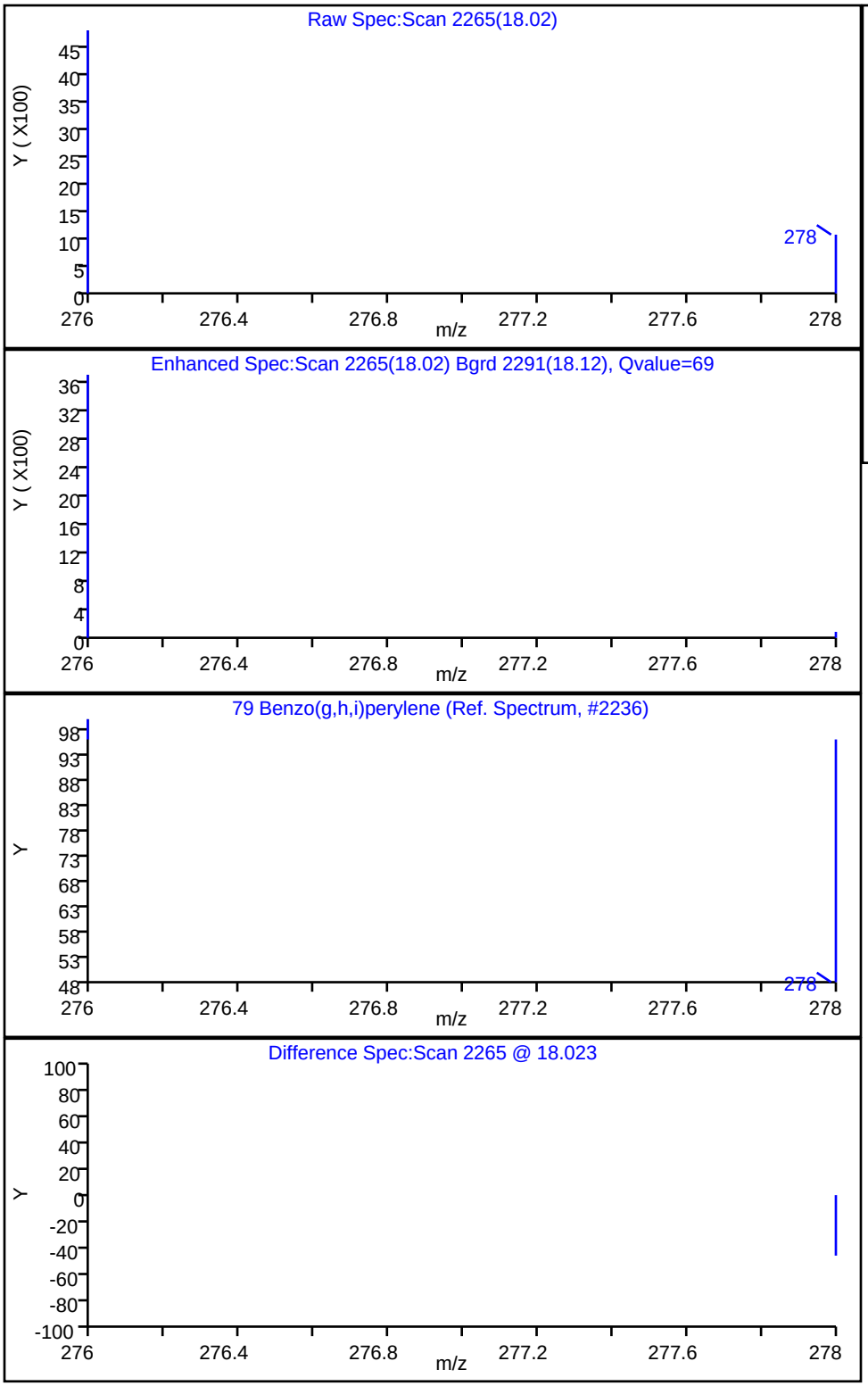
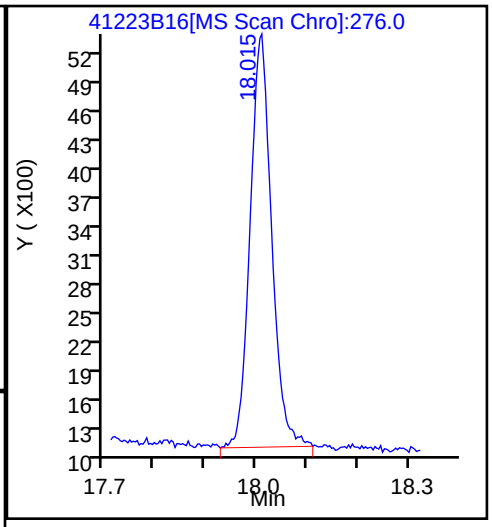
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B16.D		
Injection Date:	23-Dec-2015 16:27:30	Inst. ID:	msd4.i
Client ID:	F6R26RX	Lab ID:	QL12004-007
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

79 Benzo(g,h,i)perylene





Report Date: 04-Jan-2016 13:32:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

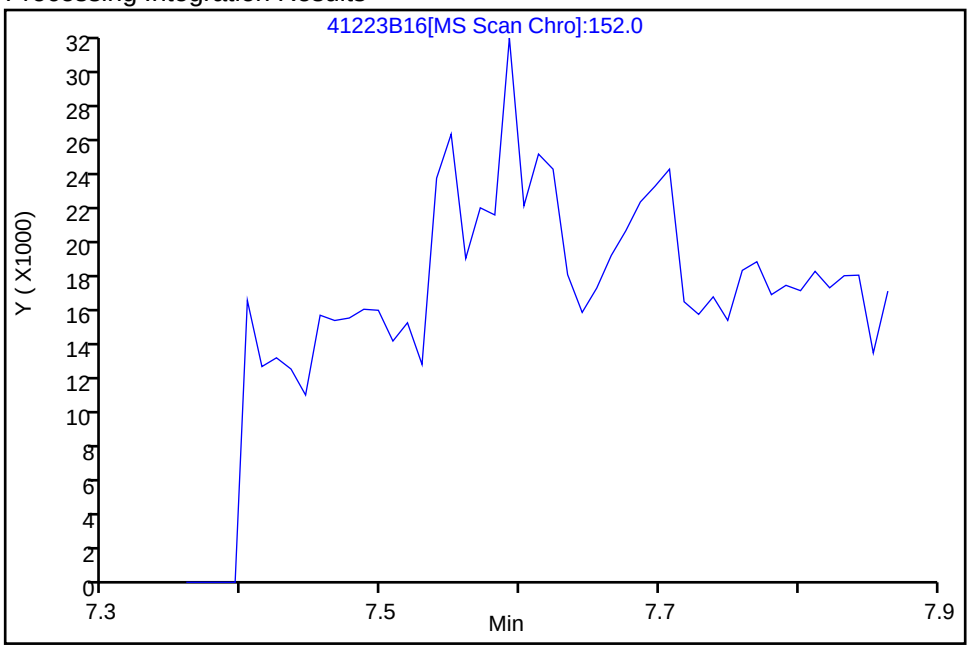
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B16.D		
Injection Date:	23-Dec-2015 16:27:30	Inst. ID:	msd4.i
Client ID:	F6R26RX	Lab ID:	QL12004-007
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

$ 115 2-Methylnapthalene-d10, CAS: 7297-45-2

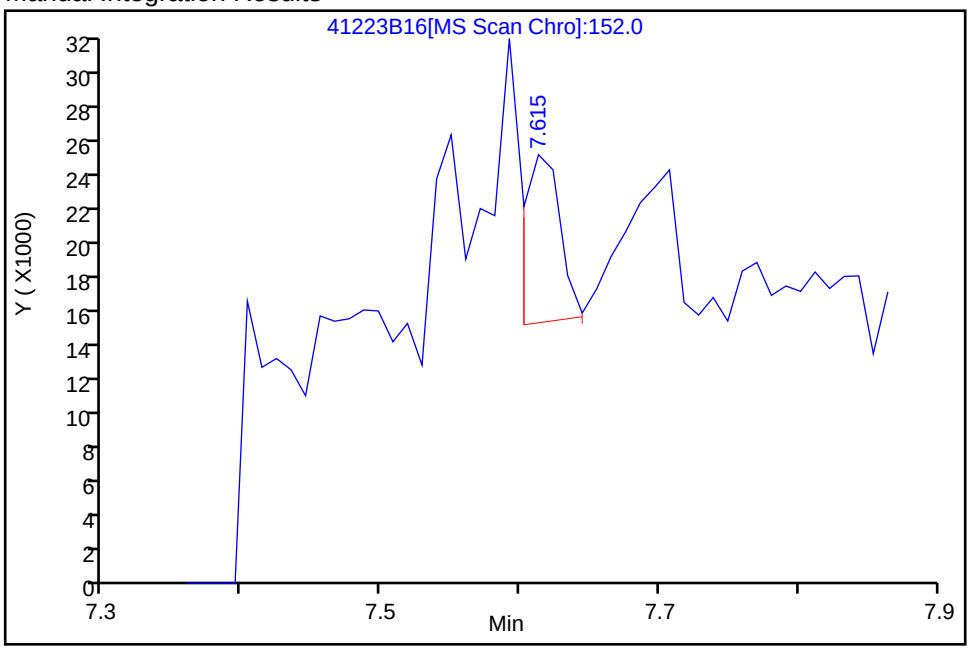
Processing Integration Results

Not Detected
7.615



Manual Integration Results

RT:	7.615
Area:	17655
Conc:	310.80
Conc Units:	ug/Kg



Data Editor: rbh, 23-Dec-2015 16:51:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 13:32:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

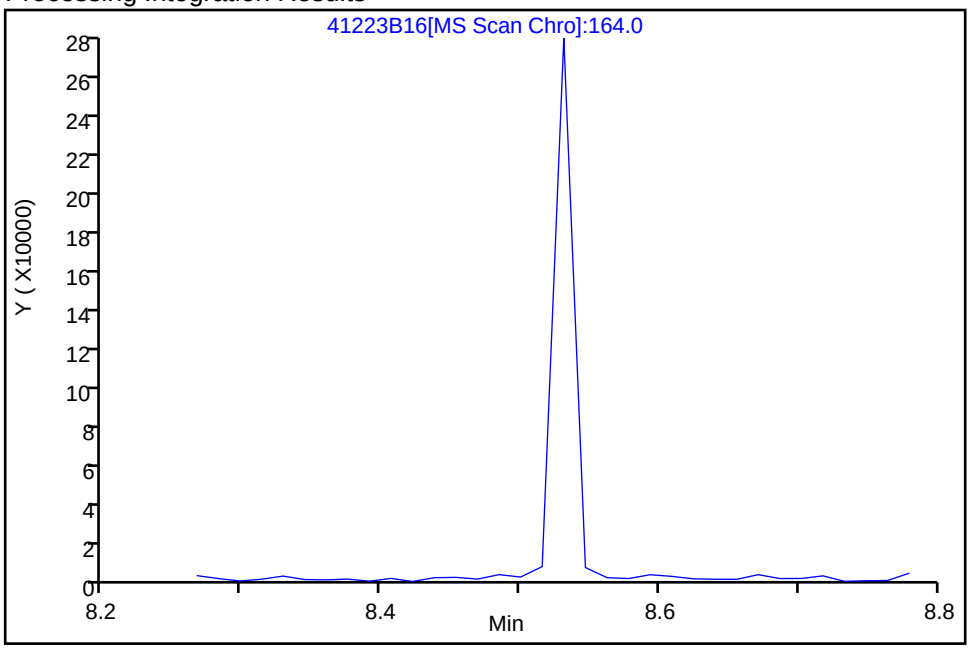
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B16.D		
Injection Date:	23-Dec-2015 16:27:30	Inst. ID:	msd4.i
Client ID:	F6R26RX	Lab ID:	QL12004-007
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 41 Acenaphthene-d10, CAS: 15067-26-2

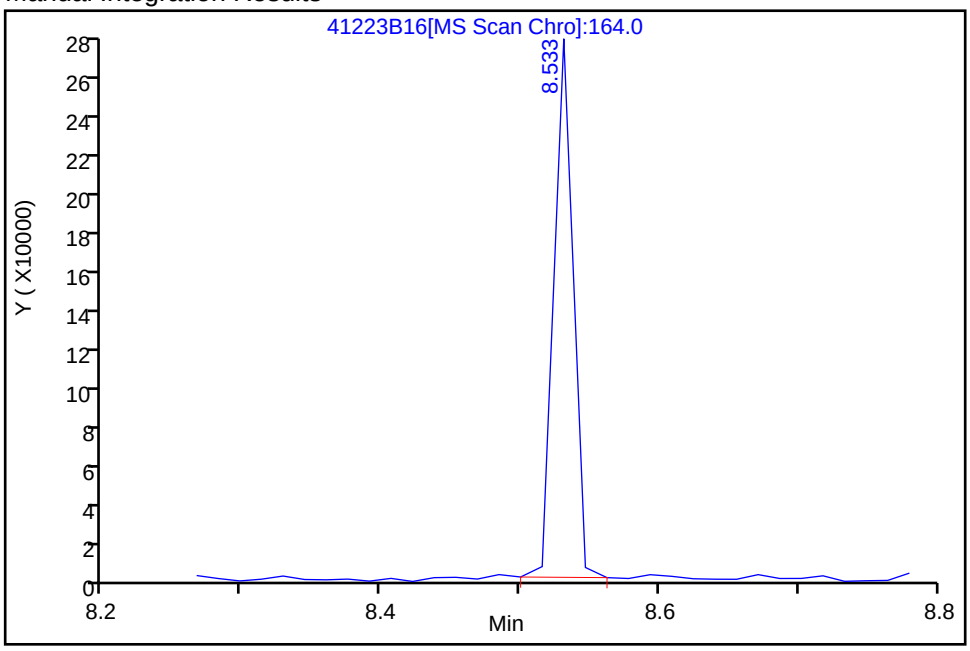
Processing Integration Results

Not Detected
8.533



Manual Integration Results

RT:	8.533
Area:	257295
Conc:	4634.99
Conc Units:	ug/Kg



Data Editor: rbh, 23-Dec-2015 16:52:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 13:32:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

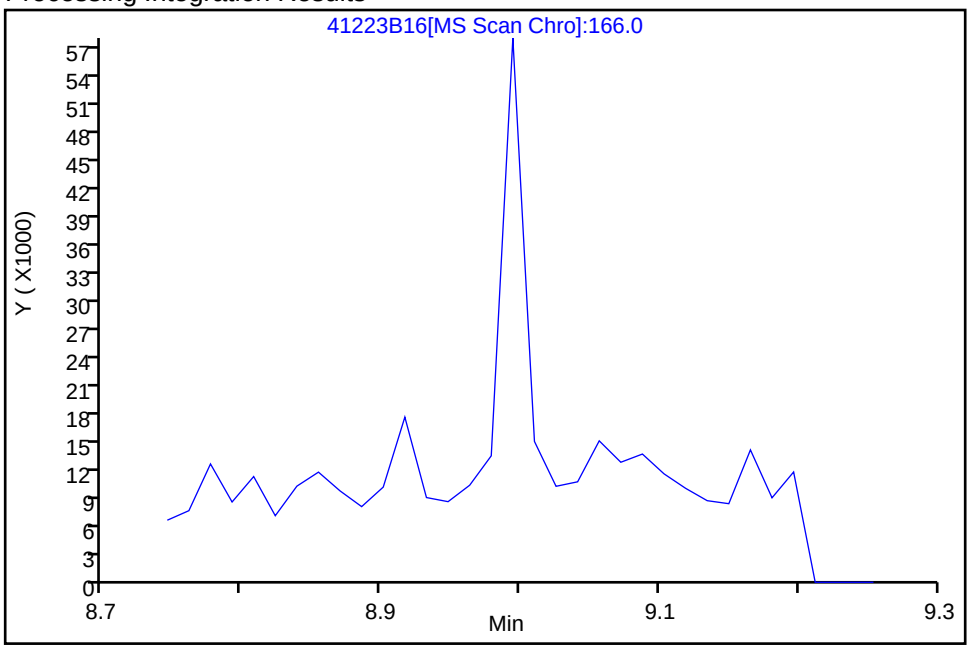
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B16.D		
Injection Date:	23-Dec-2015 16:27:30	Inst. ID:	msd4.i
Client ID:	F6R26RX	Lab ID:	QL12004-007
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

48 Fluorene, CAS: 86-73-7

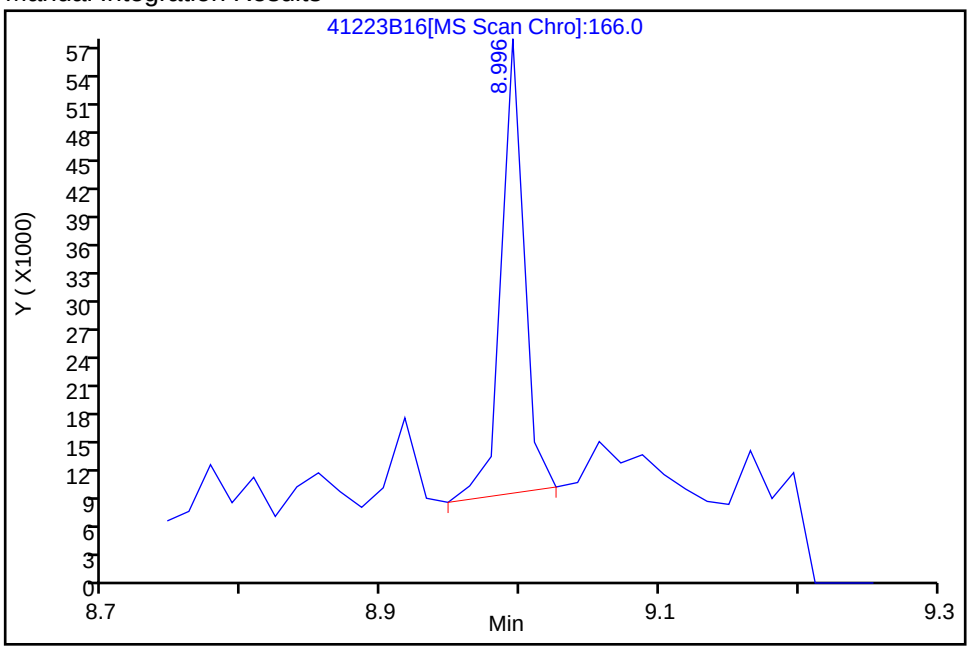
Not Detected
8.996

Processing Integration Results



Manual Integration Results

RT:	8.996
Area:	54613
Conc:	695.45
Conc Units:	ug/Kg



Data Editor: rbh, 23-Dec-2015 16:53:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 04-Jan-2016 13:32:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

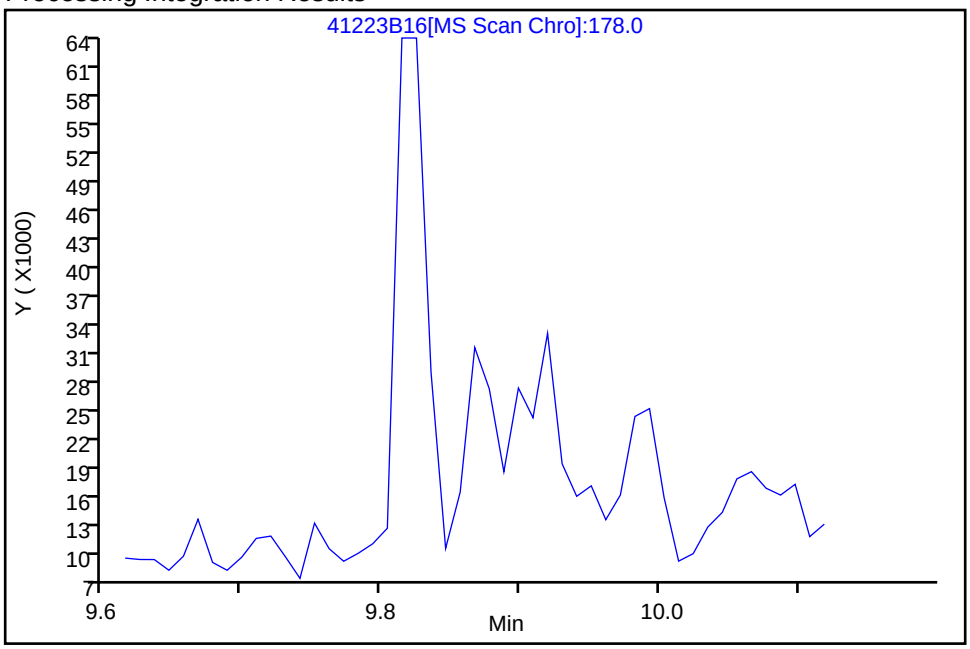
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B16.D		
Injection Date:	23-Dec-2015 16:27:30	Inst. ID:	msd4.i
Client ID:	F6R26RX	Lab ID:	QL12004-007
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

60 Anthracene, CAS: 120-12-7

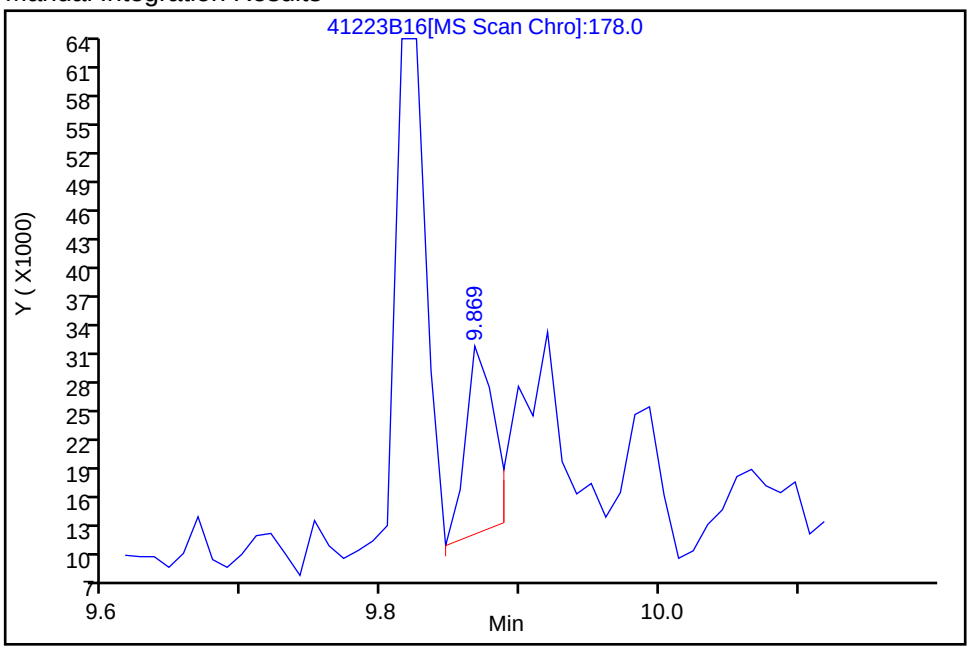
Not Detected
9.869

Processing Integration Results



Manual Integration Results

RT:	9.869
Area:	28083
Conc:	324.99
Conc Units:	ug/Kg



Data Editor: rbh, 23-Dec-2015 16:53:30
Audit Action: Mint
Audit Reason: SP

Report Date: 04-Jan-2016 13:32:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

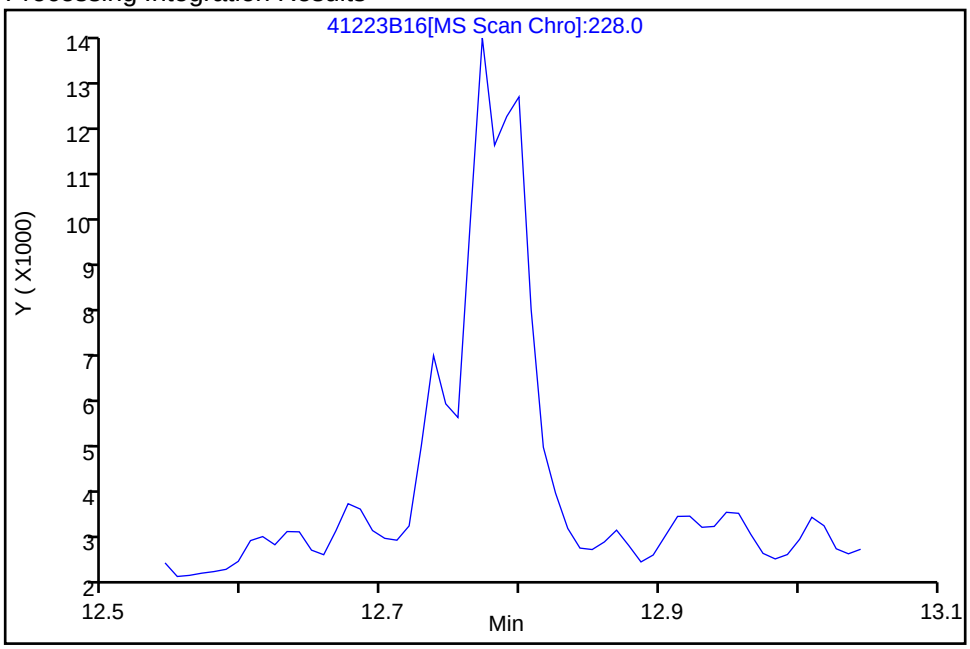
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B16.D		
Injection Date:	23-Dec-2015 16:27:30	Inst. ID:	msd4.i
Client ID:	F6R26RX	Lab ID:	QL12004-007
Sample Info:	4122315B, QL12004-007		
Injection Vol.	2.00 uL	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene, CAS: 218-01-9

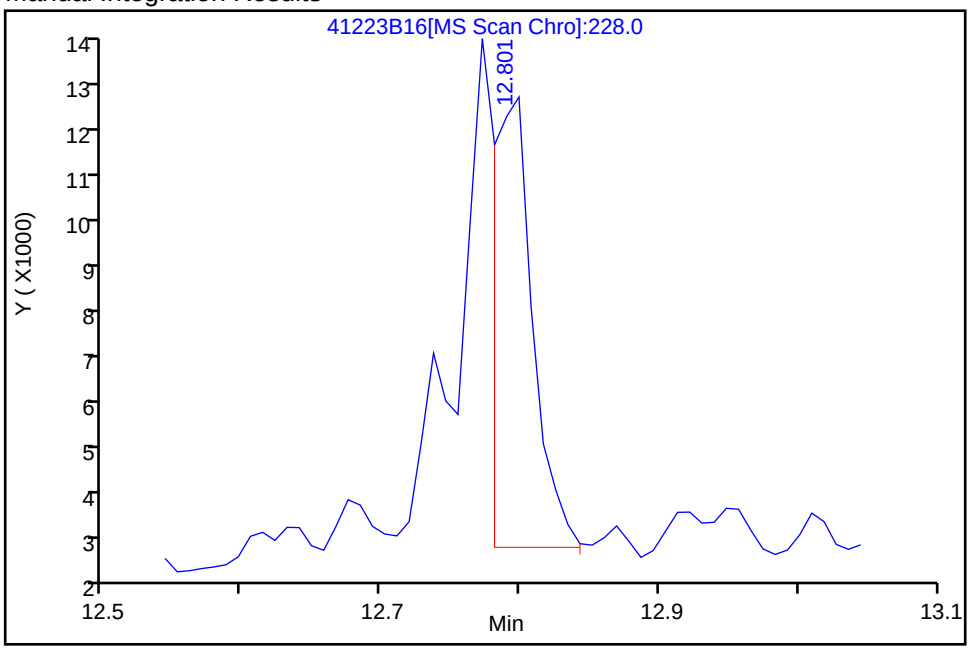
Not Detected
12.801

Processing Integration Results



Manual Integration Results

RT:	12.801
Area:	18725
Conc:	211.20
Conc Units:	ug/Kg



Data Editor: rbh, 23-Dec-2015 16:54:30
Audit Action: Mint
Audit Reason: SP

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R27

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-008
Sample wt/vol: 30.5 (g/mL) g
Lab File ID: 4122112
% Solids: 85.6
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	39	U
91-20-3	Naphthalene	39	U
91-57-6	2-Methylnaphthalene	24	J B
208-96-8	Acenaphthylene	39	U
83-32-9	Acenaphthene	39	U
86-73-7	Fluorene	39	U
87-86-5	Pentachlorophenol	76	U
85-01-8	Phenanthrene	39	U
120-12-7	Anthracene	39	U
206-44-0	Fluoranthene	39	U
129-00-0	Pyrene	39	U
56-55-3	Benzo(a)anthracene	39	U
218-01-9	Chrysene	39	U
205-99-2	Benzo(b)fluoranthene	39	U
207-08-9	Benzo(k)fluoranthene	39	U
50-32-8	Benzo(a)pyrene	39	U
193-39-5	Indeno(1,2,3-cd)pyrene	39	U
53-70-3	Dibenzo(a,h)anthracene	39	U
191-24-2	Benzo(g,h,i)perylene	39	U
132-64-9	Dibenzofuran	39	U
118-74-1	Hexachlorobenzene	39	U
87-68-3	Hexachlorobutadiene	76	U
111-44-4	bis(2-Chloroethyl)ether	76	U
108-60-1	2,2'-Oxybis(1-chloropropane)	76	U
621-64-7	N-Nitrosodi-n-propylamine	39	U
67-72-1	Hexachloroethane	76	U
98-95-3	Nitrobenzene	76	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R27

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-008
Sample wt/vol: 30.5 (g/mL) g
Lab File ID: 4122112
% Solids: 85.6
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	76	U
88-06-2	2,4,6-Trichlorophenol	76	U
92-52-4	1,1'-Biphenyl	39	U
606-20-2	2,6-Dinitrotoluene	39	U
51-28-5	2,4-Dinitrophenol	760	U
121-14-2	2,4-Dinitrotoluene	39	U
534-52-1	4,6-Dinitro-2-methylphenol	76	U
95-94-3	1,2,4,5-Tetrachlorobenzene	76	U
1912-24-9	Atrazine	76	U
91-94-1	3,3'-Dichlorobenzidine	76	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122112.D		
Lab Sample ID:	QL12004-008	Client Sample ID:	F6R27
Injection Date:	21-Dec-2015 13:22:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, QL12004-008		
Misc. Info:	92513 20X		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544.m		
Method Date:	04-Jan-2016 15:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	10
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.500	Weight of sample extracted (g)
M	14.400	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	21-Dec-2015 14:33:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0		3.762		ND			
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.736	5.727	0.009	11840	0.04089	31.321	eR
5 bis(2-Chloroethyl)Ether	93.0		5.771		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	107291	0.40000	306.42	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.186		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.290		ND			
15 Hexachloroethane	117.0		6.436		ND			
$ 16 Nitrobenzene-d5	128.0		6.457		ND			
17 Nitrobenzene	77.0		6.467		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.943	6.926	0.017	8036	0.02778	21.278	eR
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	500991	0.40000	306.42	
24 Naphthalene	128.0		7.075		ND			
25 4-Chloroaniline	127.0		7.075		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0		7.615		ND			
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	23992	0.03127	23.956	e
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.317		ND			
38 Acenaphthylene	152.0		8.425		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	199942	0.40000	306.42	M

Report Date: 04-Jan-2016 15:15:09 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122112.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.657		ND			
45 Dibenzofuran	168.0		8.718		ND			
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0		9.484		ND			
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.817	9.807	0.010	387244	0.40000	306.42	
59 Phenanthrene	178.0		9.828		ND			
60 Anthracene	178.0		9.880		ND			
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	13416	0.01314	10.065	eR
63 Fluoranthene	202.0		10.959		ND			
64 Pyrene	202.0		11.221		ND			
68 3,3'-Dichlorobenzidine	252.0		12.661		ND			
67 Benzo(a)anthracene	228.0		12.748		ND			
* 69 Chrysene-d12	240.0	12.766	12.766	0.000	437487	0.40000	306.42	
70 Chrysene	228.0		12.810		ND			
73 Benzo(b)fluoranthene	252.0		14.429		ND			
74 Benzo(k)fluoranthene	252.0		14.473		ND			
75 Benzo(a)pyrene	252.0		15.000		ND			
* 76 Perylene-d12	264.0	15.103	15.103	0.000	380479	0.40000	306.42	
77 Indeno(1,2,3-cd)pyrene	276.0		17.345		ND			
78 Dibenzo(a,h)anthracene	278.0		17.360		ND			
79 Benzo(g,h,i)perylene	276.0		18.030		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

R - Spike/Surrogte Fails %Recovery Test

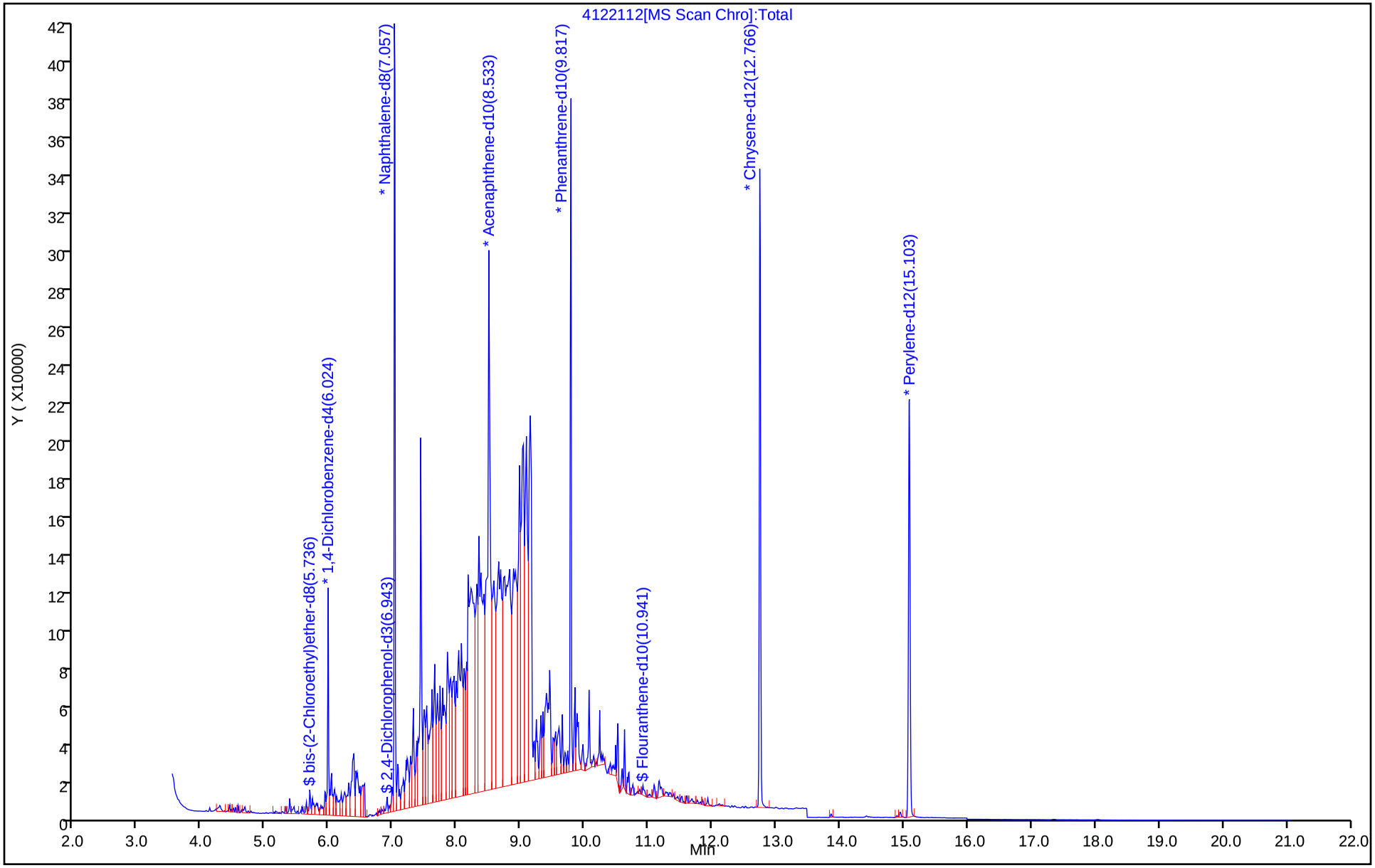
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 04-Jan-2016 15:15:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122112.D				
Injection Date:	21-Dec-2015 13:22:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R27	Lab ID:	QL12004-008		
Sample Info:	4122115, QL12004-008				
Injection Vol.	2.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

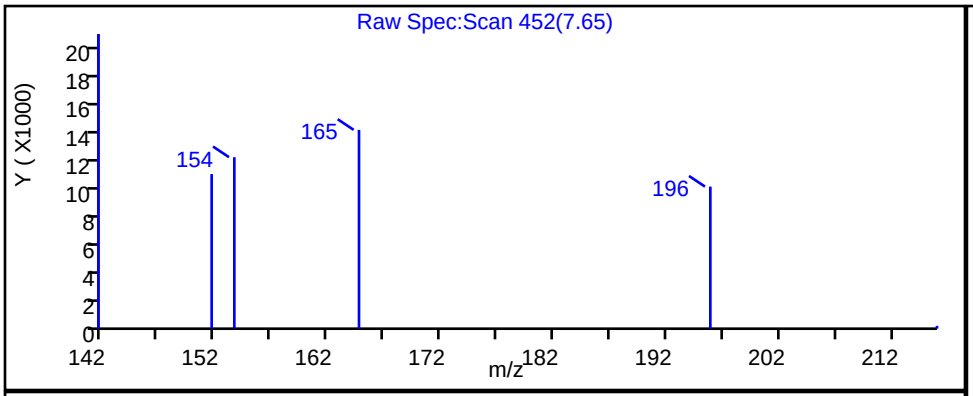


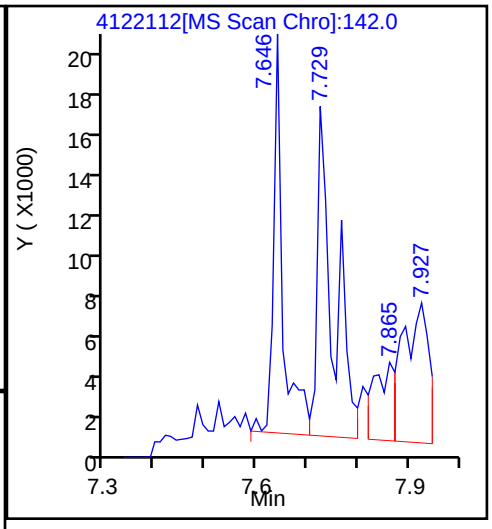
Report Date: 04-Jan-2016 15:15:09 AIM Revision: 1.0 26-May-2015 13:41:26

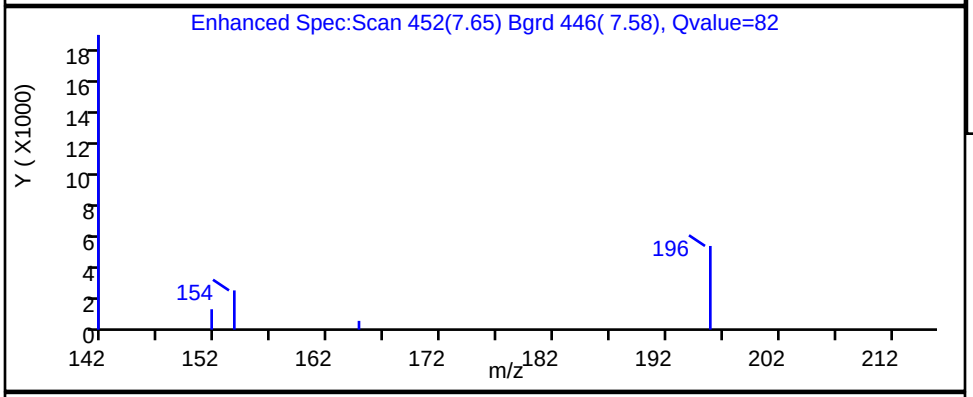
Shealy Environmental Services

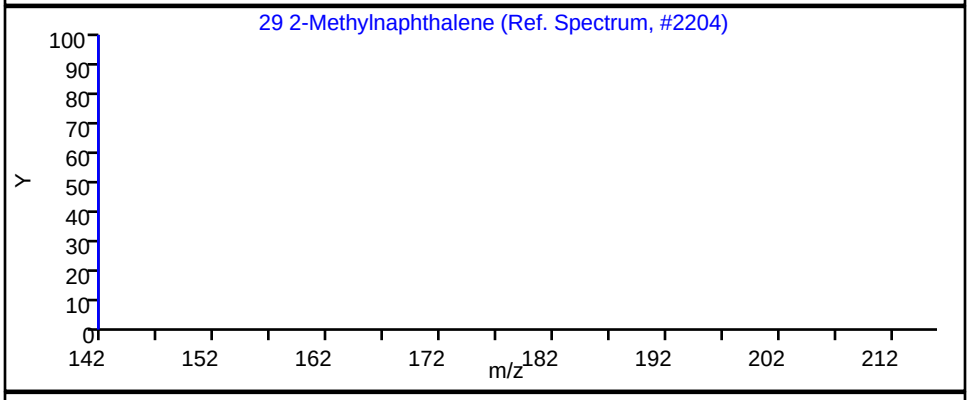
Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122112.D		
Injection Date:	21-Dec-2015 13:22:30	Inst. ID:	msd4.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	4122115, QL12004-008		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

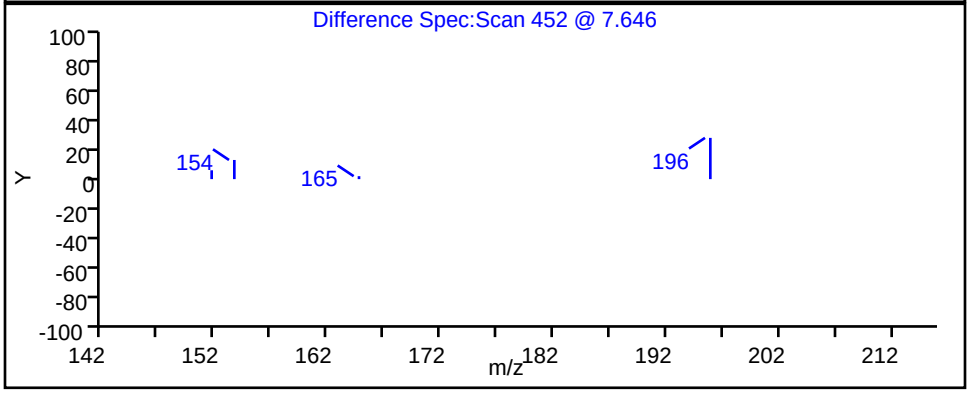
29 2-Methylnaphthalene











Report Date: 04-Jan-2016 15:15:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

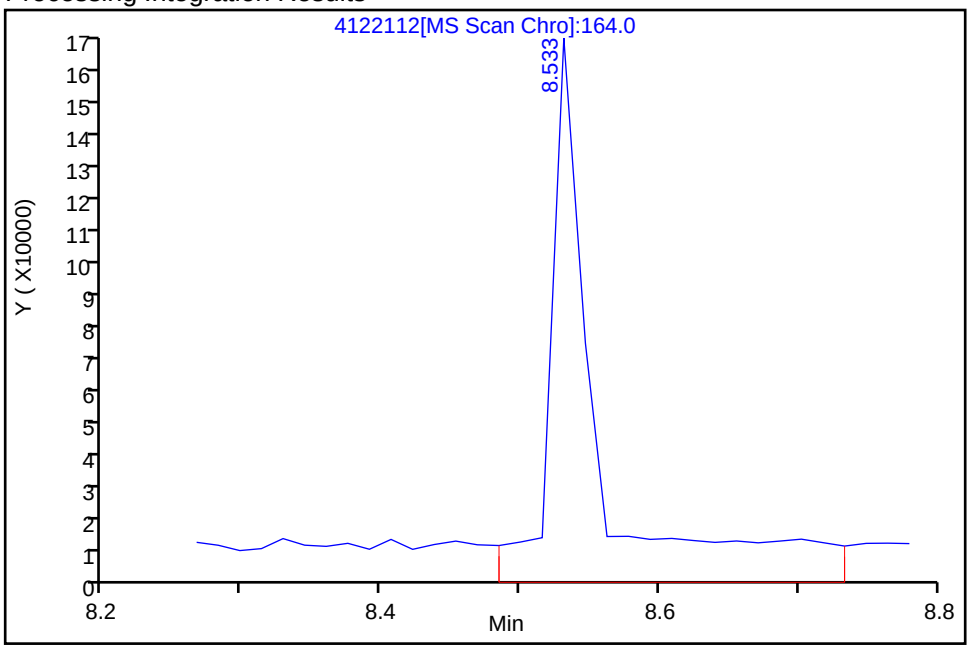
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122112.D		
Injection Date:	21-Dec-2015 13:22:30	Inst. ID:	msd4.i
Client ID:	F6R27	Lab ID:	QL12004-008
Sample Info:	4122115, QL12004-008		
Injection Vol.	2.00 uL	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

* 41 Acenaphthene-d10, CAS: 15067-26-2

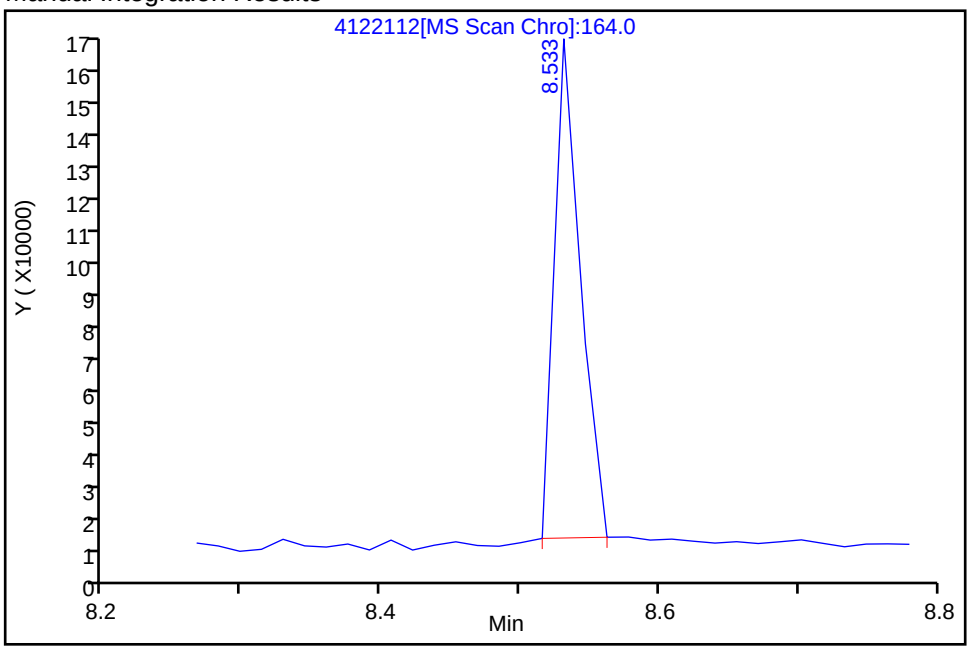
Processing Integration Results

RT: 8.533
Area: 340495
Conc: 153.21
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 8.533
Area: 199942
Conc: 306.42
Conc Units: ug/Kg



Data Editor: rbh, 21-Dec-2015 14:33:30
Audit Action: Mint
Audit Reason: IAI

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R28

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-009
Sample wt/vol: 30.3 (g/mL) g
Lab File ID: 4122113
% Solids: 84.5
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	40	U
91-20-3	Naphthalene	40	U
91-57-6	2-Methylnaphthalene	40	U
208-96-8	Acenaphthylene	40	U
83-32-9	Acenaphthene	40	U
86-73-7	Fluorene	40	U
87-86-5	Pentachlorophenol	77	U
85-01-8	Phenanthrene	40	U
120-12-7	Anthracene	40	U
206-44-0	Fluoranthene	40	U
129-00-0	Pyrene	40	U
56-55-3	Benzo(a)anthracene	40	U
218-01-9	Chrysene	40	U
205-99-2	Benzo(b)fluoranthene	40	U
207-08-9	Benzo(k)fluoranthene	40	U
50-32-8	Benzo(a)pyrene	40	U
193-39-5	Indeno(1,2,3-cd)pyrene	40	U
53-70-3	Dibenzo(a,h)anthracene	40	U
191-24-2	Benzo(g,h,i)perylene	40	U
132-64-9	Dibenzofuran	40	U
118-74-1	Hexachlorobenzene	40	U
87-68-3	Hexachlorobutadiene	77	U
111-44-4	bis(2-Chloroethyl)ether	77	U
108-60-1	2,2'-Oxybis(1-chloropropane)	77	U
621-64-7	N-Nitrosodi-n-propylamine	40	U
67-72-1	Hexachloroethane	77	U
98-95-3	Nitrobenzene	77	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R28

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QL12004-009
Sample wt/vol: 30.3 (g/mL) g
Lab File ID: 4122113
% Solids: 84.5
Date Received: 12/12/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/21/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 20.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	77	U
88-06-2	2,4,6-Trichlorophenol	77	U
92-52-4	1,1'-Biphenyl	40	U
606-20-2	2,6-Dinitrotoluene	40	U
51-28-5	2,4-Dinitrophenol	770	U
121-14-2	2,4-Dinitrotoluene	40	U
534-52-1	4,6-Dinitro-2-methylphenol	77	U
95-94-3	1,2,4,5-Tetrachlorobenzene	77	U
1912-24-9	Atrazine	77	U
91-94-1	3,3'-Dichlorobenzidine	77	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122113.D		
Lab Sample ID:	QL12004-009	Client Sample ID:	F6R28
Injection Date:	21-Dec-2015 13:48:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, QL12004-009		
Misc. Info:	92513 20X		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\SIM2544.m		
Method Date:	04-Jan-2016 15:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	11
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.300	Weight of sample extracted (g)
M	15.500	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	04-Jan-2016 15:13:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.779	3.762	0.017	171	0.000900	0.70323	e
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.736	5.727	0.009	1183	0.003312	2.5868	e
5 bis(2-Chloroethyl)Ether	93.0		5.771		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	132356	0.40000	312.46	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.186		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.290		ND			
15 Hexachloroethane	117.0		6.436		ND			
$ 16 Nitrobenzene-d5	128.0		6.457		ND			
17 Nitrobenzene	77.0		6.467		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.943	6.926	0.017	2494	0.006926	5.4104	e
* 23 Naphthalene-d8	136.0	7.066	7.057	0.009	623552	0.40000	312.46	
24 Naphthalene	128.0		7.075		ND			
25 4-Chloroaniline	127.0		7.075		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.625	7.615	0.010	4517	0.005239	4.0926	e
29 2-Methylnaphthalene	142.0		7.646		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.317		ND			
38 Acenaphthylene	152.0		8.425		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	238961	0.40000	312.46	

Report Date: 04-Jan-2016 15:15:09 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122113.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.657		ND			
45 Dibenzofuran	168.0		8.718		ND			
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0		9.484		ND			
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.817	9.807	0.010	491662	0.40000	312.46	
59 Phenanthrene	178.0		9.828		ND			
60 Anthracene	178.0		9.880		ND			
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	3567	0.002751	2.1493	e
63 Fluoranthene	202.0		10.959		ND			
64 Pyrene	202.0		11.221		ND			
68 3,3'-Dichlorobenzidine	252.0		12.661		ND			
67 Benzo(a)anthracene	228.0		12.748		ND			
* 69 Chrysene-d12	240.0	12.775	12.766	0.009	559126	0.40000	312.46	
70 Chrysene	228.0		12.810		ND			
73 Benzo(b)fluoranthene	252.0		14.429		ND			
74 Benzo(k)fluoranthene	252.0		14.473		ND			
75 Benzo(a)pyrene	252.0		15.000		ND			
* 76 Perylene-d12	264.0	15.103	15.103	0.000	482128	0.40000	312.46	
77 Indeno(1,2,3-cd)pyrene	276.0		17.345		ND			
78 Dibenzo(a,h)anthracene	278.0		17.360		ND			
79 Benzo(g,h,i)perylene	276.0		18.030		ND			

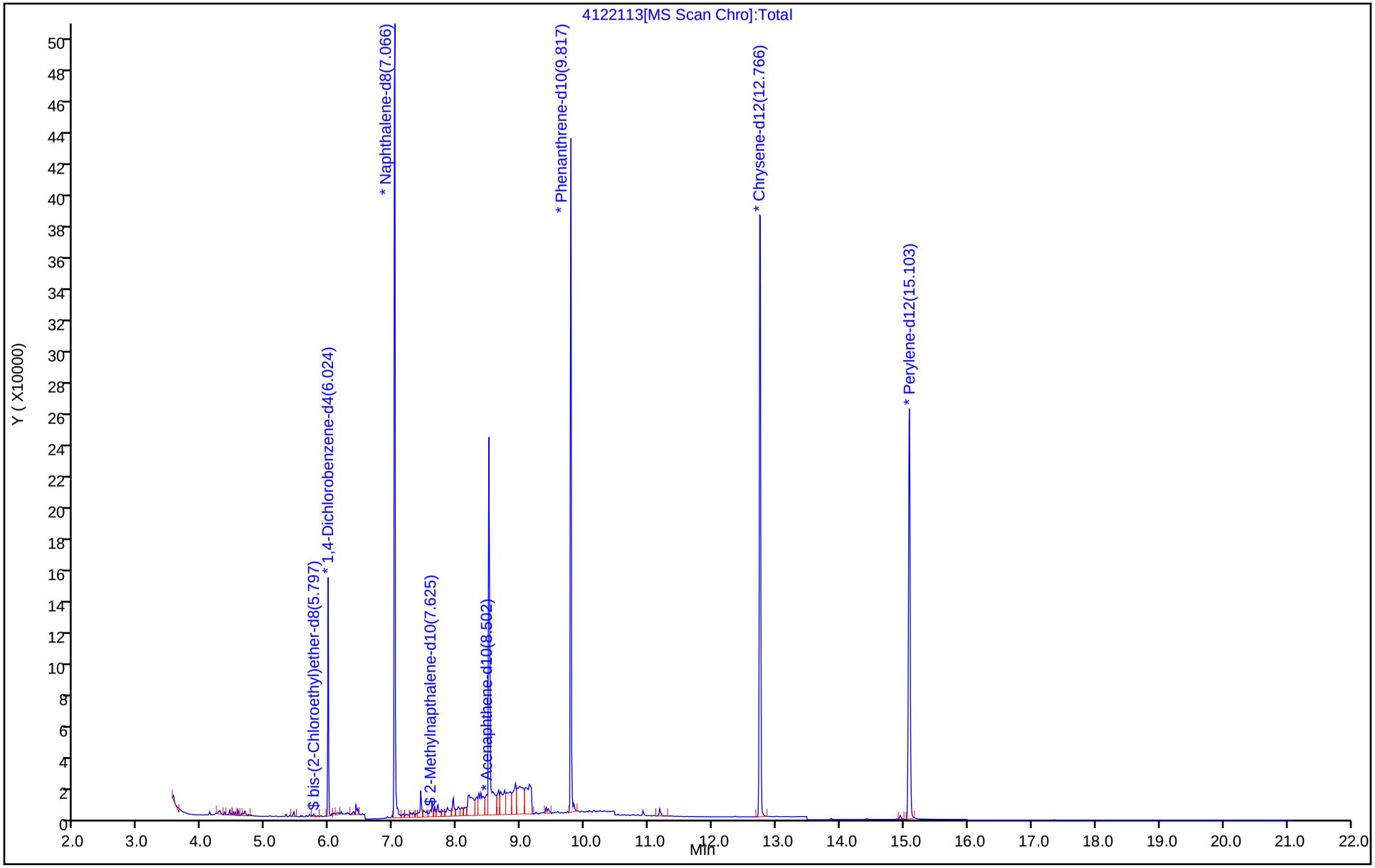
QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122113.D				
Injection Date:	21-Dec-2015 13:48:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R28	Lab ID:	QL12004-009		
Sample Info:	4122115, QL12004-009				
Injection Vol.	2.00 uL	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



SEMIVOLATILE-sim STANDARDS DATA

-Initial Calibration Data Form 6A-OR

-Continuing Calibration Verification Data Form 7A-OR

Initial Calibration

FORM 6A-OR MODIFIED
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date(s): 12/18/2015 12/18/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Calibration Time(s): 1425 1636

Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

LAB FILE ID: 41218B02 RRF 0.1 = 41218B02 RRF 0.1 = 41218B03 RRF 0.2 = 41218B04
RRF 0.4 = 41218B05 RRF 0.8 = 41218B06 RRF 1.6 = 41218B07

COMPOUND	RRF 0.1	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.6	$\overline{RRF}$	%RSD
1,4-Dioxane		0.606	0.630	0.569	0.576	0.5650	0.589	4.7
Naphthalene	1.081	1.021	1.048	1.049	1.009	1.0160	1.037	2.6
2-Methylnaphthalene	0.623	0.591	0.621	0.630	0.604	0.6070	0.613	2.3
Acenaphthylene	2.010	1.708	1.931	1.894	1.958	2.0440	1.924	6.2
Acenaphthene	1.586	1.470	1.577	1.532	1.592	1.5890	1.558	3.1
Fluorene	1.835	1.307	1.335	1.311	1.310	1.3910	1.415	14.7
Pentachlorophenol		0.048	0.045	0.058	0.062	0.0780	0.058	22.7
Phenanthrene	1.219	1.039	1.116	1.085	1.032	1.0450	1.089	6.5
Anthracene	1.093	0.953	1.069	1.095	1.065	1.0750	1.058	5.0
Fluoranthene	1.192	1.050	1.177	1.183	1.223	1.2680	1.182	6.2
Pyrene	1.190	1.027	1.096	1.101	1.072	1.0930	1.097	4.9
Benzo(a)anthracene	1.053	0.910	0.976	1.007	0.997	1.0150	0.993	4.8
Chrysene	1.136	0.945	0.972	0.979	0.942	0.9400	0.986	7.6
Benzo(b)fluoranthene	1.314	1.134	1.179	1.244	1.185	1.1770	1.205	5.3
Benzo(k)fluoranthene	1.339	1.121	1.160	1.231	1.178	1.1620	1.198	6.5
Benzo(a)pyrene	1.159	1.010	1.067	1.139	1.117	1.1290	1.104	5.0
Indeno(1,2,3-cd)pyrene	1.335	1.143	1.211	1.294	1.233	1.2410	1.243	5.4
Dibenzo(a,h)anthracene	1.155	0.993	1.055	1.131	1.075	1.0790	1.081	5.3
Benzo(g,h,i)perylene	1.155	0.978	1.028	1.080	1.011	0.9970	1.041	6.3
Dibenzofuran	2.417	1.908	1.972	1.959	1.921	1.8550	2.005	10.3
Hexachlorobenzene	0.256	0.217	0.233	0.236	0.231	0.2230	0.233	5.7
Hexachlorobutadiene		0.143	0.148	0.150	0.145	0.1460	0.146	1.9
bis(2-Chloroethyl)ether		1.382	1.417	1.391	1.345	1.2820	1.363	3.8
2,2'-Oxybis(1-chloropropane)		1.556	1.572	1.564	1.460	1.4400	1.518	4.1
N-Nitrosodi-n-propylamine	0.846	0.855	0.933	0.637	0.614	0.7660	0.775	16.4
Hexachloroethane		0.388	0.406	0.416	0.398	0.4050	0.403	2.6
Nitrobenzene		0.263	0.286	0.285	0.278	0.2820	0.279	3.4
4-Chloroaniline		0.348	0.453	0.462	0.444	0.3600	0.413	13.2
2,4,6-Trichlorophenol		0.308	0.347	0.349	0.371	0.3810	0.351	8.0
1,1'-Biphenyl	2.471	2.174	2.295	2.178	2.215	2.1760	2.251	5.2
2,6-Dinitrotoluene	0.193	0.212	0.223	0.254	0.292	0.3060	0.247	18.3
2,4-Dinitrophenol		0.084	0.119	0.161	0.205	0.2450	0.163	39.7
2,4-Dinitrotoluene	0.234	0.215	0.251	0.275	0.276	0.3100	0.260	13.0
4,6-Dinitro-2-methylphenol		0.031	0.044	0.051	0.057	0.0650	0.050	26.1
1,2,4,5-Tetrachlorobenzene		0.648	0.682	0.658	0.672	0.6600	0.664	2.0

FORM 6A-OR MODIFIED
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date(s): 12/18/2015 12/18/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Calibration Time(s): 1425 1636

Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

LAB FILE ID: 41218B02 RRF 0.1 = 41218B02 RRF 0.1 = 41218B03 RRF 0.2 = 41218B04
RRF 0.4 = 41218B05 RRF 0.8 = 41218B06 RRF 1.6 = 41218B07

COMPOUND	RRF 0.1	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.6	$\overline{RRF}$	%RSD
Atrazine		0.171	0.205	0.191	0.216	0.2260	0.202	10.7
3,3'-Dichlorobenzidine		0.232	0.196	0.269	0.279	0.2890	0.253	15.2
1,4-Dioxane-d8		0.579	0.618	0.555	0.562	0.5560	0.574	4.6
Fluoranthene-d10	0.934	0.981	1.038	1.043	1.160	1.1720	1.055	9.0
2-Methylnaphthalene-d10	0.527	0.557	0.546	0.563	0.569	0.5560	0.553	2.7
Bis(2-Chloroethyl)ether-d8		1.119	1.125	1.064	1.063	1.0270	1.080	3.8
Nitrobenzene-d5		0.101	0.110	0.109	0.110	0.1170	0.109	5.3
2,4-Dichlorophenol-d3		0.219	0.235	0.231	0.233	0.2370	0.231	3.0

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B02.D		
Lab Sample ID:	SSTD.05ON	Client Sample ID:	SSTD.05ON
Injection Date:	18-Dec-2015 14:25:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1700		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\Sim2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 1	ALS Bottle:	1
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	18-Dec-2015 16:52:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0		3.779		ND			
108 1,4-Dioxane	88.0		3.796		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.727		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.771		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	105556	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.186		ND			
13 N-Nitroso-di-n-propylamine	70.0	6.290	6.290	0.000	22331	0.10000	0.10915	
15 Hexachloroethane	117.0		6.436		ND			
$ 16 Nitrobenzene-d5	128.0		6.457		ND			
17 Nitrobenzene	77.0		6.478		ND			
$ 96 2,4-Dichlorophenol-d3	165.0		6.943		ND			
* 23 Naphthalene-d8	136.0	7.066	7.066	0.000	483402	0.40000	0.40000	
24 Naphthalene	128.0	7.083	7.083	0.000	130604	0.10000	0.10417	
25 4-Chloroaniline	127.0		7.101		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.625	7.625	0.000	63740	0.10000	0.09537	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	75230	0.10000	0.10163	
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.886		ND			
34 1,1'-Biphenyl	154.0	8.031	8.031	0.000	103705	0.10000	0.10976	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	8099	0.10000	0.07826	M
38 Acenaphthylene	152.0	8.425	8.425	0.000	84366	0.10000	0.10448	
* 41 Acenaphthene-d10	164.0	8.548	8.548	0.000	167871	0.40000	0.40000	

Report Date: 29-Dec-2015 17:40:56 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4121815B.b\41218B02.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	66578	0.10000	0.10184	
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0	8.672	8.672	0.000	9833	0.10000	0.09005	
45 Dibenzofuran	168.0	8.718	8.718	0.000	101428	0.10000	0.12052	
48 Fluorene	166.0	9.012	9.012	0.000	76992	0.10000	0.12968	
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	23868	0.10000	0.10997	
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0	9.661	9.661	0.000	9028	0.20000	0.16587	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	373376	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	113797	0.10000	0.11191	
60 Anthracene	178.0	9.880	9.880	0.000	102026	0.10000	0.10327	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	87187	0.10000	0.08856	
63 Fluoranthene	202.0	10.967	10.967	0.000	111305	0.10000	0.10086	
64 Pyrene	202.0	11.229	11.229	0.000	113471	0.10000	0.10854	
68 3,3'-Dichlorobenzidine	252.0		12.670		ND			
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	100334	0.10000	0.10600	
* 69 Chrysene-d12	240.0	12.775	12.775	0.000	381291	0.40000	0.40000	
70 Chrysene	228.0	12.810	12.810	0.000	108270	0.10000	0.11524	
73 Benzo(b)fluoranthene	252.0	14.440	14.440	0.000	104439	0.10000	0.10902	
74 Benzo(k)fluoranthene	252.0	14.480	14.480	0.000	106395	0.10000	0.11172	
75 Benzo(a)pyrene	252.0	15.011	15.011	0.000	92120	0.10000	0.10504	
* 76 Perylene-d12	264.0	15.110	15.110	0.000	317891	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.367	17.367	0.000	106058	0.10000	0.10739	
78 Dibenzo(a,h)anthracene	278.0	17.386	17.386	0.000	91828	0.10000	0.10685	
79 Benzo(g,h,i)perylene	276.0	18.052	18.052	0.000	91761	0.10000	0.11087	

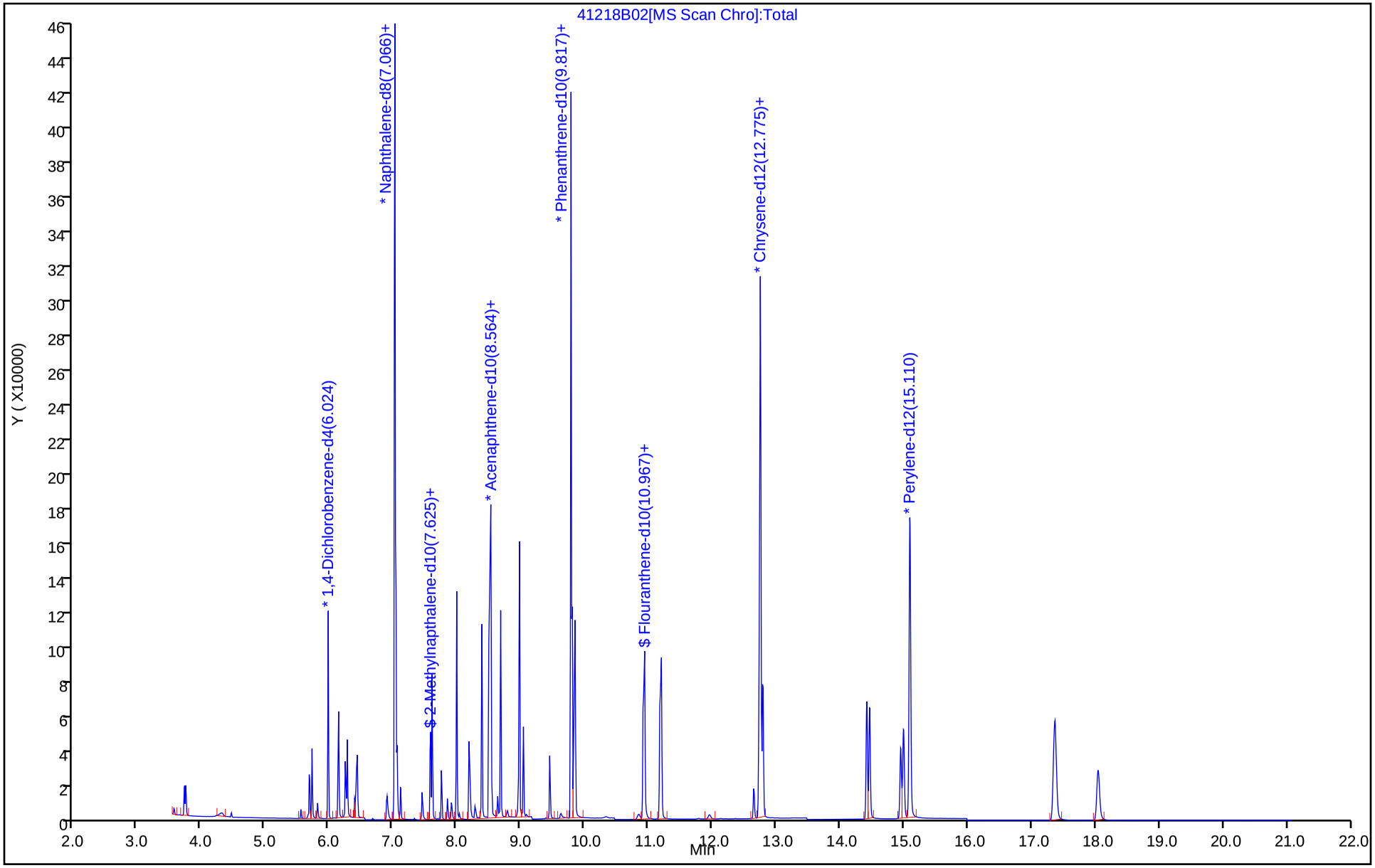
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B02.D				
Injection Date:	18-Dec-2015 14:25:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD.05ON	Lab ID:	SSTD.05ON		
Sample Info:	4121815B, SVMS 1700				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 29-Dec-2015 17:40:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

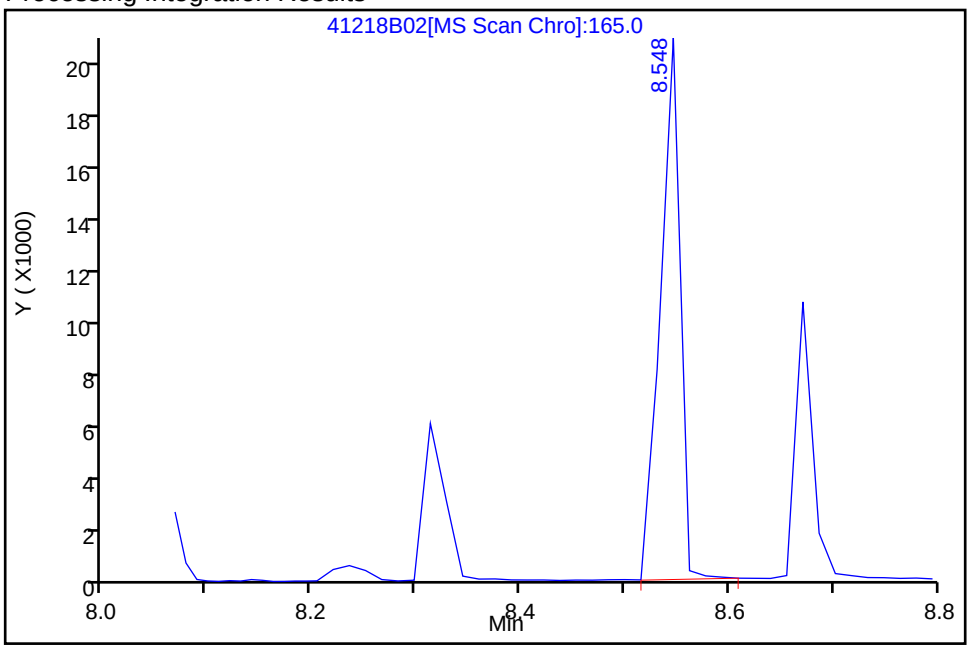
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B02.D		
Injection Date:	18-Dec-2015 14:25:30	Inst. ID:	msd4.i
Client ID:	SSTD.05ON	Lab ID:	SSTD.05ON
Sample Info:	4121815B, SVMS 1700		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

39 2,6-Dinitrotoluene, CAS: 606-20-2

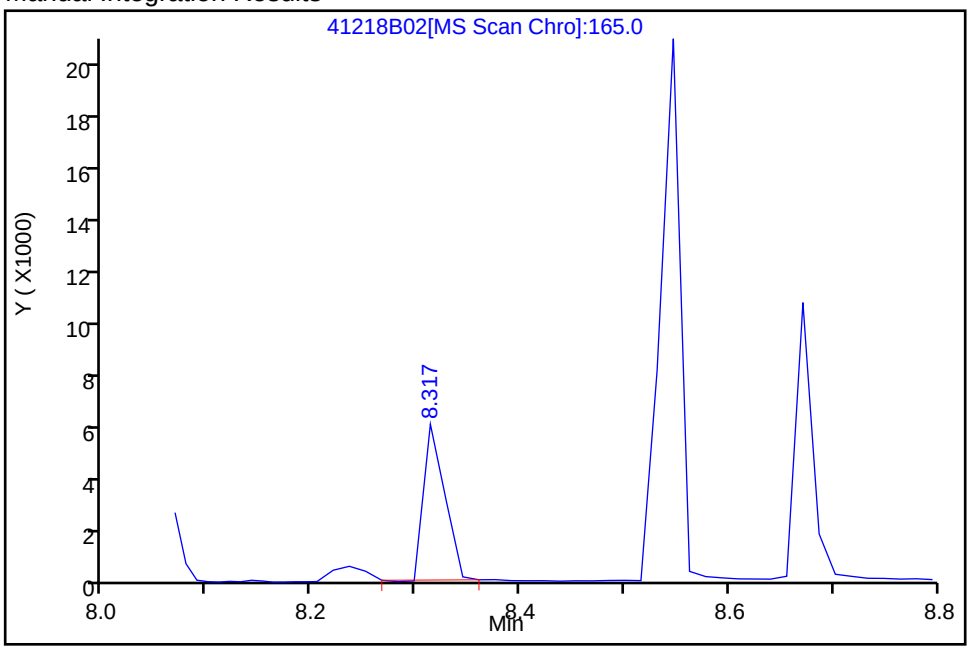
Processing Integration Results

RT: 8.548
Area: 21589
Amount: 0.13265
Amount Units: ng/ul
Conc:



Manual Integration Results

RT: 8.317
Area: 8099
Amount: 0.07826
Amount Units: ng/ul



Data Editor: jcg, 18-Dec-2015 16:52:30
Audit Action: Mint
Audit Reason: MA

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B03.D		
Lab Sample ID:	SSTD0.1ON	Client Sample ID:	SSTD0.1ON
Injection Date:	18-Dec-2015 14:51:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1701		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\Sim2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 2	ALS Bottle:	2
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	18-Dec-2015 16:53:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.779	3.779	0.000	29087	0.20000	0.20175	
108 1,4-Dioxane	88.0	3.797	3.797	0.000	30426	0.20000	0.20564	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	56228	0.20000	0.20737	
5 bis(2-Chloroethyl)Ether	93.0	5.771	5.771	0.000	69404	0.20000	0.20270	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	100460	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.186	6.186	0.000	78134	0.20000	0.20489	
13 N-Nitroso-di-n-propylamine	70.0	6.290	6.290	0.000	42943	0.20000	0.22054	
15 Hexachloroethane	117.0	6.436	6.436	0.000	19472	0.20000	0.19262	
$ 16 Nitrobenzene-d5	128.0	6.457	6.457	0.000	22985	0.20000	0.18394	
17 Nitrobenzene	77.0	6.478	6.478	0.000	60105	0.20000	0.18856	
$ 96 2,4-Dichlorophenol-d3	165.0	6.935	6.935	0.000	50108	0.20000	0.18977	
* 23 Naphthalene-d8	136.0	7.066	7.066	0.000	457237	0.40000	0.40000	
24 Naphthalene	128.0	7.075	7.075	0.000	233314	0.20000	0.19675	
25 4-Chloroaniline	127.0	7.101	7.101	0.000	79591	0.20000	0.16844	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	32698	0.20000	0.19559	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	127289	0.20000	0.20134	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	135217	0.20000	0.19312	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	54273	0.20000	0.19512	
31 2,4,6-Trichlorophenol	196.0	7.886	7.886	0.000	25820	0.20000	0.17545	
34 1,1'-Biphenyl	154.0	8.032	8.032	0.000	182086	0.20000	0.19308	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	17789	0.20000	0.17223	M
38 Acenaphthylene	152.0	8.425	8.425	0.000	143047	0.20000	0.17749	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	167550	0.40000	0.40000	

Report Date: 29-Dec-2015 17:40:56 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4121815B.b\41218B03.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	123151	0.20000	0.18874	
43 2,4-Dinitrophenol	184.0	8.579	8.579	0.000	35131	1.0000	0.51531	
46 2,4-Dinitrotoluene	165.0	8.672	8.672	0.000	17988	0.20000	0.16505	
45 Dibenzofuran	168.0	8.718	8.718	0.000	159809	0.20000	0.19026	
48 Fluorene	166.0	9.012	9.012	0.000	109469	0.20000	0.18474	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	5647	0.20000	0.12520	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	39400	0.20000	0.18671	
56 Atrazine	200.0	9.484	9.484	0.000	30973	0.20000	0.16913	
57 Pentachlorophenol	266.0	9.650	9.650	0.000	16309	0.40000	0.30819	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	363029	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	188513	0.20000	0.19067	
60 Anthracene	178.0	9.880	9.880	0.000	172969	0.20000	0.18007	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	178112	0.20000	0.18607	
63 Fluoranthene	202.0	10.959	10.959	0.000	190650	0.20000	0.17768	
64 Pyrene	202.0	11.221	11.221	0.000	193138	0.20000	0.18731	
68 3,3'-Dichlorobenzidine	252.0	12.670	12.670	0.000	43570	0.20000	0.18322	
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	171074	0.20000	0.18325	
* 69 Chrysene-d12	240.0	12.775	12.775	0.000	376065	0.40000	0.40000	
70 Chrysene	228.0	12.810	12.810	0.000	177698	0.20000	0.19177	
73 Benzo(b)fluoranthene	252.0	14.436	14.436	0.000	176099	0.20000	0.18816	
74 Benzo(k)fluoranthene	252.0	14.480	14.480	0.000	174035	0.20000	0.18704	
75 Benzo(a)pyrene	252.0	15.007	15.007	0.000	156836	0.20000	0.18304	
* 76 Perylene-d12	264.0	15.110	15.110	0.000	310576	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.360	17.360	0.000	177429	0.20000	0.18389	
78 Dibenzo(a,h)anthracene	278.0	17.382	17.382	0.000	154260	0.20000	0.18372	
79 Benzo(g,h,i)perylene	276.0	18.045	18.045	0.000	151899	0.20000	0.18786	

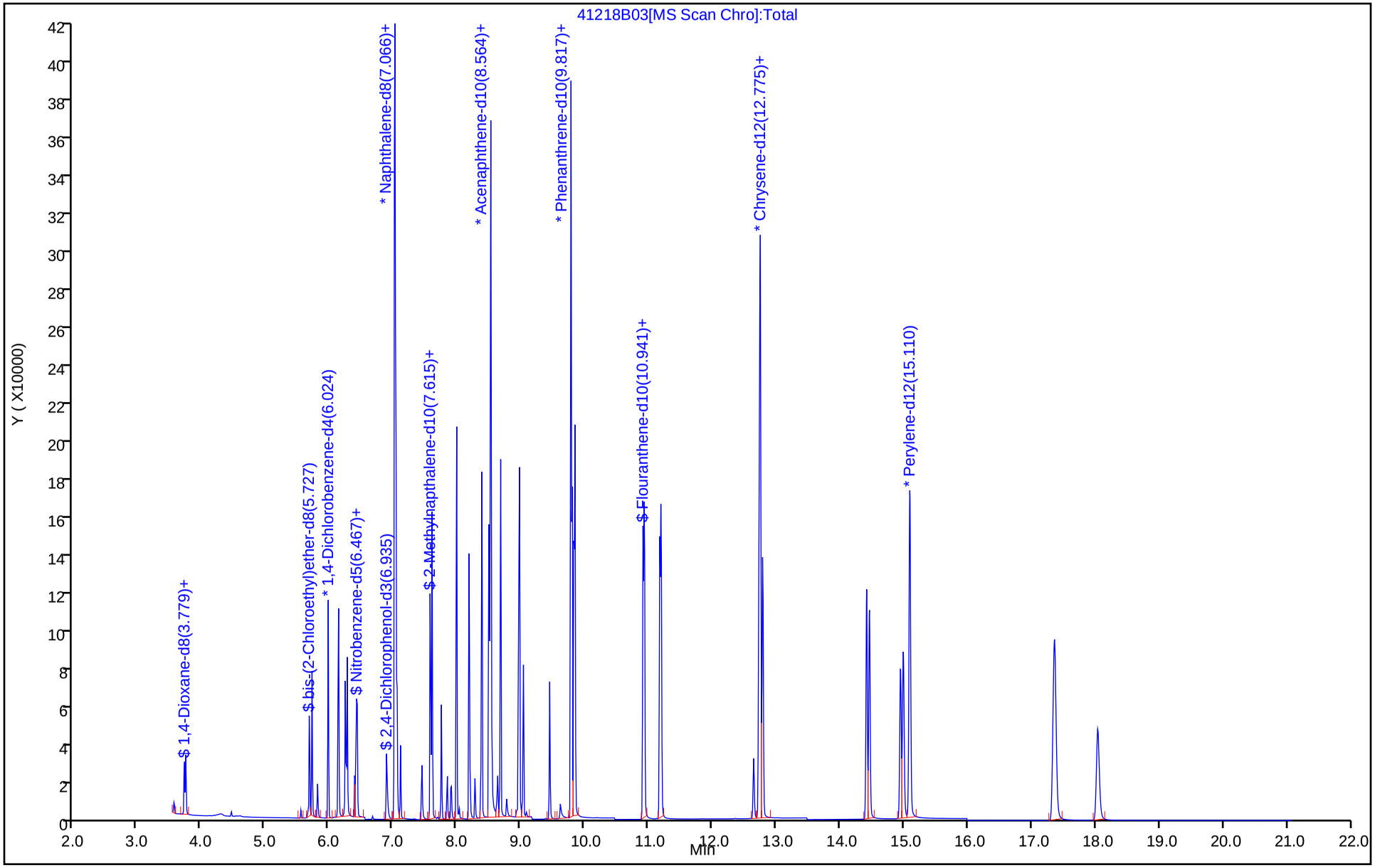
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B03.D				
Injection Date:	18-Dec-2015 14:51:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.1ON	Lab ID:	SSTD0.1ON		
Sample Info:	4121815B, SVMS 1701				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 29-Dec-2015 17:40:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

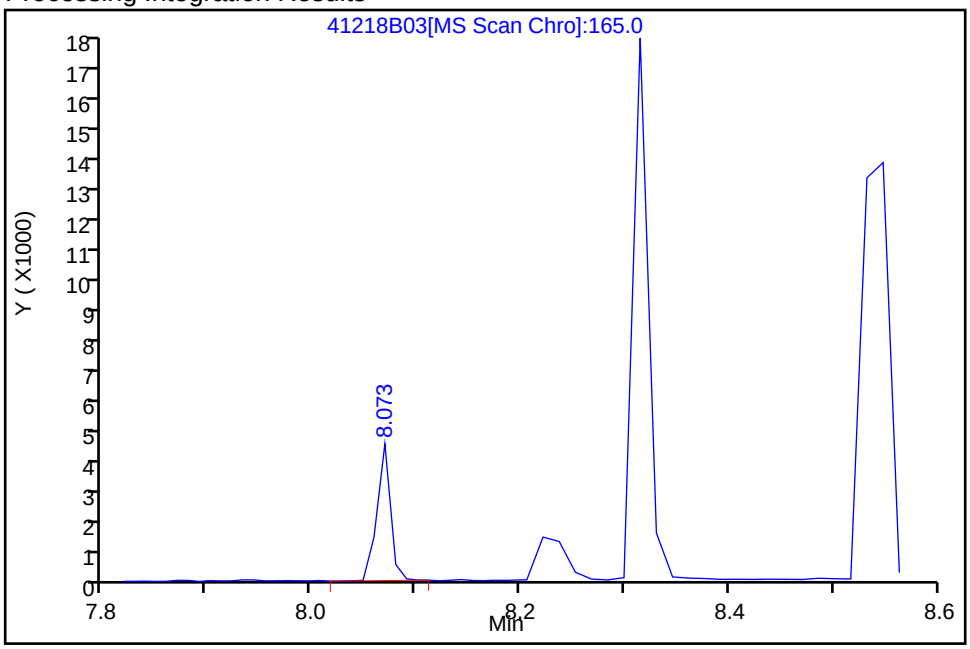
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B03.D		
Injection Date:	18-Dec-2015 14:51:30	Inst. ID:	msd4.i
Client ID:	SSTD0.1ON	Lab ID:	SSTD0.1ON
Sample Info:	4121815B, SVMS 1701		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

39 2,6-Dinitrotoluene, CAS: 606-20-2

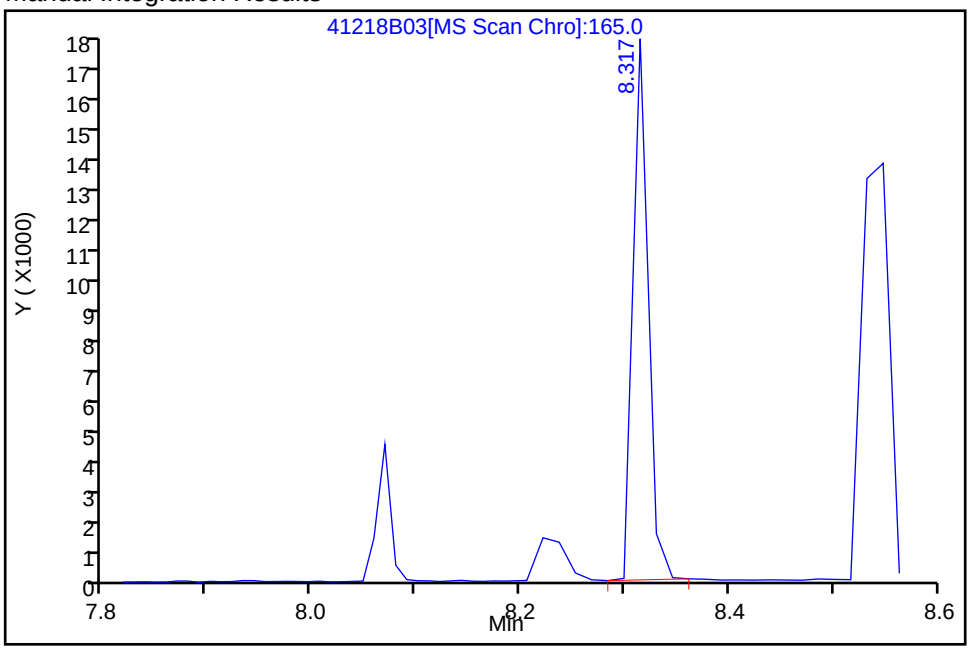
Processing Integration Results

RT: 8.073
Area: 4879
Amount: 0
Amount Units: ng/ul
Conc:



Manual Integration Results

RT: 8.317
Area: 17789
Amount: 0.17223
Amount Units: ng/ul



Data Editor: jcg, 18-Dec-2015 16:53:30
Audit Action: Mint
Audit Reason: MA

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B04.D		
Lab Sample ID:	SSTD0.2ON	Client Sample ID:	SSTD0.2ON
Injection Date:	18-Dec-2015 15:17:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1702		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 3	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	21-Dec-2015 08:46:30

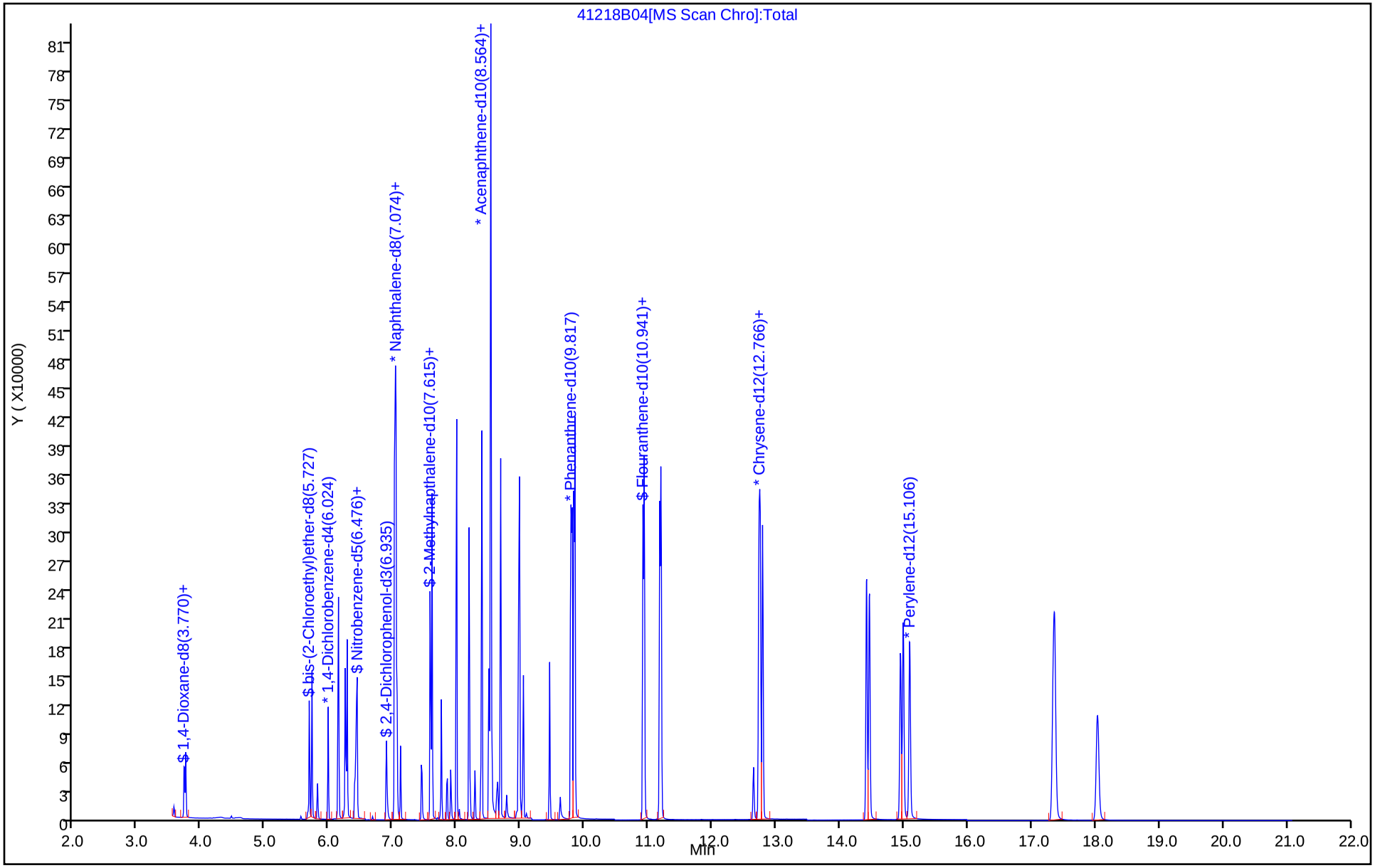
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.770	3.770	0.000	61724	0.40000	0.43080	
108 1,4-Dioxane	88.0	3.796	3.796	0.000	62905	0.40000	0.42781	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	112287	0.40000	0.41670	
5 bis(2-Chloroethyl)Ether	93.0	5.770	5.770	0.000	141483	0.40000	0.41578	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	99837	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.184	6.184	0.000	156934	0.40000	0.41409	
13 N-Nitroso-di-n-propylamine	70.0	6.288	6.288	0.000	93142	0.40000	0.48132	
15 Hexachloroethane	117.0	6.445	6.445	0.000	40521	0.40000	0.40334	
$ 16 Nitrobenzene-d5	128.0	6.455	6.455	0.000	50226	0.40000	0.40274	
17 Nitrobenzene	77.0	6.476	6.476	0.000	130418	0.40000	0.40996	
$ 96 2,4-Dichlorophenol-d3	165.0	6.935	6.935	0.000	107318	0.40000	0.40725	
* 23 Naphthalene-d8	136.0	7.066	7.066	0.000	456334	0.40000	0.40000	
24 Naphthalene	128.0	7.083	7.083	0.000	478384	0.40000	0.40421	
25 4-Chloroaniline	127.0	7.074	7.074	0.000	206889	0.40000	0.43871	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	67441	0.40000	0.40420	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	249142	0.40000	0.39487	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	283215	0.40000	0.40528	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	112047	0.40000	0.41111	
31 2,4,6-Trichlorophenol	196.0	7.885	7.885	0.000	56914	0.40000	0.39468	
34 1,1'-Biphenyl	154.0	8.031	8.031	0.000	376830	0.40000	0.40780	
39 2,6-Dinitrotoluene	165.0	8.316	8.316	0.000	36599	0.40000	0.36163	
38 Acenaphthylene	152.0	8.425	8.425	0.000	317046	0.40000	0.40147	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	164174	0.40000	0.40000	

Report Date: 29-Dec-2015 17:40:57 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4121815B.b\41218B04.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	258931	0.40000	0.40499	
43 2,4-Dinitrophenol	184.0	8.579	8.579	0.000	97304	2.0000	1.4566	
46 2,4-Dinitrotoluene	165.0	8.672	8.672	0.000	41265	0.40000	0.38641	
45 Dibenzofuran	168.0	8.718	8.718	0.000	323813	0.40000	0.39344	
48 Fluorene	166.0	9.012	9.012	0.000	219223	0.40000	0.37757	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	15392	0.40000	0.35487	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	81185	0.40000	0.40006	
56 Atrazine	200.0	9.484	9.484	0.000	71671	0.40000	0.40698	
57 Pentachlorophenol	266.0	9.650	9.650	0.000	40215	0.80000	0.79024	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	349104	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	389609	0.40000	0.40979	
60 Anthracene	178.0	9.879	9.879	0.000	373243	0.40000	0.40406	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	362446	0.40000	0.39375	
63 Fluoranthene	202.0	10.959	10.959	0.000	411017	0.40000	0.39834	
64 Pyrene	202.0	11.221	11.221	0.000	417508	0.40000	0.39989	
68 3,3'-Dichlorobenzidine	252.0	12.670	12.670	0.000	74682	0.40000	0.31015	
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	371834	0.40000	0.39336	
* 69 Chrysene-d12	240.0	12.775	12.775	0.000	380791	0.40000	0.40000	
70 Chrysene	228.0	12.809	12.809	0.000	369940	0.40000	0.39428	
73 Benzo(b)fluoranthene	252.0	14.436	14.436	0.000	379299	0.40000	0.39112	
74 Benzo(k)fluoranthene	252.0	14.480	14.480	0.000	373297	0.40000	0.38718	
75 Benzo(a)pyrene	252.0	15.007	15.007	0.000	343343	0.40000	0.38671	
* 76 Perylene-d12	264.0	15.106	15.106	0.000	321818	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.356	17.356	0.000	389798	0.40000	0.38988	
78 Dibenzo(a,h)anthracene	278.0	17.375	17.375	0.000	339430	0.40000	0.39013	
79 Benzo(g,h,i)perylene	276.0	18.045	18.045	0.000	330809	0.40000	0.39483	

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B04.D				
Injection Date:	18-Dec-2015 15:17:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.2ON	Lab ID:	SSTD0.2ON		
Sample Info:	4121815B, SVMS 1702				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B05.D		
Lab Sample ID:	SSTD0.4ON	Client Sample ID:	SSTD0.4ON
Injection Date:	18-Dec-2015 15:44:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1703		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 4	ALS Bottle:	4
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	21-Dec-2015 08:46:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.770	3.770	0.000	111982	0.80000	0.77377	
108 1,4-Dioxane	88.0	3.797	3.797	0.000	114789	0.80000	0.77287	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	214572	0.80000	0.78833	
5 bis(2-Chloroethyl)Ether	93.0	5.771	5.771	0.000	280561	0.80000	0.81627	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	100844	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.186	6.186	0.000	315520	0.80000	0.82423	
13 N-Nitroso-di-n-propylamine	70.0	6.290	6.290	0.000	128541	0.80000	0.65762	
15 Hexachloroethane	117.0	6.436	6.436	0.000	83877	0.80000	0.82657	
$ 16 Nitrobenzene-d5	128.0	6.457	6.457	0.000	99910	0.80000	0.80124	
17 Nitrobenzene	77.0	6.467	6.467	0.000	260336	0.80000	0.81846	
$ 96 2,4-Dichlorophenol-d3	165.0	6.935	6.935	0.000	210572	0.80000	0.79918	
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	456275	0.40000	0.40000	
24 Naphthalene	128.0	7.075	7.075	0.000	957707	0.80000	0.80931	
25 4-Chloroaniline	127.0	7.075	7.075	0.000	421243	0.80000	0.89336	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	136824	0.80000	0.82015	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	513594	0.80000	0.81411	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	574948	0.80000	0.82286	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	224634	0.80000	0.79245	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	119182	0.80000	0.79465	
34 1,1'-Biphenyl	154.0	8.032	8.032	0.000	743774	0.80000	0.77389	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	86656	0.80000	0.82325	
38 Acenaphthylene	152.0	8.425	8.425	0.000	646729	0.80000	0.78738	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	170754	0.40000	0.40000	

Report Date: 29-Dec-2015 17:40:57 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4121815B.b\41218B05.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	523109	0.80000	0.78666	
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	275729	4.0000	3.9686	
46 2,4-Dinitrotoluene	165.0	8.657	8.657	0.000	94085	0.80000	0.84706	
45 Dibenzofuran	168.0	8.718	8.718	0.000	669143	0.80000	0.78169	
48 Fluorene	166.0	9.012	9.012	0.000	447699	0.80000	0.74136	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	35756	0.80000	0.82083	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	165465	0.80000	0.81187	
56 Atrazine	200.0	9.484	9.484	0.000	134121	0.80000	0.75832	
57 Pentachlorophenol	266.0	9.651	9.651	0.000	87180	1.6000	1.7058	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	350609	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	760755	0.80000	0.79672	
60 Anthracene	178.0	9.880	9.880	0.000	767507	0.80000	0.82732	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	731088	0.80000	0.79082	
63 Fluoranthene	202.0	10.959	10.959	0.000	829464	0.80000	0.80043	
64 Pyrene	202.0	11.221	11.221	0.000	847730	0.80000	0.80332	
68 3,3'-Dichlorobenzidine	252.0	12.670	12.670	0.000	207214	0.80000	0.85139	
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	775278	0.80000	0.81144	
* 69 Chrysene-d12	240.0	12.775	12.775	0.000	384883	0.40000	0.40000	
70 Chrysene	228.0	12.810	12.810	0.000	753559	0.80000	0.79459	
73 Benzo(b)fluoranthene	252.0	14.436	14.436	0.000	748208	0.80000	0.82563	
74 Benzo(k)fluoranthene	252.0	14.477	14.477	0.000	740214	0.80000	0.82159	
75 Benzo(a)pyrene	252.0	15.011	15.011	0.000	684863	0.80000	0.82547	
* 76 Perylene-d12	264.0	15.110	15.110	0.000	300727	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.353	17.353	0.000	778123	0.80000	0.83288	
78 Dibenzo(a,h)anthracene	278.0	17.375	17.375	0.000	680175	0.80000	0.83660	
79 Benzo(g,h,i)perylene	276.0	18.045	18.045	0.000	649850	0.80000	0.83001	

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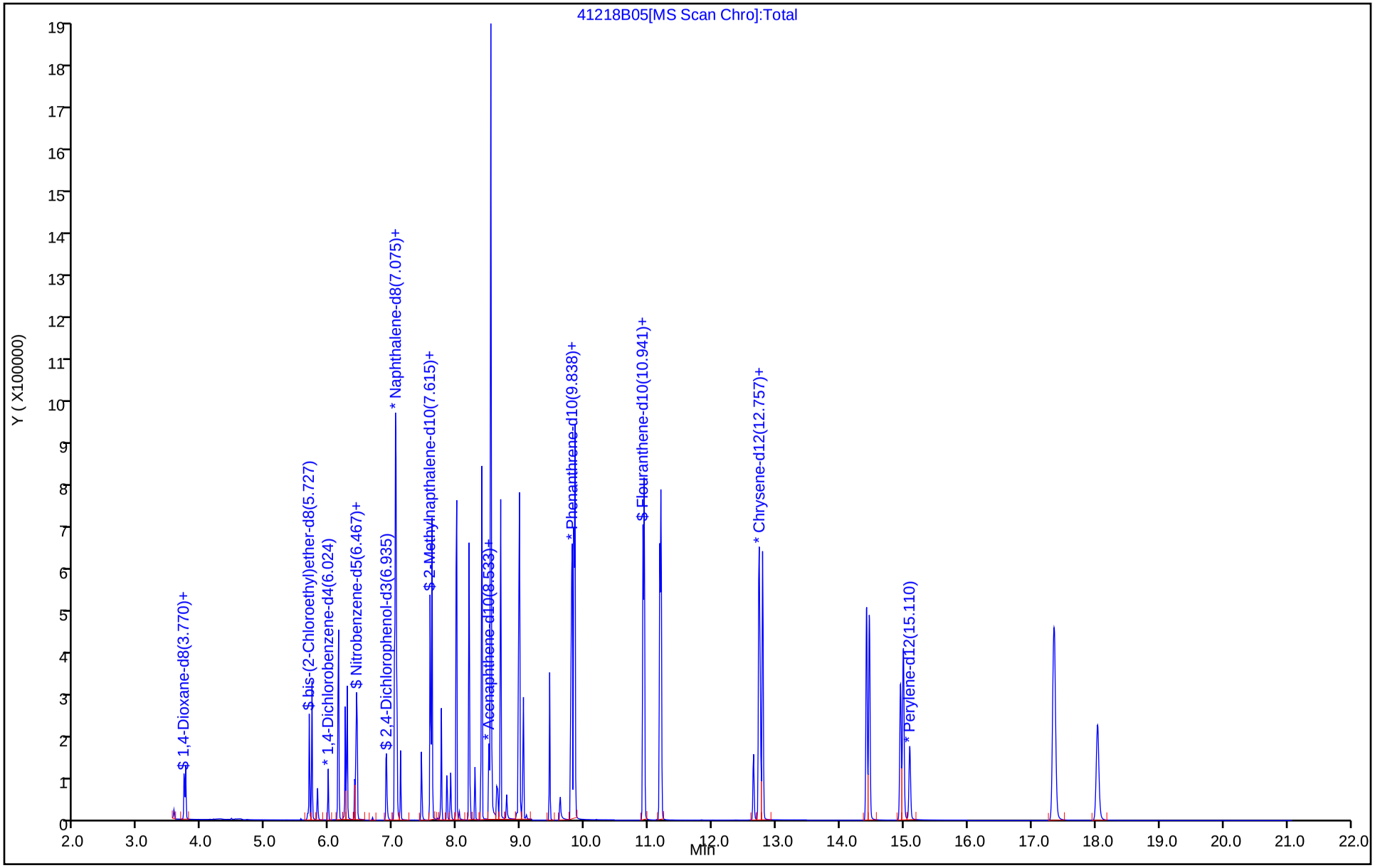
Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B05.D				
Injection Date:	18-Dec-2015 15:44:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.4ON	Lab ID:	SSTD0.4ON		
Sample Info:	4121815B, SVMS 1703				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B06.D		
Lab Sample ID:	SSTD0.8ON	Client Sample ID:	SSTD0.8ON
Injection Date:	18-Dec-2015 16:10:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1704		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 5	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	21-Dec-2015 08:46:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.770	3.770	0.000	222127	1.6000	1.5651	
108 1,4-Dioxane	88.0	3.796	3.796	0.000	227829	1.6000	1.5642	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	420550	1.6000	1.5755	
5 bis(2-Chloroethyl)Ether	93.0	5.770	5.770	0.000	531909	1.6000	1.5780	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	98896	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.184	6.184	0.000	577463	1.6000	1.5382	
13 N-Nitroso-di-n-propylamine	70.0	6.288	6.288	0.000	242921	1.6000	1.2673	
15 Hexachloroethane	117.0	6.444	6.444	0.000	157598	1.6000	1.5837	
$ 16 Nitrobenzene-d5	128.0	6.455	6.455	0.000	197034	1.6000	1.6046	
17 Nitrobenzene	77.0	6.476	6.476	0.000	499973	1.6000	1.5962	
$ 96 2,4-Dichlorophenol-d3	165.0	6.926	6.926	0.000	418196	1.6000	1.6118	
* 23 Naphthalene-d8	136.0	7.066	7.066	0.000	449316	0.40000	0.40000	
24 Naphthalene	128.0	7.083	7.083	0.000	1813257	1.6000	1.5560	
25 4-Chloroaniline	127.0	7.074	7.074	0.000	797112	1.6000	1.7167	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	259764	1.6000	1.5812	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	1023509	1.6000	1.6475	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	1085359	1.6000	1.5774	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	425843	1.6000	1.6191	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	235318	1.6000	1.6910	
34 1,1'-Biphenyl	154.0	8.031	8.031	0.000	1403469	1.6000	1.5739	
39 2,6-Dinitrotoluene	165.0	8.316	8.316	0.000	184877	1.6000	1.8930	
38 Acenaphthylene	152.0	8.425	8.425	0.000	1240548	1.6000	1.6278	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	158430	0.40000	0.40000	

Report Date: 29-Dec-2015 17:40:57 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4121815B.b\41218B06.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	1008670	1.6000	1.6348	
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	648965	8.0000	10.067	
46 2,4-Dinitrotoluene	165.0	8.656	8.656	0.000	174619	1.6000	1.6944	
45 Dibenzofuran	168.0	8.718	8.718	0.000	1217146	1.6000	1.5325	
48 Fluorene	166.0	9.012	9.012	0.000	829953	1.6000	1.4813	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	76339	1.6000	1.8429	
55 Hexachlorobenzene	284.0	9.483	9.483	0.000	308329	1.6000	1.5909	
56 Atrazine	200.0	9.483	9.483	0.000	287817	1.6000	1.7113	
57 Pentachlorophenol	266.0	9.650	9.650	0.000	209376	3.2000	4.3081	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	333404	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	1376888	1.6000	1.5164	
60 Anthracene	178.0	9.879	9.879	0.000	1420821	1.6000	1.6106	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	1547175	1.6000	1.7599	
63 Fluoranthene	202.0	10.959	10.959	0.000	1630981	1.6000	1.6551	
64 Pyrene	202.0	11.220	11.220	0.000	1657002	1.6000	1.5639	
68 3,3'-Dichlorobenzidine	252.0	12.670	12.670	0.000	431135	1.6000	1.7644	
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	1540690	1.6000	1.6061	
* 69 Chrysene-d12	240.0	12.774	12.774	0.000	386421	0.40000	0.40000	
70 Chrysene	228.0	12.809	12.809	0.000	1456488	1.6000	1.5297	
73 Benzo(b)fluoranthene	252.0	14.436	14.436	0.000	1497264	1.6000	1.5725	
74 Benzo(k)fluoranthene	252.0	14.480	14.480	0.000	1488722	1.6000	1.5727	
75 Benzo(a)pyrene	252.0	15.007	15.007	0.000	1412235	1.6000	1.6201	
* 76 Perylene-d12	264.0	15.110	15.110	0.000	315968	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.356	17.356	0.000	1558152	1.6000	1.5873	
78 Dibenzo(a,h)anthracene	278.0	17.375	17.375	0.000	1358787	1.6000	1.5907	
79 Benzo(g,h,i)perylene	276.0	18.045	18.045	0.000	1277341	1.6000	1.5528	

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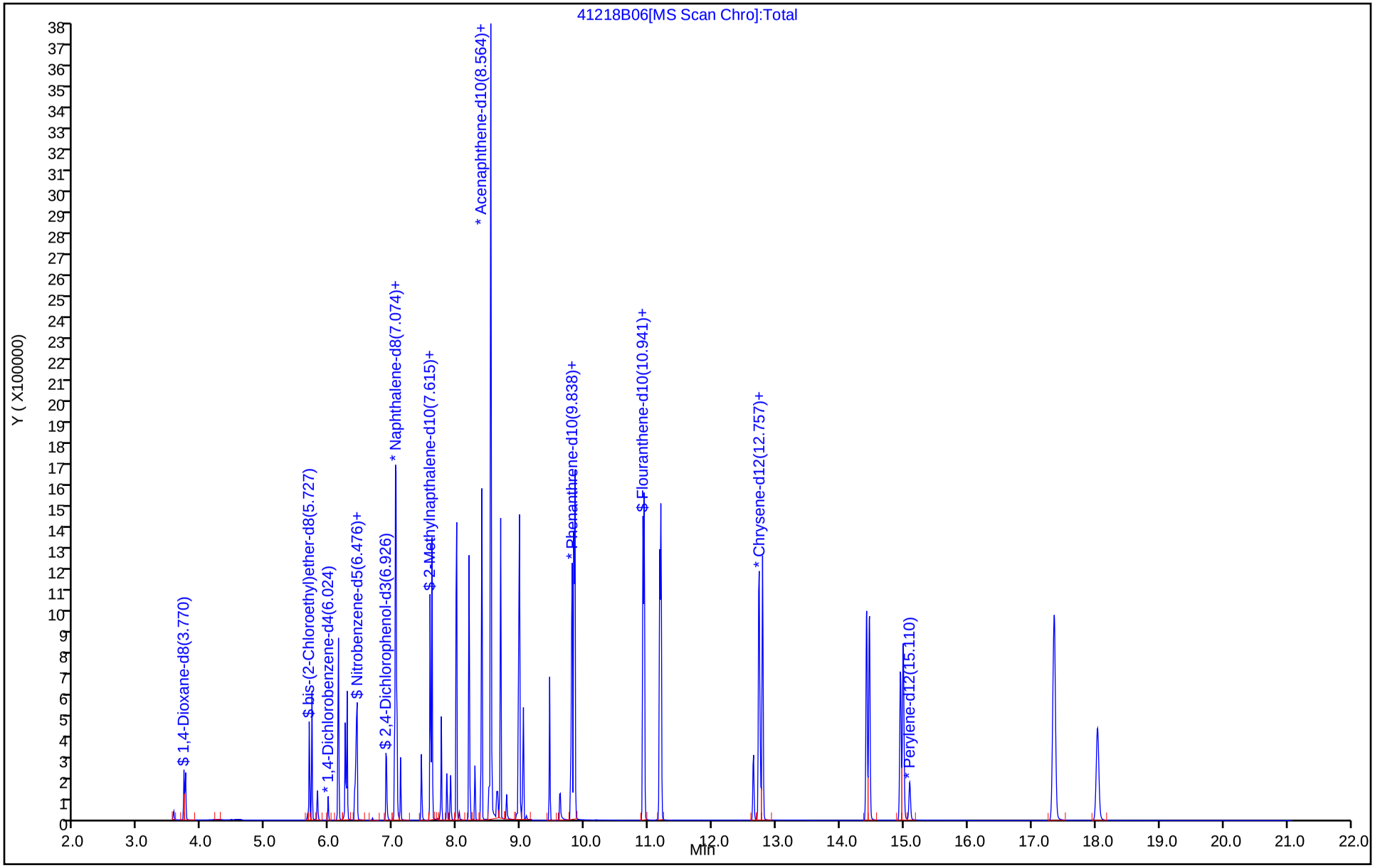
Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B06.D				
Injection Date:	18-Dec-2015 16:10:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.8ON	Lab ID:	SSTD0.8ON		
Sample Info:	4121815B, SVMS 1704				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B07.D		
Lab Sample ID:	SSTD1.6ON	Client Sample ID:	SSTD1.6ON
Injection Date:	18-Dec-2015 16:36:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1705		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 6	ALS Bottle:	6
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	29-Dec-2015 16:56:30

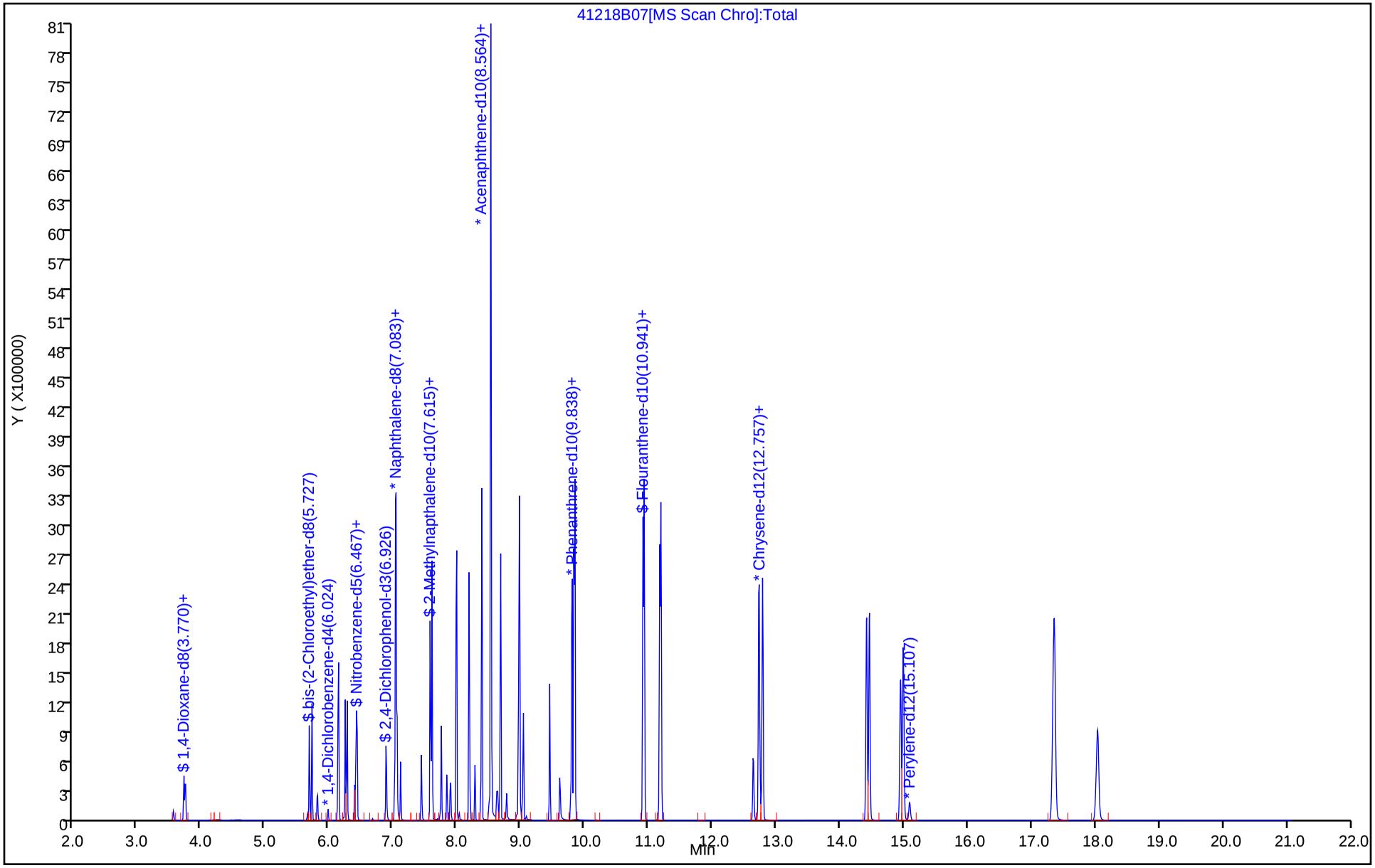
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.770	3.770	0.000	445391	3.2000	3.1003	
108 1,4-Dioxane	88.0	3.797	3.797	0.000	452226	3.2000	3.0674	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	822471	3.2000	3.0441	
5 bis(2-Chloroethyl)Ether	93.0	5.771	5.771	0.000	1026796	3.2000	3.0095	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	100103	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.186	6.186	0.000	1153554	3.2000	3.0357	
13 N-Nitroso-di-n-propylamine	70.0	6.290	6.290	0.000	613737	3.2000	3.1631	
15 Hexachloroethane	117.0	6.436	6.436	0.000	324120	3.2000	3.2177	
$ 16 Nitrobenzene-d5	128.0	6.457	6.457	0.000	418128	3.2000	3.4208	
17 Nitrobenzene	77.0	6.467	6.467	0.000	1009297	3.2000	3.2371	
$ 96 2,4-Dichlorophenol-d3	165.0	6.926	6.926	0.000	848531	3.2000	3.2854	
* 23 Naphthalene-d8	136.0	7.066	7.066	0.000	447258	0.40000	0.40000	
24 Naphthalene	128.0	7.083	7.083	0.000	3637088	3.2000	3.1355	
25 4-Chloroaniline	127.0	7.101	7.101	0.000	1288873	3.2000	2.7885	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	522323	3.2000	3.1940	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	1989047	3.2000	3.2164	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	2170828	3.2000	3.1695	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	841200	3.2000	3.1811	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	486142	3.2000	3.4747	
34 1,1'-Biphenyl	154.0	8.031	8.031	0.000	2772786	3.2000	3.0927	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	389611	3.2000	3.9678	
38 Acenaphthylene	152.0	8.425	8.425	0.000	2605177	3.2000	3.4001	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	159288	0.40000	0.40000	

Report Date: 29-Dec-2015 17:40:58 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4121815B.b\41218B07.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	2025399	3.2000	3.2651	
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	1561585	16.000	24.094	
46 2,4-Dinitrotoluene	165.0	8.657	8.657	0.000	394701	3.2000	3.8094	
45 Dibenzofuran	168.0	8.718	8.718	0.000	2363643	3.2000	2.9600	
48 Fluorene	166.0	9.012	9.012	0.000	1772171	3.2000	3.1458	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	180208	3.2000	4.1887	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	616737	3.2000	3.0639	
56 Atrazine	200.0	9.484	9.484	0.000	625744	3.2000	3.5822	
57 Pentachlorophenol	266.0	9.640	9.640	0.000	525223	6.4000	10.405	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	346278	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	2895463	3.2000	3.0703	
60 Anthracene	178.0	9.880	9.880	0.000	2979007	3.2000	3.2513	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	3246598	3.2000	3.5558	
63 Fluoranthene	202.0	10.959	10.959	0.000	3511436	3.2000	3.4309	
64 Pyrene	202.0	11.221	11.221	0.000	3490104	3.2000	3.1895	
68 3,3'-Dichlorobenzidine	252.0	12.661	12.661	0.000	921933	3.2000	3.6531	
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	3240679	3.2000	3.2710	
* 69 Chrysene-d12	240.0	12.775	12.775	0.000	399093	0.40000	0.40000	
70 Chrysene	228.0	12.810	12.810	0.000	3001264	3.2000	3.0520	
73 Benzo(b)fluoranthene	252.0	14.436	14.436	0.000	3134340	3.2000	3.1242	
74 Benzo(k)fluoranthene	252.0	14.480	14.480	0.000	3095165	3.2000	3.1032	
75 Benzo(a)pyrene	252.0	15.007	15.007	0.000	3007535	3.2000	3.2745	
* 76 Perylene-d12	264.0	15.107	15.107	0.000	332919	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.356	17.356	0.000	3305442	3.2000	3.1959	
78 Dibenzo(a,h)anthracene	278.0	17.371	17.371	0.000	2873587	3.2000	3.1927	
79 Benzo(g,h,i)perylene	276.0	18.045	18.045	0.000	2654118	3.2000	3.0621	

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B07.D				
Injection Date:	18-Dec-2015 16:36:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD1.6ON	Lab ID:	SSTD1.6ON		
Sample Info:	4121815B, SVMS 1705				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Continuing Calibration Data

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/21/2015 Time: 0839

Lab File ID: 4122102 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2OP Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
1,4-Dioxane	0.589	0.650	0.010	10.4	40.0
Naphthalene	1.037	1.038	0.200	0.1	20.0
2-Methylnaphthalene	0.613	0.604	0.100	-1.3	20.0
Acenaphthylene	1.924	1.438	0.400	-25.2	20.0
Acenaphthene	1.558	1.321	0.200	-15.2	20.0
Fluorene	1.415	1.128	0.200	-20.3	20.0
Pentachlorophenol	0.058	0.078	0.010	33.0	40.0
Phenanthrene	1.089	1.125	0.200	3.3	20.0
Anthracene	1.058	1.074	0.200	1.5	20.0
Fluoranthene	1.182	1.202	0.100	1.6	20.0
Pyrene	1.097	1.100	0.400	0.3	25.0
Benzo(a)anthracene	0.993	0.988	0.300	-0.5	20.0
Chrysene	0.986	0.985	0.200	-0.1	20.0
Benzo(b)fluoranthene	1.205	1.175	0.010	-2.5	25.0
Benzo(k)fluoranthene	1.198	1.187	0.010	-0.9	25.0
Benzo(a)pyrene	1.104	1.096	0.010	-0.7	20.0
Indeno(1,2,3-cd)pyrene	1.243	1.348	0.010	8.5	25.0
Dibenzo(a,h)anthracene	1.081	1.170	0.010	8.1	25.0
Benzo(g,h,i)perylene	1.041	1.164	0.010	11.8	30.0
Dibenzofuran	2.005	1.494	0.300	-25.5	50.0
Hexachlorobenzene	0.233	0.244	0.050	5.0	20.0
Hexachlorobutadiene	0.146	0.150	0.040	2.6	20.0
bis(2-Chloroethyl)ether	1.363	1.386	0.100	1.6	20.0
2,2'-Oxybis(1-chloropropane)	1.518	1.646	0.010	8.4	25.0
N-Nitrosodi-n-propylamine	0.775	0.820	0.080	5.7	25.0
Hexachloroethane	0.403	0.428	0.100	6.3	20.0
Nitrobenzene	0.279	0.283	0.090	1.5	20.0
4-Chloroaniline	0.413	0.443	0.010	7.1	40.0
2,4,6-Trichlorophenol	0.351	0.290	0.090	-17.5	20.0
1,1'-Biphenyl	2.251	2.002	0.200	-11.1	20.0
2,6-Dinitrotoluene	0.247	0.187	0.080	-24.1	50.0
2,4-Dinitrophenol	0.163	0.160	0.010	-1.4	50.0
2,4-Dinitrotoluene	0.260	0.248	0.070	-4.6	20.0
4,6-Dinitro-2-methylphenol	0.050	0.053	0.010	6.0	30.0
1,2,4,5-Tetrachlorobenzene	0.664	0.608	0.100	-8.4	20.0
Atrazine	0.202	0.208	0.010	2.9	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/21/2015 Time: 0839

Lab File ID: 4122102 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2OP Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
3,3'-Dichlorobenzidine	0.253	0.290	0.010	14.6	40.0
1,4-Dioxane-d8	0.574	0.656	0.010	14.3	25.0
Fluoranthene-d10	1.055	1.055	0.010	0.1	25.0
2-Methylnaphthalene-d10	0.553	0.551	0.010	-0.4	25.0
Bis(2-Chloroethyl)ether-d8	1.080	1.120	0.100	3.7	20.0
Nitrobenzene-d5	0.109	0.113	0.050	3.0	20.0
2,4-Dichlorophenol-d3	0.231	0.224	0.060	-3.1	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122102.D		
Lab Sample ID:	SSTD0.2OP	Client Sample ID:	SSTD0.2OP
Injection Date:	21-Dec-2015 08:39:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, SVMS 1702		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544.m		
Method Date:	23-Dec-2015 13:34:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 115 2-Methylnapthalene-d10	0.55306	0.550616	0.01	-0.4	25	100
$ 116 Flouranthene-d10	1.054701	1.055494	0.01	0.1	25	100
5 bis(2-Chloroethyl)Ether	1.363344	1.385807	0.1	1.6	20	102
11 2,2'-oxybis(1-Chloroprop	1.518411	1.646214	0.01	8.4	25	108
13 N-Nitroso-di-n-propylami	0.775314	0.819714	0.08	5.7	25	106
15 Hexachloroethane	0.402506	0.427849	0.1	6.3	20	106
$ 16 Nitrobenzene-d5	0.109315	0.112646	0.05	3	20	103
17 Nitrobenzene	0.27885	0.28293	0.09	1.5	20	101
24 Naphthalene	1.037407	1.03838	0.2	0.1	20	100
25 4-Chloroaniline	0.41337	0.442539	0.01	7.1	40	107
26 Hexachlorobutadiene	0.146252	0.14999	0.04	2.6	20	103
29 2-Methylnaphthalene	0.612539	0.604384	0.1	-1.3	20	99
31 2,4,6-Trichlorophenol	0.351337	0.289993	0.09	-17.5	20	83
34 1,1'-Biphenyl	2.251395	2.001616	0.2	-11.1	20	89
38 Acenaphthylene	1.924105	1.438309	0.4	* -25.2	20	75
39 2,6-Dinitrotoluene	0.246579	0.187044	0.08	-24.1	50	76
42 Acenaphthene	1.557741	1.321471	0.2	-15.2	20	85
43 2,4-Dinitrophenol	0.162757	0.160455	0.01	-1.4	50	99
45 Dibenzofuran	2.005275	1.493802	0.3	-25.5	50	74
46 2,4-Dinitrotoluene	0.260192	0.248303	0.07	-4.6	20	95
92 1,2,4,5-Tetrachlorobenze	0.66404	0.608066	0.1	-8.4	20	92
48 Fluorene	1.414643	1.128087	0.2	* -20.3	20	80
51 4,6-Dinitro-2-methylphen	0.049697	0.052681	0.01	6	30	106
55 Hexachlorobenzene	0.232518	0.244202	0.05	5	20	105
56 Atrazine	0.201781	0.207644	0.01	2.9	25	103
57 Pentachlorophenol	0.058309	0.077536	0.01	33	40	133
59 Phenanthrene	1.089376	1.124965	0.2	3.3	20	103
60 Anthracene	1.058395	1.073786	0.2	1.5	20	101
63 Fluoranthene	1.182254	1.201518	0.1	1.6	20	102
64 Pyrene	1.096733	1.099623	0.4	0.3	25	100
67 Benzo(a)anthracene	0.992967	0.988441	0.3	-0.5	20	100
68 3,3'-Dichlorobenzidine	0.252943	0.289961	0.01	14.6	40	115
70 Chrysene	0.985606	0.985007	0.2	-0.1	20	100
73 Benzo(b)fluoranthene	1.20538	1.175072	0.01	-2.5	25	97
74 Benzo(k)fluoranthene	1.198365	1.187393	0.01	-0.9	25	99

Report Date: 23-Dec-2015 13:35:59 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122102.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
75 Benzo(a)pyrene	1.103548	1.095975	0.01	-0.7	20	99
77 Indeno(1,2,3-cd)pyrene	1.242666	1.348014	0.01	8.5	25	108
78 Dibenzo(a,h)anthracene	1.081415	1.169527	0.01	8.1	25	108
79 Benzo(g,h,i)perylene	1.041399	1.164254	0.01	11.8	30	112
$ 93 bis-(2-Chloroethyl)ether	1.079628	1.119542	0.1	3.7	20	104
$ 96 2,4-Dichlorophenol-d3	0.230987	0.223748	0.06	-3.1	20	97
108 1,4-Dioxane	0.589117	0.650265	0.01	10.4	40	110
$ 109 1,4-Dioxane-d8	0.574046	0.656072	0.01	14.3	25	114

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122102.D		
Lab Sample ID:	SSTD0.2OP	Client Sample ID:	SSTD0.2OP
Injection Date:	21-Dec-2015 08:39:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, SVMS 1702		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544.m		
Method Date:	23-Dec-2015 13:34:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 13:34:30

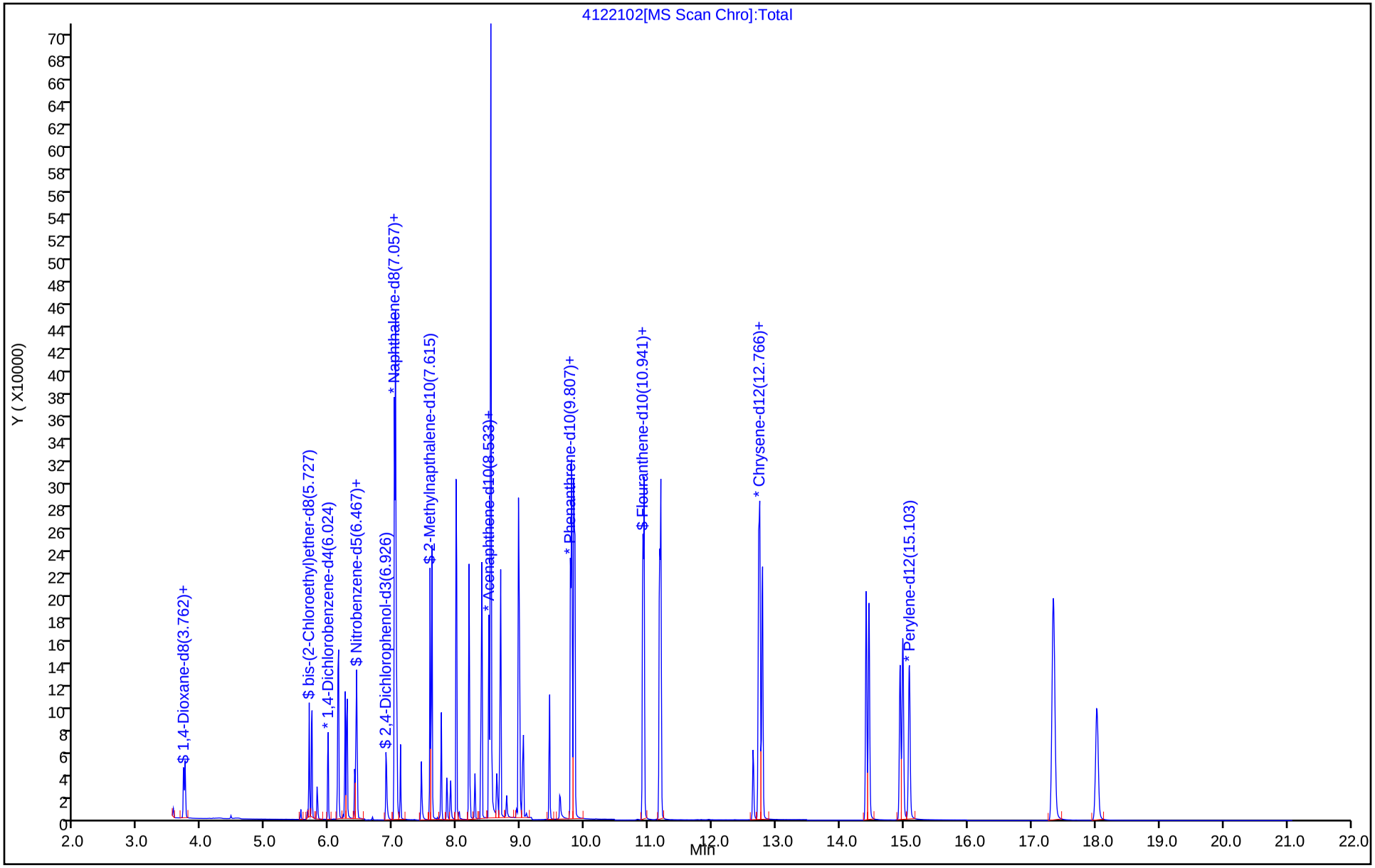
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.762	3.762	0.000	52308	0.40000	0.45716	
108 1,4-Dioxane	88.0	3.788	3.788	0.000	51845	0.40000	0.44152	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	89260	0.40000	0.41479	
5 bis(2-Chloroethyl)Ether	93.0	5.771	5.771	0.000	110489	0.40000	0.40659	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	79729	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.186	6.186	0.000	131251	0.40000	0.43367	
13 N-Nitroso-di-n-propylamine	70.0	6.290	6.290	0.000	65355	0.40000	0.42291	
15 Hexachloroethane	117.0	6.436	6.436	0.000	34112	0.40000	0.42519	
$ 16 Nitrobenzene-d5	128.0	6.457	6.457	0.000	41886	0.40000	0.41219	
17 Nitrobenzene	77.0	6.467	6.467	0.000	105204	0.40000	0.40585	
$ 96 2,4-Dichlorophenol-d3	165.0	6.926	6.926	0.000	83198	0.40000	0.38746	
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	371838	0.40000	0.40000	
24 Naphthalene	128.0	7.075	7.075	0.000	386109	0.40000	0.40037	
25 4-Chloroaniline	127.0	7.075	7.075	0.000	164553	0.40000	0.42823	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	55772	0.40000	0.41022	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	204740	0.40000	0.39823	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	224733	0.40000	0.39467	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	92164	0.40000	0.36628	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	43954	0.40000	0.33016	
34 1,1'-Biphenyl	154.0	8.021	8.021	0.000	303383	0.40000	0.35562	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	28350	0.40000	0.30342	
38 Acenaphthylene	152.0	8.425	8.425	0.000	218003	0.40000	0.29901	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	151569	0.40000	0.40000	

Report Date: 23-Dec-2015 13:35:59 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122102.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	200294	0.40000	0.33933	
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	121600	2.0000	1.9717	
46 2,4-Dinitrotoluene	165.0	8.657	8.657	0.000	37635	0.40000	0.38172	
45 Dibenzofuran	168.0	8.718	8.718	0.000	226414	0.40000	0.29797	
48 Fluorene	166.0	8.996	8.996	0.000	170983	0.40000	0.31897	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	14455	0.40000	0.42402	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	67006	0.40000	0.42010	
56 Atrazine	200.0	9.484	9.484	0.000	56975	0.40000	0.41162	
57 Pentachlorophenol	266.0	9.640	9.640	0.000	42550	0.80000	1.0638	
* 58 Phenanthrene-d10	188.0	9.807	9.807	0.000	274388	0.40000	0.40000	
59 Phenanthrene	178.0	9.828	9.828	0.000	308677	0.40000	0.41307	
60 Anthracene	178.0	9.880	9.880	0.000	294634	0.40000	0.40582	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	289615	0.40000	0.40030	
63 Fluoranthene	202.0	10.959	10.959	0.000	329682	0.40000	0.40652	
64 Pyrene	202.0	11.221	11.221	0.000	331808	0.40000	0.40105	
68 3,3'-Dichlorobenzidine	252.0	12.661	12.661	0.000	87495	0.40000	0.45854	
67 Benzo(a)anthracene	228.0	12.748	12.748	0.000	298259	0.40000	0.39818	
* 69 Chrysene-d12	240.0	12.766	12.766	0.000	301747	0.40000	0.40000	
70 Chrysene	228.0	12.810	12.810	0.000	297223	0.40000	0.39976	
73 Benzo(b)fluoranthene	252.0	14.429	14.429	0.000	298608	0.40000	0.38994	
74 Benzo(k)fluoranthene	252.0	14.473	14.473	0.000	301739	0.40000	0.39634	
75 Benzo(a)pyrene	252.0	15.000	15.000	0.000	278508	0.40000	0.39725	
* 76 Perylene-d12	264.0	15.103	15.103	0.000	254119	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.345	17.345	0.000	342556	0.40000	0.43391	
78 Dibenzo(a,h)anthracene	278.0	17.360	17.360	0.000	297199	0.40000	0.43259	
79 Benzo(g,h,i)perylene	276.0	18.030	18.030	0.000	295859	0.40000	0.44719	

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122102.D				
Injection Date:	21-Dec-2015 08:39:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.2OP	Lab ID:	SSTD0.2OP		
Sample Info:	4122115, SVMS 1702				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/21/2015 Time: 1533

Lab File ID: 4122117 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2OR Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
1,4-Dioxane	0.589	0.633	0.010	7.5	40.0
Naphthalene	1.037	1.032	0.200	-0.5	20.0
2-Methylnaphthalene	0.613	0.608	0.100	-0.7	20.0
Acenaphthylene	1.924	1.682	0.400	-12.6	20.0
Acenaphthene	1.558	1.400	0.200	-10.1	20.0
Fluorene	1.415	1.192	0.200	-15.7	20.0
Pentachlorophenol	0.058	0.066	0.010	13.1	40.0
Phenanthrene	1.089	1.120	0.200	2.8	20.0
Anthracene	1.058	1.100	0.200	3.9	20.0
Fluoranthene	1.182	1.214	0.100	2.7	20.0
Pyrene	1.097	1.035	0.400	-5.6	25.0
Benzo(a)anthracene	0.993	1.030	0.300	3.8	20.0
Chrysene	0.986	0.978	0.200	-0.8	20.0
Benzo(b)fluoranthene	1.205	1.205	0.010	0.0	25.0
Benzo(k)fluoranthene	1.198	1.253	0.010	4.6	25.0
Benzo(a)pyrene	1.104	1.124	0.010	1.9	20.0
Indeno(1,2,3-cd)pyrene	1.243	1.115	0.010	-10.2	25.0
Dibenzo(a,h)anthracene	1.081	0.989	0.010	-8.5	25.0
Benzo(g,h,i)perylene	1.041	0.859	0.010	-17.5	30.0
Dibenzofuran	2.005	1.763	0.300	-12.1	20.0
Hexachlorobenzene	0.233	0.243	0.050	4.4	20.0
Hexachlorobutadiene	0.146	0.151	0.040	2.9	20.0
bis(2-Chloroethyl)ether	1.363	1.393	0.100	2.2	20.0
2,2'-Oxybis(1-chloropropane)	1.518	1.619	0.010	6.6	25.0
N-Nitrosodi-n-propylamine	0.775	0.963	0.080	24.2	25.0
Hexachloroethane	0.403	0.442	0.100	9.8	20.0
Nitrobenzene	0.279	0.283	0.090	1.6	20.0
4-Chloroaniline	0.413	0.444	0.010	7.3	40.0
2,4,6-Trichlorophenol	0.351	0.321	0.090	-8.5	20.0
1,1'-Biphenyl	2.251	2.104	0.200	-6.5	20.0
2,6-Dinitrotoluene	0.247	0.222	0.080	-10.1	20.0
2,4-Dinitrophenol	0.163	0.081	0.010	-50.0	50.0
2,4-Dinitrotoluene	0.260	0.242	0.070	-7.0	20.0
4,6-Dinitro-2-methylphenol	0.050	0.033	0.010	-32.8	50.0
1,2,4,5-Tetrachlorobenzene	0.664	0.656	0.100	-1.3	20.0
Atrazine	0.202	0.220	0.010	8.8	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/21/2015 Time: 1533

Lab File ID: 4122117 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2OR Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
3,3'-Dichlorobenzidine	0.253	0.304	0.010	20.1	40.0
1,4-Dioxane-d8	0.574	0.628	0.010	9.5	25.0
Fluoranthene-d10	1.055	1.081	0.010	2.5	25.0
2-Methylnaphthalene-d10	0.553	0.557	0.010	0.6	25.0
Bis(2-Chloroethyl)ether-d8	1.080	1.105	0.100	2.3	20.0
Nitrobenzene-d5	0.109	0.118	0.050	8.1	20.0
2,4-Dichlorophenol-d3	0.231	0.234	0.060	1.1	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122117.D		
Lab Sample ID:	SSTD0.2OR	Client Sample ID:	SSTD0.2OR
Injection Date:	21-Dec-2015 15:33:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, SVMS 1702		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544-end.m		
Method Date:	22-Dec-2015 12:23:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 115 2-Methylnapthalene-d10	0.55306	0.556506	0.01	0.6	25	101
$ 116 Flouranthene-d10	1.054701	1.081165	0.01	2.5	25	103
5 bis(2-Chloroethyl)Ether	1.363344	1.393032	0.1	2.2	20	102
11 2,2'-oxybis(1-Chloroprop	1.518411	1.618562	0.01	6.6	25	107
13 N-Nitroso-di-n-propylami	0.775314	0.963116	0.08	24.2	25	124
15 Hexachloroethane	0.402506	0.442062	0.1	9.8	20	110
$ 16 Nitrobenzene-d5	0.109315	0.118133	0.05	8.1	20	108
17 Nitrobenzene	0.27885	0.283401	0.09	1.6	20	102
24 Naphthalene	1.037407	1.032342	0.2	-0.5	20	100
25 4-Chloroaniline	0.41337	0.443674	0.01	7.3	40	107
26 Hexachlorobutadiene	0.146252	0.150528	0.04	2.9	20	103
29 2-Methylnaphthalene	0.612539	0.608437	0.1	-0.7	20	99
31 2,4,6-Trichlorophenol	0.351337	0.321299	0.09	-8.5	20	91
34 1,1'-Biphenyl	2.251395	2.104044	0.2	-6.5	20	93
38 Acenaphthylene	1.924105	1.681759	0.4	-12.6	20	87
39 2,6-Dinitrotoluene	0.246579	0.221756	0.08	-10.1	20	90
42 Acenaphthene	1.557741	1.399756	0.2	-10.1	20	90
43 2,4-Dinitrophenol	0.162757	0.081409	0.01	-50	50	50
45 Dibenzofuran	2.005275	1.763281	0.3	-12.1	20	88
46 2,4-Dinitrotoluene	0.260192	0.241934	0.07	-7	20	93
92 1,2,4,5-Tetrachlorobenze	0.66404	0.655591	0.1	-1.3	20	99
48 Fluorene	1.414643	1.191942	0.2	-15.7	20	84
51 4,6-Dinitro-2-methylphen	0.049697	0.033382	0.01	-32.8	50	67
55 Hexachlorobenzene	0.232518	0.242766	0.05	4.4	20	104
56 Atrazine	0.201781	0.219505	0.01	8.8	25	109
57 Pentachlorophenol	0.058309	0.065957	0.01	13.1	40	113
59 Phenanthrene	1.089376	1.119787	0.2	2.8	20	103
60 Anthracene	1.058395	1.099697	0.2	3.9	20	104
63 Fluoranthene	1.182254	1.213659	0.1	2.7	20	103
64 Pyrene	1.096733	1.035033	0.4	-5.6	25	94
67 Benzo(a)anthracene	0.992967	1.030237	0.3	3.8	20	104
68 3,3'-Dichlorobenzidine	0.252943	0.303816	0.01	20.1	40	120
70 Chrysene	0.985606	0.978033	0.2	-0.8	20	99
73 Benzo(b)fluoranthene	1.20538	1.204842	0.01	0	25	100
74 Benzo(k)fluoranthene	1.198365	1.253194	0.01	4.6	25	105

Report Date: 22-Dec-2015 13:41:28 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122117.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
75 Benzo(a)pyrene	1.103548	1.124315	0.01	1.9	20	102
77 Indeno(1,2,3-cd)pyrene	1.242666	1.115415	0.01	-10.2	25	90
78 Dibenzo(a,h)anthracene	1.081415	0.989376	0.01	-8.5	25	91
79 Benzo(g,h,i)perylene	1.041399	0.859072	0.01	-17.5	30	82
$ 93 bis-(2-Chloroethyl)ether	1.079628	1.104932	0.1	2.3	20	102
$ 96 2,4-Dichlorophenol-d3	0.230987	0.233564	0.06	1.1	20	101
108 1,4-Dioxane	0.589117	0.633243	0.01	7.5	40	107
$ 109 1,4-Dioxane-d8	0.574046	0.628462	0.01	9.5	25	109

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122117.D		
Lab Sample ID:	SSTD0.2OR	Client Sample ID:	SSTD0.2OR
Injection Date:	21-Dec-2015 15:33:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122115, SVMS 1702		
Method:	\\Organics\HH\chem\msd4.i\4122115.b\Sim2544-end.m		
Method Date:	22-Dec-2015 12:23:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 12:23:30

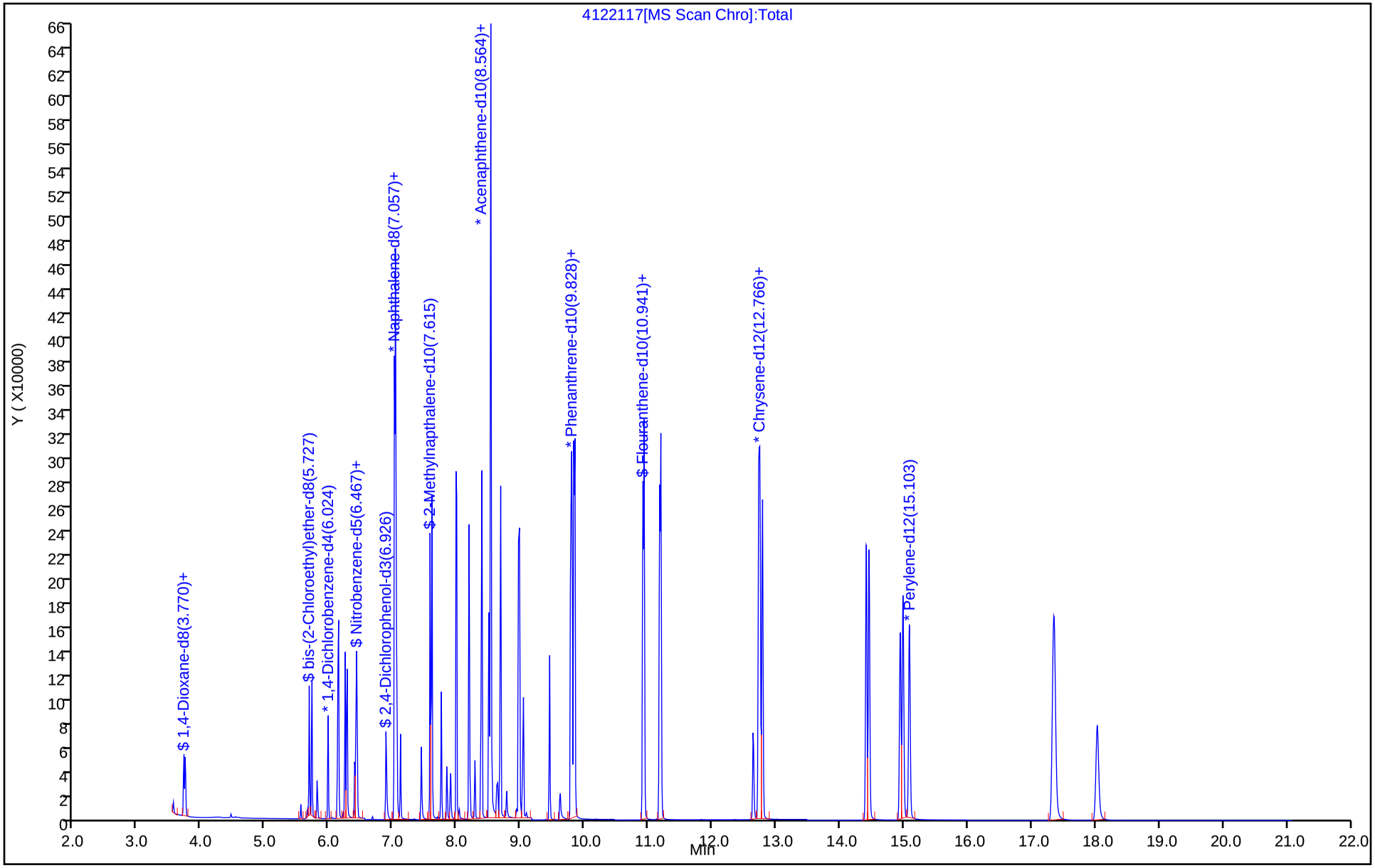
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.770	3.770	0.000	52310	0.40000	0.43792	
108 1,4-Dioxane	88.0	3.788	3.788	0.000	52708	0.40000	0.42996	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	91969	0.40000	0.40938	
5 bis(2-Chloroethyl)Ether	93.0	5.771	5.771	0.000	115949	0.40000	0.40871	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	83235	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.186	6.186	0.000	134721	0.40000	0.42638	
13 N-Nitroso-di-n-propylamine	70.0	6.290	6.290	0.000	80165	0.40000	0.49689	
15 Hexachloroethane	117.0	6.436	6.436	0.000	36795	0.40000	0.43931	
$ 16 Nitrobenzene-d5	128.0	6.457	6.457	0.000	46604	0.40000	0.43227	
17 Nitrobenzene	77.0	6.467	6.467	0.000	111803	0.40000	0.40653	
$ 96 2,4-Dichlorophenol-d3	165.0	6.926	6.926	0.000	92142	0.40000	0.40446	
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	394504	0.40000	0.40000	
24 Naphthalene	128.0	7.075	7.075	0.000	407263	0.40000	0.39805	
25 4-Chloroaniline	127.0	7.075	7.075	0.000	175031	0.40000	0.42932	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	59384	0.40000	0.41169	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	219544	0.40000	0.40249	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	240031	0.40000	0.39732	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	98184	0.40000	0.39491	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	48119	0.40000	0.36580	
34 1,1'-Biphenyl	154.0	8.031	8.031	0.000	315110	0.40000	0.37382	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	33211	0.40000	0.35973	
38 Acenaphthylene	152.0	8.425	8.425	0.000	251867	0.40000	0.34962	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	149764	0.40000	0.40000	

Report Date: 22-Dec-2015 13:41:28 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122117.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	209633	0.40000	0.35943	
43 2,4-Dinitrophenol	184.0	8.579	8.579	0.000	60961	2.0000	1.0004	
46 2,4-Dinitrotoluene	165.0	8.672	8.672	0.000	36233	0.40000	0.37193	
45 Dibenzofuran	168.0	8.718	8.718	0.000	264076	0.40000	0.35173	
48 Fluorene	166.0	9.012	9.012	0.000	178510	0.40000	0.33703	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	9588	0.40000	0.26869	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	69727	0.40000	0.41763	
56 Atrazine	200.0	9.484	9.484	0.000	63046	0.40000	0.43514	
57 Pentachlorophenol	266.0	9.650	9.650	0.000	37888	0.80000	0.90493	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	287219	0.40000	0.40000	
59 Phenanthrene	178.0	9.828	9.828	0.000	321624	0.40000	0.41117	
60 Anthracene	178.0	9.880	9.880	0.000	315854	0.40000	0.41561	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	310531	0.40000	0.41004	
63 Fluoranthene	202.0	10.959	10.959	0.000	348586	0.40000	0.41063	
64 Pyrene	202.0	11.221	11.221	0.000	353947	0.40000	0.37750	
68 3,3'-Dichlorobenzidine	252.0	12.661	12.661	0.000	103895	0.40000	0.48045	
67 Benzo(a)anthracene	228.0	12.748	12.748	0.000	352307	0.40000	0.41501	
* 69 Chrysene-d12	240.0	12.766	12.766	0.000	341967	0.40000	0.40000	
70 Chrysene	228.0	12.810	12.810	0.000	334455	0.40000	0.39693	
73 Benzo(b)fluoranthene	252.0	14.429	14.429	0.000	345215	0.40000	0.39982	
74 Benzo(k)fluoranthene	252.0	14.473	14.473	0.000	359069	0.40000	0.41830	
75 Benzo(a)pyrene	252.0	15.003	15.003	0.000	322142	0.40000	0.40753	
* 76 Perylene-d12	264.0	15.103	15.103	0.000	286523	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.349	17.349	0.000	319592	0.40000	0.35904	
78 Dibenzo(a,h)anthracene	278.0	17.371	17.371	0.000	283479	0.40000	0.36596	
79 Benzo(g,h,i)perylene	276.0	18.037	18.037	0.000	246144	0.40000	0.32997	

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122117.D				
Injection Date:	21-Dec-2015 15:33:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.2OR	Lab ID:	SSTD0.2OR		
Sample Info:	4122115, SVMS 1702				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/22/2015 Time: 0934

Lab File ID: 41222B02 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2OT Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
1,4-Dioxane	0.589	0.638	0.010	8.3	40.0
Naphthalene	1.037	1.023	0.200	-1.4	20.0
2-Methylnaphthalene	0.613	0.610	0.100	-0.4	20.0
Acenaphthylene	1.924	1.627	0.400	-15.4	20.0
Acenaphthene	1.558	1.386	0.200	-11.0	20.0
Fluorene	1.415	1.174	0.200	-17.0	20.0
Pentachlorophenol	0.058	0.067	0.010	15.3	40.0
Phenanthrene	1.089	1.105	0.200	1.5	20.0
Anthracene	1.058	1.078	0.200	1.9	20.0
Fluoranthene	1.182	1.205	0.100	2.0	20.0
Pyrene	1.097	1.060	0.400	-3.4	25.0
Benzo(a)anthracene	0.993	1.007	0.300	1.4	20.0
Chrysene	0.986	0.978	0.200	-0.8	20.0
Benzo(b)fluoranthene	1.205	1.190	0.010	-1.3	25.0
Benzo(k)fluoranthene	1.198	1.203	0.010	0.4	25.0
Benzo(a)pyrene	1.104	1.106	0.010	0.2	20.0
Indeno(1,2,3-cd)pyrene	1.243	1.352	0.010	8.8	25.0
Dibenzo(a,h)anthracene	1.081	1.172	0.010	8.4	25.0
Benzo(g,h,i)perylene	1.041	1.149	0.010	10.4	30.0
Dibenzofuran	2.005	1.716	0.300	-14.4	20.0
Hexachlorobenzene	0.233	0.242	0.050	3.9	20.0
Hexachlorobutadiene	0.146	0.149	0.040	2.1	20.0
bis(2-Chloroethyl)ether	1.363	1.387	0.100	1.7	20.0
2,2'-Oxybis(1-chloropropane)	1.518	1.691	0.010	11.3	25.0
N-Nitrosodi-n-propylamine	0.775	0.947	0.080	22.1	25.0
Hexachloroethane	0.403	0.435	0.100	8.2	20.0
Nitrobenzene	0.279	0.284	0.090	2.0	20.0
4-Chloroaniline	0.413	0.449	0.010	8.5	40.0
2,4,6-Trichlorophenol	0.351	0.300	0.090	-14.7	20.0
1,1'-Biphenyl	2.251	2.048	0.200	-9.0	20.0
2,6-Dinitrotoluene	0.247	0.209	0.080	-15.2	20.0
2,4-Dinitrophenol	0.163	0.173	0.010	6.2	50.0
2,4-Dinitrotoluene	0.260	0.262	0.070	0.8	20.0
4,6-Dinitro-2-methylphenol	0.050	0.057	0.010	13.8	30.0
1,2,4,5-Tetrachlorobenzene	0.664	0.631	0.100	-5.0	20.0
Atrazine	0.202	0.216	0.010	6.8	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/22/2015 Time: 0934

Lab File ID: 41222B02 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2OT Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
3,3'-Dichlorobenzidine	0.253	0.319	0.010	26.2	40.0
1,4-Dioxane-d8	0.574	0.640	0.010	11.4	25.0
Fluoranthene-d10	1.055	1.068	0.010	1.2	25.0
2-Methylnaphthalene-d10	0.553	0.559	0.010	1.0	25.0
Bis(2-Chloroethyl)ether-d8	1.080	1.118	0.100	3.6	20.0
Nitrobenzene-d5	0.109	0.112	0.050	2.6	20.0
2,4-Dichlorophenol-d3	0.231	0.225	0.060	-2.6	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd4.i\4122215B.b\41222B02.D
Lab Sample ID: SSTD0.2OT Client Sample ID: SSTD0.2OT
Injection Date: 22-Dec-2015 09:34:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd4.i
Sample Info: 4122215B, SVMS 1702
Method: \\Organics\HH\chem\msd4.i\4122215B.b\SIM2544.m
Method Date: 22-Dec-2015 13:48:30 Quant Method: ISTD
Calib Date: 18-Dec-2015 16:36:30 Calib File: 41218B07.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 115 2-Methylnapthalene-d10	0.55306	0.558792	0.01	1	25	101
$ 116 Flouranthene-d10	1.054701	1.067762	0.01	1.2	25	101
5 bis(2-Chloroethyl)Ether	1.363344	1.387076	0.1	1.7	20	102
11 2,2'-oxybis(1-Chloroprop	1.518411	1.690575	0.01	11.3	25	111
13 N-Nitroso-di-n-propylami	0.775314	0.947024	0.08	22.1	25	122
15 Hexachloroethane	0.402506	0.435418	0.1	8.2	20	108
$ 16 Nitrobenzene-d5	0.109315	0.112155	0.05	2.6	20	103
17 Nitrobenzene	0.27885	0.284489	0.09	2	20	102
24 Naphthalene	1.037407	1.023246	0.2	-1.4	20	99
25 4-Chloroaniline	0.41337	0.448618	0.01	8.5	40	109
26 Hexachlorobutadiene	0.146252	0.149334	0.04	2.1	20	102
29 2-Methylnaphthalene	0.612539	0.609902	0.1	-0.4	20	100
31 2,4,6-Trichlorophenol	0.351337	0.299653	0.09	-14.7	20	85
34 1,1'-Biphenyl	2.251395	2.047647	0.2	-9	20	91
38 Acenaphthylene	1.924105	1.627205	0.4	-15.4	20	85
39 2,6-Dinitrotoluene	0.246579	0.209059	0.08	-15.2	20	85
42 Acenaphthene	1.557741	1.385907	0.2	-11	20	89
43 2,4-Dinitrophenol	0.162757	0.17277	0.01	6.2	50	106
45 Dibenzofuran	2.005275	1.716392	0.3	-14.4	20	86
46 2,4-Dinitrotoluene	0.260192	0.262339	0.07	0.8	20	101
92 1,2,4,5-Tetrachlorobenze	0.66404	0.630881	0.1	-5	20	95
48 Fluorene	1.414643	1.174357	0.2	-17	20	83
51 4,6-Dinitro-2-methylphen	0.049697	0.056548	0.01	13.8	30	114
55 Hexachlorobenzene	0.232518	0.24156	0.05	3.9	20	104
56 Atrazine	0.201781	0.215587	0.01	6.8	25	107
57 Pentachlorophenol	0.058309	0.067239	0.01	15.3	40	115
59 Phenanthrene	1.089376	1.105294	0.2	1.5	20	101
60 Anthracene	1.058395	1.078078	0.2	1.9	20	102
63 Fluoranthene	1.182254	1.205402	0.1	2	20	102
64 Pyrene	1.096733	1.059873	0.4	-3.4	25	97
67 Benzo(a)anthracene	0.992967	1.006901	0.3	1.4	20	101
68 3,3'-Dichlorobenzidine	0.252943	0.319325	0.01	26.2	40	126
70 Chrysene	0.985606	0.977909	0.2	-0.8	20	99
73 Benzo(b)fluoranthene	1.20538	1.189582	0.01	-1.3	25	99
74 Benzo(k)fluoranthene	1.198365	1.202605	0.01	0.4	25	100

Report Date: 22-Dec-2015 15:27:43 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122215B.b\41222B02.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
75 Benzo(a)pyrene	1.103548	1.105963	0.01	0.2	20	100
77 Indeno(1,2,3-cd)pyrene	1.242666	1.351638	0.01	8.8	25	109
78 Dibenzo(a,h)anthracene	1.081415	1.172052	0.01	8.4	25	108
79 Benzo(g,h,i)perylene	1.041399	1.149212	0.01	10.4	30	110
$ 93 bis-(2-Chloroethyl)ether	1.079628	1.118051	0.1	3.6	20	104
$ 96 2,4-Dichlorophenol-d3	0.230987	0.224923	0.06	-2.6	20	97
108 1,4-Dioxane	0.589117	0.637906	0.01	8.3	40	108
$ 109 1,4-Dioxane-d8	0.574046	0.639664	0.01	11.4	25	111

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B02.D		
Lab Sample ID:	SSTD0.2OT	Client Sample ID:	SSTD0.2OT
Injection Date:	22-Dec-2015 09:34:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122215B, SVMS 1702		
Method:	\\Organics\HH\chem\msd4.i\4122215B.b\SIM2544.m		
Method Date:	22-Dec-2015 13:48:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 09:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.761	3.761	0.000	52029	0.40000	0.44572	
108 1,4-Dioxane	88.0	3.788	3.788	0.000	51886	0.40000	0.43313	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	90940	0.40000	0.41424	
5 bis(2-Chloroethyl)Ether	93.0	5.770	5.770	0.000	112822	0.40000	0.40696	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	81338	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.184	6.184	0.000	137508	0.40000	0.44535	
13 N-Nitroso-di-n-propylamine	70.0	6.288	6.288	0.000	77029	0.40000	0.48859	
15 Hexachloroethane	117.0	6.434	6.434	0.000	35416	0.40000	0.43271	
$ 16 Nitrobenzene-d5	128.0	6.455	6.455	0.000	42984	0.40000	0.41039	
17 Nitrobenzene	77.0	6.476	6.476	0.000	109032	0.40000	0.40809	
$ 96 2,4-Dichlorophenol-d3	165.0	6.926	6.926	0.000	86203	0.40000	0.38950	
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	383255	0.40000	0.40000	
24 Naphthalene	128.0	7.074	7.074	0.000	392164	0.40000	0.39454	
25 4-Chloroaniline	127.0	7.074	7.074	0.000	171935	0.40000	0.43411	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	57233	0.40000	0.40843	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	214160	0.40000	0.40415	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	233748	0.40000	0.39828	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	94207	0.40000	0.38003	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	44746	0.40000	0.34116	
34 1,1'-Biphenyl	154.0	8.031	8.031	0.000	305767	0.40000	0.36380	
39 2,6-Dinitrotoluene	165.0	8.316	8.316	0.000	31218	0.40000	0.33914	
38 Acenaphthylene	152.0	8.425	8.425	0.000	242984	0.40000	0.33828	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	149326	0.40000	0.40000	

Report Date: 22-Dec-2015 15:27:44 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122215B.b\41222B02.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	206952	0.40000	0.35588	
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	128995	2.0000	2.1230	
46 2,4-Dinitrotoluene	165.0	8.656	8.656	0.000	39174	0.40000	0.40330	
45 Dibenzofuran	168.0	8.718	8.718	0.000	256302	0.40000	0.34238	
48 Fluorene	166.0	9.012	9.012	0.000	175362	0.40000	0.33206	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	16379	0.40000	0.45514	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	69967	0.40000	0.41555	
56 Atrazine	200.0	9.484	9.484	0.000	62444	0.40000	0.42737	
57 Pentachlorophenol	266.0	9.650	9.650	0.000	38951	0.80000	0.92252	M
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	289646	0.40000	0.40000	
59 Phenanthrene	178.0	9.827	9.827	0.000	320144	0.40000	0.40584	
60 Anthracene	178.0	9.879	9.879	0.000	312261	0.40000	0.40744	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	309273	0.40000	0.40495	
63 Fluoranthene	202.0	10.959	10.959	0.000	349140	0.40000	0.40783	
64 Pyrene	202.0	11.221	11.221	0.000	354308	0.40000	0.38656	
68 3,3'-Dichlorobenzidine	252.0	12.661	12.661	0.000	106748	0.40000	0.50497	
67 Benzo(a)anthracene	228.0	12.748	12.748	0.000	336600	0.40000	0.40561	
* 69 Chrysene-d12	240.0	12.766	12.766	0.000	334293	0.40000	0.40000	
70 Chrysene	228.0	12.809	12.809	0.000	326908	0.40000	0.39688	
73 Benzo(b)fluoranthene	252.0	14.432	14.432	0.000	337871	0.40000	0.39476	
74 Benzo(k)fluoranthene	252.0	14.476	14.476	0.000	341570	0.40000	0.40142	
75 Benzo(a)pyrene	252.0	15.003	15.003	0.000	314121	0.40000	0.40088	
* 76 Perylene-d12	264.0	15.103	15.103	0.000	284025	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.353	17.353	0.000	383899	0.40000	0.43508	
78 Dibenzo(a,h)anthracene	278.0	17.367	17.367	0.000	332892	0.40000	0.43353	
79 Benzo(g,h,i)perylene	276.0	18.037	18.037	0.000	326405	0.40000	0.44141	

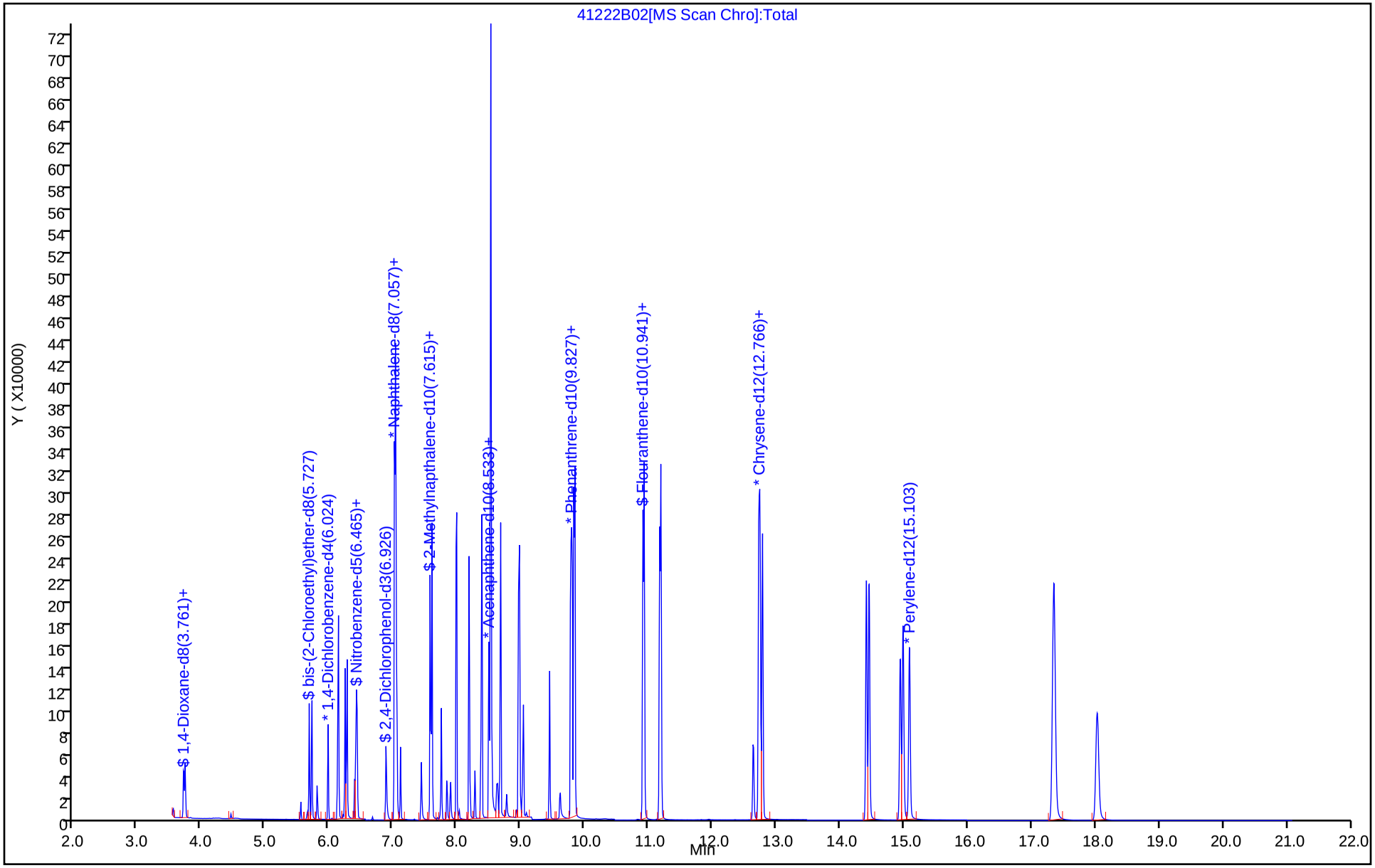
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B02.D				
Injection Date:	22-Dec-2015 09:34:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.2OT	Lab ID:	SSTD0.2OT		
Sample Info:	4122215B, SVMS 1702				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 22-Dec-2015 15:27:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

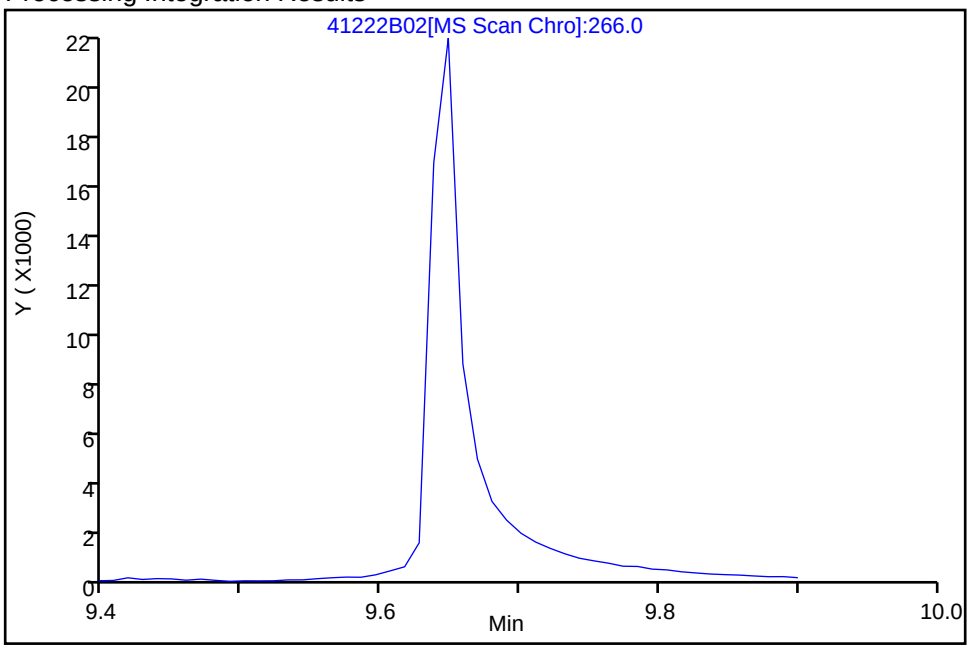
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B02.D		
Injection Date:	22-Dec-2015 09:34:30	Inst. ID:	msd4.i
Client ID:	SSTD0.2OT	Lab ID:	SSTD0.2OT
Sample Info:	4122215B, SVMS 1702		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

57 Pentachlorophenol, CAS: 87-86-5

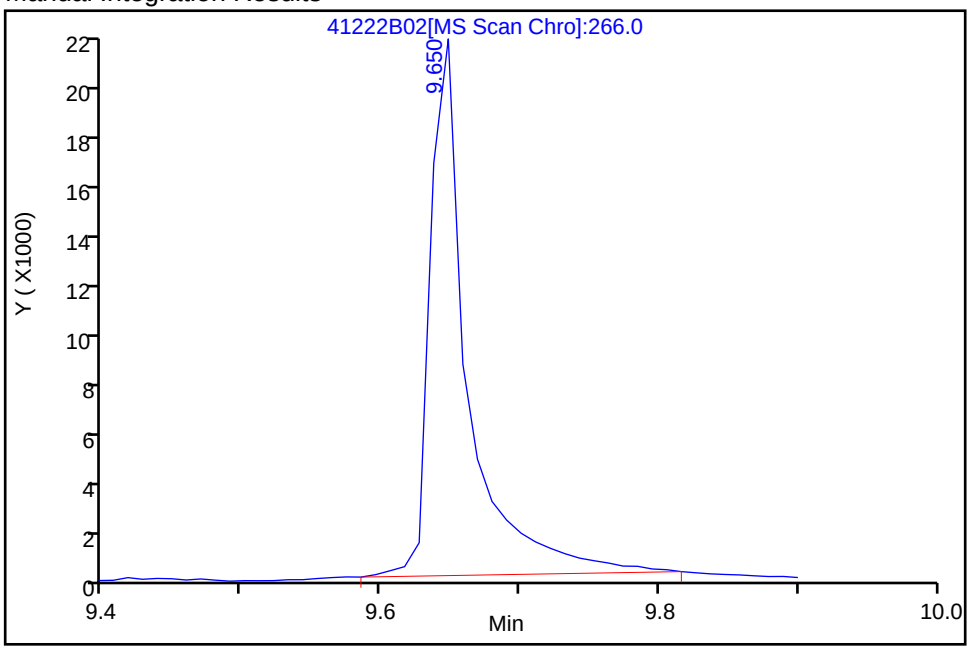
Not Detected
9.650

Processing Integration Results



Manual Integration Results

RT:	9.650
Area:	38951
Amount:	0.92252
Amount Units:	ng/ul



Data Editor: rbh, 22-Dec-2015 09:58:30
Audit Action: Mint
Audit Reason: IAI

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/22/2015 Time: 1443

Lab File ID: 41222B04 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2OW Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
1,4-Dioxane	0.589	0.620	0.010	5.2	40.0
Naphthalene	1.037	1.017	0.200	-2.0	20.0
2-Methylnaphthalene	0.613	0.605	0.100	-1.3	20.0
Acenaphthylene	1.924	1.291	0.400	-32.9	25.0
Acenaphthene	1.558	1.071	0.200	-31.2	25.0
Fluorene	1.415	1.006	0.200	-28.9	50.0
Pentachlorophenol	0.058	0.087	0.010	49.4	50.0
Phenanthrene	1.089	1.100	0.200	1.0	20.0
Anthracene	1.058	1.106	0.200	4.5	20.0
Fluoranthene	1.182	1.266	0.100	7.1	20.0
Pyrene	1.097	1.054	0.400	-3.9	25.0
Benzo(a)anthracene	0.993	1.063	0.300	7.0	20.0
Chrysene	0.986	0.977	0.200	-0.8	20.0
Benzo(b)fluoranthene	1.205	1.116	0.010	-7.5	25.0
Benzo(k)fluoranthene	1.198	1.152	0.010	-3.9	25.0
Benzo(a)pyrene	1.104	1.092	0.010	-1.1	20.0
Indeno(1,2,3-cd)pyrene	1.243	1.335	0.010	7.4	25.0
Dibenzo(a,h)anthracene	1.081	1.144	0.010	5.8	25.0
Benzo(g,h,i)perylene	1.041	1.131	0.010	8.6	30.0
Dibenzofuran	2.005	1.211	0.300	-39.6	50.0
Hexachlorobenzene	0.233	0.246	0.050	5.6	20.0
Hexachlorobutadiene	0.146	0.151	0.040	3.0	20.0
bis(2-Chloroethyl)ether	1.363	1.262	0.100	-7.4	20.0
2,2'-Oxybis(1-chloropropane)	1.518	1.618	0.010	6.6	25.0
N-Nitrosodi-n-propylamine	0.775	0.878	0.080	13.2	25.0
Hexachloroethane	0.403	0.452	0.100	12.3	20.0
Nitrobenzene	0.279	0.289	0.090	3.7	20.0
4-Chloroaniline	0.413	0.466	0.010	12.7	40.0
2,4,6-Trichlorophenol	0.351	0.277	0.090	-21.3	50.0
1,1'-Biphenyl	2.251	1.744	0.200	-22.6	50.0
2,6-Dinitrotoluene	0.247	0.173	0.080	-29.7	50.0
2,4-Dinitrophenol	0.163	0.142	0.010	-12.8	50.0
2,4-Dinitrotoluene	0.260	0.242	0.070	-6.8	20.0
4,6-Dinitro-2-methylphenol	0.050	0.055	0.010	10.3	30.0
1,2,4,5-Tetrachlorobenzene	0.664	0.525	0.100	-20.9	50.0
Atrazine	0.202	0.237	0.010	17.4	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/22/2015 Time: 1443

Lab File ID: 41222B04 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2OW Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
3,3'-Dichlorobenzidine	0.253	0.360	0.010	42.4	50.0
1,4-Dioxane-d8	0.574	0.606	0.010	5.6	25.0
Fluoranthene-d10	1.055	1.153	0.010	9.3	25.0
2-Methylnaphthalene-d10	0.553	0.552	0.010	-0.1	25.0
Bis(2-Chloroethyl)ether-d8	1.080	1.108	0.100	2.6	20.0
Nitrobenzene-d5	0.109	0.119	0.050	8.9	20.0
2,4-Dichlorophenol-d3	0.231	0.234	0.060	1.3	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd4.i\4122215B.b\41222B04.D
Lab Sample ID: SSTD0.2OW Client Sample ID: SSTD0.2OW
Injection Date: 22-Dec-2015 14:43:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd4.i
Sample Info: 4122215B, SVMS 1702
Method: \\Organics\HH\chem\msd4.i\4122215B.b\Sim2544-end.m
Method Date: 22-Dec-2015 15:27:30 Quant Method: ISTD
Calib Date: 18-Dec-2015 16:36:30 Calib File: 41218B07.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 115 2-Methylnapthalene-d10	0.55306	0.552395	0.01	-0.1	25	100
$ 116 Flouranthene-d10	1.054701	1.153036	0.01	9.3	25	109
5 bis(2-Chloroethyl)Ether	1.363344	1.262005	0.1	-7.4	20	93
11 2,2'-oxybis(1-Chloroprop	1.518411	1.618145	0.01	6.6	25	107
13 N-Nitroso-di-n-propylami	0.775314	0.877657	0.08	13.2	25	113
15 Hexachloroethane	0.402506	0.451979	0.1	12.3	20	112
$ 16 Nitrobenzene-d5	0.109315	0.119048	0.05	8.9	20	109
17 Nitrobenzene	0.27885	0.289233	0.09	3.7	20	104
24 Naphthalene	1.037407	1.016853	0.2	-2	20	98
25 4-Chloroaniline	0.41337	0.465668	0.01	12.7	40	113
26 Hexachlorobutadiene	0.146252	0.150686	0.04	3	20	103
29 2-Methylnaphthalene	0.612539	0.604707	0.1	-1.3	20	99
31 2,4,6-Trichlorophenol	0.351337	0.276601	0.09	-21.3	50	79
34 1,1'-Biphenyl	2.251395	1.743635	0.2	-22.6	50	77
38 Acenaphthylene	1.924105	1.290564	0.4	* -32.9	25	67
39 2,6-Dinitrotoluene	0.246579	0.173291	0.08	-29.7	50	70
42 Acenaphthene	1.557741	1.071376	0.2	* -31.2	25	69
43 2,4-Dinitrophenol	0.162757	0.141914	0.01	-12.8	50	87
45 Dibenzofuran	2.005275	1.211124	0.3	-39.6	50	60
46 2,4-Dinitrotoluene	0.260192	0.242445	0.07	-6.8	20	93
92 1,2,4,5-Tetrachlorobenze	0.66404	0.525374	0.1	-20.9	50	79
48 Fluorene	1.414643	1.006137	0.2	-28.9	50	71
51 4,6-Dinitro-2-methylphen	0.049697	0.054803	0.01	10.3	30	110
55 Hexachlorobenzene	0.232518	0.24562	0.05	5.6	20	106
56 Atrazine	0.201781	0.236827	0.01	17.4	25	117
57 Pentachlorophenol	0.058309	0.087085	0.01	49.4	50	149
59 Phenanthrene	1.089376	1.100338	0.2	1	20	101
60 Anthracene	1.058395	1.105849	0.2	4.5	20	104
63 Fluoranthene	1.182254	1.265806	0.1	7.1	20	107
64 Pyrene	1.096733	1.053551	0.4	-3.9	25	96
67 Benzo(a)anthracene	0.992967	1.06265	0.3	7	20	107
68 3,3'-Dichlorobenzidine	0.252943	0.360287	0.01	42.4	50	142
70 Chrysene	0.985606	0.977264	0.2	-0.8	20	99
73 Benzo(b)fluoranthene	1.20538	1.115516	0.01	-7.5	25	93
74 Benzo(k)fluoranthene	1.198365	1.151877	0.01	-3.9	25	96

Report Date: 22-Dec-2015 15:27:44 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122215B.b\41222B04.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
75 Benzo(a)pyrene	1.103548	1.091659	0.01	-1.1	20	99
77 Indeno(1,2,3-cd)pyrene	1.242666	1.334987	0.01	7.4	25	107
78 Dibenzo(a,h)anthracene	1.081415	1.144422	0.01	5.8	25	106
79 Benzo(g,h,i)perylene	1.041399	1.130532	0.01	8.6	30	109
$ 93 bis-(2-Chloroethyl)ether	1.079628	1.107541	0.1	2.6	20	103
$ 96 2,4-Dichlorophenol-d3	0.230987	0.233992	0.06	1.3	20	101
108 1,4-Dioxane	0.589117	0.619647	0.01	5.2	40	105
$ 109 1,4-Dioxane-d8	0.574046	0.606145	0.01	5.6	25	106

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B04.D		
Lab Sample ID:	SSTD0.2OW	Client Sample ID:	SSTD0.2OW
Injection Date:	22-Dec-2015 14:43:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122215B, SVMS 1702		
Method:	\\Organics\HH\chem\msd4.i\4122215B.b\Sim2544-end.m		
Method Date:	22-Dec-2015 15:27:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 15:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.753	3.753	0.000	50818	0.40000	0.42237	
108 1,4-Dioxane	88.0	3.779	3.779	0.000	51950	0.40000	0.42073	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	92854	0.40000	0.41034	
5 bis(2-Chloroethyl)Ether	93.0	5.762	5.762	0.000	105804	0.40000	0.37027	M
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	83838	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.175	6.175	0.000	135662	0.40000	0.42627	
13 N-Nitroso-di-n-propylamine	70.0	6.290	6.290	0.000	73581	0.40000	0.45280	
15 Hexachloroethane	117.0	6.436	6.436	0.000	37893	0.40000	0.44916	
$ 16 Nitrobenzene-d5	128.0	6.457	6.457	0.000	48416	0.40000	0.43561	
17 Nitrobenzene	77.0	6.467	6.467	0.000	117629	0.40000	0.41489	
$ 96 2,4-Dichlorophenol-d3	165.0	6.926	6.926	0.000	95163	0.40000	0.40520	
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	406693	0.40000	0.40000	
24 Naphthalene	128.0	7.074	7.074	0.000	413547	0.40000	0.39207	
25 4-Chloroaniline	127.0	7.092	7.092	0.000	189384	0.40000	0.45061	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	61283	0.40000	0.41213	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	224655	0.40000	0.39952	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	245930	0.40000	0.39489	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	99302	0.40000	0.31647	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	52281	0.40000	0.31491	
34 1,1'-Biphenyl	154.0	8.021	8.021	0.000	329568	0.40000	0.30979	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	32754	0.40000	0.28111	
38 Acenaphthylene	152.0	8.425	8.425	0.000	243932	0.40000	0.26829	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	189012	0.40000	0.40000	

Report Date: 22-Dec-2015 15:27:45 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122215B.b\41222B04.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	202503	0.40000	0.27511	
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	134117	2.0000	1.7439	
46 2,4-Dinitrotoluene	165.0	8.656	8.656	0.000	45825	0.40000	0.37272	
45 Dibenzofuran	168.0	8.718	8.718	0.000	228917	0.40000	0.24159	
48 Fluorene	166.0	8.996	8.996	0.000	190172	0.40000	0.28449	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	16192	0.40000	0.44109	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	72571	0.40000	0.42254	
56 Atrazine	200.0	9.484	9.484	0.000	69973	0.40000	0.46947	
57 Pentachlorophenol	266.0	9.640	9.640	0.000	51460	0.80000	1.1948	
* 58 Phenanthrene-d10	188.0	9.807	9.807	0.000	295460	0.40000	0.40000	
59 Phenanthrene	178.0	9.827	9.827	0.000	325106	0.40000	0.40403	
60 Anthracene	178.0	9.869	9.869	0.000	326734	0.40000	0.41793	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	340676	0.40000	0.43729	
63 Fluoranthene	202.0	10.959	10.959	0.000	373995	0.40000	0.42827	
64 Pyrene	202.0	11.221	11.221	0.000	378034	0.40000	0.38425	
68 3,3'-Dichlorobenzidine	252.0	12.661	12.661	0.000	129278	0.40000	0.56975	
67 Benzo(a)anthracene	228.0	12.748	12.748	0.000	381299	0.40000	0.42807	
* 69 Chrysene-d12	240.0	12.766	12.766	0.000	358819	0.40000	0.40000	
70 Chrysene	228.0	12.809	12.809	0.000	350661	0.40000	0.39661	
73 Benzo(b)fluoranthene	252.0	14.429	14.429	0.000	380199	0.40000	0.37018	
74 Benzo(k)fluoranthene	252.0	14.473	14.473	0.000	392592	0.40000	0.38448	
75 Benzo(a)pyrene	252.0	15.003	15.003	0.000	372068	0.40000	0.39569	
* 76 Perylene-d12	264.0	15.103	15.103	0.000	340828	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.349	17.349	0.000	455001	0.40000	0.42972	
78 Dibenzo(a,h)anthracene	278.0	17.367	17.367	0.000	390051	0.40000	0.42331	
79 Benzo(g,h,i)perylene	276.0	18.034	18.034	0.000	385317	0.40000	0.43424	

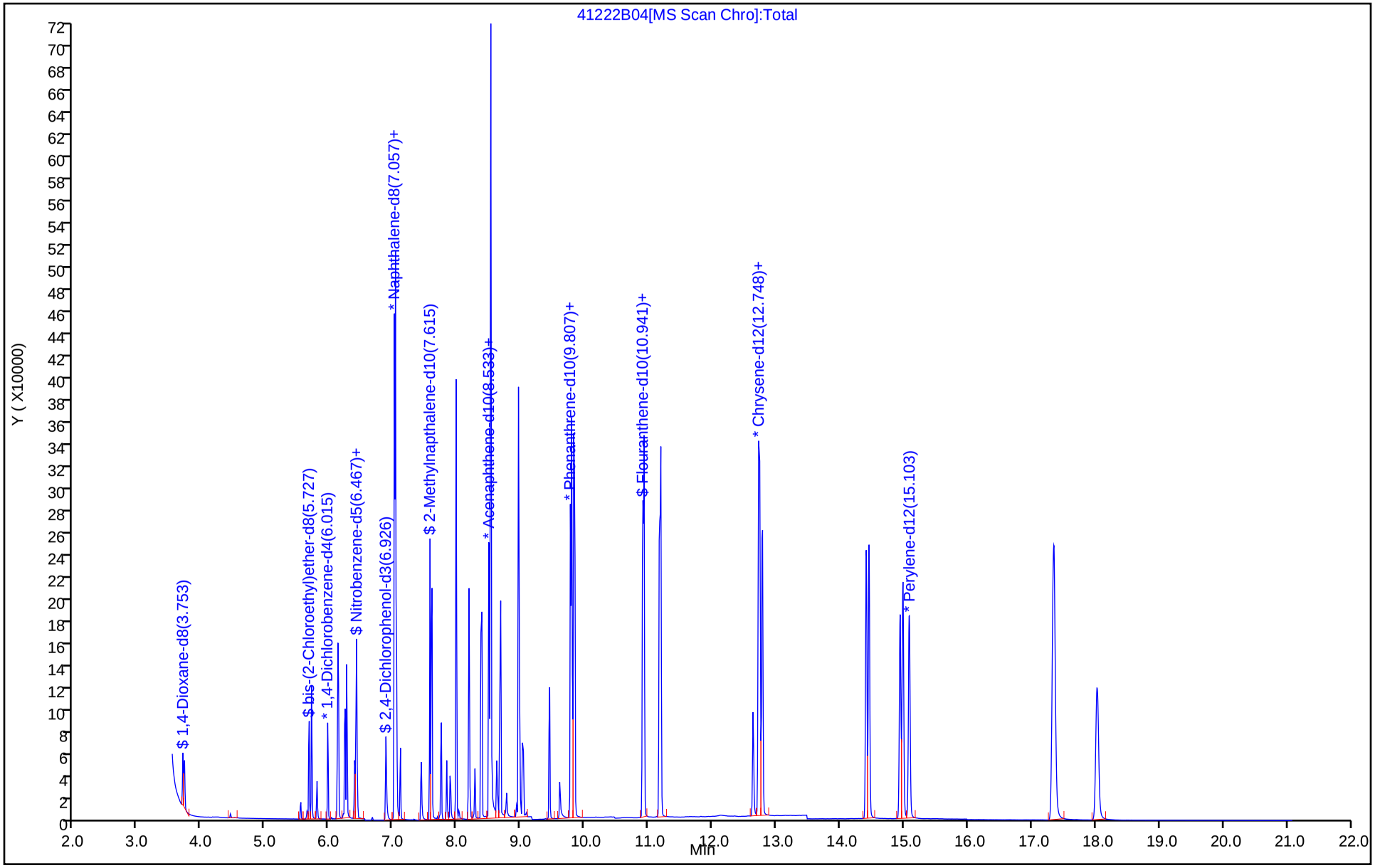
QC Flag Legend

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B04.D				
Injection Date:	22-Dec-2015 14:43:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.2OW	Lab ID:	SSTD0.2OW		
Sample Info:	4122215B, SVMS 1702				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 22-Dec-2015 15:27:45 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

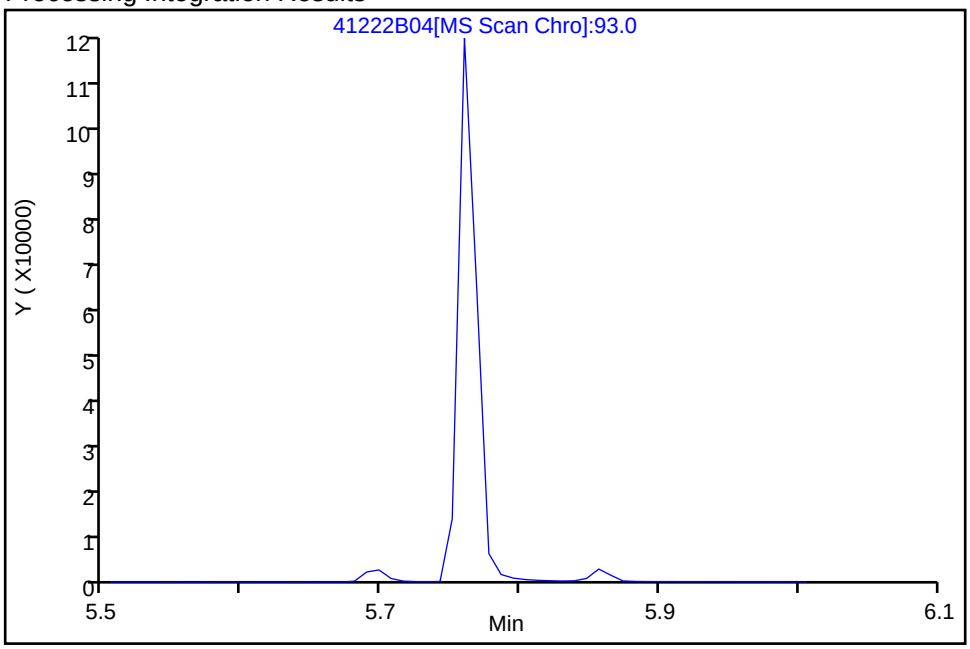
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B04.D		
Injection Date:	22-Dec-2015 14:43:30	Inst. ID:	msd4.i
Client ID:	SSTD0.2OW	Lab ID:	SSTD0.2OW
Sample Info:	4122215B, SVMS 1702		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

5 bis(2-Chloroethyl)Ether, CAS: 111-44-4

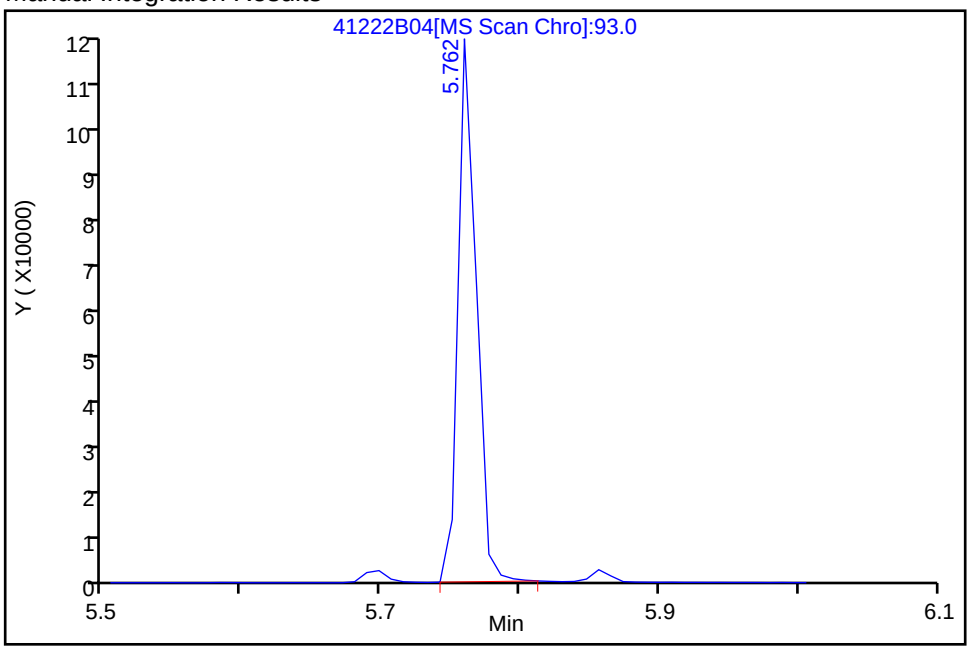
Processing Integration Results

Not Detected
5.762



Manual Integration Results

RT:	5.762
Area:	105804
Amount:	0.37027
Amount Units:	ng/ul



Data Editor: rbh, 22-Dec-2015 15:19:30
Audit Action: Mint
Audit Reason: MA

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/23/2015 Time: 1009

Lab File ID: 41223B02 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2PB Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
1,4-Dioxane	0.589	0.651	0.010	10.4	40.0
Naphthalene	1.037	1.046	0.200	0.8	20.0
2-Methylnaphthalene	0.613	0.611	0.100	-0.3	20.0
Acenaphthylene	1.924	1.757	0.400	-8.7	20.0
Acenaphthene	1.558	1.049	0.200	-32.6	20.0
Fluorene	1.415	1.307	0.200	-7.6	20.0
Pentachlorophenol	0.058	0.069	0.010	18.1	40.0
Phenanthrene	1.089	1.093	0.200	0.3	20.0
Anthracene	1.058	1.066	0.200	0.7	20.0
Fluoranthene	1.182	1.155	0.100	-2.3	20.0
Pyrene	1.097	1.050	0.400	-4.3	25.0
Benzo(a)anthracene	0.993	1.006	0.300	1.3	20.0
Chrysene	0.986	0.959	0.200	-2.7	20.0
Benzo(b)fluoranthene	1.205	1.142	0.010	-5.3	25.0
Benzo(k)fluoranthene	1.198	1.200	0.010	0.1	25.0
Benzo(a)pyrene	1.104	1.104	0.010	0.0	20.0
Indeno(1,2,3-cd)pyrene	1.243	1.346	0.010	8.3	25.0
Dibenzo(a,h)anthracene	1.081	1.165	0.010	7.7	25.0
Benzo(g,h,i)perylene	1.041	1.152	0.010	10.6	30.0
Dibenzofuran	2.005	1.234	0.300	-38.5	50.0
Hexachlorobenzene	0.233	0.233	0.050	0.4	20.0
Hexachlorobutadiene	0.146	0.149	0.040	2.0	20.0
bis(2-Chloroethyl)ether	1.363	1.315	0.100	-3.5	20.0
2,2'-Oxybis(1-chloropropane)	1.518	1.784	0.010	17.5	25.0
N-Nitrosodi-n-propylamine	0.775	0.967	0.080	24.7	25.0
Hexachloroethane	0.403	0.433	0.100	7.6	20.0
Nitrobenzene	0.279	0.312	0.090	11.7	20.0
4-Chloroaniline	0.413	0.487	0.010	17.7	40.0
2,4,6-Trichlorophenol	0.351	0.236	0.090	-32.7	50.0
1,1'-Biphenyl	2.251	1.767	0.200	-21.5	50.0
2,6-Dinitrotoluene	0.247	0.125	0.080	-49.5	50.0
2,4-Dinitrophenol	0.163	0.148	0.010	-8.9	50.0
2,4-Dinitrotoluene	0.260	0.302	0.070	16.1	20.0
4,6-Dinitro-2-methylphenol	0.050	0.057	0.010	15.3	30.0
1,2,4,5-Tetrachlorobenzene	0.664	0.513	0.100	-22.7	50.0
Atrazine	0.202	0.210	0.010	4.2	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/23/2015 Time: 1009

Lab File ID: 41223B02 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2PB Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
3,3'-Dichlorobenzidine	0.253	0.309	0.010	22.2	40.0
1,4-Dioxane-d8	0.574	0.629	0.010	9.6	25.0
Fluoranthene-d10	1.055	1.016	0.010	-3.7	25.0
2-Methylnaphthalene-d10	0.553	0.545	0.010	-1.5	25.0
Bis(2-Chloroethyl)ether-d8	1.080	1.195	0.100	10.7	20.0
Nitrobenzene-d5	0.109	0.114	0.050	4.7	20.0
2,4-Dichlorophenol-d3	0.231	0.227	0.060	-1.5	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B02.D		
Lab Sample ID:	SSTD0.2PB	Client Sample ID:	SSTD0.2PB
Injection Date:	23-Dec-2015 10:09:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122315B, SVMS 1702		
Method:	\\Organics\HH\chem\msd4.i\4122315B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 115 2-Methylnapthalene-d10	0.55306	0.544851	0.01	-1.5	25	99
$ 116 Flouranthene-d10	1.054701	1.015575	0.01	-3.7	25	96
5 bis(2-Chloroethyl)Ether	1.363344	1.315156	0.1	-3.5	20	96
11 2,2'-oxybis(1-Chloroprop	1.518411	1.783694	0.01	17.5	25	117
13 N-Nitroso-di-n-propylami	0.775314	0.966963	0.08	24.7	25	125
15 Hexachloroethane	0.402506	0.432997	0.1	7.6	20	108
$ 16 Nitrobenzene-d5	0.109315	0.114462	0.05	4.7	20	105
17 Nitrobenzene	0.27885	0.311521	0.09	11.7	20	112
24 Naphthalene	1.037407	1.045967	0.2	0.8	20	101
25 4-Chloroaniline	0.41337	0.486624	0.01	17.7	40	118
26 Hexachlorobutadiene	0.146252	0.149111	0.04	2	20	102
29 2-Methylnaphthalene	0.612539	0.610568	0.1	-0.3	20	100
31 2,4,6-Trichlorophenol	0.351337	0.236361	0.09	-32.7	50	67
34 1,1'-Biphenyl	2.251395	1.766542	0.2	-21.5	50	78
38 Acenaphthylene	1.924105	1.756877	0.4	-8.7	20	91
39 2,6-Dinitrotoluene	0.246579	0.124538	0.08	-49.5	50	51
42 Acenaphthene	1.557741	1.04937	0.2	* -32.6	20	67
43 2,4-Dinitrophenol	0.162757	0.148241	0.01	-8.9	50	91
45 Dibenzofuran	2.005275	1.233959	0.3	-38.5	50	62
46 2,4-Dinitrotoluene	0.260192	0.302005	0.07	16.1	20	116
92 1,2,4,5-Tetrachlorobenze	0.66404	0.513465	0.1	-22.7	50	77
48 Fluorene	1.414643	1.307174	0.2	-7.6	20	92
51 4,6-Dinitro-2-methylphen	0.049697	0.057305	0.01	15.3	30	115
55 Hexachlorobenzene	0.232518	0.233377	0.05	0.4	20	100
56 Atrazine	0.201781	0.210295	0.01	4.2	25	104
57 Pentachlorophenol	0.058309	0.068837	0.01	18.1	40	118
59 Phenanthrene	1.089376	1.093126	0.2	0.3	20	100
60 Anthracene	1.058395	1.065608	0.2	0.7	20	101
63 Fluoranthene	1.182254	1.154984	0.1	-2.3	20	98
64 Pyrene	1.096733	1.049957	0.4	-4.3	25	96
67 Benzo(a)anthracene	0.992967	1.006255	0.3	1.3	20	101
68 3,3'-Dichlorobenzidine	0.252943	0.309084	0.01	22.2	40	122
70 Chrysene	0.985606	0.958614	0.2	-2.7	20	97
73 Benzo(b)fluoranthene	1.20538	1.141926	0.01	-5.3	25	95
74 Benzo(k)fluoranthene	1.198365	1.199965	0.01	0.1	25	100

Report Date: 29-Dec-2015 17:41:06 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B02.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
75 Benzo(a)pyrene	1.103548	1.103977	0.01	0	20	100
77 Indeno(1,2,3-cd)pyrene	1.242666	1.345918	0.01	8.3	25	108
78 Dibenzo(a,h)anthracene	1.081415	1.16453	0.01	7.7	25	108
79 Benzo(g,h,i)perylene	1.041399	1.151519	0.01	10.6	30	111
$ 93 bis-(2-Chloroethyl)ether	1.079628	1.195195	0.1	10.7	20	111
$ 96 2,4-Dichlorophenol-d3	0.230987	0.227419	0.06	-1.5	20	98
108 1,4-Dioxane	0.589117	0.650679	0.01	10.4	40	110
$ 109 1,4-Dioxane-d8	0.574046	0.629147	0.01	9.6	25	110

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B02.D		
Lab Sample ID:	SSTD0.2PB	Client Sample ID:	SSTD0.2PB
Injection Date:	23-Dec-2015 10:09:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122315B, SVMS 1702		
Method:	\\Organics\HH\chem\msd4.i\4122315B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 11:05:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.761	3.761	0.000	50752	0.40000	0.43839	
108 1,4-Dioxane	88.0	3.788	3.788	0.000	52489	0.40000	0.44180	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	96414	0.40000	0.44282	
5 bis(2-Chloroethyl)Ether	93.0	5.762	5.762	0.000	106091	0.40000	0.38586	M
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	80668	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.174	6.174	0.000	143887	0.40000	0.46988	
13 N-Nitroso-di-n-propylamine	70.0	6.288	6.288	0.000	78003	0.40000	0.49888	
15 Hexachloroethane	117.0	6.434	6.434	0.000	34929	0.40000	0.43030	
$ 16 Nitrobenzene-d5	128.0	6.455	6.455	0.000	41537	0.40000	0.41883	
17 Nitrobenzene	77.0	6.465	6.465	0.000	113048	0.40000	0.44687	
$ 96 2,4-Dichlorophenol-d3	165.0	6.917	6.917	0.000	82528	0.40000	0.39382	
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	362890	0.40000	0.40000	
24 Naphthalene	128.0	7.074	7.074	0.000	379571	0.40000	0.40330	
25 4-Chloroaniline	127.0	7.092	7.092	0.000	176591	0.40000	0.47088	
26 Hexachlorobutadiene	225.0	7.144	7.144	0.000	54111	0.40000	0.40782	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	197721	0.40000	0.39406	
29 2-Methylnaphthalene	142.0	7.635	7.635	0.000	221569	0.40000	0.39871	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.781	7.781	0.000	87019	0.40000	0.30930	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	40057	0.40000	0.26910	
34 1,1'-Biphenyl	154.0	8.021	8.021	0.000	299383	0.40000	0.31386	
39 2,6-Dinitrotoluene	165.0	8.316	8.316	0.000	21106	0.40000	0.20203	
38 Acenaphthylene	152.0	8.409	8.409	0.000	297745	0.40000	0.36524	M
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	169474	0.40000	0.40000	

Report Date: 29-Dec-2015 17:41:06 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B02.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	177841	0.40000	0.26946	M
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	125615	2.0000	1.8216	
46 2,4-Dinitrotoluene	165.0	8.656	8.656	0.000	51182	0.40000	0.46428	
45 Dibenzofuran	168.0	8.703	8.703	0.000	209124	0.40000	0.24614	
48 Fluorene	166.0	8.996	8.996	0.000	221532	0.40000	0.36961	
51 4,6-Dinitro-2-methylphenol	198.0	9.012	9.012	0.000	15983	0.40000	0.46123	
55 Hexachlorobenzene	284.0	9.473	9.473	0.000	65092	0.40000	0.40148	
56 Atrazine	200.0	9.473	9.473	0.000	58654	0.40000	0.41688	
57 Pentachlorophenol	266.0	9.640	9.640	0.000	38399	0.80000	0.94445	
* 58 Phenanthrene-d10	188.0	9.807	9.807	0.000	278913	0.40000	0.40000	
59 Phenanthrene	178.0	9.827	9.827	0.000	304887	0.40000	0.40138	
60 Anthracene	178.0	9.869	9.869	0.000	297212	0.40000	0.40273	
$ 116 Flouranthene-d10	212.0	10.932	10.932	0.000	283257	0.40000	0.38516	
63 Fluoranthene	202.0	10.950	10.950	0.000	322140	0.40000	0.39077	
64 Pyrene	202.0	11.212	11.212	0.000	327324	0.40000	0.38294	
68 3,3'-Dichlorobenzidine	252.0	12.652	12.652	0.000	96357	0.40000	0.48878	
67 Benzo(a)anthracene	228.0	12.740	12.740	0.000	313700	0.40000	0.40535	
* 69 Chrysene-d12	240.0	12.757	12.757	0.000	311750	0.40000	0.40000	
70 Chrysene	228.0	12.801	12.801	0.000	298848	0.40000	0.38905	
73 Benzo(b)fluoranthene	252.0	14.418	14.418	0.000	296638	0.40000	0.37894	
74 Benzo(k)fluoranthene	252.0	14.462	14.462	0.000	311715	0.40000	0.40053	
75 Benzo(a)pyrene	252.0	14.992	14.992	0.000	286780	0.40000	0.40016	
* 76 Perylene-d12	264.0	15.092	15.092	0.000	259770	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.330	17.330	0.000	349629	0.40000	0.43324	
78 Dibenzo(a,h)anthracene	278.0	17.345	17.345	0.000	302510	0.40000	0.43074	
79 Benzo(g,h,i)perylene	276.0	18.015	18.015	0.000	299130	0.40000	0.44230	

QC Flag Legend

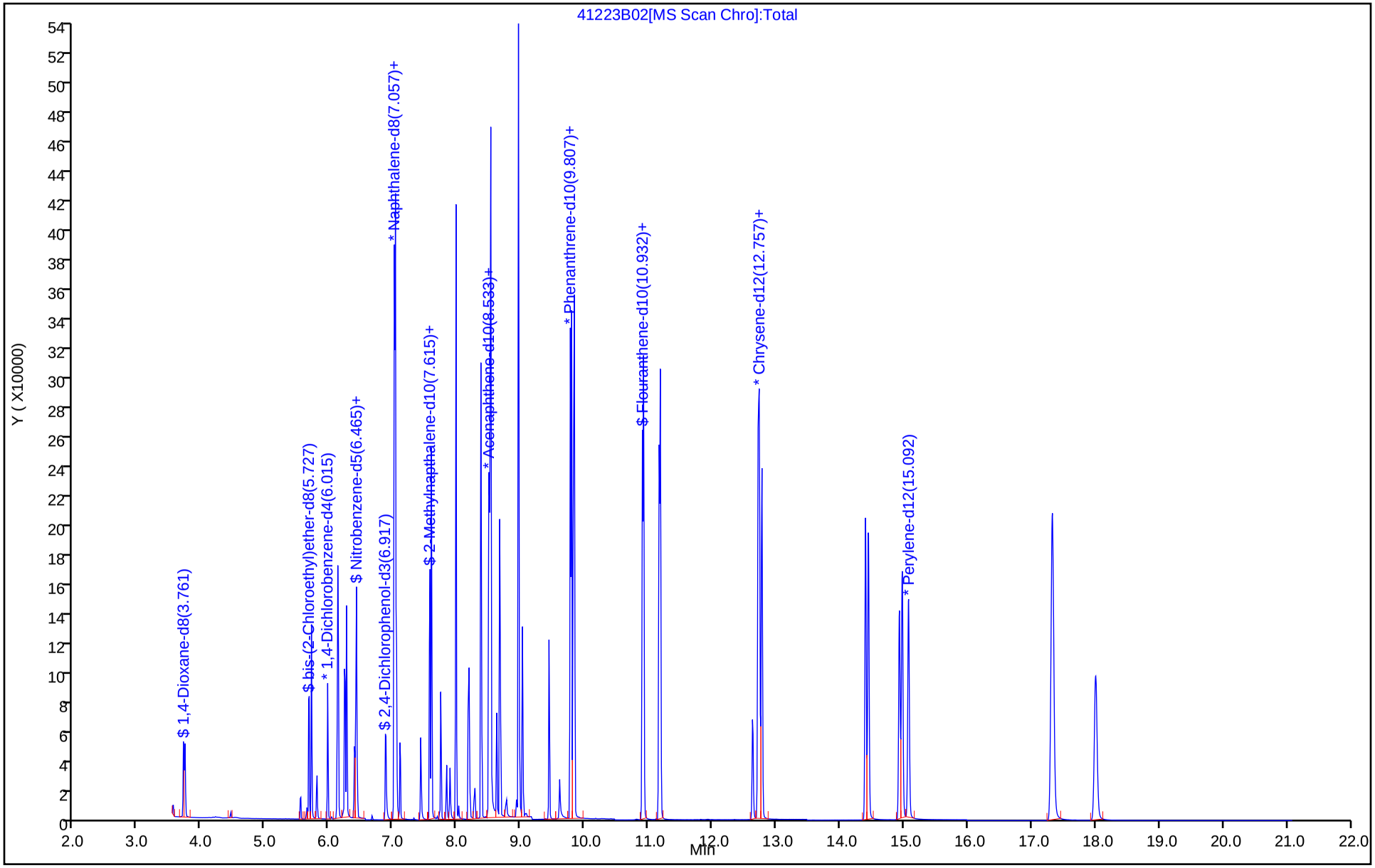
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 29-Dec-2015 17:41:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B02.D				
Injection Date:	23-Dec-2015 10:09:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.2PB	Lab ID:	SSTD0.2PB		
Sample Info:	4122315B, SVMS 1702				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 29-Dec-2015 17:41:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

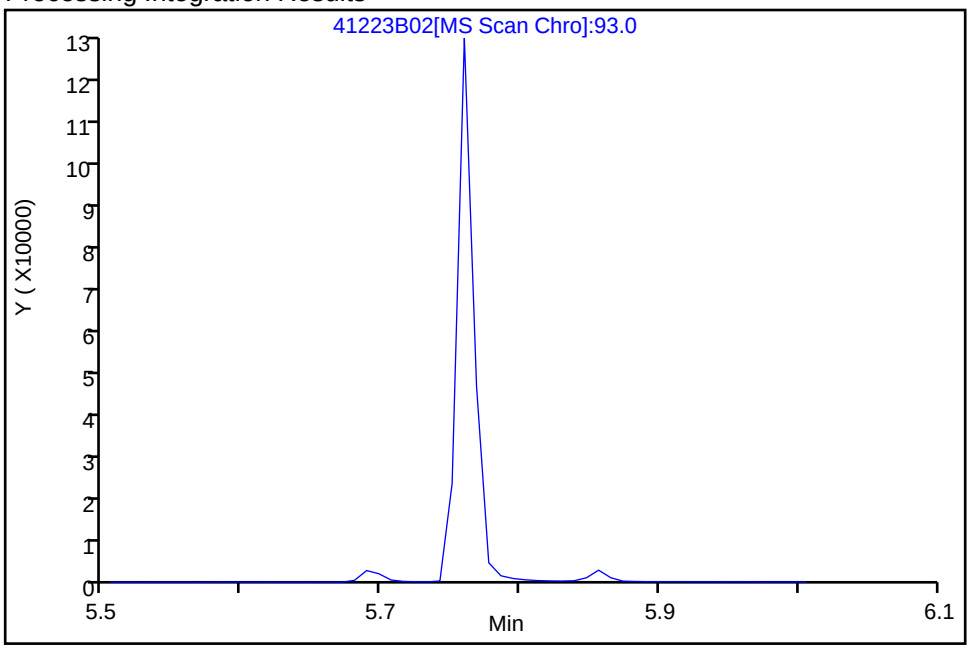
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B02.D		
Injection Date:	23-Dec-2015 10:09:30	Inst. ID:	msd4.i
Client ID:	SSTD0.2PB	Lab ID:	SSTD0.2PB
Sample Info:	4122315B, SVMS 1702		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

5 bis(2-Chloroethyl)Ether, CAS: 111-44-4

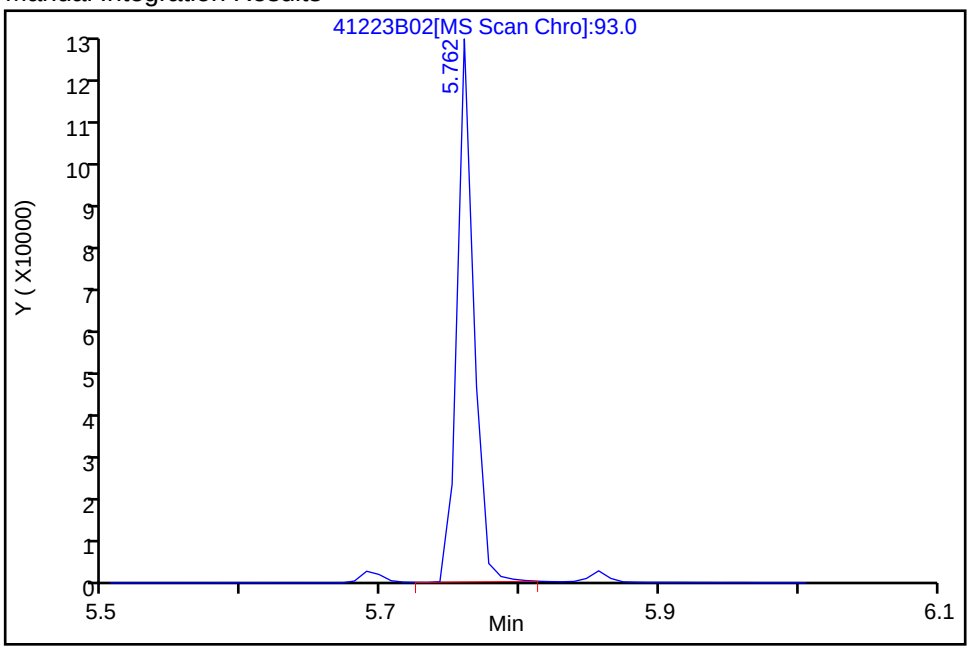
Not Detected
5.762

Processing Integration Results



Manual Integration Results

RT:	5.762
Area:	106091
Amount:	0.38586
Amount Units:	ng/ul



Data Editor: JCG, 23-Dec-2015 10:36:30
Audit Action: Mint
Audit Reason: MA

Report Date: 29-Dec-2015 17:41:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

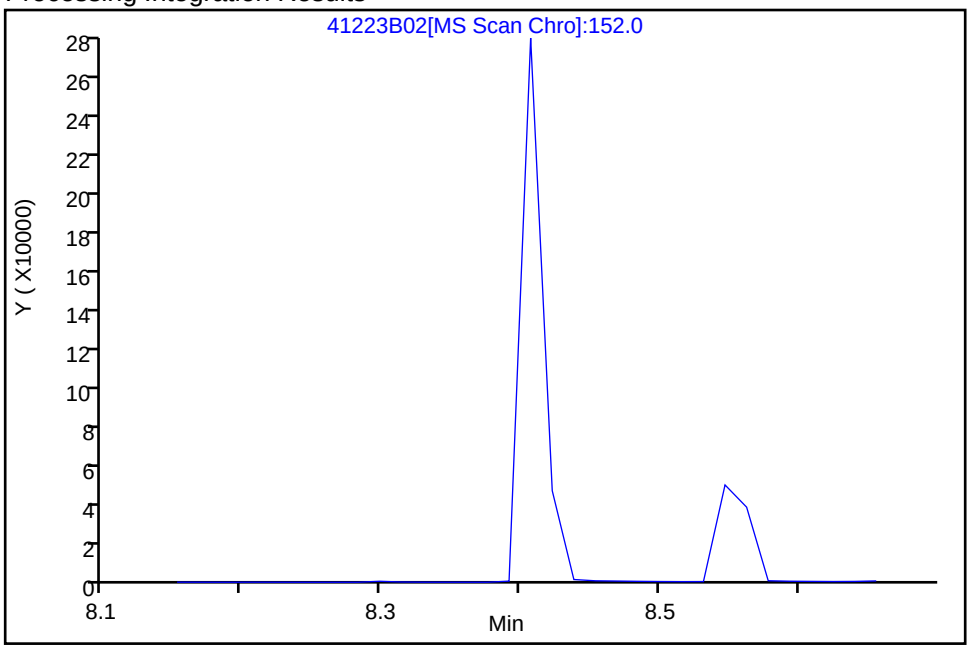
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B02.D		
Injection Date:	23-Dec-2015 10:09:30	Inst. ID:	msd4.i
Client ID:	SSTD0.2PB	Lab ID:	SSTD0.2PB
Sample Info:	4122315B, SVMS 1702		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

38 Acenaphthylene, CAS: 208-96-8

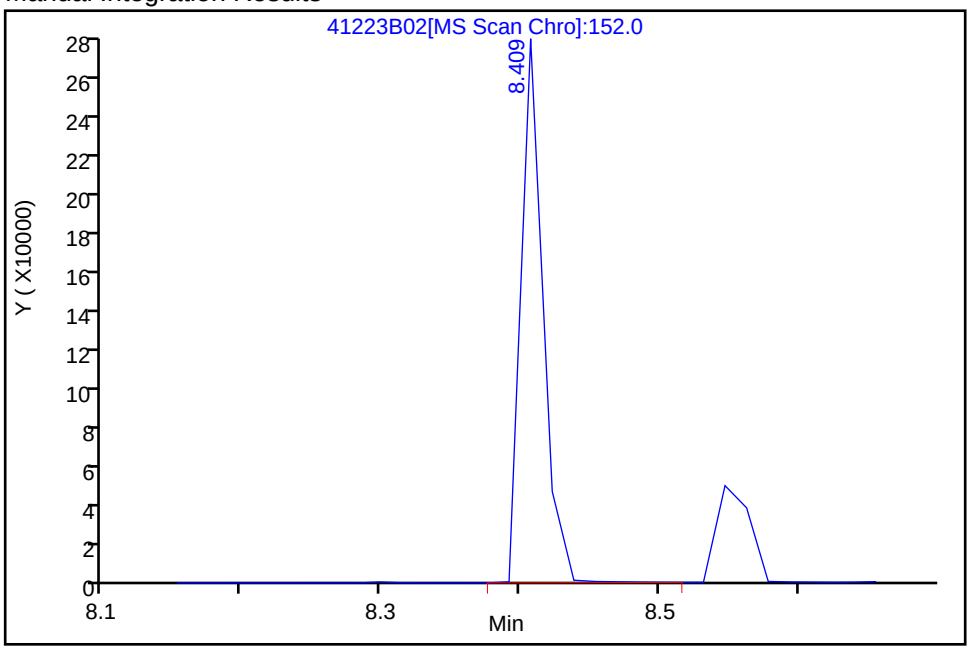
Not Detected
8.409

Processing Integration Results



Manual Integration Results

RT:	8.409
Area:	297745
Amount:	0.36524
Amount Units:	ng/ul



Data Editor: jcg, 23-Dec-2015 11:06:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 29-Dec-2015 17:41:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

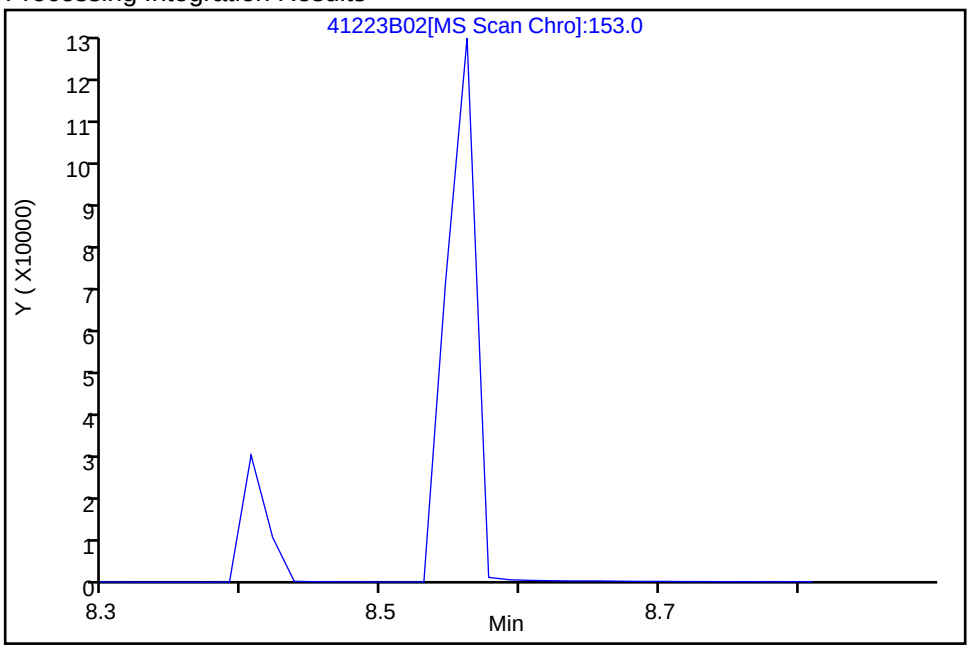
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B02.D		
Injection Date:	23-Dec-2015 10:09:30	Inst. ID:	msd4.i
Client ID:	SSTD0.2PB	Lab ID:	SSTD0.2PB
Sample Info:	4122315B, SVMS 1702		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

42 Acenaphthene, CAS: 83-32-9

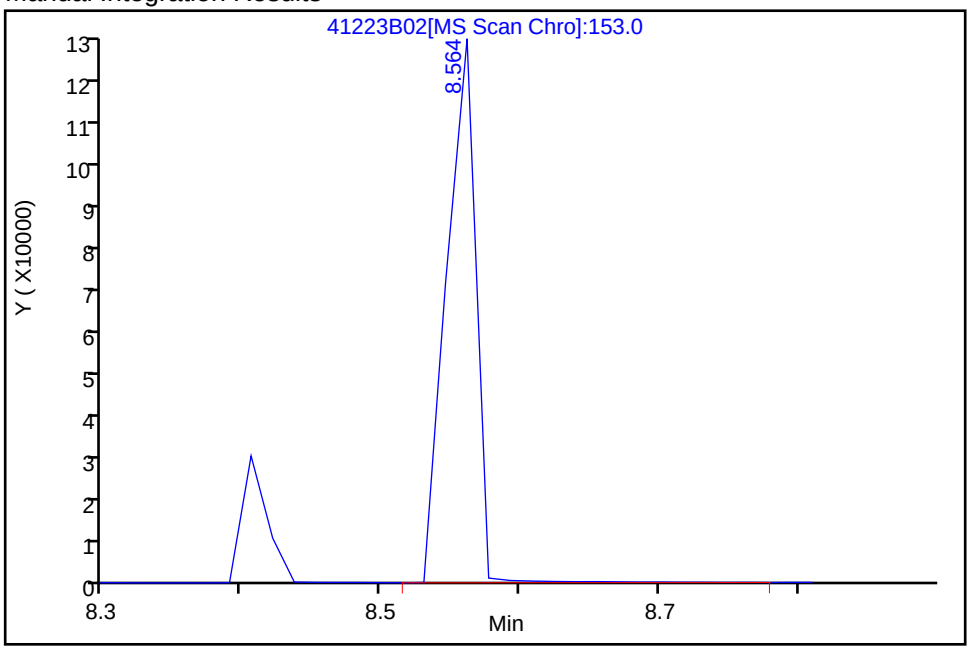
Not Detected
8.564

Processing Integration Results



Manual Integration Results

RT:	8.564
Area:	177841
Amount:	0.26946
Amount Units:	ng/ul



Data Editor: jcg, 23-Dec-2015 11:05:30
Audit Action: Mint
Audit Reason: IAI

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/23/2015 Time: 1804

Lab File ID: 41223B19 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2PC Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
1,4-Dioxane	0.589	0.630	0.010	6.9	40.0
Naphthalene	1.037	1.024	0.200	-1.3	20.0
2-Methylnaphthalene	0.613	0.601	0.100	-1.9	20.0
Acenaphthylene	1.924	1.677	0.400	-12.8	20.0
Acenaphthene	1.558	1.012	0.200	-35.0	25.0
Fluorene	1.415	1.233	0.200	-12.9	20.0
Pentachlorophenol	0.058	0.076	0.010	30.9	40.0
Phenanthrene	1.089	1.067	0.200	-2.0	20.0
Anthracene	1.058	1.064	0.200	0.5	20.0
Fluoranthene	1.182	1.160	0.100	-1.9	20.0
Pyrene	1.097	1.027	0.400	-6.3	25.0
Benzo(a)anthracene	0.993	1.031	0.300	3.8	20.0
Chrysene	0.986	0.964	0.200	-2.2	20.0
Benzo(b)fluoranthene	1.205	1.093	0.010	-9.4	25.0
Benzo(k)fluoranthene	1.198	1.131	0.010	-5.6	25.0
Benzo(a)pyrene	1.104	1.073	0.010	-2.8	20.0
Indeno(1,2,3-cd)pyrene	1.243	1.239	0.010	-0.3	25.0
Dibenzo(a,h)anthracene	1.081	1.080	0.010	-0.1	25.0
Benzo(g,h,i)perylene	1.041	1.009	0.010	-3.2	30.0
Dibenzofuran	2.005	1.214	0.300	-39.5	50.0
Hexachlorobenzene	0.233	0.231	0.050	-0.7	20.0
Hexachlorobutadiene	0.146	0.151	0.040	3.2	20.0
bis(2-Chloroethyl)ether	1.363	1.376	0.100	0.9	20.0
2,2'-Oxybis(1-chloropropane)	1.518	1.590	0.010	4.7	25.0
N-Nitrosodi-n-propylamine	0.775	0.999	0.080	28.8	50.0
Hexachloroethane	0.403	0.453	0.100	12.5	20.0
Nitrobenzene	0.279	0.289	0.090	3.7	20.0
4-Chloroaniline	0.413	0.462	0.010	11.7	40.0
2,4,6-Trichlorophenol	0.351	0.279	0.090	-20.7	50.0
1,1'-Biphenyl	2.251	1.747	0.200	-22.4	50.0
2,6-Dinitrotoluene	0.247	0.146	0.080	-40.8	50.0
2,4-Dinitrophenol	0.163	0.095	0.010	-41.8	50.0
2,4-Dinitrotoluene	0.260	0.269	0.070	3.5	20.0
4,6-Dinitro-2-methylphenol	0.050	0.038	0.010	-23.7	30.0
1,2,4,5-Tetrachlorobenzene	0.664	0.523	0.100	-21.2	50.0
Atrazine	0.202	0.233	0.010	15.4	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R18

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/23/2015 Time: 1804

Lab File ID: 41223B19 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2PC Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
3,3'-Dichlorobenzidine	0.253	0.268	0.010	5.9	40.0
1,4-Dioxane-d8	0.574	0.631	0.010	9.9	25.0
Fluoranthene-d10	1.055	1.049	0.010	-0.5	25.0
2-Methylnaphthalene-d10	0.553	0.556	0.010	0.5	25.0
Bis(2-Chloroethyl)ether-d8	1.080	1.087	0.100	0.7	20.0
Nitrobenzene-d5	0.109	0.119	0.050	9.0	20.0
2,4-Dichlorophenol-d3	0.231	0.237	0.060	2.7	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B19.D
Lab Sample ID: SSTD0.2PC Client Sample ID: SSTD0.2PC
Injection Date: 23-Dec-2015 18:04:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd4.i
Sample Info: 4122315B, SVMS 1702
Misc. Info: L3
Method: \\Organics\HH\chem\msd4.i\4122315B.b\Sim2544-end.m
Method Date: 24-Dec-2015 10:43:30 Quant Method: ISTD
Calib Date: 18-Dec-2015 16:36:30 Calib File: 41218B07.D
Sample Type: CCV ALS Bottle: 98
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 115 2-Methylnapthalene-d10	0.55306	0.555728	0.01	0.5	25	100
$ 116 Flouranthene-d10	1.054701	1.049137	0.01	-0.5	25	99
5 bis(2-Chloroethyl)Ether	1.363344	1.375633	0.1	0.9	20	101
11 2,2'-oxybis(1-Chloroprop	1.518411	1.590489	0.01	4.7	25	105
13 N-Nitroso-di-n-propylami	0.775314	0.998525	0.08	28.8	50	129
15 Hexachloroethane	0.402506	0.45268	0.1	12.5	20	112
$ 16 Nitrobenzene-d5	0.109315	0.119207	0.05	9	20	109
17 Nitrobenzene	0.27885	0.28905	0.09	3.7	20	104
24 Naphthalene	1.037407	1.02424	0.2	-1.3	20	99
25 4-Chloroaniline	0.41337	0.461803	0.01	11.7	40	112
26 Hexachlorobutadiene	0.146252	0.15099	0.04	3.2	20	103
29 2-Methylnaphthalene	0.612539	0.60083	0.1	-1.9	20	98
31 2,4,6-Trichlorophenol	0.351337	0.278549	0.09	-20.7	50	79
34 1,1'-Biphenyl	2.251395	1.747456	0.2	-22.4	50	78
38 Acenaphthylene	1.924105	1.677174	0.4	-12.8	20	87
39 2,6-Dinitrotoluene	0.246579	0.145865	0.08	-40.8	50	59
42 Acenaphthene	1.557741	1.01228	0.2	* -35	25	65
43 2,4-Dinitrophenol	0.162757	0.094799	0.01	-41.8	50	58
45 Dibenzofuran	2.005275	1.21362	0.3	-39.5	50	61
46 2,4-Dinitrotoluene	0.260192	0.269335	0.07	3.5	20	104
92 1,2,4,5-Tetrachlorobenze	0.66404	0.523335	0.1	-21.2	50	79
48 Fluorene	1.414643	1.232833	0.2	-12.9	20	87
51 4,6-Dinitro-2-methylphen	0.049697	0.037927	0.01	-23.7	30	76
55 Hexachlorobenzene	0.232518	0.230999	0.05	-0.7	20	99
56 Atrazine	0.201781	0.23287	0.01	15.4	25	115
57 Pentachlorophenol	0.058309	0.07635	0.01	30.9	40	131
59 Phenanthrene	1.089376	1.067128	0.2	-2	20	98
60 Anthracene	1.058395	1.063793	0.2	0.5	20	101
63 Fluoranthene	1.182254	1.159652	0.1	-1.9	20	98
64 Pyrene	1.096733	1.027297	0.4	-6.3	25	94
67 Benzo(a)anthracene	0.992967	1.030628	0.3	3.8	20	104
68 3,3'-Dichlorobenzidine	0.252943	0.267901	0.01	5.9	40	106
70 Chrysene	0.985606	0.963731	0.2	-2.2	20	98
73 Benzo(b)fluoranthene	1.20538	1.092648	0.01	-9.4	25	91

Report Date: 29-Dec-2015 17:41:26 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B19.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
74 Benzo(k)fluoranthene	1.198365	1.131153	0.01	-5.6	25	94
75 Benzo(a)pyrene	1.103548	1.072912	0.01	-2.8	20	97
77 Indeno(1,2,3-cd)pyrene	1.242666	1.239381	0.01	-0.3	25	100
78 Dibenzo(a,h)anthracene	1.081415	1.080037	0.01	-0.1	25	100
79 Benzo(g,h,i)perylene	1.041399	1.008571	0.01	-3.2	30	97
$ 93 bis-(2-Chloroethyl)ether	1.079628	1.086966	0.1	0.7	20	101
$ 96 2,4-Dichlorophenol-d3	0.230987	0.237318	0.06	2.7	20	103
108 1,4-Dioxane	0.589117	0.629835	0.01	6.9	40	107
$ 109 1,4-Dioxane-d8	0.574046	0.630892	0.01	9.9	25	110

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B19.D		
Lab Sample ID:	SSTD0.2PC	Client Sample ID:	SSTD0.2PC
Injection Date:	23-Dec-2015 18:04:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122315B, SVMS 1702		
Misc. Info:	L3		
Method:	\\Organics\HH\chem\msd4.i\4122315B.b\Sim2544-end.m		
Method Date:	24-Dec-2015 10:43:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	CCV	ALS Bottle:	98
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 18:30:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.762	3.762	0.000	48344	0.40000	0.43961	
108 1,4-Dioxane	88.0	3.788	3.788	0.000	48263	0.40000	0.42765	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	83292	0.40000	0.40272	
5 bis(2-Chloroethyl)Ether	93.0	5.762	5.762	0.000	105412	0.40000	0.40361	
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	76628	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.176	6.176	0.000	121876	0.40000	0.41899	
13 N-Nitroso-di-n-propylamine	70.0	6.259	6.259	0.000	76515	0.40000	0.51516	
15 Hexachloroethane	117.0	6.436	6.436	0.000	34688	0.40000	0.44986	
$ 16 Nitrobenzene-d5	128.0	6.457	6.457	0.000	43370	0.40000	0.43620	
17 Nitrobenzene	77.0	6.467	6.467	0.000	105162	0.40000	0.41463	
$ 96 2,4-Dichlorophenol-d3	165.0	6.917	6.917	0.000	86341	0.40000	0.41096	
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	363820	0.40000	0.40000	
24 Naphthalene	128.0	7.075	7.075	0.000	372639	0.40000	0.39492	
25 4-Chloroaniline	127.0	7.092	7.092	0.000	168013	0.40000	0.44687	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	54933	0.40000	0.41296	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	202185	0.40000	0.40193	
29 2-Methylnaphthalene	142.0	7.636	7.636	0.000	218594	0.40000	0.39235	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.782	7.782	0.000	89451	0.40000	0.31524	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	47611	0.40000	0.31713	
34 1,1'-Biphenyl	154.0	8.021	8.021	0.000	298684	0.40000	0.31047	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	24932	0.40000	0.23662	
38 Acenaphthylene	152.0	8.409	8.409	0.000	286671	0.40000	0.34867	M

Report Date: 29-Dec-2015 17:41:26 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B19.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	170925	0.40000	0.40000	
42 Acenaphthene	153.0	8.564	8.564	0.000	173024	0.40000	0.25994	M
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	81018	2.0000	1.1649	
46 2,4-Dinitrotoluene	165.0	8.657	8.657	0.000	46036	0.40000	0.41406	
45 Dibenzofuran	168.0	8.703	8.703	0.000	207438	0.40000	0.24209	
48 Fluorene	166.0	8.997	8.997	0.000	210722	0.40000	0.34859	
51 4,6-Dinitro-2-methylphenol	198.0	9.012	9.012	0.000	10600	0.40000	0.30527	
55 Hexachlorobenzene	284.0	9.473	9.473	0.000	64560	0.40000	0.39739	
56 Atrazine	200.0	9.473	9.473	0.000	65083	0.40000	0.46163	
57 Pentachlorophenol	266.0	9.640	9.640	0.000	42677	0.80000	1.0475	
* 58 Phenanthrene-d10	188.0	9.807	9.807	0.000	279482	0.40000	0.40000	
59 Phenanthrene	178.0	9.828	9.828	0.000	298243	0.40000	0.39183	
60 Anthracene	178.0	9.869	9.869	0.000	297311	0.40000	0.40204	
$ 116 Flouranthene-d10	212.0	10.933	10.933	0.000	293215	0.40000	0.39789	
63 Fluoranthene	202.0	10.950	10.950	0.000	324102	0.40000	0.39235	
64 Pyrene	202.0	11.212	11.212	0.000	330011	0.40000	0.37468	
68 3,3'-Dichlorobenzidine	252.0	12.652	12.652	0.000	86061	0.40000	0.42365	
67 Benzo(a)anthracene	228.0	12.740	12.740	0.000	331081	0.40000	0.41517	
* 69 Chrysene-d12	240.0	12.757	12.757	0.000	321242	0.40000	0.40000	
70 Chrysene	228.0	12.801	12.801	0.000	309591	0.40000	0.39112	
73 Benzo(b)fluoranthene	252.0	14.418	14.418	0.000	330303	0.40000	0.36259	
74 Benzo(k)fluoranthene	252.0	14.462	14.462	0.000	341943	0.40000	0.37757	
75 Benzo(a)pyrene	252.0	14.989	14.989	0.000	324337	0.40000	0.38890	
* 76 Perylene-d12	264.0	15.088	15.088	0.000	302296	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.331	17.331	0.000	374660	0.40000	0.39894	
78 Dibenzo(a,h)anthracene	278.0	17.345	17.345	0.000	326491	0.40000	0.39949	
79 Benzo(g,h,i)perylene	276.0	18.008	18.008	0.000	304887	0.40000	0.38739	

QC Flag Legend

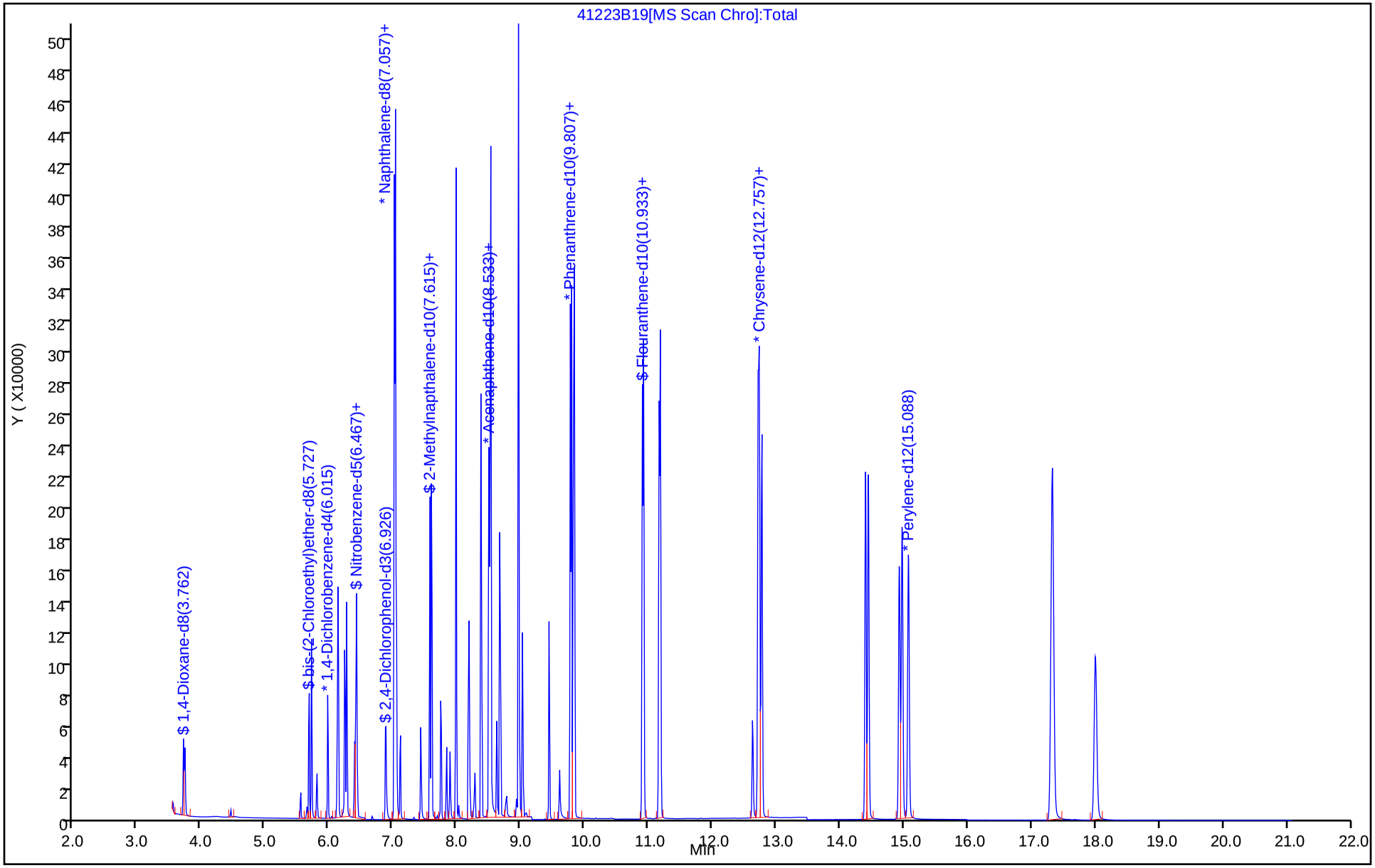
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 29-Dec-2015 17:41:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B19.D				
Injection Date:	23-Dec-2015 18:04:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.2PC	Lab ID:	SSTD0.2PC		
Sample Info:	4122315B, SVMS 1702				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 29-Dec-2015 17:41:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

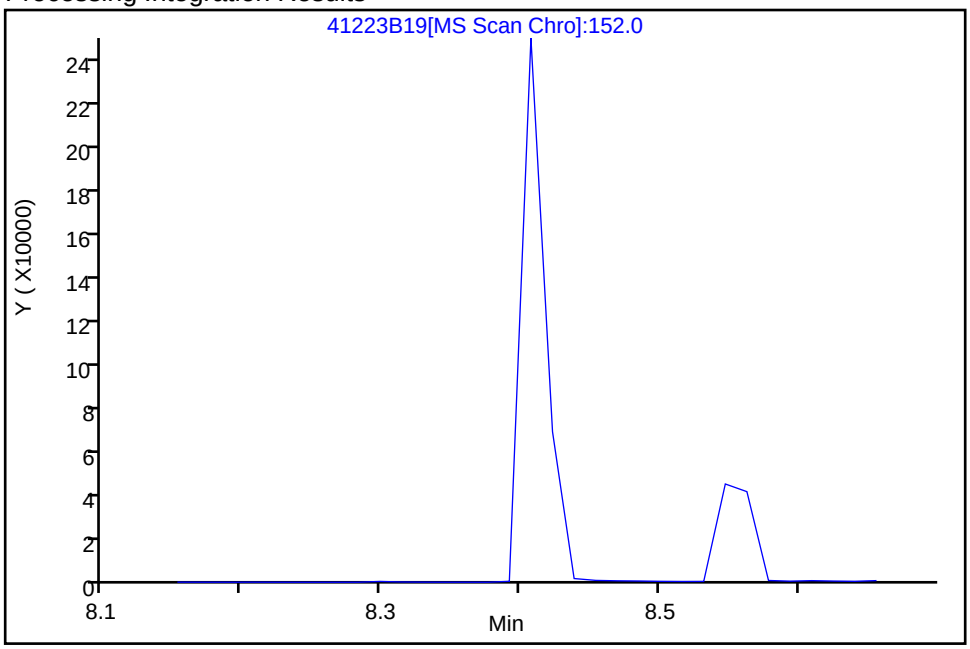
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B19.D		
Injection Date:	23-Dec-2015 18:04:30	Inst. ID:	msd4.i
Client ID:	SSTD0.2PC	Lab ID:	SSTD0.2PC
Sample Info:	4122315B, SVMS 1702		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

38 Acenaphthylene, CAS: 208-96-8

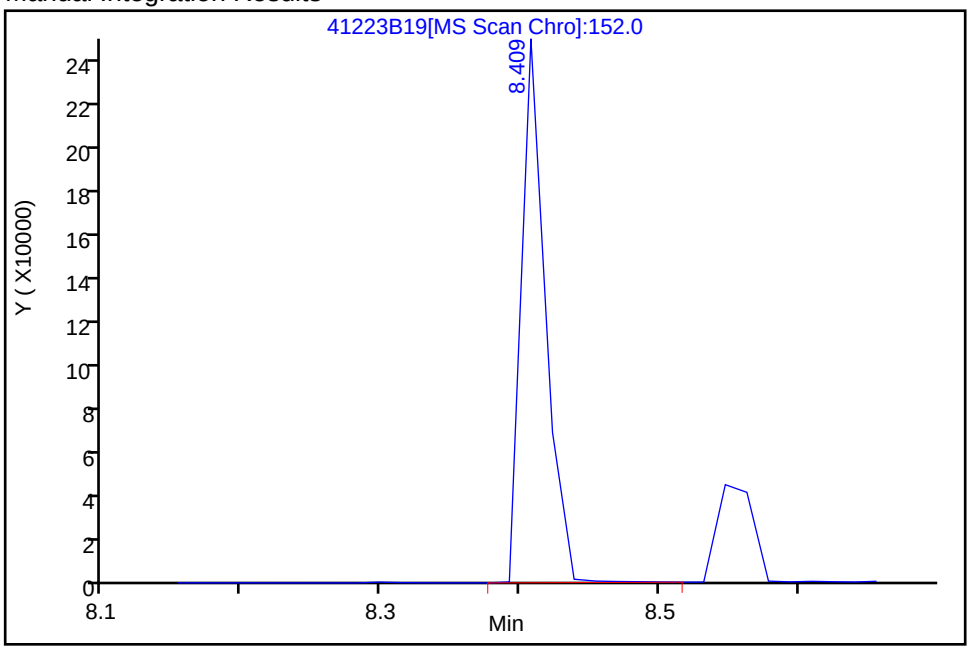
Not Detected
8.409

Processing Integration Results



Manual Integration Results

RT:	8.409
Area:	286671
Amount:	0.34867
Amount Units:	ng/ul



Data Editor: jcg, 23-Dec-2015 18:32:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 29-Dec-2015 17:41:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

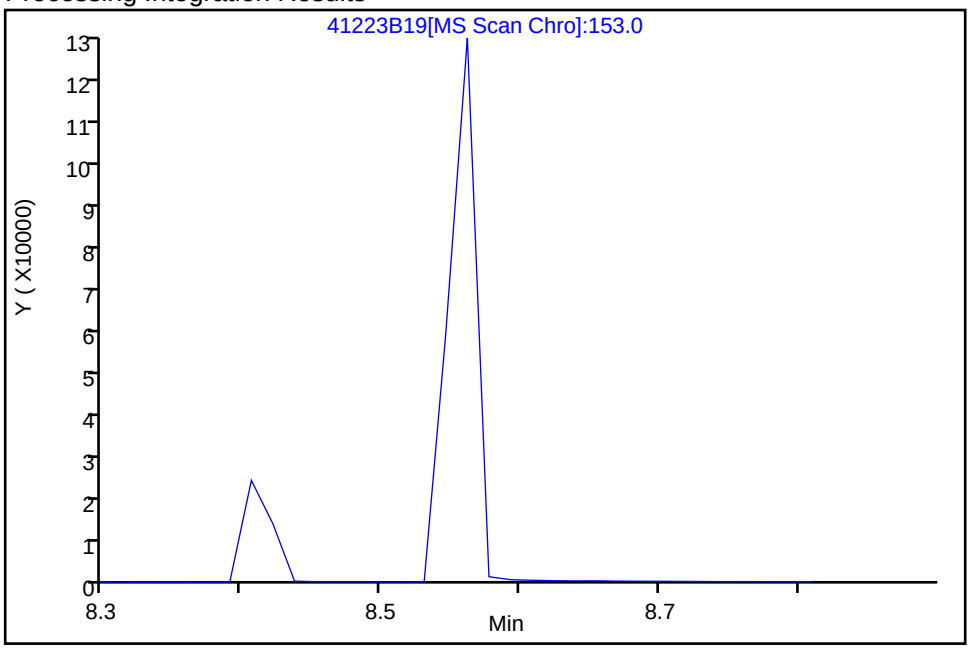
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B19.D		
Injection Date:	23-Dec-2015 18:04:30	Inst. ID:	msd4.i
Client ID:	SSTD0.2PC	Lab ID:	SSTD0.2PC
Sample Info:	4122315B, SVMS 1702		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

42 Acenaphthene, CAS: 83-32-9

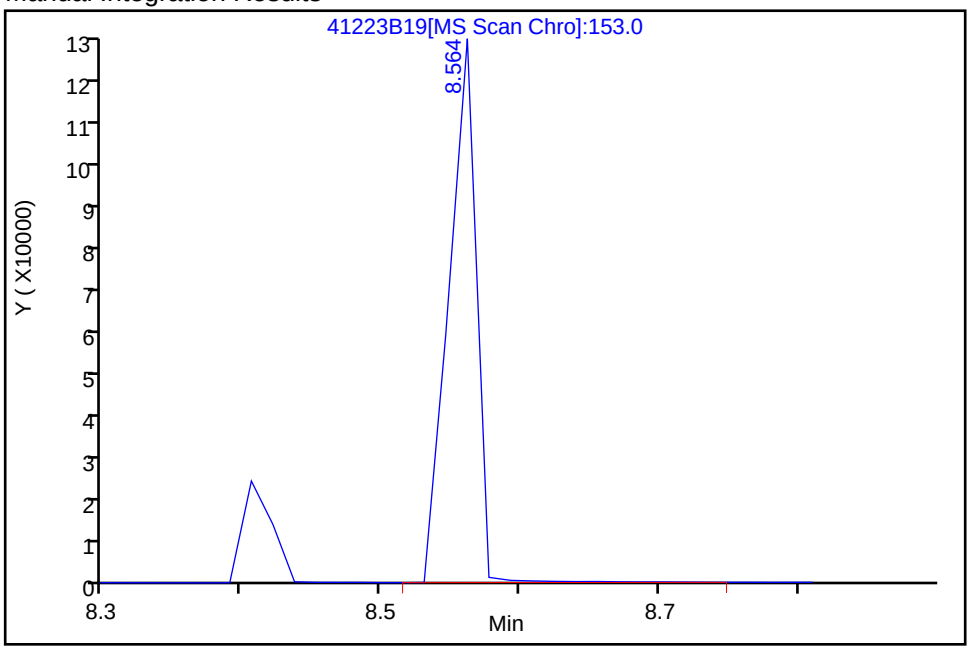
Not Detected
8.564

Processing Integration Results



Manual Integration Results

RT:	8.564
Area:	173024
Amount:	0.25994
Amount Units:	ng/ul



Data Editor: jcg, 23-Dec-2015 18:30:30
Audit Action: Mint
Audit Reason: IAI

SEMIVOLATILE-sim
RAW QC DATA

DFTPP Data

Blank Data

Matrix Spike / Matrix Spike Duplicate-optional

Laboratory Control Sample Data-optional

DFTPP Data

DFTPPs are arranged in chronological order by instrument

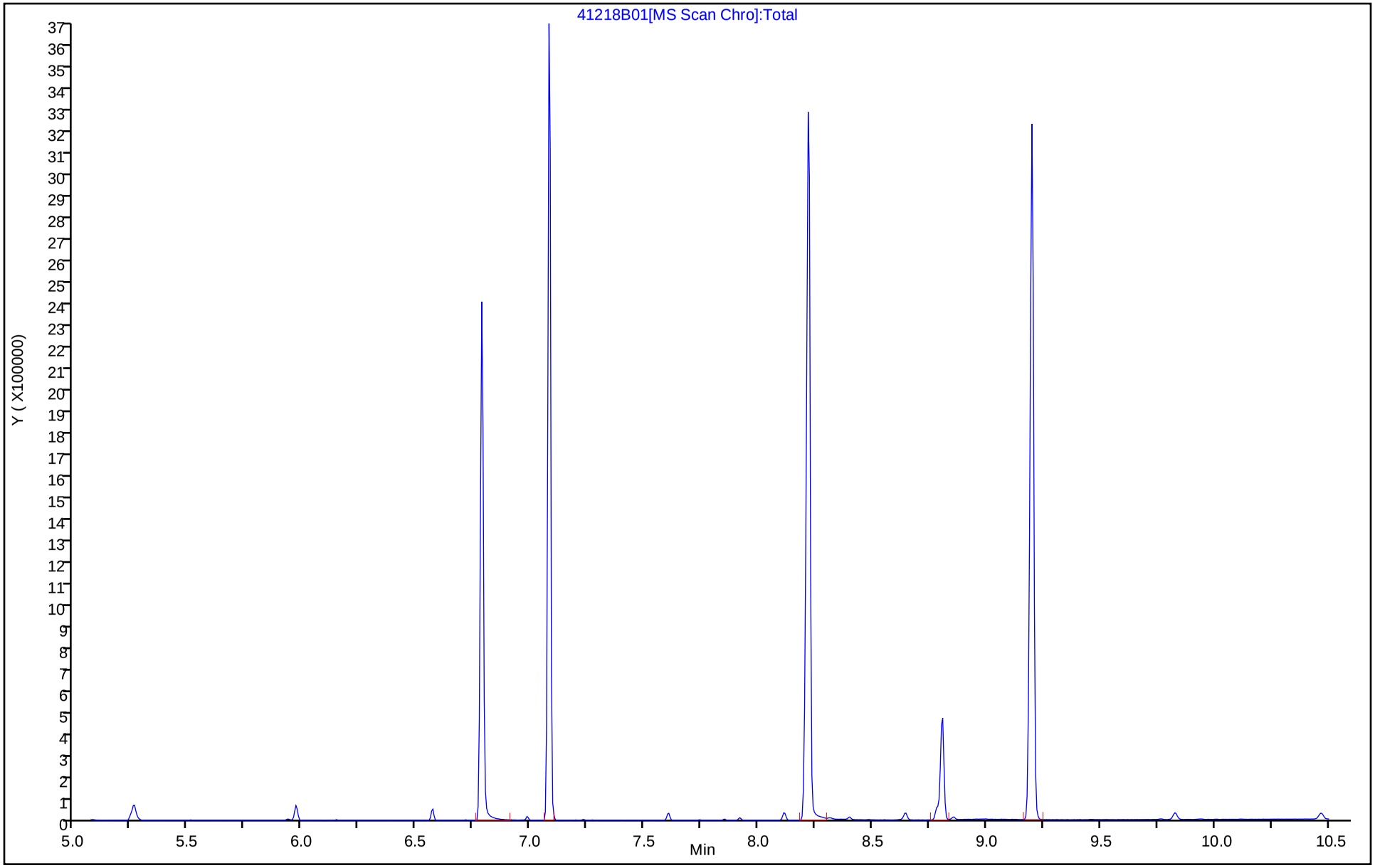
-Reconstructed Total Ion Chromatogram

-Bar Graph Spectrum & Tabulated Relative Abundances

-Mass Listing

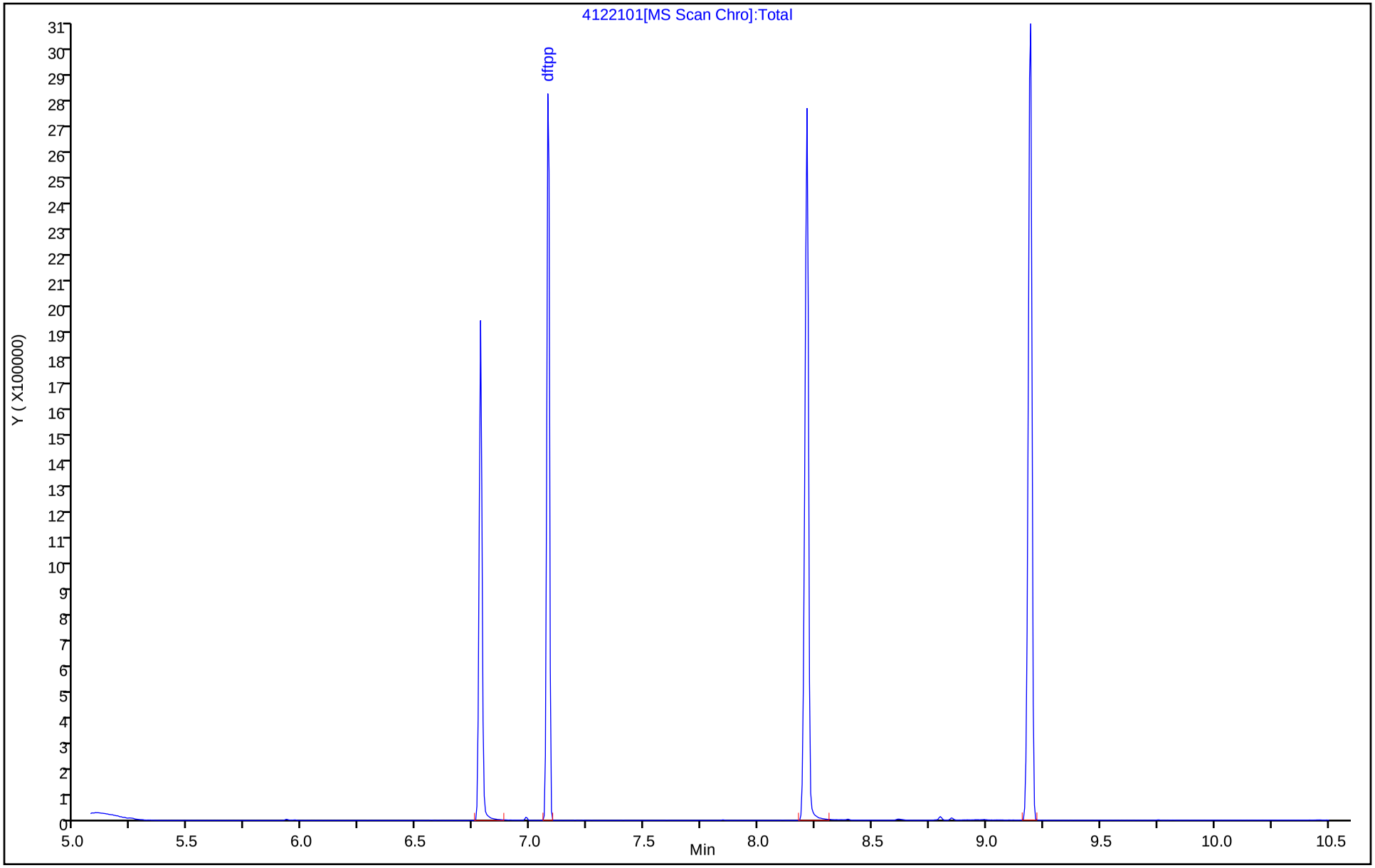
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B01.D				
Injection Date:	18-Dec-2015 14:10:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	DFTPPOM	Lab ID:	SVMS 1608		
Sample Info:	4121815B, SVMS 1608				
Injection Vol.	2.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122101.D				
Injection Date:	21-Dec-2015 08:23:30	Inst. ID:	msd4.i	Operator:	JCG
Client ID:	DFTPPOO	Lab ID:	SVMS 1608		
Sample Info:	4122115, SVMS 1608				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



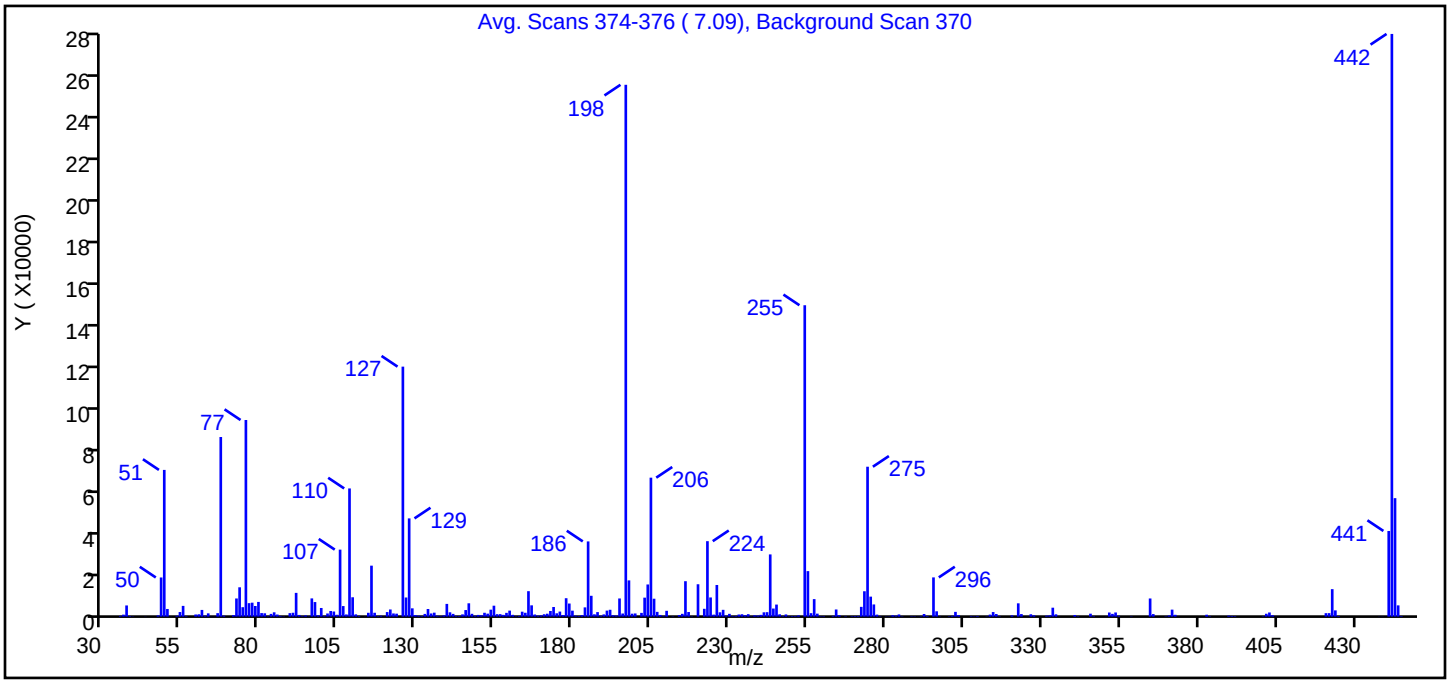
Report Date: 22-Dec-2015 13:41:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\HH\chem\msd4.i\4122115.b\4122101.D		
Injection Date:	21-Dec-2015 08:23:30	Inst. ID:	msd4.i
Client ID:	DFTPPOO	Lab ID:	SVMS 1608
Sample Info:	4122115, SVMS 1608		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
51	10.00 - 80.00% of mass 198	27.6
68	Less than 2.00% of mass 69	0.6 (1.9)
69	Present	33.8
70	Less than 2.00% of mass 69	0.2 (0.5)
127	10.00 - 80.00% of mass 198	47.0
197	Less than 2.00% of mass 198	0.6
199	5.00 - 9.00% of mass 198	6.8
275	10.00 - 60.00% of mass 198	28.2
365	Greater than 1.00% of mass 198	3.4
441	0.01 - 99.99% of mass 443	16.1 (72.3)
442	Greater than 50.00% of mass 198	109.6
443	15.00 - 24.00% of mass 442	22.3 (20.3)

Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122101.D
Injection Date: 21-Dec-2015 08:23:30
Spectrum: Avg. Scans 374-376 (7.09), Background Scan 370
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 296

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	322	124.00	1497	199.00	17184	284.00	459
38.00	930	125.00	1388	200.00	1378	285.00	1023
39.00	5293	127.00	118584	201.00	1494	286.00	151
40.00	270	128.00	9066	203.00	1766	289.00	177
41.00	110	129.00	46592	204.00	8990	290.00	147
45.00	57	130.00	3924	205.00	15243	291.00	64
49.00	579	131.00	755	206.00	65912	292.00	183
50.00	18560	132.00	438	207.00	8485	293.00	1237
51.00	69592	133.00	253	208.00	2249	294.00	309
52.00	3620	134.00	1275	209.00	779	296.00	18600
53.00	57	135.00	3606	210.00	219	297.00	2513
55.00	403	136.00	1493	211.00	2747	298.00	121
56.00	2166	137.00	1871	213.00	147	301.00	173
57.00	5084	138.00	392	215.00	708	302.00	380
58.00	217	139.00	233	216.00	1315	303.00	2245
61.00	1007	140.00	591	217.00	16792	304.00	702
62.00	1098	141.00	6028	218.00	2175	308.00	231
63.00	3164	142.00	2040	219.00	151	309.00	133
64.00	414	143.00	1292	221.00	15349	310.00	272
65.00	1542	144.00	328	223.00	3703	313.00	135
66.00	56	145.00	297	224.00	35784	314.00	944
67.00	56	146.00	1054	225.00	9085	315.00	2162
68.00	1637	147.00	3106	226.00	930	316.00	1224
69.00	85200	148.00	6314	227.00	14997	317.00	188
70.00	443	149.00	1325	228.00	2046	321.00	593
73.00	708	150.00	392	229.00	3210	323.00	6299
74.00	8602	151.00	801	230.00	416	324.00	1201
75.00	13906	152.00	607	231.00	1313	326.00	63
76.00	4469	153.00	1817	232.00	221	327.00	1107
77.00	93264	154.00	1401	233.00	317	328.00	603
78.00	6378	155.00	3290	234.00	987	332.00	459
79.00	6606	156.00	5174	235.00	1117	333.00	612
80.00	5032	157.00	1148	236.00	698	334.00	4226

Report Date: 22-Dec-2015 13:41:21 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122101.D
Injection Date: 21-Dec-2015 08:23:30
Spectrum: Avg. Scans 374-376 (7.09), Background Scan 370
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 296

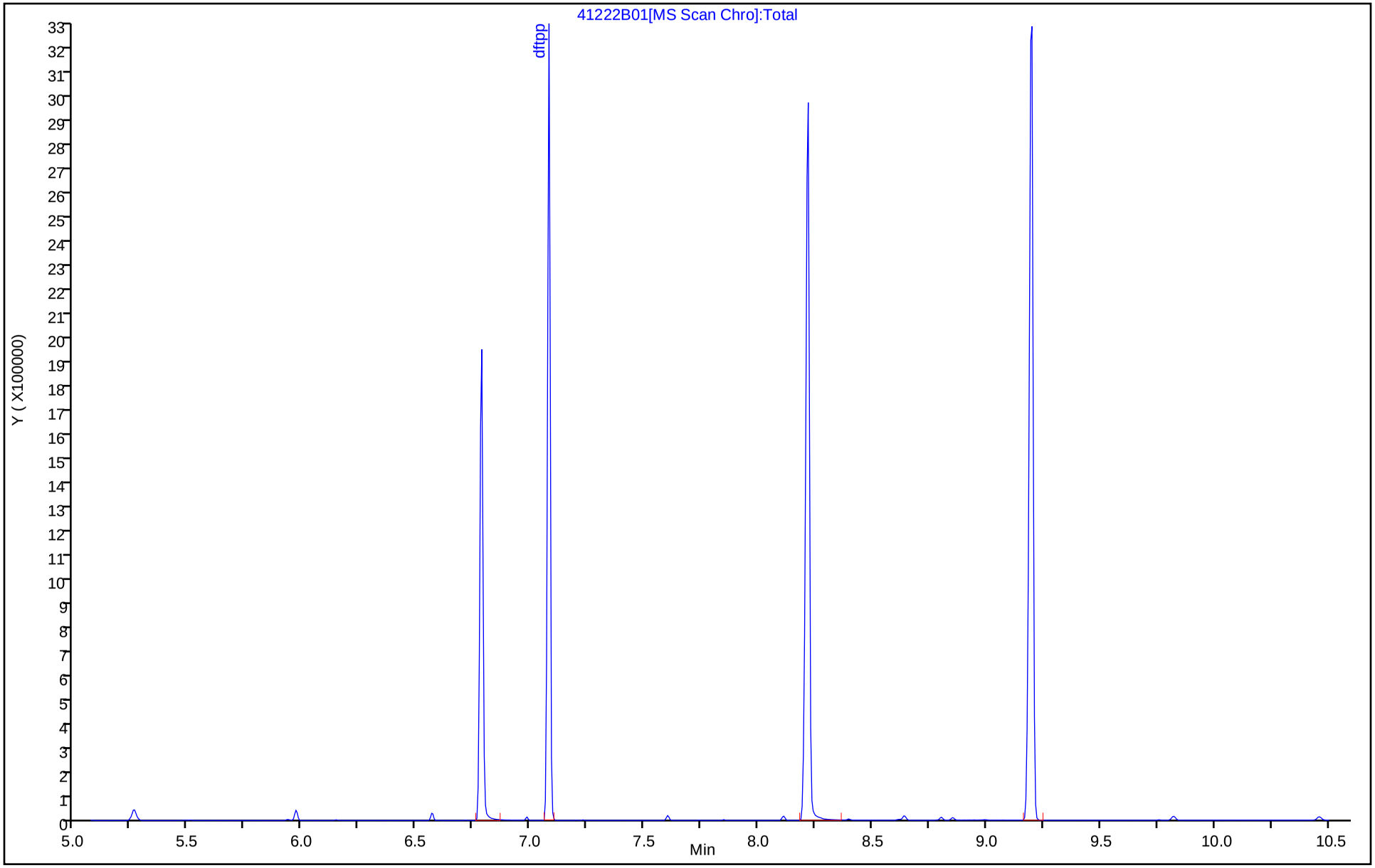
m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	6967	158.00	1168	237.00	1150	335.00	1084
82.00	1677	159.00	831	238.00	142	336.00	52
83.00	1569	160.00	1778	239.00	618	341.00	764
84.00	197	161.00	2840	240.00	483	342.00	181
85.00	1288	162.00	839	241.00	827	346.00	1384
86.00	2032	163.00	179	242.00	2035	347.00	208
87.00	972	164.00	332	243.00	2104	351.00	56
88.00	319	165.00	2328	244.00	29504	352.00	1942
89.00	143	166.00	1818	245.00	3825	353.00	1300
91.00	1648	167.00	12062	246.00	5709	354.00	1962
92.00	1823	168.00	5344	247.00	1095	355.00	412
93.00	11253	169.00	1003	248.00	240	359.00	133
94.00	788	170.00	457	249.00	1031	365.00	8597
95.00	230	171.00	568	250.00	170	366.00	1196
96.00	576	172.00	1122	251.00	274	370.00	160
97.00	139	173.00	1378	252.00	267	371.00	526
98.00	8637	174.00	2663	253.00	574	372.00	3306
99.00	6900	175.00	4559	255.00	147712	373.00	856
100.00	618	176.00	1571	256.00	21576	374.00	54
101.00	4090	177.00	2383	257.00	1637	383.00	897
102.00	261	178.00	764	258.00	8298	384.00	207
103.00	1482	179.00	8725	259.00	1403	390.00	448
104.00	2667	180.00	6205	260.00	195	391.00	307
105.00	2418	181.00	2819	261.00	204	392.00	222
106.00	862	182.00	444	264.00	358	401.00	182
107.00	31776	183.00	281	265.00	3382	402.00	1350
108.00	4998	184.00	714	266.00	667	403.00	1955
109.00	1021	185.00	4373	268.00	179	404.00	635
110.00	60800	186.00	35672	270.00	213	405.00	54
111.00	9173	187.00	9872	271.00	293	421.00	1634
112.00	1070	188.00	1098	272.00	314	422.00	1646
113.00	334	189.00	2138	273.00	4618	423.00	13024
115.00	61	190.00	379	274.00	12022	424.00	2949
116.00	1809	191.00	1041	275.00	71104	425.00	283

Report Date: 22-Dec-2015 13:41:21 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122115.b\4122101.D
Injection Date: 21-Dec-2015 08:23:30
Spectrum: Avg. Scans 374-376 (7.09), Background Scan 370
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 296

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	24168	192.00	2846	276.00	9472	438.00	55
118.00	1820	193.00	3243	277.00	5768	439.00	65
119.00	239	194.00	669	278.00	938	441.00	40624
120.00	420	195.00	452	279.00	185	442.00	276416
121.00	80	196.00	8607	281.00	104	443.00	56192
122.00	2149	197.00	1467	282.00	122	444.00	5331
123.00	3377	198.00	252288	283.00	652	445.00	262

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B01.D				
Injection Date:	22-Dec-2015 09:19:30	Inst. ID:	msd4.i	Operator:	JCG
Client ID:	DFTPPOS	Lab ID:	SVMS 1608		
Sample Info:	4122215B, SVMS 1608				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



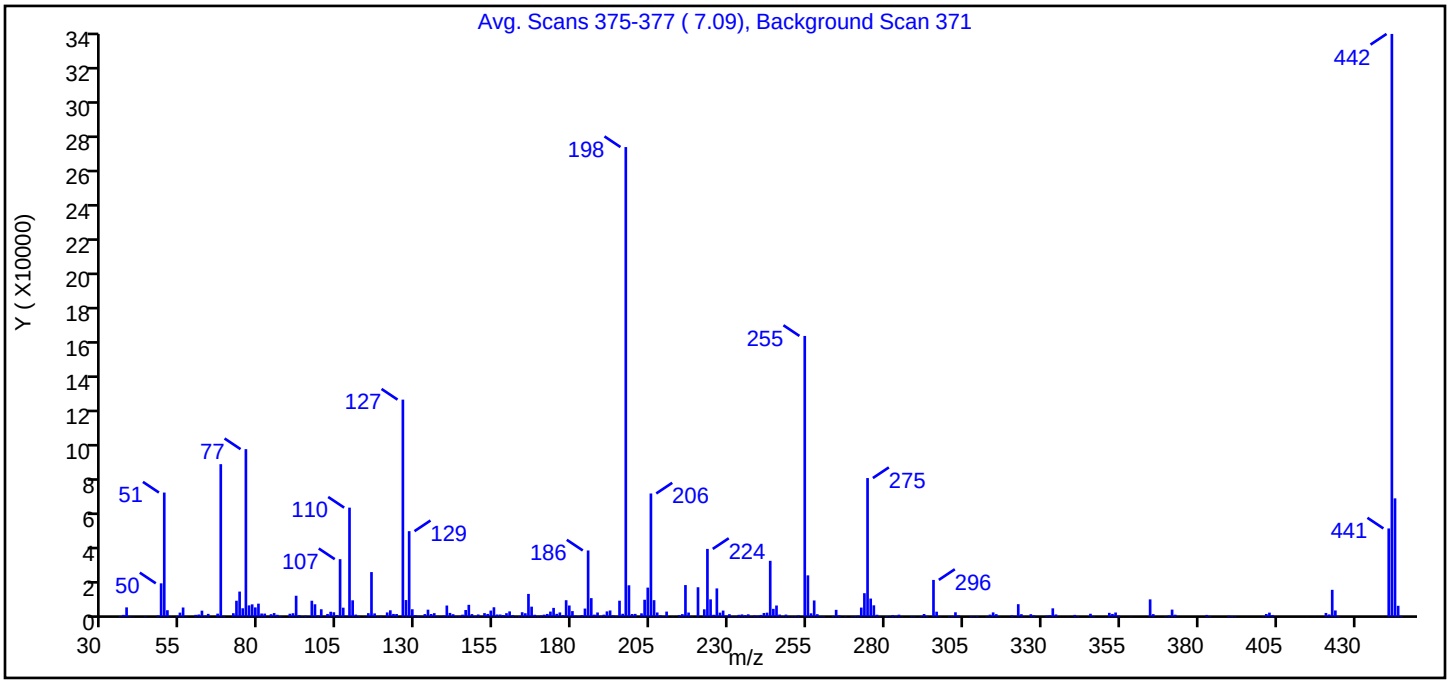
Report Date: 22-Dec-2015 15:27:42 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\HH\chem\msd4.i\4122215B.b\41222B01.D		
Injection Date:	22-Dec-2015 09:19:30	Inst. ID:	msd4.i
Client ID:	DFTPPOS	Lab ID:	SVMS 1608
Sample Info:	4122215B, SVMS 1608		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
51	10.00 - 80.00% of mass 198	26.4
68	Less than 2.00% of mass 69	0.6 (1.9)
69	Present	32.5
70	Less than 2.00% of mass 69	0.2 (0.5)
127	10.00 - 80.00% of mass 198	46.2
197	Less than 2.00% of mass 198	0.6
199	5.00 - 9.00% of mass 198	6.7
275	10.00 - 60.00% of mass 198	29.5
365	Greater than 1.00% of mass 198	3.7
441	0.01 - 99.99% of mass 443	18.8 (74.6)
442	Greater than 50.00% of mass 198	124.1
443	15.00 - 24.00% of mass 442	25.2 (20.3)

Data File: \\Organics\HH\chem\msd4.i\4122215B.b\41222B01.D
Injection Date: 22-Dec-2015 09:19:30
Spectrum: Avg. Scans 375-377 (7.09), Background Scan 371
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 299

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	329	128.00	9378	204.00	9552	290.00	213
38.00	974	129.00	48432	205.00	16440	291.00	55
39.00	5228	130.00	4170	206.00	69800	292.00	275
40.00	279	131.00	800	207.00	9313	293.00	1465
41.00	123	132.00	429	208.00	2340	294.00	415
45.00	180	133.00	254	209.00	745	296.00	20800
49.00	654	134.00	1429	210.00	284	297.00	2796
50.00	18864	135.00	3922	211.00	2843	298.00	219
51.00	70320	136.00	1471	213.00	145	301.00	284
52.00	3617	137.00	1959	215.00	832	302.00	376
53.00	134	138.00	405	216.00	1407	303.00	2449
55.00	420	139.00	230	217.00	17880	304.00	665
56.00	2259	140.00	571	218.00	2299	308.00	318
57.00	5158	141.00	6281	219.00	233	309.00	209
58.00	187	142.00	2086	221.00	16640	310.00	298
61.00	993	143.00	1366	223.00	4129	313.00	215
62.00	1189	144.00	354	224.00	38368	314.00	1115
63.00	3365	145.00	382	225.00	9780	315.00	2386
64.00	405	146.00	1095	226.00	1019	316.00	1383
65.00	1558	147.00	3736	227.00	15979	317.00	166
68.00	1682	148.00	6675	228.00	2250	321.00	711
69.00	86416	149.00	1423	229.00	3414	322.00	79
70.00	417	150.00	352	230.00	475	323.00	7045
73.00	1923	151.00	1212	231.00	1378	324.00	1369
74.00	8989	152.00	109	232.00	231	325.00	132
75.00	14189	153.00	1981	233.00	277	326.00	63
76.00	4725	154.00	1526	234.00	1006	327.00	1366
77.00	94928	155.00	3424	235.00	1234	328.00	698
78.00	6366	156.00	5289	236.00	749	329.00	66
79.00	6957	157.00	1193	237.00	1294	332.00	551
80.00	5220	158.00	1192	238.00	220	333.00	748
81.00	7344	159.00	912	239.00	637	334.00	4686
82.00	1758	160.00	1944	240.00	520	335.00	1217

Report Date: 22-Dec-2015 15:27:42 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122215B.b\41222B01.D
Injection Date: 22-Dec-2015 09:19:30
Spectrum: Avg. Scans 375-377 (7.09), Background Scan 371
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 299

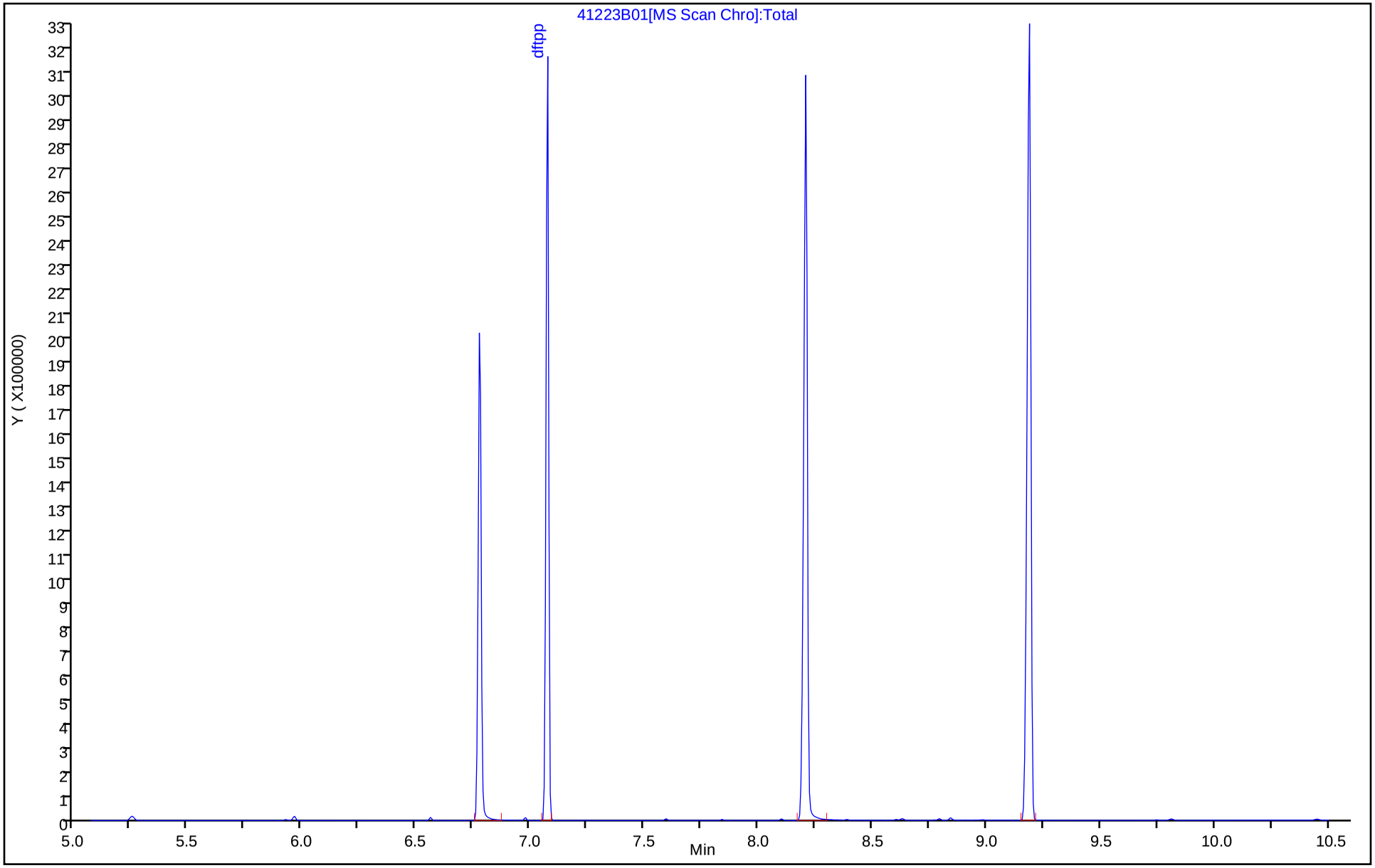
m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	1707	161.00	2954	241.00	949	336.00	74
84.00	134	162.00	808	242.00	2056	339.00	54
85.00	1369	163.00	225	243.00	2236	341.00	973
86.00	2006	164.00	348	244.00	31632	342.00	282
87.00	1026	165.00	2481	245.00	4399	346.00	1619
88.00	311	166.00	1897	246.00	6297	347.00	260
89.00	126	167.00	12868	247.00	1159	351.00	59
91.00	1629	168.00	5633	248.00	244	352.00	2134
92.00	1915	169.00	1033	249.00	1137	353.00	1514
93.00	11822	170.00	467	250.00	226	354.00	2320
94.00	802	171.00	605	251.00	258	355.00	547
95.00	238	172.00	1124	252.00	272	359.00	137
96.00	508	173.00	1509	253.00	674	365.00	9775
97.00	170	174.00	2862	255.00	159104	366.00	1410
98.00	8999	175.00	4942	256.00	23384	370.00	219
99.00	6988	176.00	1565	257.00	1883	371.00	653
100.00	673	177.00	2363	258.00	9154	372.00	3965
101.00	4168	178.00	812	259.00	1374	373.00	1069
102.00	184	179.00	9292	260.00	274	374.00	52
103.00	1501	180.00	6298	261.00	282	383.00	948
104.00	2756	181.00	3122	264.00	366	384.00	308
105.00	2462	182.00	489	265.00	3832	390.00	491
106.00	896	183.00	331	266.00	668	391.00	336
107.00	32560	184.00	776	267.00	61	392.00	219
108.00	5060	185.00	4559	268.00	215	401.00	210
109.00	200	186.00	37488	270.00	228	402.00	1489
110.00	61776	187.00	10474	271.00	338	403.00	2252
111.00	9233	188.00	1108	272.00	503	404.00	839
112.00	1146	189.00	2337	273.00	5116	405.00	56
113.00	376	190.00	403	274.00	13268	415.00	55
115.00	177	191.00	1100	275.00	78544	421.00	2068
116.00	1959	192.00	2959	276.00	10228	422.00	1230
117.00	25240	193.00	3471	277.00	6393	423.00	15178
118.00	1820	194.00	715	278.00	1056	424.00	3490

Report Date: 22-Dec-2015 15:27:42 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122215B.b\41222B01.D
Injection Date: 22-Dec-2015 09:19:30
Spectrum: Avg. Scans 375-377 (7.09), Background Scan 371
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 299

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	265	195.00	356	279.00	236	425.00	328
120.00	442	196.00	9018	281.00	331	439.00	74
121.00	135	197.00	1599	282.00	205	441.00	49976
122.00	2363	198.00	266176	283.00	803	442.00	330304
123.00	3575	199.00	17752	284.00	469	443.00	67032
124.00	1510	200.00	1459	285.00	1095	444.00	6123
125.00	1467	201.00	1544	286.00	163	445.00	393
127.00	123000	203.00	1867	289.00	262		

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B01.D				
Injection Date:	23-Dec-2015 09:53:30	Inst. ID:	msd4.i	Operator:	JCG
Client ID:	DFTPPPA	Lab ID:	SVMS 1608		
Sample Info:	4122315B, SVMS 1608				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



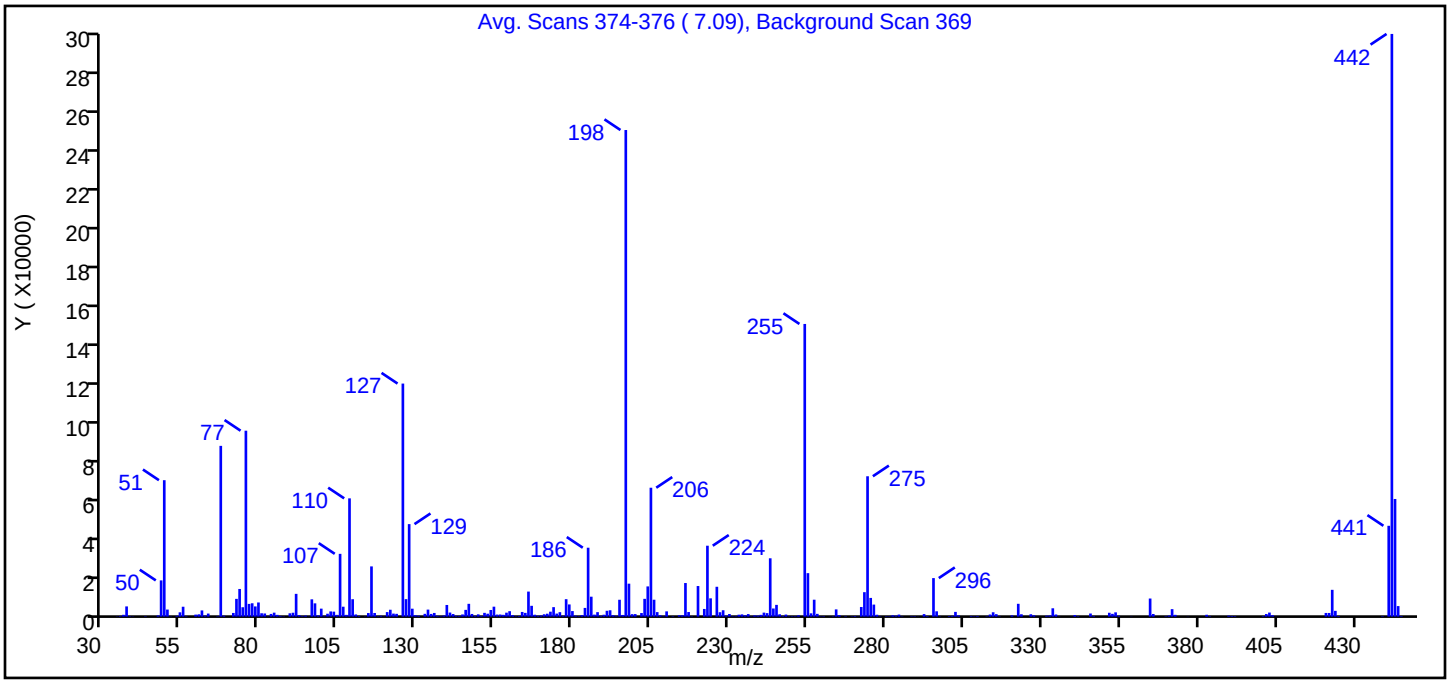
Report Date: 29-Dec-2015 17:41:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B01.D		
Injection Date:	23-Dec-2015 09:53:30	Inst. ID:	msd4.i
Client ID:	DFTPPPA	Lab ID:	SVMS 1608
Sample Info:	4122315B, SVMS 1608		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
51	10.00 - 80.00% of mass 198	28.0
68	Less than 2.00% of mass 69	0.1 (0.2)
69	Present	35.1
70	Less than 2.00% of mass 69	0.2 (0.5)
127	10.00 - 80.00% of mass 198	47.9
197	Less than 2.00% of mass 198	0.3
199	5.00 - 9.00% of mass 198	6.8
275	10.00 - 60.00% of mass 198	28.8
365	Greater than 1.00% of mass 198	3.7
441	0.01 - 99.99% of mass 443	18.7 (77.2)
442	Greater than 50.00% of mass 198	119.7
443	15.00 - 24.00% of mass 442	24.2 (20.2)

Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B01.D
Injection Date: 23-Dec-2015 09:53:30
Spectrum: Avg. Scans 374-376 (7.09), Background Scan 369
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	115	125.00	1413	201.00	1293	286.00	152
37.00	272	127.00	119048	203.00	1828	289.00	193
38.00	923	128.00	8926	204.00	9073	290.00	200
39.00	5208	129.00	47248	205.00	15425	291.00	71
40.00	210	130.00	4042	206.00	65840	293.00	1281
41.00	114	131.00	731	207.00	8626	294.00	302
45.00	186	132.00	443	208.00	2302	296.00	19672
49.00	593	134.00	1417	209.00	653	297.00	2702
50.00	18496	135.00	3577	210.00	182	298.00	144
51.00	69688	136.00	1365	211.00	2676	301.00	283
52.00	3604	137.00	1861	213.00	218	302.00	406
53.00	138	138.00	389	215.00	673	303.00	2406
55.00	400	139.00	218	216.00	662	304.00	614
56.00	2192	140.00	555	217.00	17152	308.00	294
57.00	5041	141.00	5941	218.00	2334	309.00	159
58.00	200	142.00	2068	219.00	176	310.00	297
61.00	1020	143.00	1309	221.00	15622	313.00	194
62.00	1165	144.00	394	223.00	3910	314.00	1058
63.00	3155	145.00	350	224.00	36216	315.00	2215
64.00	481	146.00	1100	225.00	9332	316.00	1242
65.00	1554	147.00	3439	227.00	15239	317.00	174
68.00	195	148.00	6530	228.00	2246	321.00	625
69.00	87224	149.00	1347	229.00	3244	323.00	6542
70.00	453	150.00	378	230.00	444	324.00	1197
73.00	1869	151.00	1154	231.00	1326	327.00	1201
74.00	9057	152.00	310	232.00	186	328.00	656
75.00	14114	153.00	1916	233.00	214	329.00	51
76.00	4791	154.00	1482	234.00	975	332.00	474
77.00	94968	155.00	3378	235.00	1135	333.00	581
78.00	6486	156.00	5069	236.00	683	334.00	4250
79.00	6818	157.00	1032	237.00	1283	335.00	1080
80.00	5199	158.00	1067	238.00	156	336.00	105
81.00	7223	159.00	915	239.00	628	340.00	55

Report Date: 29-Dec-2015 17:41:05 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B01.D
Injection Date: 23-Dec-2015 09:53:30
Spectrum: Avg. Scans 374-376 (7.09), Background Scan 369
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1712	160.00	2006	240.00	493	341.00	789
83.00	1597	161.00	2770	241.00	892	342.00	214
84.00	145	162.00	751	242.00	2038	346.00	1578
85.00	1365	163.00	190	243.00	1785	347.00	273
86.00	2015	164.00	327	244.00	29792	352.00	1963
87.00	889	165.00	2373	245.00	4144	353.00	1409
88.00	351	166.00	1898	246.00	5991	354.00	2176
89.00	164	167.00	12784	247.00	1193	355.00	429
91.00	1695	168.00	5511	248.00	291	359.00	74
92.00	1975	169.00	959	249.00	1041	365.00	9235
93.00	11620	170.00	415	250.00	170	366.00	1335
94.00	758	171.00	558	251.00	219	370.00	216
95.00	258	172.00	1194	252.00	218	371.00	526
96.00	532	173.00	1486	253.00	653	372.00	3805
97.00	101	174.00	2519	255.00	149504	373.00	904
98.00	8828	175.00	4834	256.00	22200	374.00	51
99.00	6770	176.00	1540	257.00	1680	377.00	64
100.00	604	177.00	2266	258.00	8633	383.00	946
101.00	4068	178.00	387	259.00	1404	384.00	245
102.00	205	179.00	8905	260.00	161	390.00	473
103.00	1471	180.00	6211	261.00	220	391.00	318
104.00	2645	181.00	2823	263.00	60	392.00	243
105.00	2533	182.00	485	264.00	201	401.00	273
106.00	879	183.00	234	265.00	3689	402.00	1321
107.00	32064	184.00	761	266.00	748	403.00	2059
108.00	5052	185.00	4439	268.00	209	404.00	704
109.00	886	186.00	35192	270.00	152	405.00	50
110.00	60408	187.00	10171	271.00	321	421.00	1866
111.00	8882	188.00	1011	272.00	81	422.00	1856
112.00	1103	189.00	2276	273.00	4898	423.00	13677
113.00	325	190.00	392	274.00	12480	424.00	2932
115.00	117	191.00	953	275.00	71696	425.00	302
116.00	1817	192.00	2977	276.00	9545	439.00	233
117.00	25648	193.00	3231	277.00	6139	441.00	46392

Report Date: 29-Dec-2015 17:41:05 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B01.D
Injection Date: 23-Dec-2015 09:53:30
Spectrum: Avg. Scans 374-376 (7.09), Background Scan 369
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	1844	194.00	724	278.00	951	442.00	297664
119.00	213	195.00	243	279.00	170	443.00	60088
120.00	425	196.00	8606	281.00	214	444.00	5375
121.00	120	197.00	843	282.00	182	445.00	306
122.00	2300	198.00	248576	283.00	669		
123.00	3502	199.00	16824	284.00	468		
124.00	1533	200.00	1247	285.00	1035		

Blank Data

Blanks are arranged by type of blank
(Method, Storage, Instrument)

Listed in Chronological Order by instrument.

MS / MSD Data

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK38

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: MED
Matrix: Soil
Lab Sample ID: QQ92838-001
Sample wt/vol: 1.00 (g/mL) g
Lab File ID: 41223B05
% Solids: 100
Date Received:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/22/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	51	U
91-20-3	Naphthalene	51	U
91-57-6	2-Methylnaphthalene	51	U
208-96-8	Acenaphthylene	51	U
83-32-9	Acenaphthene	51	U
86-73-7	Fluorene	51	U
87-86-5	Pentachlorophenol	99	U
85-01-8	Phenanthrene	51	U
120-12-7	Anthracene	51	U
206-44-0	Fluoranthene	51	U
129-00-0	Pyrene	51	U
56-55-3	Benzo(a)anthracene	51	U
218-01-9	Chrysene	51	U
205-99-2	Benzo(b)fluoranthene	51	U
207-08-9	Benzo(k)fluoranthene	51	U
50-32-8	Benzo(a)pyrene	51	U
193-39-5	Indeno(1,2,3-cd)pyrene	51	U
53-70-3	Dibenzo(a,h)anthracene	51	U
191-24-2	Benzo(g,h,i)perylene	51	U
132-64-9	Dibenzofuran	51	U
118-74-1	Hexachlorobenzene	51	U
87-68-3	Hexachlorobutadiene	99	U
111-44-4	bis(2-Chloroethyl)ether	99	U
108-60-1	2,2'-Oxybis(1-chloropropane)	99	U
621-64-7	N-Nitrosodi-n-propylamine	51	U
67-72-1	Hexachloroethane	99	U
98-95-3	Nitrobenzene	99	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK38

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: MED
Matrix: Soil
Lab Sample ID: QQ92838-001
Sample wt/vol: 1.00 (g/mL) g
Lab File ID: 41223B05
% Solids: 100
Date Received:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/22/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	99	U
88-06-2	2,4,6-Trichlorophenol	99	U
92-52-4	1,1'-Biphenyl	51	U
606-20-2	2,6-Dinitrotoluene	51	U
51-28-5	2,4-Dinitrophenol	990	U
121-14-2	2,4-Dinitrotoluene	51	U
534-52-1	4,6-Dinitro-2-methylphenol	99	U
95-94-3	1,2,4,5-Tetrachlorobenzene	99	U
1912-24-9	Atrazine	99	U
91-94-1	3,3'-Dichlorobenzidine	99	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B05.D		
Lab Sample ID:	QQ92838-001	Client Sample ID:	SBLK38
Injection Date:	23-Dec-2015 11:35:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122315B, QQ92838-001		
Misc. Info:	92838		
Method:	\\Organics\HH\chem\msd4.i\4122315B.b\Sim2544.m		
Method Date:	29-Dec-2015 17:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	BLANK	ALS Bottle:	11
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	1.0000	Weight of sample extracted (g)
M	0	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	04-Jan-2016 13:30:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.761	3.761	0.000	22687	0.20791	207.91	R
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	20459	0.09969	99.693	
5 bis(2-Chloroethyl)Ether	93.0		5.762		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	76034	0.40000	400.00	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.288		ND			
15 Hexachloroethane	117.0		6.434		ND			
$ 16 Nitrobenzene-d5	128.0	6.455	6.455	0.000	9225	0.09461	94.615	e
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.935	6.917	0.018	29054	0.14102	141.02	
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	356768	0.40000	400.00	
24 Naphthalene	128.0		7.074		ND			
25 4-Chloroaniline	127.0		7.092		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	41153	0.08343	83.426	
29 2-Methylnaphthalene	142.0		7.635		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.316		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	167692	0.40000	400.00	

Report Date: 04-Jan-2016 13:32:15 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B05.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0		8.703		ND			
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.473		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.807	9.807	0.000	276172	0.40000	400.00	
59 Phenanthrene	178.0		9.827		ND			
60 Anthracene	178.0		9.869		ND			
$ 116 Flouranthene-d10	212.0	10.932	10.932	0.000	60881	0.08361	83.605	
63 Fluoranthene	202.0		10.950		ND			
64 Pyrene	202.0		11.212		ND			
68 3,3'-Dichlorobenzidine	252.0		12.652		ND			
67 Benzo(a)anthracene	228.0		12.740		ND			
* 69 Chrysene-d12	240.0	12.757	12.757	0.000	286109	0.40000	400.00	
70 Chrysene	228.0		12.801		ND			
73 Benzo(b)fluoranthene	252.0		14.418		ND			
74 Benzo(k)fluoranthene	252.0		14.462		ND			
75 Benzo(a)pyrene	252.0		14.992		ND			
* 76 Perylene-d12	264.0	15.088	15.092	-0.004	253679	0.40000	400.00	
77 Indeno(1,2,3-cd)pyrene	276.0		17.330		ND			
78 Dibenzo(a,h)anthracene	278.0		17.345		ND			
79 Benzo(g,h,i)perylene	276.0		18.015		ND			

QC Flag Legend

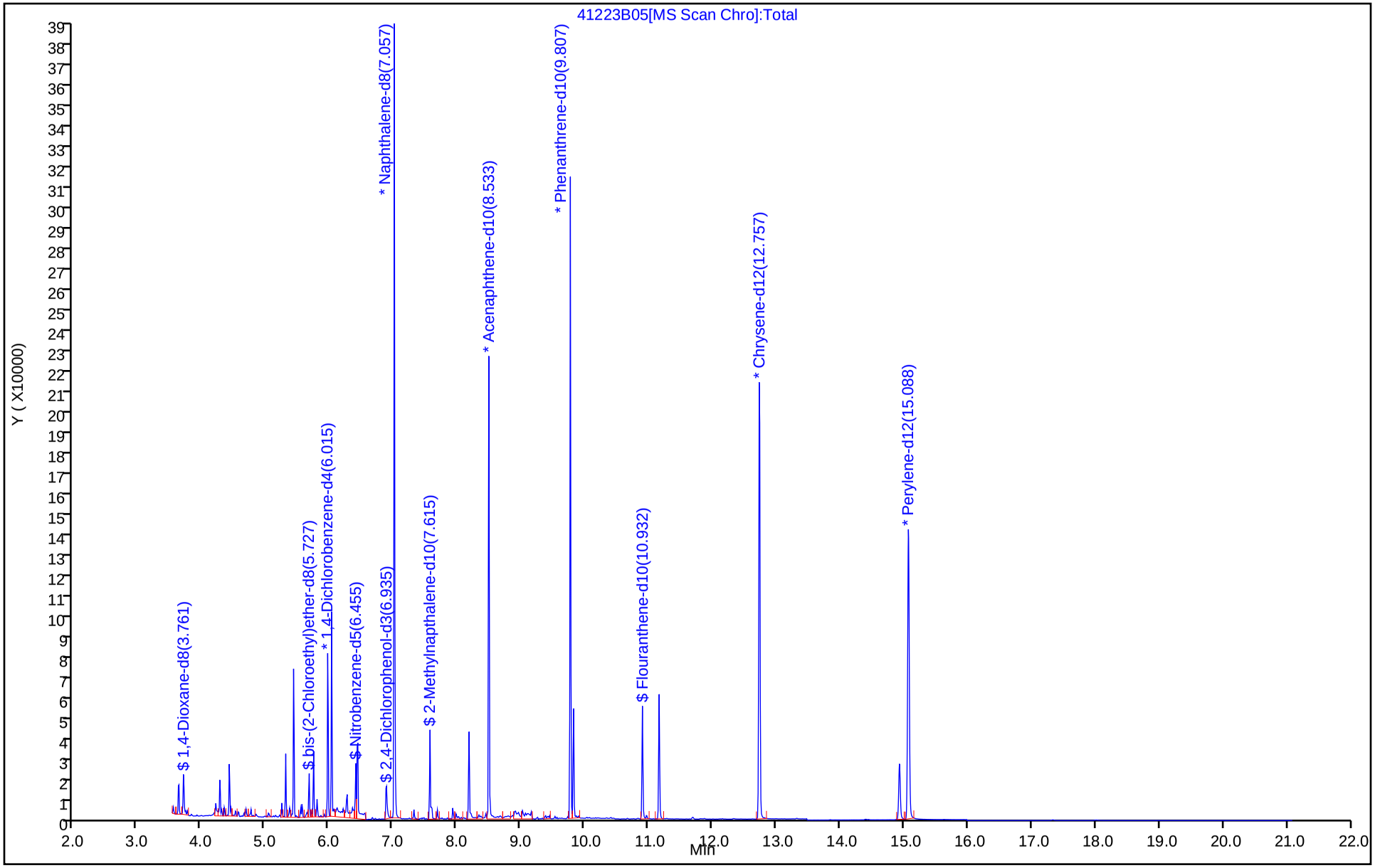
Processing Flags

e - Compound Concentration Below Quantitation Limit

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B05.D				
Injection Date:	23-Dec-2015 11:35:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SBLK38	Lab ID:	QQ92838-001		
Sample Info:	4122315B, QQ92838-001				
Injection Vol.	1.00 uL	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK13

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92513-001
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 41223B11
% Solids: 100
Date Received:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1.7	U
91-20-3	Naphthalene	0.82	J
91-57-6	2-Methylnaphthalene	0.54	J
208-96-8	Acenaphthylene	1.7	U
83-32-9	Acenaphthene	1.7	U
86-73-7	Fluorene	1.7	U
87-86-5	Pentachlorophenol	3.3	U
85-01-8	Phenanthrene	1.7	U
120-12-7	Anthracene	1.7	U
206-44-0	Fluoranthene	1.7	U
129-00-0	Pyrene	1.7	U
56-55-3	Benzo(a)anthracene	1.7	U
218-01-9	Chrysene	1.7	U
205-99-2	Benzo(b)fluoranthene	1.7	U
207-08-9	Benzo(k)fluoranthene	1.7	U
50-32-8	Benzo(a)pyrene	1.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.7	U
53-70-3	Dibenzo(a,h)anthracene	1.7	U
191-24-2	Benzo(g,h,i)perylene	1.7	U
132-64-9	Dibenzofuran	1.7	U
118-74-1	Hexachlorobenzene	1.7	U
87-68-3	Hexachlorobutadiene	3.3	U
111-44-4	bis(2-Chloroethyl)ether	3.3	U
108-60-1	2,2'-Oxybis(1-chloropropane)	3.3	U
621-64-7	N-Nitrosodi-n-propylamine	1.7	U
67-72-1	Hexachloroethane	3.3	U
98-95-3	Nitrobenzene	3.3	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK13

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: 2544.1 SDG No.: F6R18
Analytical Method: SVOA SIM
Level: LOW
Matrix: Soil
Lab Sample ID: QQ92513-001
Sample wt/vol: 30.0 (g/mL) g
Lab File ID: 41223B11
% Solids: 100
Date Received:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/18/2015
GC Column: ID: (mm)
Date Analyzed: 12/23/2015
Extract Concentrated: (Y/N) Y
Extract Volume: 500 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: SONC
Heated Purge: (Y/N)
Injection Volume: 2.0 (uL)
Purge Volume: (mL)
pH: Dilution Factor: 1.0
Cleanup Types: GPC
Cleanup Factor: 2
Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	3.3	U
88-06-2	2,4,6-Trichlorophenol	3.3	U
92-52-4	1,1'-Biphenyl	1.7	U
606-20-2	2,6-Dinitrotoluene	1.7	U
51-28-5	2,4-Dinitrophenol	33	U
121-14-2	2,4-Dinitrotoluene	1.7	U
534-52-1	4,6-Dinitro-2-methylphenol	3.3	U
95-94-3	1,2,4,5-Tetrachlorobenzene	3.3	U
1912-24-9	Atrazine	3.3	U
91-94-1	3,3'-Dichlorobenzidine	3.3	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B11.D		
Lab Sample ID:	QQ92513-001	Client Sample ID:	SBLK13
Injection Date:	23-Dec-2015 14:14:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4122315B, QQ92513-001		
Misc. Info:	92513		
Method:	\\Organics\HH\chem\msd4.i\4122315B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:11:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	BLANK	ALS Bottle:	13
Cpnd Sublist:	std.sub		
Sample Matrix:	Soil	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	2.0000	GPC correction factor
Vt	500.00	Volume of final extract (uL)
Ws	30.000	Weight of sample extracted (g)
M	0	% Moisture
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	04-Jan-2016 13:31:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
$ 109 1,4-Dioxane-d8	96.0	3.761	3.761	0.000	46485	0.39648	13.216	R
108 1,4-Dioxane	88.0		3.788		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	16085	0.07295	2.4315	e
5 bis(2-Chloroethyl)Ether	93.0		5.762		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	81697	0.40000	13.333	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.288		ND			
15 Hexachloroethane	117.0		6.434		ND			
$ 16 Nitrobenzene-d5	128.0	6.457	6.455	0.002	5635	0.05416	1.8055	e
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.926	6.917	0.009	21224	0.09655	3.2182	e
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	380680	0.40000	13.333	
24 Naphthalene	128.0	7.075	7.074	0.000	24270	0.02458	0.81941	e
25 4-Chloroaniline	127.0		7.092		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	27627	0.05249	1.7496	
29 2-Methylnaphthalene	142.0	7.636	7.635	0.001	9376	0.01608	0.53612	e
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.875		ND			
34 1,1'-Biphenyl	154.0		8.021		ND			
39 2,6-Dinitrotoluene	165.0		8.316		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	185413	0.40000	13.333	

Report Date: 04-Jan-2016 13:32:20 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4122315B.b\41223B11.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/Kg	Flags
42 Acenaphthene	153.0		8.564		ND			
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0		8.703		ND			
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.473		ND			
57 Pentachlorophenol	266.0		9.640		ND			
* 58 Phenanthrene-d10	188.0	9.807	9.807	0.000	326219	0.40000	13.333	
59 Phenanthrene	178.0		9.827		ND			
60 Anthracene	178.0		9.869		ND			
$ 116 Flouranthene-d10	212.0	10.933	10.932	0.001	54792	0.06370	2.1233	
63 Fluoranthene	202.0		10.950		ND			
64 Pyrene	202.0		11.212		ND			
68 3,3'-Dichlorobenzidine	252.0		12.652		ND			
67 Benzo(a)anthracene	228.0		12.740		ND			
* 69 Chrysene-d12	240.0	12.757	12.757	0.000	325881	0.40000	13.333	
70 Chrysene	228.0		12.801		ND			
73 Benzo(b)fluoranthene	252.0		14.418		ND			
74 Benzo(k)fluoranthene	252.0		14.462		ND			
75 Benzo(a)pyrene	252.0		14.992		ND			
* 76 Perylene-d12	264.0	15.088	15.092	-0.004	273488	0.40000	13.333	
77 Indeno(1,2,3-cd)pyrene	276.0		17.330		ND			
78 Dibenzo(a,h)anthracene	278.0		17.345		ND			
79 Benzo(g,h,i)perylene	276.0		18.015		ND			

QC Flag Legend

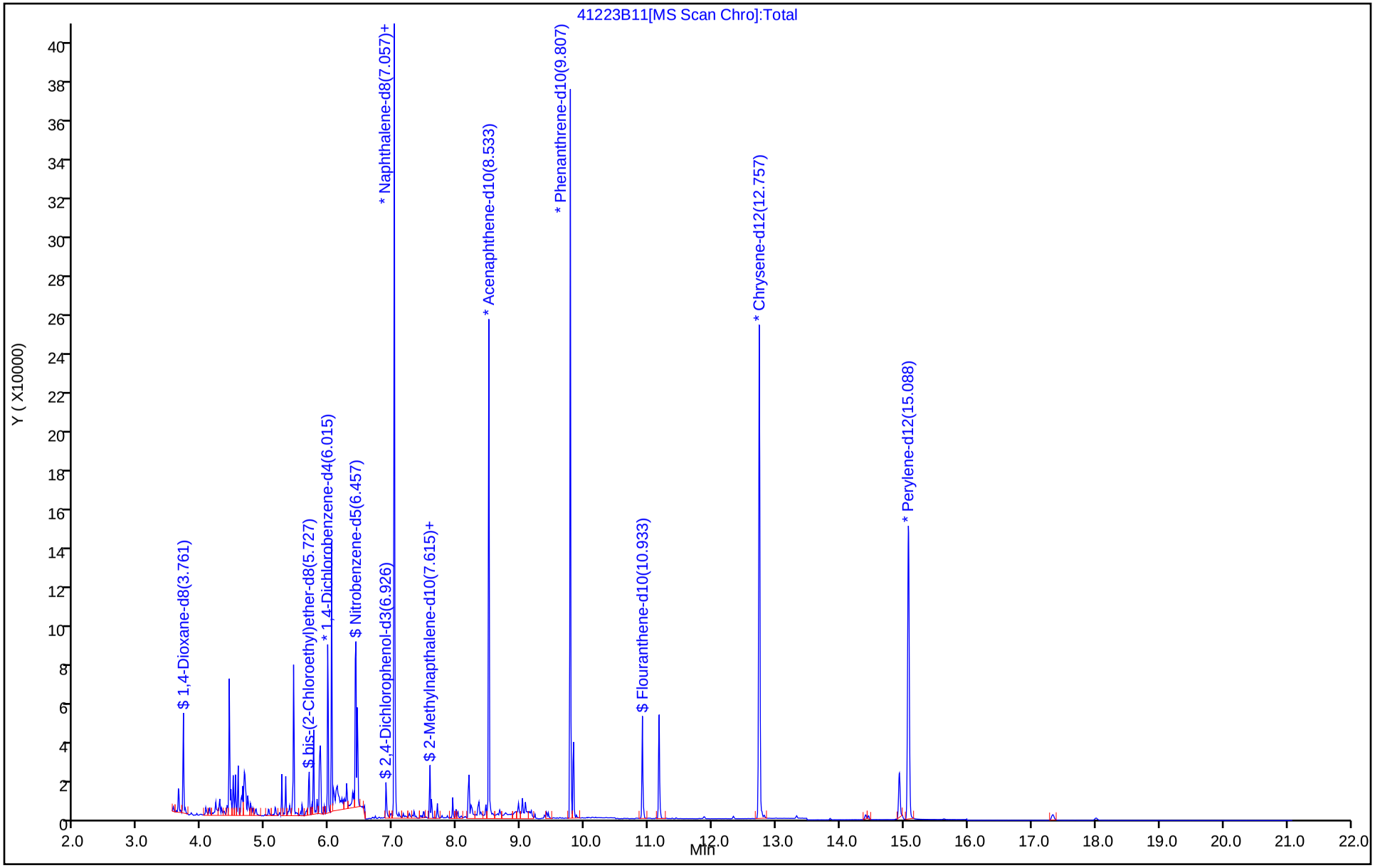
Processing Flags

e - Compound Concentration Below Quantitation Limit

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B11.D				
Injection Date:	23-Dec-2015 14:14:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SBLK13	Lab ID:	QQ92513-001		
Sample Info:	4122315B, QQ92513-001				
Injection Vol.	2.00 uL	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

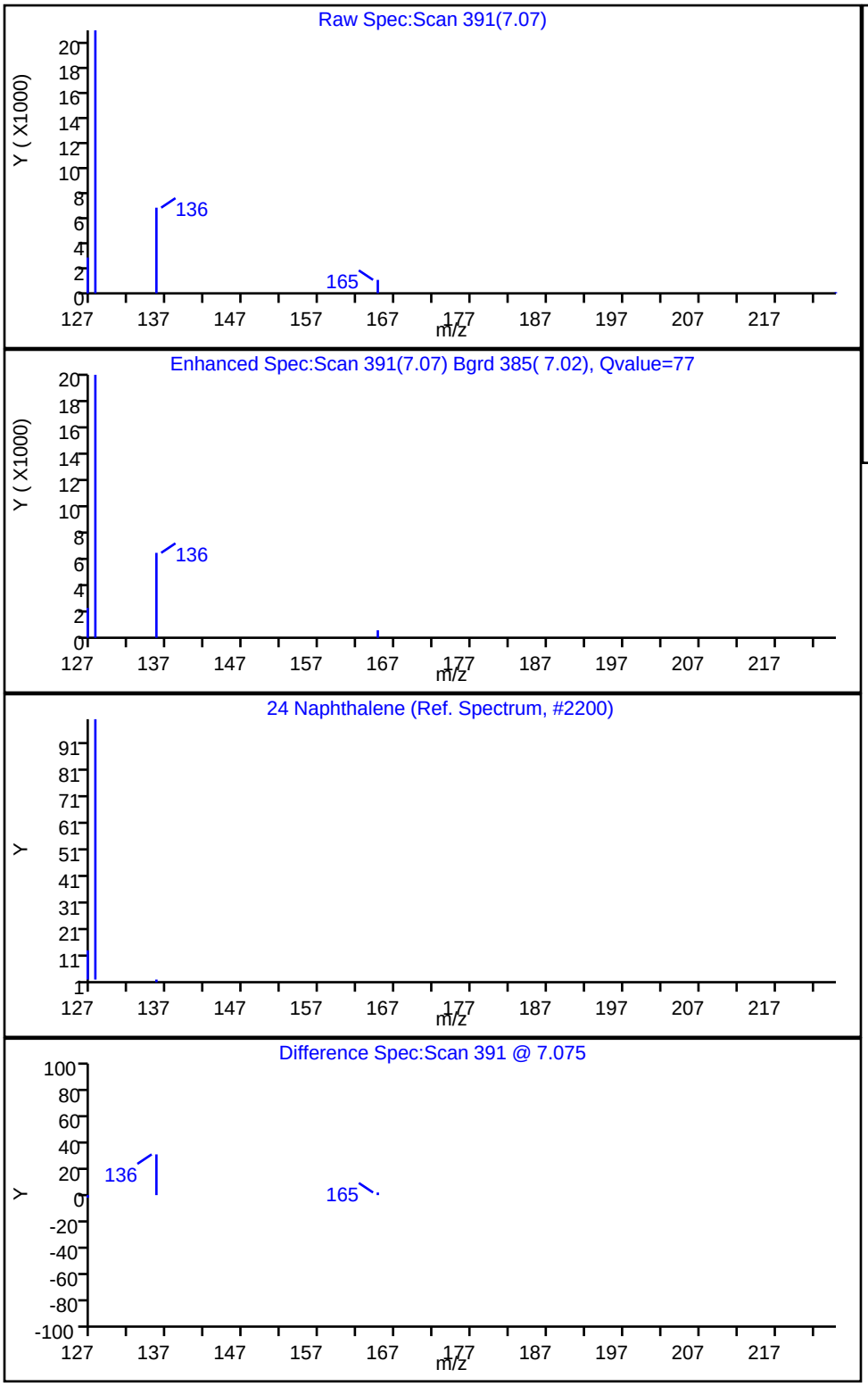


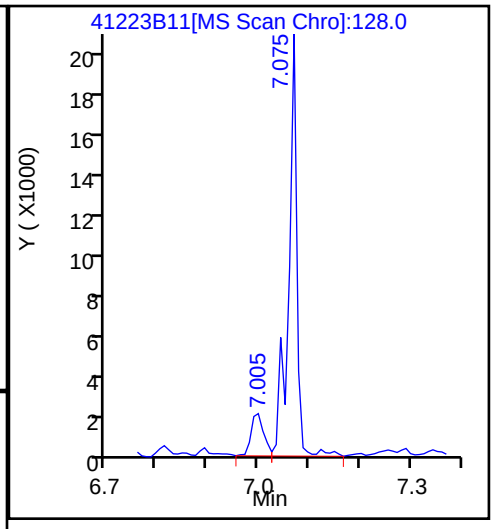
Report Date: 04-Jan-2016 13:32:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B11.D		
Injection Date:	23-Dec-2015 14:14:30	Inst. ID:	msd4.i
Client ID:	SBLK13	Lab ID:	QQ92513-001
Sample Info:	4122315B, QQ92513-001		
Injection Vol.	2.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene



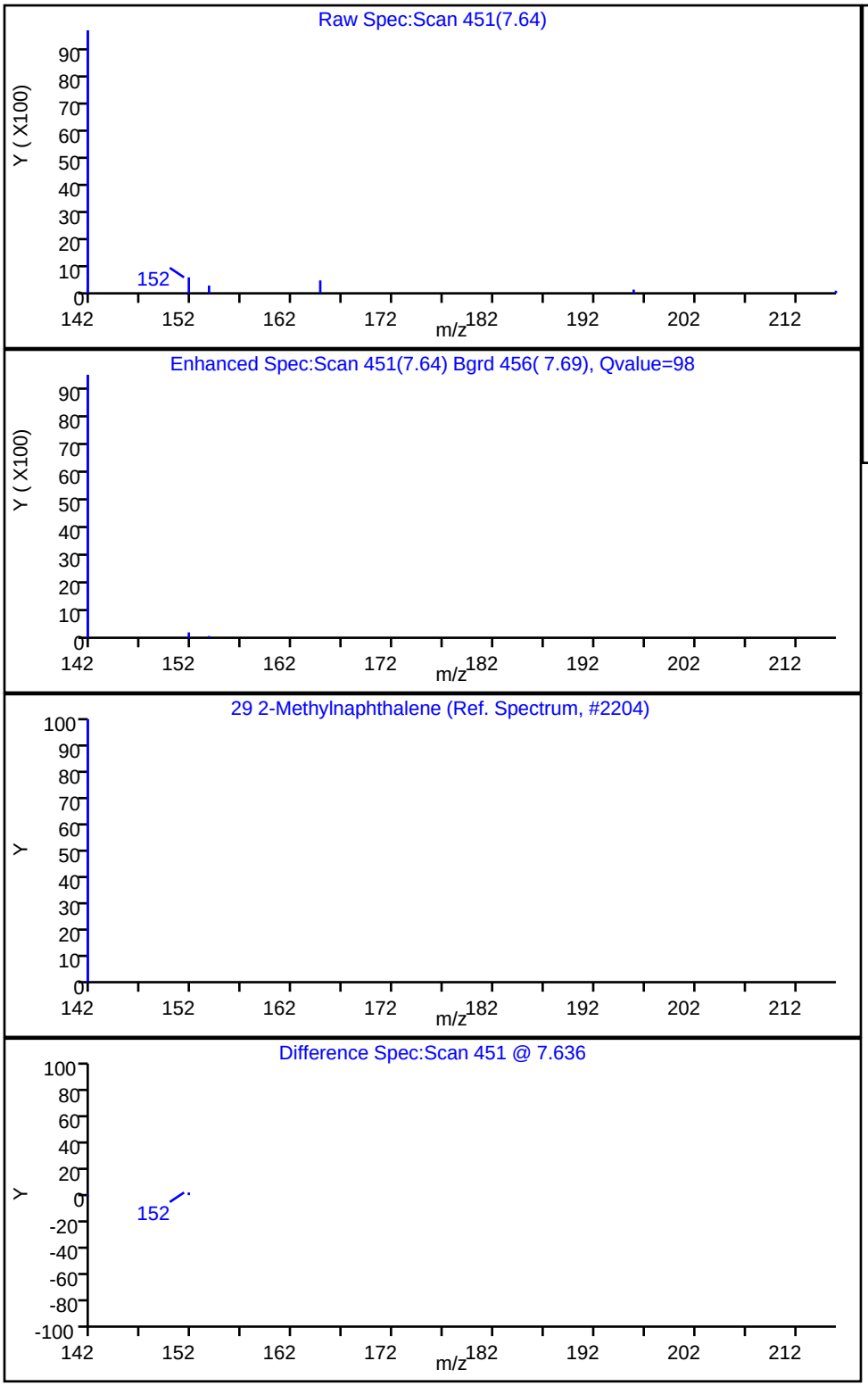


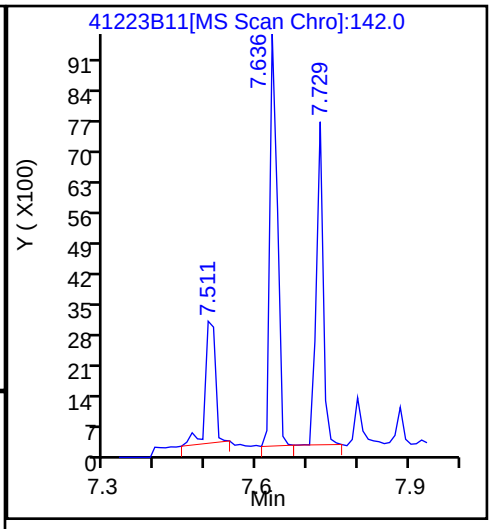
Report Date: 04-Jan-2016 13:32:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4122315B.b\41223B11.D		
Injection Date:	23-Dec-2015 14:14:30	Inst. ID:	msd4.i
Client ID:	SBLK13	Lab ID:	QQ92513-001
Sample Info:	4122315B, QQ92513-001		
Injection Vol.	2.00 uL	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

29 2-Methylnaphthalene





SEMIVOLATILE-sim Miscellaneous Data

Run Logs

Standard Preparation Logs

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd4.i\4121815B.b
Inst. ID: msd4.i Method: Sim2544
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	ICal Lvl	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	18-Dec-2015 14:10:30	41218B01.D	DFTPP		DFTPPOM	Water	1	all			Yes				IS:SVMS 1670	SOMDFTPP
1	SSTD.05ON	18-Dec-2015 14:25:30	41218B02.D	Ical	1	SSTD.05ON	Water	1	std		Yes					SVMS 1700	Sim2544
2	SSTD0.1ON	18-Dec-2015 14:51:30	41218B03.D	Ical	2	SSTD0.1ON	Water	1	std		Yes					SVMS 1701	Sim2544
3	SSTD0.2ON	18-Dec-2015 15:17:30	41218B04.D	Ical	3	SSTD0.2ON	Water	1	std		Yes					SVMS 1702	SIM2544
4	SSTD0.4ON	18-Dec-2015 15:44:30	41218B05.D	Ical	4	SSTD0.4ON	Water	1	std		Yes					SVMS 1703	SIM2544
5	SSTD0.8ON	18-Dec-2015 16:10:30	41218B06.D	Ical	5	SSTD0.8ON	Water	1	std		Yes					SVMS 1704	SIM2544
6	SSTD1.6ON	18-Dec-2015 16:36:30	41218B07.D	Ical	6	SSTD1.6ON	Water	1	std		Yes					SVMS 1705	SIM2544
8	QQ92102-001	18-Dec-2015 17:02:30	41218B08.D	BLANK		SBLK02	Soil	1	std		Yes					92588 IS	Sim2544
9	QL04012-001	18-Dec-2015 17:28:30	41218B09.D	Client		F6R00	Soil	20	std		Yes						Sim2544
10	QL04012-002	18-Dec-2015 17:55:30	41218B10.D	Client		F6R01	Soil	20	std		Yes					IS	SIM2544
11	QL04012-003	18-Dec-2015 18:21:30	41218B11.D	Client		F6R02	Soil	20	std		Yes						SIM2544
12	QL04012-004	18-Dec-2015 18:47:30	41218B12.D	Client		F6R03	Soil	20	std		Yes					IS	SIM2544
13	QL04012-005	18-Dec-2015 19:14:30	41218B13.D	Client		F6R04	Soil	20	std		Yes						SIM2544
14	QL11018-006	18-Dec-2015 19:40:30	41218B14.D	Client		F6R10	Soil	20	std		Yes						SIM2544
15	QL11018-007	18-Dec-2015 20:06:30	41218B15.D	Client		F6R11	Soil	20	std		Yes						SIM2544
16	QL11018-008	18-Dec-2015 20:32:30	41218B16.D	Client		F6R12	Soil	20	std		Yes						SIM2544
17	QL11018-009	18-Dec-2015 20:58:30	41218B17.D	Client		F6R13	Soil	20	std		Yes						SIM2544
18	QL11018-010	18-Dec-2015 21:24:30	41218B18.D	Client		F6R14	Soil	20	std		Yes						SIM2544
19	QL11018-011	18-Dec-2015 21:51:30	41218B19.D	Client		F6R15	Soil	20	std		Yes						SIM2544
20	QL11018-012	18-Dec-2015 22:17:30	41218B20.D	Client		F6R16	Soil	20	std		Yes						SIM2544
21	QL11018-013	18-Dec-2015 22:43:30	41218B21.D	Client		F6R17	Soil	20	std		Yes						SIM2544
22	QL11018-014	18-Dec-2015 23:09:30	41218B22.D	Client		F6R05	Soil	20	std		Yes					IS	SIM2544
23	QL11018-015	18-Dec-2015 23:35:30	41218B23.D	Client		F6R06	Soil	20	std		Yes					IS	SIM2544
24	QL11018-016	19-Dec-2015 00:01:30	41218B24.D	Client		F6R07	Soil	20	std		Yes						SIM2544
25	QL11018-017	19-Dec-2015 00:27:30	41218B25.D	Client		F6R08	Soil	20	std		Yes						SIM2544
26	QL11018-018	19-Dec-2015 00:54:30	41218B26.D	Client		F6R09	Soil	20	std		Yes						SIM2544
3	SSTD0.2OQ	19-Dec-2015 01:20:30	41218B27.D	Ccv		SSTD0.2OQ	Water	1	std		Yes					SVMS 1702	Sim2544-end
7	GPCBLK02	19-Dec-2015 01:46:30	41218B28.D	Client			Water	1	std		Yes					NA	SIM2544
3	SSTD0.2OQ	19-Dec-2015 02:13:30	41218B29.D	Ccv		SSTD0.2OQ	Water	1	std		Yes						Sim2544-end

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd4.i\4122115.b
Inst. ID: msd4.i Method: Sim2544
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	21-Dec-2015 08:23:30	4122101.D	DFTPP	DFTPPOO	Water	1	all			Yes				IS:SVMS 1670	SOMDFTPP
97	SSTD0.2OP	21-Dec-2015 08:39:30	4122102.D	Ccv	SSTD0.2OP	Water	1	std		Yes					SVMS 1702	Sim2544
1	GPCBLK13	21-Dec-2015 09:26:30	4122103.D	Client	GPCBLK13	Water	1	std		Yes						Sim2544
2	QQ92513-001	21-Dec-2015 09:52:30	4122104.D	BLANK	SBLK13	Soil	1	std		Yes					92718 IS	Sim2544
3	QL12004-001	21-Dec-2015 10:19:30	4122105.D	Client	F6R18	Soil	20	std		Yes						Sim2544
4	QL12004-002	21-Dec-2015 10:45:30	4122106.D	Client	F6R20	Soil	20	std		Yes						Sim2544
5	QL12004-003	21-Dec-2015 11:11:30	4122107.D	Client	F6R21	Soil	20	std		Yes						Sim2544
6	QL12004-004	21-Dec-2015 11:37:30	4122108.D	Client	F6R23	Soil	20	std		Yes					IS	Sim2544
7	QL12004-005	21-Dec-2015 12:04:30	4122109.D	Client	F6R24	Soil	20	std		Yes						Sim2544
8	QL12004-006	21-Dec-2015 12:30:30	4122110.D	Client	F6R25	Soil	20	std		Yes						Sim2544
9	QL12004-007	21-Dec-2015 12:56:30	4122111.D	Client	F6R26	Soil	20	std		Yes						Sim2544
10	QL12004-008	21-Dec-2015 13:22:30	4122112.D	Client	F6R27	Soil	20	std		Yes						Sim2544
11	QL12004-009	21-Dec-2015 13:48:30	4122113.D	Client	F6R28	Soil	20	std		Yes						SIM2544
12	QQ92513-001	21-Dec-2015 14:15:30	4122114.D	Client		Soil	20	std		Yes						SIM2544
13	QQ92102-001	21-Dec-2015 14:41:30	4122115.D	Client		Soil	20	std		Yes						SIM2544
14	GPCBLK02	21-Dec-2015 15:07:30	4122116.D	Client	GPCBLK02	Water	1	std		Yes						SIM2544
97	SSTD0.2OR	21-Dec-2015 15:33:30	4122117.D	Ccv	SSTD0.2OR	Water	1	std		Yes					SVMS 1702	Sim2544-end
15	QL21007-001	21-Dec-2015 15:59:30	4122118.D	Client	extw-4277exp-062116	Water	5	std		Yes						SOMBNA

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd4.i\4122215B.b
Inst. ID: msd4.i Method: Sim2544
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	22-Dec-2015 09:19:30	41222B01.D	DFTPP	DFTPPOS	Water	1	all			Yes				IS:SVMS 1670	SOMDFTPP
97	SSTD0.2OT	22-Dec-2015 09:34:30	41222B02.D	Ccv	SSTD0.2OT	Water	1	std		Yes					SVMS 1702	SIM2544
1	QL12004-006	22-Dec-2015 10:39:30	41222B03.D	Client	F6R25RE	Soil	20	std		Yes					92824	SIM2544
97	SSTD0.2OW	22-Dec-2015 14:43:30	41222B04.D	Ccv	SSTD0.2OW	Water	1	std		Yes					SVMS 1702	Sim2544-end

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd4.i\4122315B.b
Inst. ID: msd4.i Method: Sim2544
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	23-Dec-2015 09:53:30	41223B01.D	DFTPP	DFTPPPA	Water	1	all			Yes				IS:svms1670	SOMDFTPP
97	SSTD0.2PB	23-Dec-2015 10:09:30	41223B02.D	Ccv	SSTD0.2PB	Water	1	std		Yes					SVMS1702	SIM2544
98	SVMS 1703	23-Dec-2015 10:41:30	41223B03.D	Client		Water	1	std		Yes					na	SIM2544
1	GPCBLK38	23-Dec-2015 11:08:30	41223B04.D	Client	GPCBLK38	Water	1	std		Yes						Sim2544
11	QQ92838-001	23-Dec-2015 11:35:30	41223B05.D	BLANK	SBLK38	Soil	1	std		Yes					92918	Sim2544
2	QL04012-002	23-Dec-2015 12:02:30	41223B06.D	Client	F6R01RX	Soil	5	std		Yes						Sim2544
3	QL04012-003	23-Dec-2015 12:28:30	41223B07.D	Client	F6R02RX	Soil	5	std		Yes						Sim2544
4	QL04012-004	23-Dec-2015 12:55:30	41223B08.D	Client	F6R03RX	Soil	2	std		Yes						Sim2544
5	QL04012-005	23-Dec-2015 13:21:30	41223B09.D	Client	F6R04RX	Soil	2	std		Yes						SIM2544
6	QL11018-012	23-Dec-2015 13:48:30	41223B10.D	Client	F6R16RX	Soil	10	std		Yes						SIM2544
13	QQ92513-001	23-Dec-2015 14:14:30	41223B11.D	BLANK	SBLK13	Soil	1	std		Yes					reconcentrated	SIM2544
14	QQ92102-001	23-Dec-2015 14:41:30	41223B12.D	BLANK	SBLK02	Soil	1	std		Yes					reconcentrated-hit	SIM2544
7	QL11018-014	23-Dec-2015 15:07:30	41223B13.D	Client	F6R05RX	Soil	10	std		Yes						Sim2544
8	QL11018-015	23-Dec-2015 15:34:30	41223B14.D	Client	F6R06RX	Soil	20	std		Yes						SIM2544
9	QL12004-004	23-Dec-2015 16:01:30	41223B15.D	Client	F6R23RX	Soil	20	std		Yes						SIM2544
12	QL12004-007	23-Dec-2015 16:27:30	41223B16.D	Client	F6R26RX	Soil	10	std		Yes						SIM2544
10	QL12004-005	23-Dec-2015 16:54:30	41223B17.D	Client	F6R24RX	Soil	10	std		Yes					rr-100X	SIM2544
16	QL12004-005	23-Dec-2015 17:36:30	41223B18.D	Client	F6R24RX	Soil	100	std		Yes						SIM2544
98	SSTD0.2PC	23-Dec-2015 18:04:30	41223B19.D	Ccv	SSTD0.2PC	Water	1	std		Yes					SVMS1702	Sim2544-end

Working Standards Prep Log - GC/MS Semi-volatiles

Initials: RBH
Prep Date: 12/03/15
Exp Date: 06/03/16

Mix #: SVMS 1670
Solvent Lot #: 15-1218
Solvent: CH2CL2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SIM Internal Std							
Internal Standard	15-882	4,000	20	10	8		5/19/2025

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1700
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-1 MA 2455							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	2.5	1	0.05		7/18/2016
SOM SIM DMC	SVMS 1609	20	2.5	1	0.05		5/17/2016
SOM SIM Int	SVMS 1610	20	2.5	1	0.05		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	2.5	1	0.05		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	2.5	1	0.05		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1701
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-2 MA 2455							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	5	1	0.1		7/18/2016
SOM SIM DMC	SVMS 1609	20	5	1	0.1		5/17/2016
SOM SIM Int	SVMS 1610	20	5	1	0.1		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	5	1	0.1		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	5	1	0.1		4/19/2016
2,4-Dinitrophenol Int	SVMS 1618	200	4.5	1	0.9		5/17/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1702
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-3 MA 2544							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	10	1	0.2		7/18/2016
SOM SIM DMC	SVMS 1609	20	10	1	0.2		5/17/2016
SOM SIM Int	SVMS 1610	20	10	1	0.2		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	10	1	0.2		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	10	1	0.2		4/19/2016
2,4-Dinitrophenol Int	SVMS 1618	200	9	1	1.8		5/17/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1703
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-4 MA 2544							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	20	1	0.4		7/18/2016
SOM SIM DMC	SVMS 1609	20	20	1	0.4		5/17/2016
SOM SIM Int	SVMS 1610	20	20	1	0.4		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	20	1	0.4		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	20	1	0.4		4/19/2016
2,4-Dinitrophenol Int	SVMS 1618	200	18	1	3.6		5/17/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1704
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-5 MA 2544							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	40	1	0.8		7/18/2015
SOM SIM DMC	SVMS 1609	20	40	1	0.8		5/17/2016
SOM SIM Int	SVMS 1610	20	40	1	0.8		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	40	1	0.8		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	40	1	0.8		4/19/2016
2,4-Dinitrophenol Int	SVMS 1618	200	36	1	7.2		5/17/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1705
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-6 MA 2544							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	80	1	1.6		7/18/2016
SOM SIM DMC	SVMS 1609	20	80	1	1.6		5/17/2016
SOM SIM Int	SVMS 1610	20	80	1	1.6		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	80	1	1.6		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	80	1	1.6		4/19/2016
2,4-Dinitrophenol Int	SVMS 1618	200	72	1	14.4		5/17/2016

Refer to COA for specific compound concentrations for mixed standards.

SHEALY ENVIRONMENTAL SERVICES

SOM02.3 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

MISCELLANEOUS

Shipping Documents (Airbills –Original)

DC-1

Internal Chain of Custody

Other Records

41

1000

FedEx Express **US Airbill**

FedEx Tracking Number 8594 8322 0318

Form ID No. 0215 KM

Recipient's Copy

RECIPIENT: PEEL HERE

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From This portion can be removed for Recipient's records.

Date 12/11/15 FedEx Tracking Number 859483220318

Sender's Name JON MCBURNEY Phone 609 937-9116

Company LOCKHEED MARTIN GOVT REAC

Address 2890 WOODBRIDGE AVE

Dept./Floor/Suite/Room

City EDISON State NJ ZIP 08837

2 Your Internal Billing Reference

3 To

Recipient's Name BRAD BELDING Phone 803 791-9700

Company SHEALY ENVIRONMENTAL SERVICES

Recipient's Address 106 VANTAGE POINT DRIVE

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City WEST COLUMBIA State SC ZIP 29172

0345596370

12/12/15

8594 8322 0318

4a Express Package Service — *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [X] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain Recip. Acct. No. [ ]

Total Packages 1

Total Weight 55

Total Charges

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [X] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

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42

1000

FedEx Express **US Airbill**

FedEx Tracking Number 8594 8322 0329

Form ID No. 0215 KM

Recipient's Copy

1 From This portion can be removed for Recipient's records.

Date 12/11/15 FedEx Tracking Number 859483220329

Sender's Name JON MCBURNEY Phone 609 937-9116

Company LOCKHEED MARTIN GOVT REAC

Address 2890 WOODBRIDGE AVE

Dept./Floor/Suite/Room

City EDISON State NJ ZIP 08837

2 Your Internal Billing Reference

3 To

Recipient's Name BRAD BELDING Phone 803 791-9700

Company SHEALY ENVIRONMENTAL SERVICES

Recipient's Address 106 VANTAGE POINT DRIVE

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City WEST COLUMBIA State SC ZIP 29172

12/12/15 [signature] 0348596370

8594 8322 0329

RECIPIENT: PEEL HERE

fedex.com 1.800.GoFedEx 1.800.463.3339

4a Express Package Service *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [x] **SATURDAY Delivery** — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday** at FedEx Location — Not available for FedEx First Overnight.
- [ ] **HOLD Saturday** at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 _____ x _____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted]

Total Packages	Total Weight		Total Charges
1	23	[redacted]	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [x] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

519

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FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy Environmental		Page 1 of 1
Received By (Print Name) Lacey Goulding		Log-in Date 12/12/15
Received By (Signature) Lacey Goulding		
Case Number 45671	SDG No. FGR18	MA No. 2544.1

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8594 8322 0318
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	5.9 °C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	12/12/15
12. Time Received	0840

	EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	FGR18	NA	QL12004-001	OK
2	FGR20		-002	
3	FGR21		-003	
4	FGR23		-004	
5	FGR24		-005	
6	FGR25		-006	
7	FGR26		-007	
8	FGR27		-008	
9	FGR28		-009	
10				
11				
12				
13				
14				
15			LGG	
16			12/12/15	
17				
18				
19				
20				
21				
22				

* Contact SMO and attach record of resolution

Reviewed By [illegible]	Logbook No. NA
Date 12/14/15	Logbook Page No. NA

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy Environmental		Page 1 of 1
Received By (Print Name) Lacey Goulding		Log-in Date 12/12/15
Received By (Signature) Lacey Goulding		
Case Number 45671	SDG No. FGR18	MA No.

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8594 8322 0329
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	6.7°C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	12/12/15
12. Time Received	0840

	EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	FGR24	NA	QL12004-005	OK
2	FGR25		-006	
3	FGR26		-007	
4	FGR27		-008	
5	FGR28		-009	
6				
7				
8				
9				
10			LGG	
11			12/12/15	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

* Contact SMO and attach record of resolution

Reviewed By MMN	Logbook No. MA
Date 12/14/15	Logbook Page No. MA

Volatile Internal Chain of Custody - CLP

Date	Time	Analyst	From	To	Lab Sample ID	Container #	Consumed Y/N
12/16/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-019	C	Y
12/16/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-020	C	Y
12/16/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-021	C	Y
12/16/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-022	C	Y
12/16/2015	9:00	PAP	Freezer 14	MSD-5	QL12004-005	C	Y
12/16/2015	9:00	PAP	Freezer 14	MSD-5	QL12004-006	C	Y
12/16/2015	9:00	PAP	Freezer 14	MSD-5	QL12004-007	C	Y
12/16/2015	9:00	PAP	Freezer 14	MSD-5	QL12004-008	C	Y
12/16/2015	9:00	PAP	Freezer 14	MSD-5	QL12004-009	C	Y

Volatile Internal Chain of Custody - CLP

Date	Time	Analyst	From	To	Lab Sample ID	Container #	Consumed Y/N
12/21/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-022	C	Y
12/21/2015	9:00	PAP	Freezer 14	MSD-5	QL12004-005	C	Y

Volatile Internal Chain of Custody - CLP

Date	Time	Analyst	From	To	Lab Sample ID	Container #	Consumed Y/N
12/21/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-010	A	Y
12/21/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-013	A	Y
12/21/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-019	A	Y
12/21/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-021	A	Y
12/21/2015	9:00	PAP	Freezer 14	MSD-5	QL12004-009	A	Y
12/21/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-011	A	Y
12/21/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-020	A	Y
12/21/2015	9:00	PAP	Freezer 14	MSD-5	QL11018-023	A	Y
12/21/2015	9:00	PAP	Freezer 14	MSD-5	QL12004-010	A	Y

Internal Chain of Custody for SOM, GCSV, and GCMS Samples: Refrigerator #24 Extraction Prep Area

Date of Receipt	Time of Receipt	Custodian	From: EP or CP	Received To	Batch #	Batch Out Date	Batch Out Time	Custodian	Out To: SV , D , CP
12/22/15	1518	DAU	EP	Ref #24	92747 Som SV	12/22/15	1127	RBH	SV
~~12/22/15~~ RBH 12/22/15	~~1627~~	~~RBH~~		~~Ref #24~~					
12/22/15	1748	JBM	CP	Ref #24	92637 608 (Acid) (Hcl)	12/23/15	0750	MBM	SV
12/22/15	1752	TAC	CP	Ref #24	92774 Som AAO				
12/23/15	0218	SDW	CP	Ref #24	92847 8082A				
				Ref #24	92851				
12/23/15	0918	DAU	CP	Ref #24	92846 Som SV	12/23/15	0918	DAU	SV
L	1125	L	L	Ref #24	92838 Som SV (Sim)	L	1125	L	L
12/23/15	1138	DAU	CP	Ref #24	92780/1 8082A	12/23/15	1138	DAU	SV
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					

To and From Locations: EP = Extraction Prep, CP = Cleanup Procedure, SV = SV Ref #10, D = Disposed of
Refer to the Batch Sheet for the individual lab samples assigned to each batch.

Internal Chain of Custody for SOM, GCSV, and GCMS Samples: Refrigerator #24 Extraction Prep Area

Date of Receipt	Time of Receipt	Custodian	From: EP or CP	Received To	Batch #	Batch Out Date	Batch Out Time	Custodian	Out To: SV , D , CP
12/20/15	2120	EWR	EP	Ref #24	92614 8081B	12/21/15	0746	MEM	SV
	2144			Ref #24	92501/39 8270D	12/21/15	0810	DRB1	SV
				Ref #24	92615/6 8270D				
12/20/15	2151	EWR	EP	Ref #24	92513 SOMSIM	12/21/15	0916	RBH	SV
				Ref #24	92499 SIM				
				Ref #24	92502/05 8270D	12/21/15	0810	DRB1	SV
				Ref #24	92532 8081B	12/21/15	0746	MEM	SV
				Ref #24	92541 8081B				
12/20/15	2347	EWR	EP	Ref #24	92670 8011				
12/21/15	0845	JM	EP	Ref #24	92418 LLPA	12/22/15	0934	DRB1	SV
12/21/15	1135	TAC	EP	Ref #24	92634/5 EPH	12/21/15	1340	MEM	SV
	1544			Ref #24	92636 PAH SIM	12/21/15	1603	DRB1	SV
	1758			Ref #24	92612 625				
12/22/15	0042	EWR	EP	Ref #24	92754 DRO	12/22/15	0758	MEM	SV
12/22/15	1012	TAC	CP	Ref #24	92512 SOMSV	12/22/15	1031	RBH	SV
	1131		EP	Ref #24	92742 8270D	12/23/15	0821	DRB1	SV
	1245		CP	Ref #24	92731 608/43	12/22/15	1254	MEM	SV
12/22/15	1452	DAL1	EP	Ref #24	92745 SOMSV(SIM)	12/23/15	1414	RBH	SV

To and From Locations: EP = Extraction Prep, CP = Cleanup Procedure, SV = SV Ref #10, D = Disposed of
Refer to the Batch Sheet for the individual lab samples assigned to each batch.

Internal Chain of Custody for SOM, GCSV, and GCMS Samples: Refrigerator #24 Extraction Prep Area

Date of Receipt	Time of Receipt	Custodian	From: EP or CP	Received To	Batch #	Batch Out Date	Batch Out Time	Custodian	Out To: SV , D , CP
12/14/15	1614	TAC	EP	Ref #24	92072 82700	12/16/15	0853	DRB1	DRB1 12/16/15 SV
	1750		CP	Ref #24	92122 Som ARO	12/15/15	0754	MEM	SV
12/14/15	2148	EWR	CP	Ref #24	92054 Som Pest				
12/15/15	0912	DALI	EP	Ref #24	92046 T.DNA	12/15/15	0912	DALI	SV
				Ref #24	92051 T.DNA				
12/15/15	1407	DALI	EP	Ref #24	92112 8081B	12/15/15	1501	DMB	SV
12/15/15	1418	DALI	EP	Ref #24	92153/4 Som SV/Sim	12/16/15	0816	RBH	SV
12/15/15	1618	DALI	EP	Ref #24	92207 8015C	12/16/15	0751	MEM	SV
12/15/15	1814	DALI	EP	Ref #24	92164 8081B				
			CP	Ref #24	92102 Som SV(Sim)	12/16/15	0816	RBH	SV
12/15/15	1819	EWR	EP	Ref #24	92216 8011	12/16/15	0751	MEM	SV
	TAC 12/15/15			Ref #24	92221 8011				
12/15/15	~~1845~~ 1845	TAC	CP	Ref #24	92155 THerb				
				Ref #24	92157 THerb				
12/16/15 ~~12/15/15~~	1115	DALI	EP	Ref #24	92091 8270D	12/16/15	1349	DRB1	SV
~~12/15/15~~	1235	DALI	EP	Ref #24	92240 Som SV	12/16/15	1420	JCG	SV
12/16/15	1400	DALI	EP	Ref #24	92193/92255 8270D	12/16/15	1513	DRB1	SV
12/16/15	1425	TAC	CP	Ref #24	92053 608(S/F)	12/16/15	1429	MEM	SV

To and From Locations: EP = Extraction Prep, CP = Cleanup Procedure, SV = SV Ref #10, D = Disposed of
Refer to the Batch Sheet for the individual lab samples assigned to each batch.

Internal Chain of Custody for SOM, GCSV, and GCMS Samples: Refrigerator #24 Extraction Prep Area

Date of Receipt	Time of Receipt	Custodian	From: EP or CP	Received To	Batch #	Batch Out Date	Batch Out Time	Custodian	Out To: SV , D , CP
12/10/15	1169	TAC	EP	Ref #24	91715 8270D	12/11/15	0813	DRBI	SV
	1123			Ref #24	91692 DRO	12/10/15	1343	MEM	SV
12/10/15	1213	DAL	EP	Ref #24	91824 504				
12/10/15	1606	DAL	CP	Ref #24	91730/2 EPH	12/10/15	1606	DAL	SV
12/10/15	1850	EWR	EP	Ref #24	91758 SOM23SV	12/11/15	1200	JCG	SV
12/11/15	0109	EWR	EP	Ref #24	91856 PCB	12/11/15	0756	MEM	SV
				Ref #24	91857 PCB				
				Ref #24	91874 PCB				
12/11/15	1018	TAC	EP	Ref #24	91848/53 LL8270D	12/11/15	1257	DRBI	SV
12/11/15	1123	JAL		Ref #24	91931 8330A	N/A			
12/11/15	1220	TAC	EP	Ref #24	91693 8270D	12/11/15	1257	DRBI	SV
	1324			Ref #24	91927 8011	12/11/15	1346	MEM	SV
	1445			Ref #24	91795 8270D(SIM)	DRBI 12/14/15 ~~12/11/15~~	1347	DRBI	SV
	1715			Ref #24	91936/51 8270D	12/14/15	1140	DRBI	SV
	1810			Ref #24	91895/6 SOM SV	12/14/15	0838	KBH	SV
	1810			Ref #24	91897 LL8270	12/14/15	1140	DRBI	SV
12/11/15	1810	TAC	CP	Ref #24	91819 SOM SV	12/14/15	0838	KBH	SV
12/12/15	0135	JDW	EP	Ref #24	91968 8270D	12/15/15	1534	DRBI	SV

To and From Locations: EP = Extraction Prep, CP = Cleanup Procedure, SV = SV Ref #10, D = Disposed of
Refer to the Batch Sheet for the individual lab samples assigned to each batch.

Shealy Environmental Services, Inc.
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Replaces Date: 04/26/12
Effective Date: 02/12/15

Pest/PCB/GCMS Internal Chain of Custody Record from Extractions Ref # 24 to Semivolatiles Ref # 23 or Disposal

*Date of Receipt	Time of Receipt	Custodian	Batch # or Sample #	Out Date	Out Time	Custodian	Out To: D=Disposal	Comments
12/9/15	1152	CMS	91448 SOMPEST					
12/9/15	1436	RBH	91596/7 Som/Sim SV					
12/10/15	0755	MEM	91559 SomPest					
↓	↓	↓	91515 SomPest					
12/10/15	0841	RBH	91580 Som SV					
↓	↓	↓	91512/13 Som/Sim SV					
12/11/15	1210	JCG	91758 Som SV					
~~12/13/15~~ 12/14/15	0755 12/14/15 MEM	MEM	92052 SomPCB					
12/14/15	0838	RBH	91819 Som SV					
↓	↓	↓	91895/6 Som/Sim SV					
12/15/15	0754	MEM	92122 SomPCB					
↓	↓	↓	92054 SomPest					
12/16/15	0816	RBH	92102 SomSim SV					
↓	↓	↓	92153/4 Som/Sim SV					
12/16/15	1430	JCG	92240 SOM SV					
12/17/15	0757	CMS	92213 SomPCB					
↓	↓	↓	92214 SOMPEST					
12/17/15	1046	RBH	92296 Som SV					

* All samples are Received from Extractions Ref #24 and Received to Semivolatiles Ref #23
Refer to the Batch Sheet for the individual lab samples assigned to each batch.